TETRA TECH

December 3, 2024

Mr. Donald Beebe
Project Manager, PDC
Facilities Management
Montana State University
P.O. Box 170510
Bozeman, Montana 59717-0515

Delivered via email: donald.beebe@montana.edu

SUBJECT: **Pre-Renovation Asbestos Inspection Report**
Window and Attic Project
Paisley Court
Buildings 101A, 101B, 102A, 102B, 103A, 103B, 104A, 104B, 105A, 105B, 106A, 106B, 107A, 107B, 108A, 108B, 109A, and 109B
Montana State University
Bozeman, Montana
Tetra Tech Project No. 117-001068-25005

Dear Mr. Beebe:

On November 7 and 8, 2024, Tetra Tech, Inc. (Tetra Tech) conducted a pre-renovation asbestos inspection at the above-referenced site. Based on correspondence with you before the commencement of the project, Tetra Tech was instructed to inspect for suspect asbestos-containing materials (ACM) associated with the windows and attic of the above referenced buildings for future renovation purposes. Details of our inspection are provided below.

PRE-RENOVATION ASBESTOS INSPECTION

The pre-renovation asbestos inspection was conducted in accordance with the Administrative Rules of Montana (ARM) 17.74.354, using the currently recognized standard protocol developed under the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA), as administered by the State of Montana Department of Environmental Quality (MDEQ).

Mr. Rylee Prinz of Tetra Tech, MDEQ Accredited Asbestos Inspectors, collected samples of suspect ACM. His MDEQ Inspector Accreditation is presented in **Attachment A**.

The bulk samples were shipped, along with the completed chain of custody (COC) documentation to Crisp Analytical of Carrollton, Texas for the analysis of asbestos fibers by polarized light microscopy (PLM) using U.S. Environmental Protection Agency (EPA) Methods described in 40 CFR Part 763 Appendix E Subpart E (Interim and EPA 600/R-93 / 116 (Improved). A copy of the laboratory analysis reports and COCs is contained in **Attachment B**.

A summary of the ACMs identified to contain 1% or less asbestos is provided in **Table 1**. Approximate sample collection locations are presented in **Figures 1 through 18**. Approximate ACM locations are presented in **Figures 19 through 28**.

Table 1. Summary of Materials Containing 1% or Less Asbestos

HA Number	Material Description and Location	Percent Asbestos
Building 101A		
101A-M8.1A, B, C	White window caulking located on exterior windows with brick siding	Trace Chrysotile
Building 102A		
102A-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.25% Chrysotile
Building 102B		
102B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.25% Chrysotile
Building 104B		
104B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.5% Chrysotile
Building 105B		
105B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.5% Chrysotile
Building 106A		
106A-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.25% Chrysotile
Building 106B		
106B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.5% Chrysotile
Building 107A		
107A-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.5% Chrysotile
Building 108B		
108B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.25% Chrysotile
Building 109B		
109B-M8.1A, B, C	White window caulking located on exterior windows with brick siding	0.25% Chrysotile

HA: Homogeneous Area Number

Based on the asbestos concentration associated with the analysis of the materials identified in Table 2, they are not regulated by the EPA or MDEQ. However, Occupational Safety and Health Administration (OSHA) regulations (29 CFR 1926.1001) state that if asbestos-containing material containing 1% or less asbestos is to be removed by construction personnel, the employer shall provide awareness training, written respirator protection program, respirators, and negative exposure assessment would apply for any disturbance activities associated with these materials. Accordingly, Tetra Tech recommends that individuals engaging in the disturbance or removal of these materials utilize “asbestos safe” work practices as specified within 29 CFR 1926.1101. As stipulated under 29 CFR 1926.1101, work practice requirements and prohibitions that must be observed regardless of the exposure levels and the percentage of asbestos in the installed construction materials include, but are not necessarily limited to:

- 29 CFR 1926.1101(g)(1)(ii), which requires: wet methods, or wetting agents, to control employee exposures during asbestos handling, mixing, removal, cutting, application, and cleanup, except where employers demonstrate that the use of wet methods is infeasible due to, for example, the creation of electrical hazards, equipment malfunction, and, in roofing, except as provided in paragraph (g)(8)(ii) of this section;
- 29 CFR 1926.1101(g)(1)(iii), which requires: prompt clean-up and disposal of wastes and debris contaminated with asbestos in leak-tight containers except in roofing operations, where the procedures specified in paragraph (g)(8)(ii)3 of this section apply;
- 29 CFR 1926.1101(g)(3)(i), which prohibits: high-speed abrasive disc saws that are not equipped with point-of-cut ventilator or enclosures with HEPA-filtered exhaust air;
- 29 CFR 1926.1101(g)(3)(ii), which prohibits: compressed air used to remove asbestos, or materials containing asbestos, unless the compressed air is used in conjunction with an enclosed ventilation system designed to capture the dust cloud created by the compressed air; and
- 29 CFR 1926.1101(g)(3)(iv), which prohibits: employee rotation as a means of reducing employee exposure to asbestos.

A visual inspection should be conducted following the completion of asbestos removal.

The following suspect ACMs sampled from the site were found not to contain asbestos by laboratory analysis:

Building 101A

- White wallboard system located throughout interior walls and ceilings (101A-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (101A-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (101A-M34.1A, B, C)

Building 101B

- White wallboard system located throughout interior walls and ceilings (101B-M3.1A, B, C)
- White window caulking located on exterior windows (101B-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (101B-M13.1A, B, C)
- Black felt paper moisture barrier located on exterior walls (101B-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (101B-M34.1A, B, C)

Building 102A

- White wallboard system located throughout interior wall and ceilings (102A-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (102A-M13.1A, B, C)
- Black felt paper moisture barrier located on exterior walls (102A-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (102A-M34.1A, B, C)

Building 102B

- White wallboard system located throughout interior walls and ceilings (102B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (102B-M13.1A, B, C)
- Black plastic moisture barrier located on exterior walls (102B-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (102B-M34.1A, B, C)

Building 103A

- White wallboard system located throughout interior walls and ceilings (103A-M3.1A, B, C)
- White caulking located on exterior windows (103A-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (103A-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (103A-M34.1A, B, C)

Building 103B

- White wallboard system located throughout interior walls and ceilings (103B-M3.1A, B, C)
- White caulking located on exterior windows (103B-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (103B-M13.1A, B, C)
- Green moisture barrier located on exterior walls (103B-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (103B-M34.1A, B, C)

Building 104A

- White wallboard system located throughout interior walls and ceilings (104A-M3.1A, B, C)
- White caulking located on exterior windows (104A-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (104A-M13.1A, B, C)
- Green foam moisture barrier located on exterior walls (104A-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (104A-M34.1A, B, C)

Building 104B

- White wallboard system located throughout interior walls and ceilings (104B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (104B-M13.1A, B, C)
- Green foam moisture barrier and associated silver backing located on exterior walls (104B-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (104B-M34.1A, B, C)

Building 105A

- White wallboard system located throughout interior walls and ceilings (105A-M3.1A, B, C)
- White caulking located on exterior windows (105A-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (105A-M13.1A, B, C)
- Gray blow-in insulation located throughout the attic (105A-M34.1A, B, C)

Building 105B

- White wallboard system located throughout interior walls and ceilings (105B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (105B-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (105B-M34.1A, B, C)

Building 106A

- White wallboard system located throughout interior walls and ceilings (106A-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (106A-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (106A-M34.1A, B, C)

Building 106B

- White wallboard system located throughout interior walls and ceilings (106B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (106B-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (106B-M34.1A, B, C)

Building 107A

- White wallboard system located throughout interior walls and ceilings (107A-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (107A-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (107A-M34.1A, B, C)

Building 107B

- White wallboard system located throughout interior walls and ceilings (107B-M3.1A, B, C)
- White caulking located on exterior windows (107B-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (107B-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (107B-M34.1A, B, C)

Building 108A

- White wallboard system located throughout interior walls and ceilings (108A-M3.1A, B, C)
- White caulking located on exterior windows (108A-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (108A-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (108A-M34.1A, B, C)

Building 108B

- White wallboard system located throughout interior walls and ceilings (108B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (108B-M13.1A, B, C)
- Gray blown-in insulation located throughout the attic (108B-M34.1A, B, C)

Building 109A

- White wallboard system located throughout interior walls and ceilings (109A-M3.1A, B, C)
- White caulking located on exterior windows (109A-M8.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (109A-M13.1A, B, C)
- Black felt paper moisture barrier located on exterior walls (109A-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (109A-M34.1A, B, C)

Building 109B

- White wallboard system located throughout interior walls and ceilings (109B-M3.1A, B, C)
- 3-inch by 6-inch red brick and associated gray mortar located on exterior walls (109B-M13.1A, B, C)
- Black felt paper moisture barrier located on exterior walls (109B-M20.1A, B, C)
- Gray blown-in insulation located throughout the attic (109B-M34.1A, B, C)

LIMITATIONS

Our opinions are intended exclusively for use by Montana State University. The scope of services performed by Tetra Tech may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein is prohibited and at the sole risk of the user. No additions or deletions are permitted without the express written consent of Tetra Tech. Furthermore, the opinions presented herein are limited by the requested scope of services and the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future site conditions which we have not had the opportunity to evaluate.

It has been a pleasure assisting you with this project. If you have any questions or need additional information, please contact me in our Tetra Tech Billings, Montana office at (406) 248-9161.

Respectfully submitted,

TETRA TECH

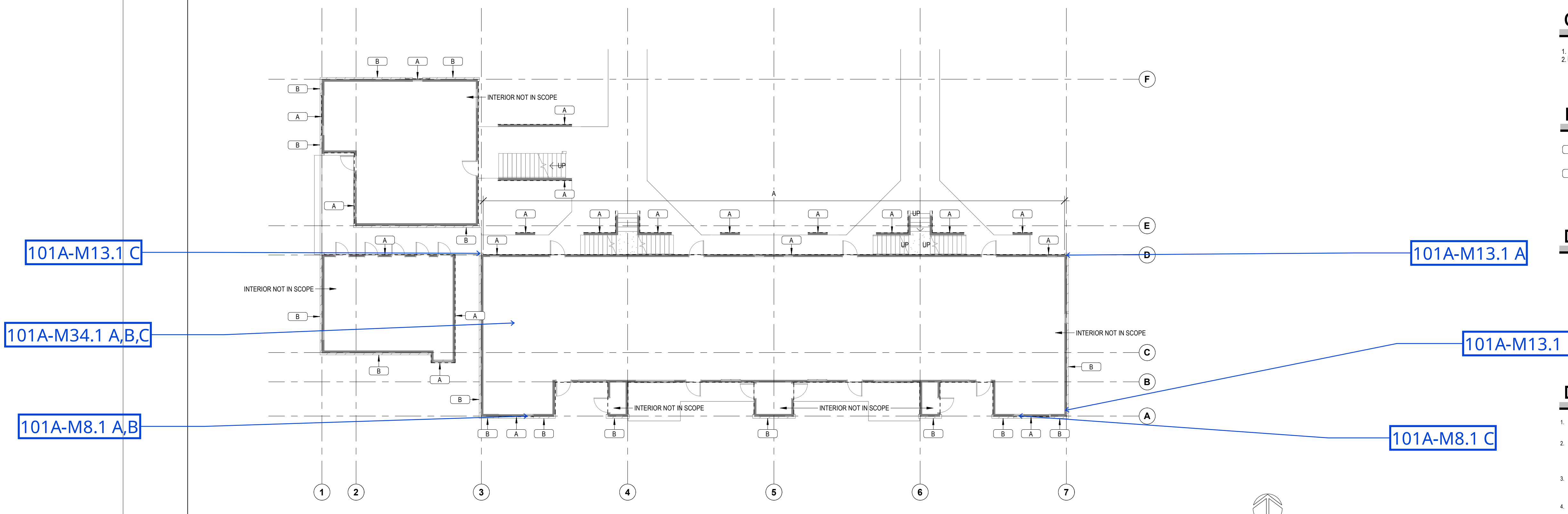
Roger W. Herman, Jr.

Roger W. Herman, Jr.
Asbestos, Lead & IH Services Manager

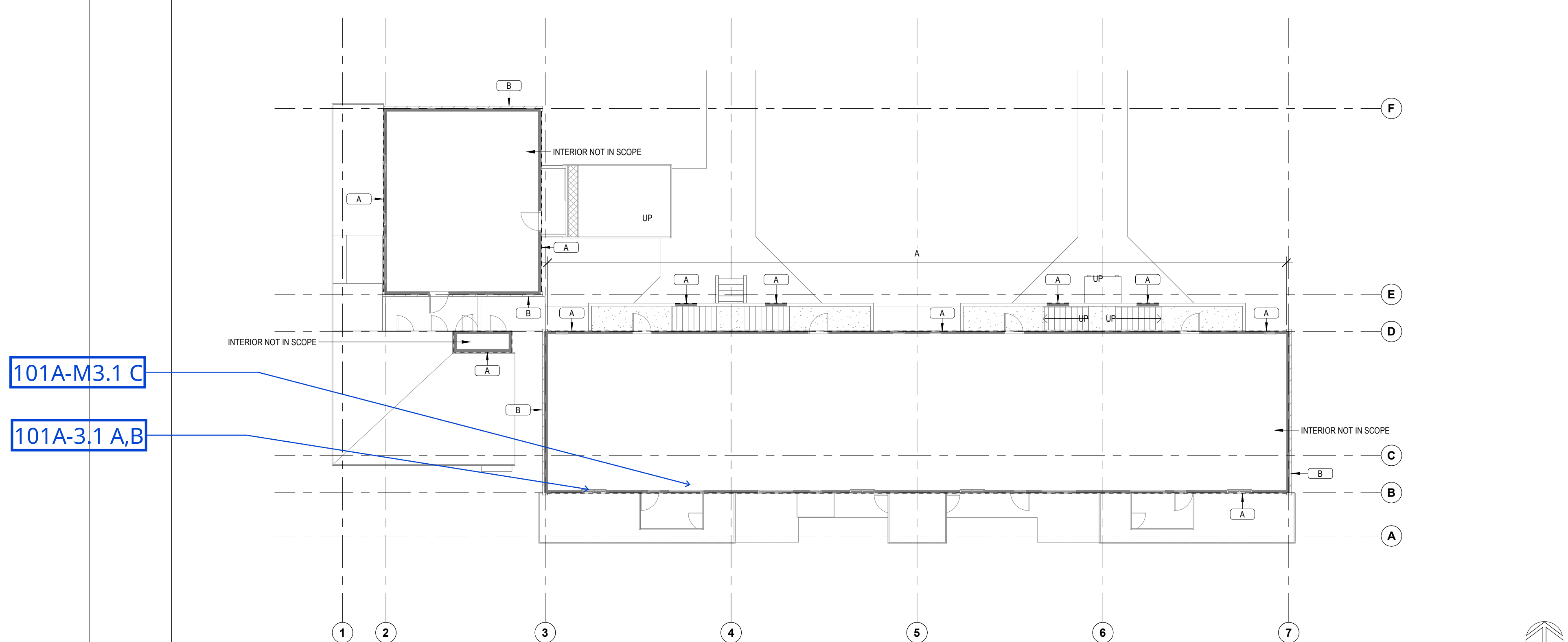
Figures
Attachment A – MDEQ Inspector Accreditation
Attachment B – Laboratory Analytical Reports and COCs

I:\H-M\Montana State University\117-001068-25005 - Paisley Court Housing ASB\05-Deliverables\Final\MSU-Paisley Court-Pre-Renovation Asbestos Inspection Report.docx

FIGURES



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF T... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY A... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE ...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO ... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, ... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, ... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPAR... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND ... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS N...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 101A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-01

Not To Scale

101B-M3.1 C

101B-M13.1 B

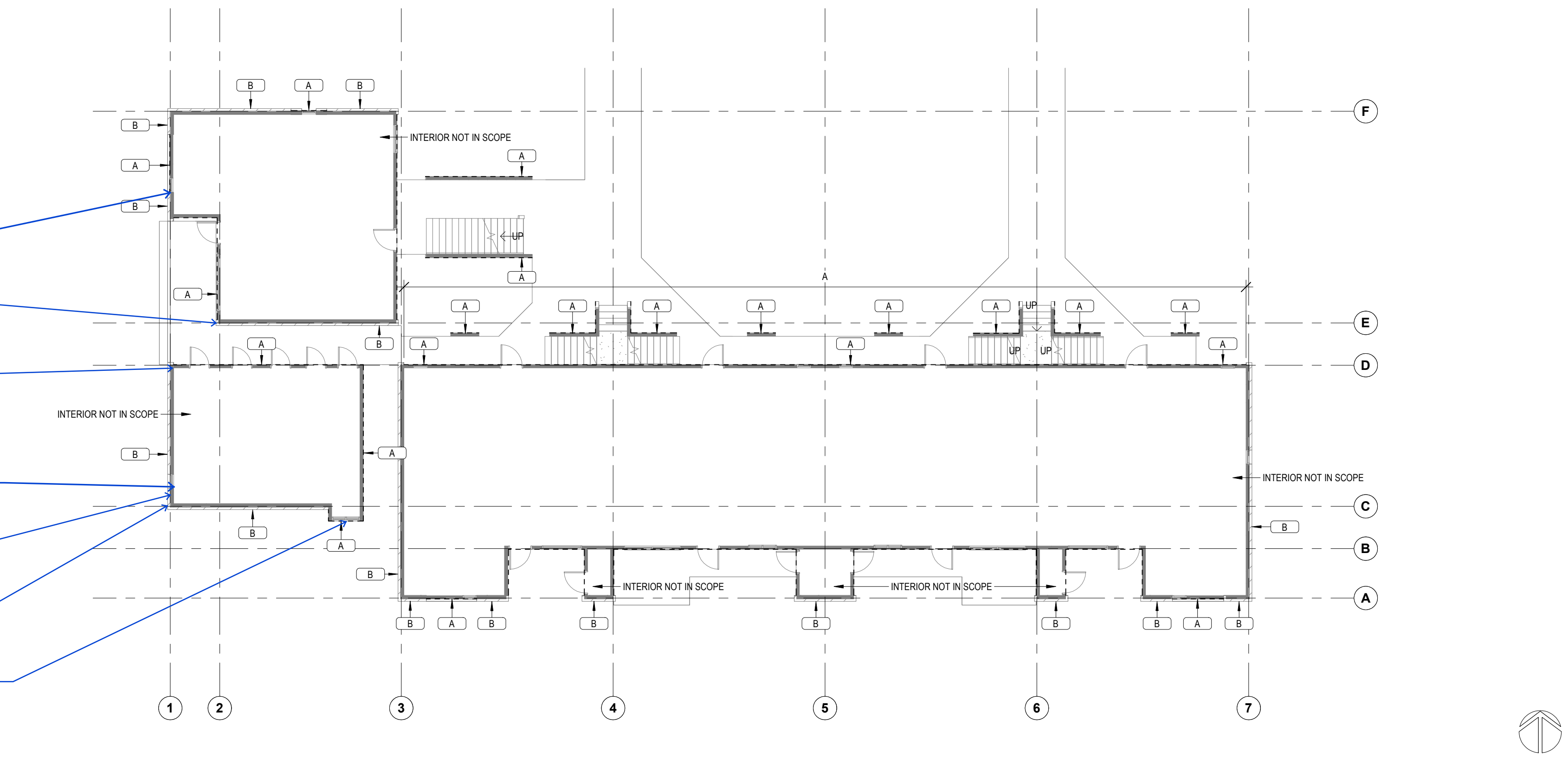
101B-M13.1 A

101B-M3.1 A,B

101B-M8.1 A,B

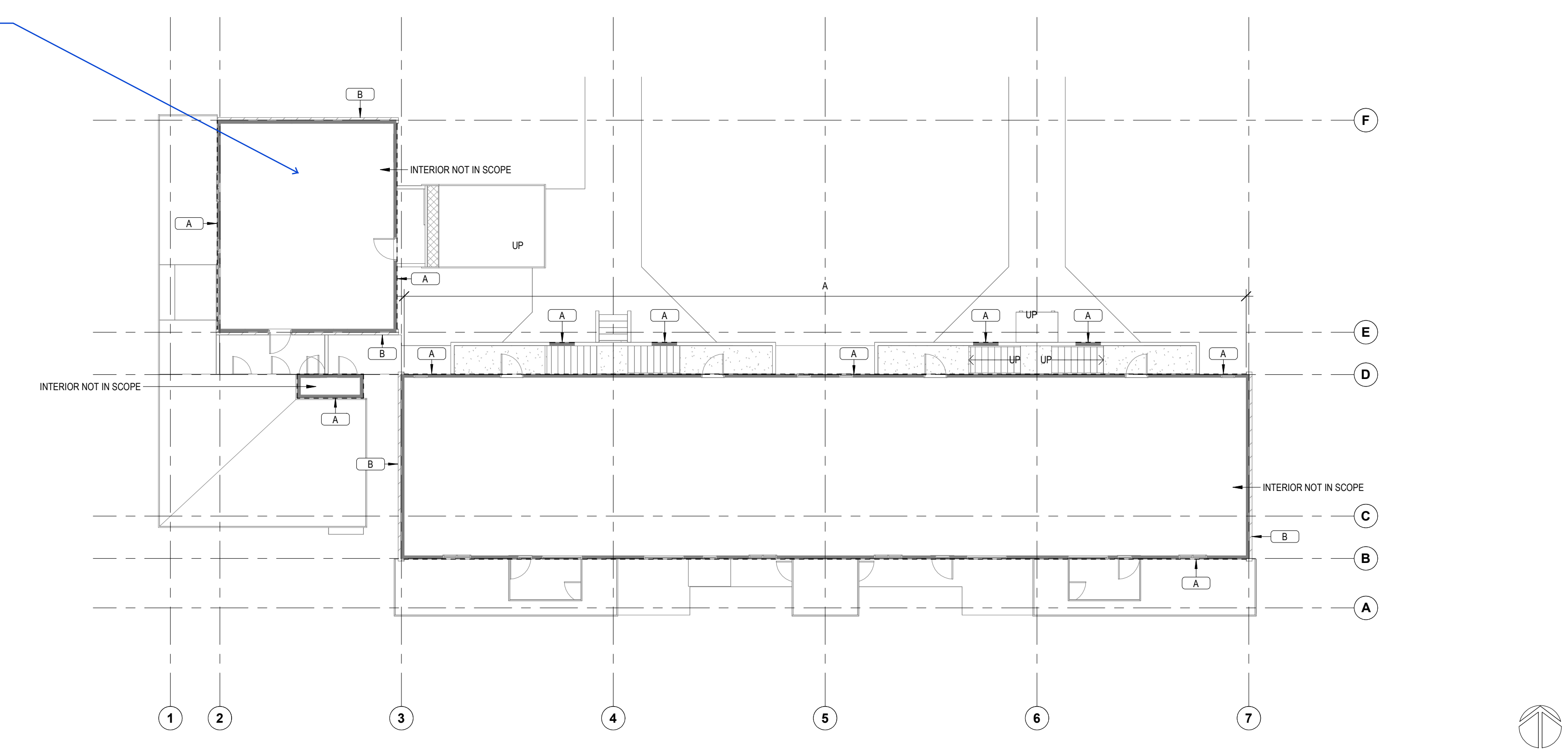
101B-M13.1 C

101B-M8.1C



5 LEVEL 1 DEMO
3/32" = 1'-0"

101B-M34.1 A,B,C



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIF NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT.
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUR RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE F DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO PI INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH

www.tetratech.com

7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

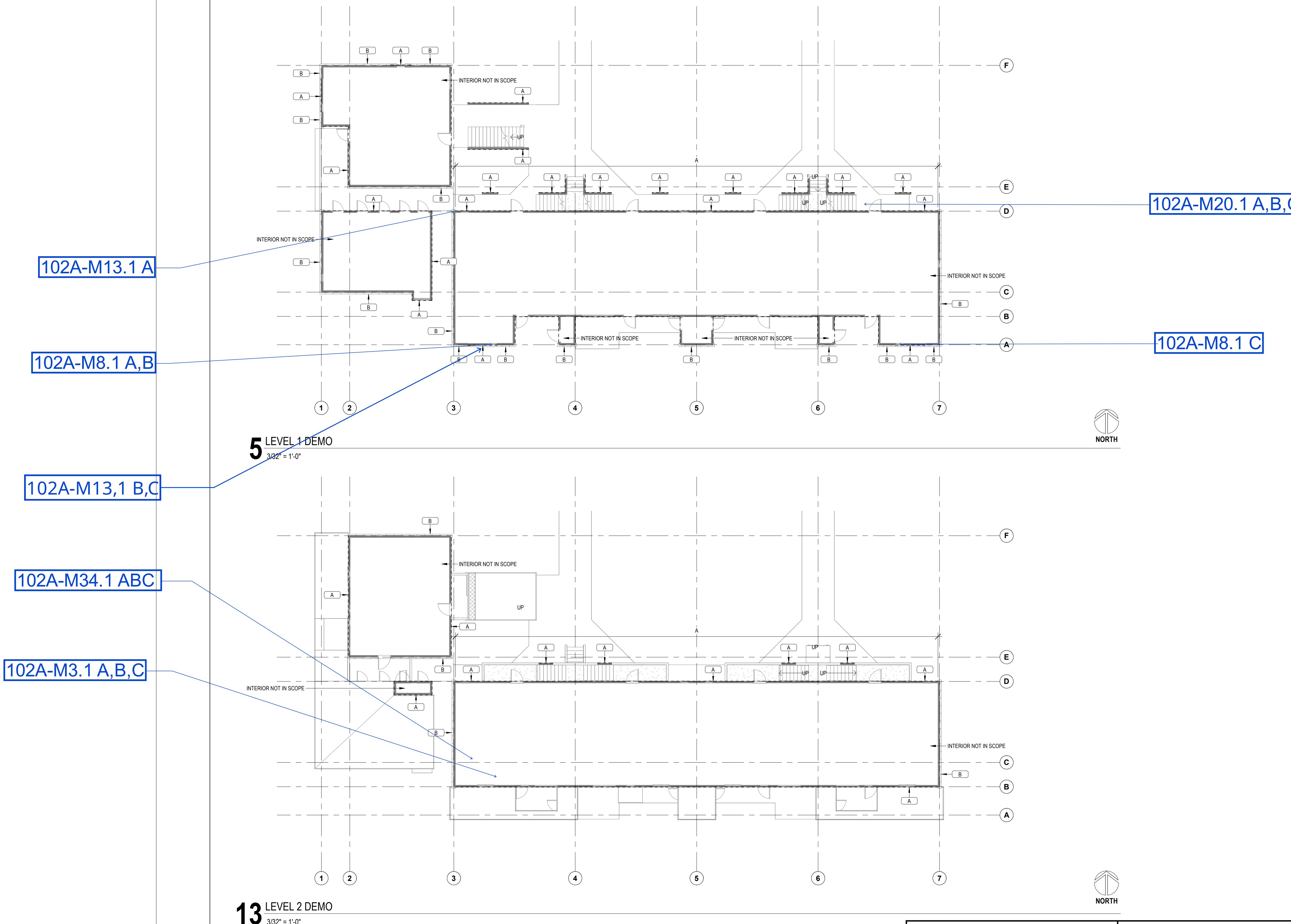
PAISLEY COURT

ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 101B
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-02

Not To Scale



LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

- A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B
- B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUR RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES

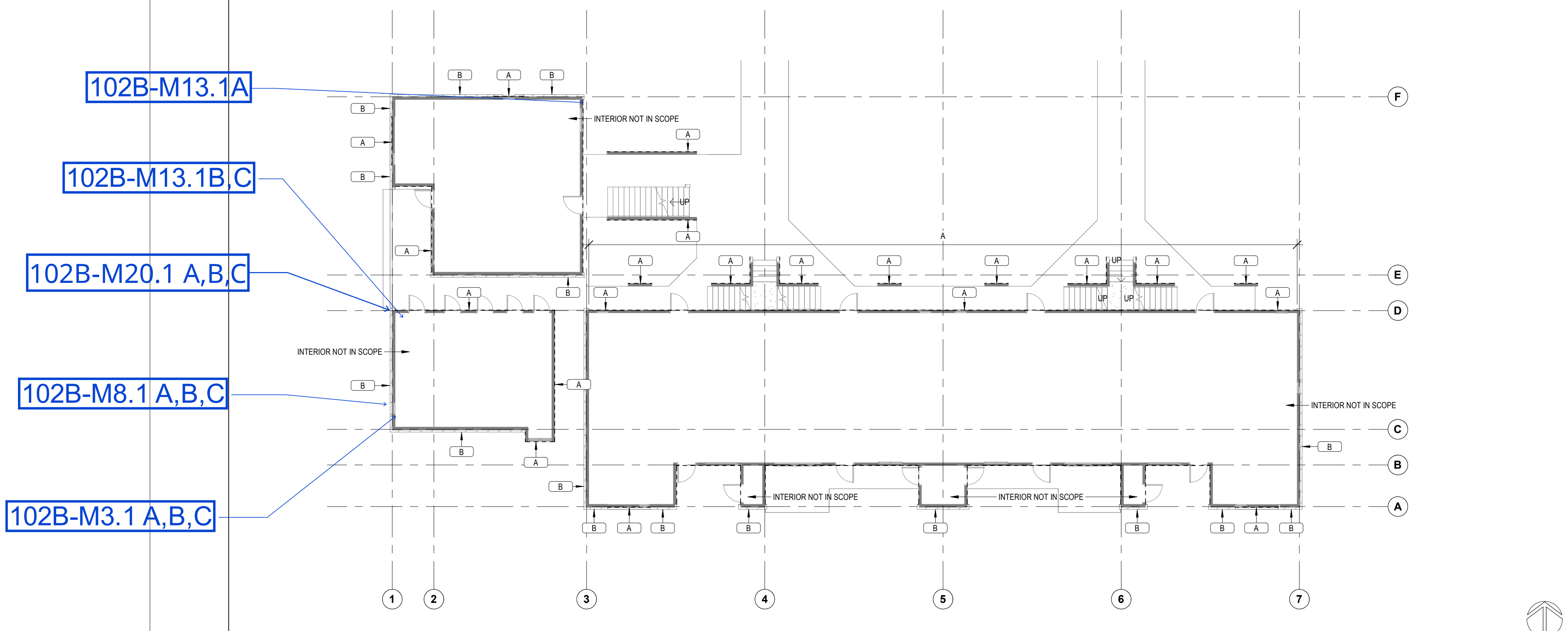
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 102A
BOZEMAN, MONTANA

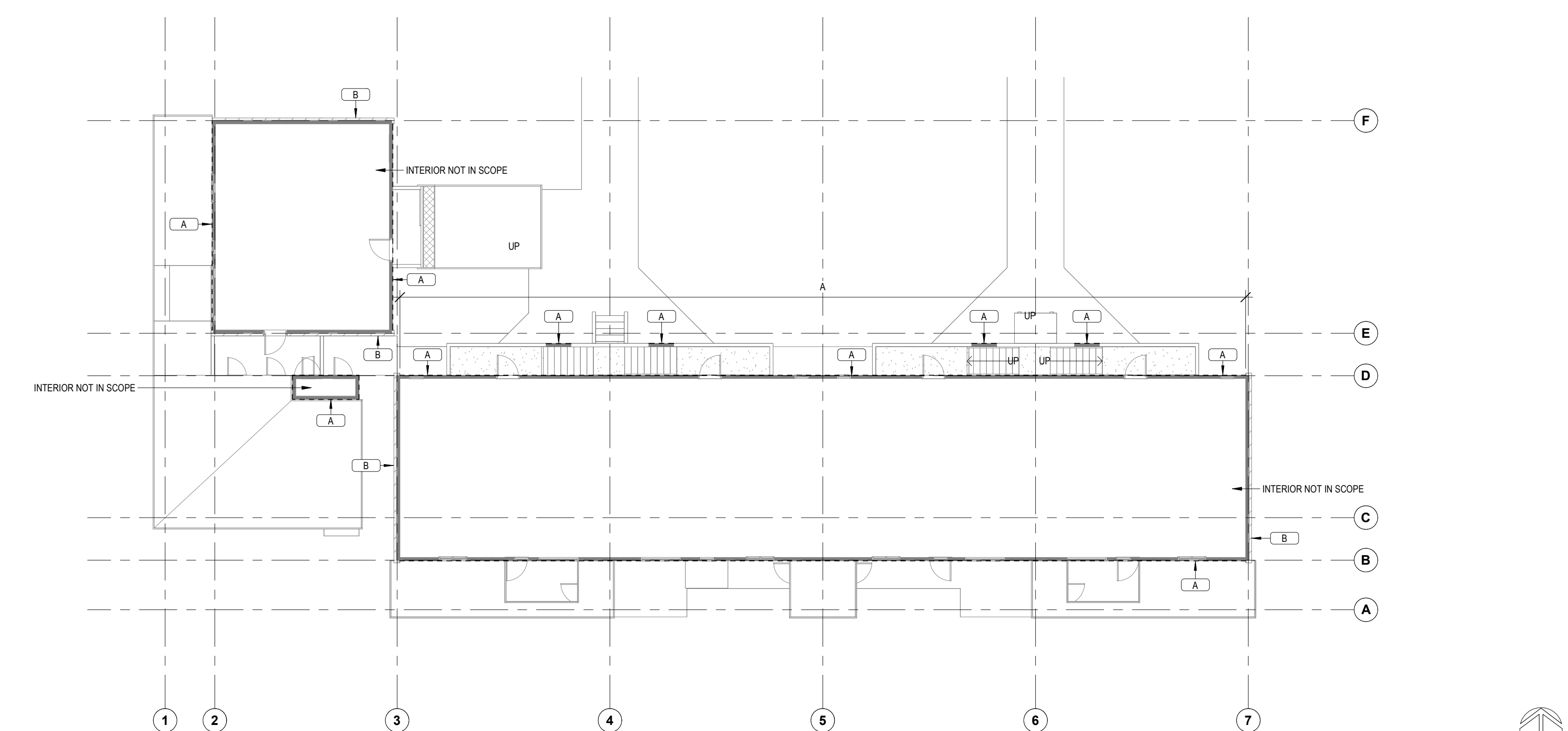
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-03

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING … 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN… SPOUTS TO BE REMOVED AND RE…

KEYNO…

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA… TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B…

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR…

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL… OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH… REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC… LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET… ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED… SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME… CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S…
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN… EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU… OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D… ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E… WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK … REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE… SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE… OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN… PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS…
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC… REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, … MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH … NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F…
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS… ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U… ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO… PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A… STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO… TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT…
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU… AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER…
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN… STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND… CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT… IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE… SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA… DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP… NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR…
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, … QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY … MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT…
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT… DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT… SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT… PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUR… RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE … DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM … REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA… DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE… CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL …
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE… CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH … OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE… EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND…
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP… OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON… DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND… CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P… INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO…
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB … TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U… PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

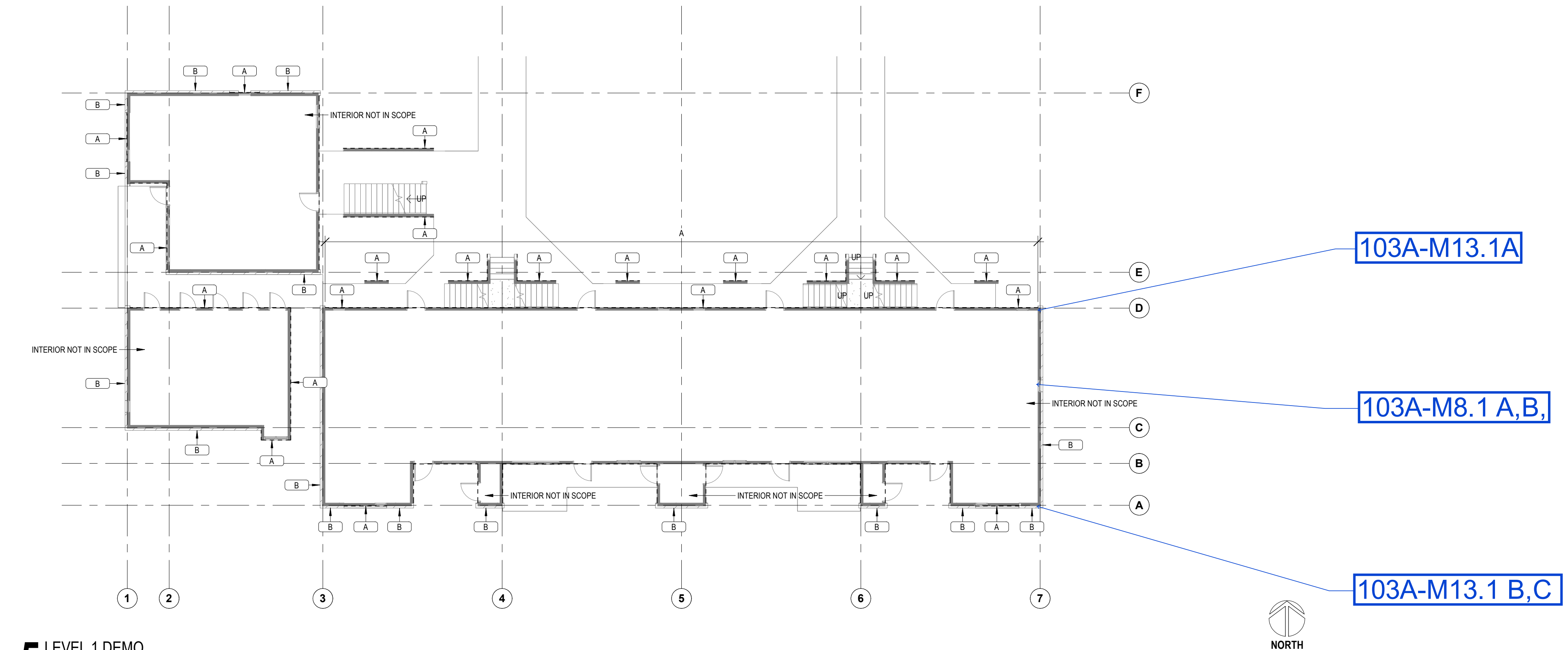
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 102B
BOZEMAN, MONTANA

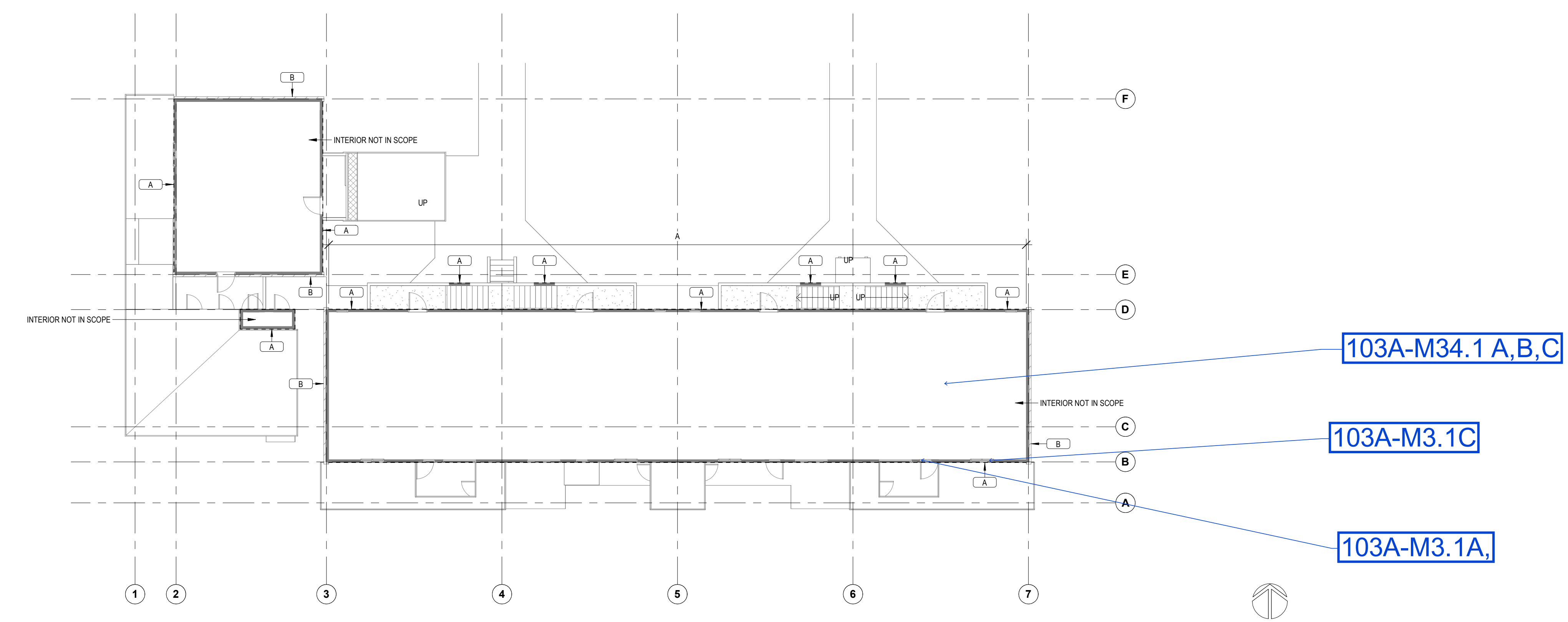
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-04

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

- A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE… TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B…
- B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR…
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE… OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH… REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC… LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE… ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE… SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM… CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE …
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN… EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU… OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR … ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E… WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK … REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE… SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE… OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN… PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES…
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC… REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, … MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH … NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F…
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS… ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, … ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C… PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, … STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO… TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT…
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU… AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER…
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN… STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN… CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT… IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE… SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA… DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI… NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO…
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, … QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY … MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT…
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT … DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT… SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN… PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU… RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE … DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM … REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPAR… DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE… CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL …
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE… CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH … OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R… EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND…
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP… OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON… DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AN… CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P… INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS N…
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB … TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, … PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 103A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-05

Not To Scale

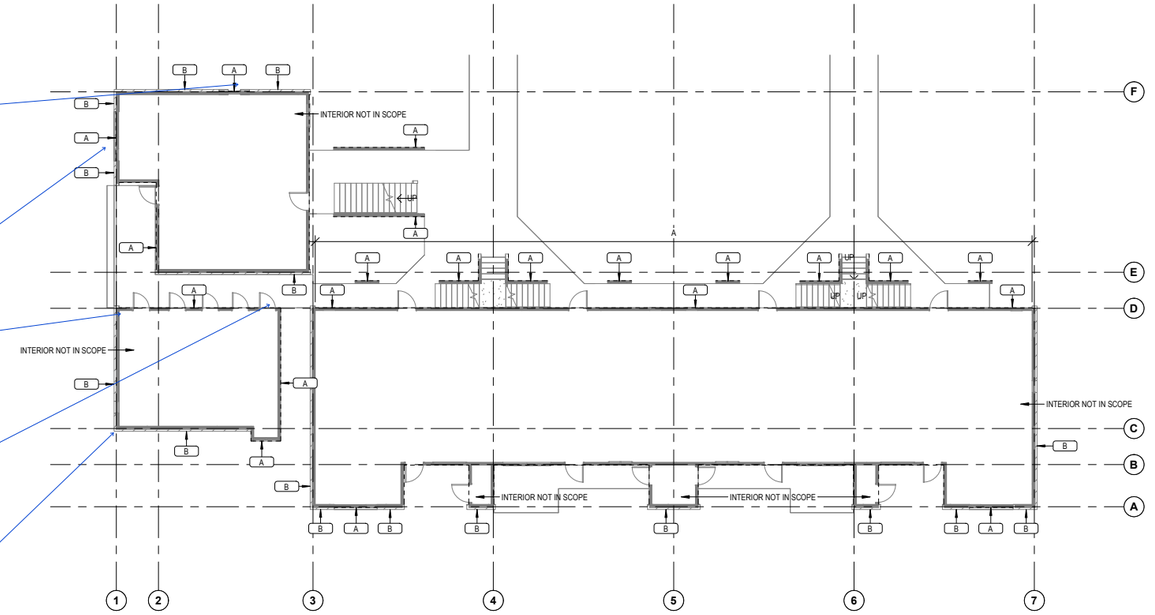
103B-M8.1-A,C

103B-M8.1C

103B-M13.1 A

103B-M20.1A,B,C

103B-M13.1 B,C

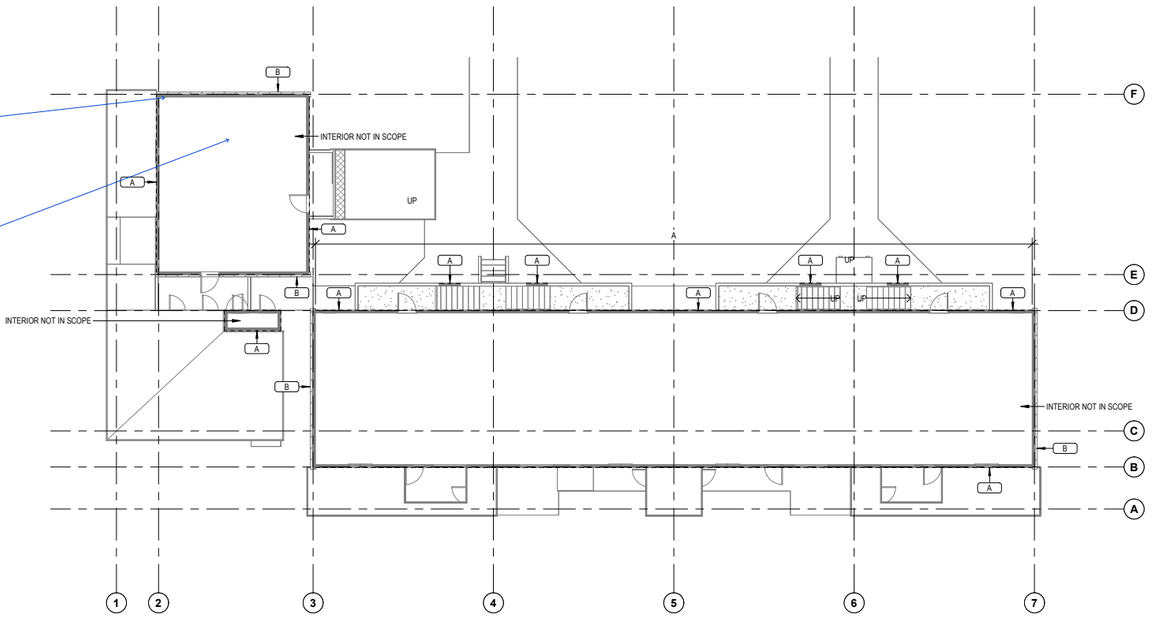


NORTH

5 LEVEL 1 DEMO
3/32" = 1'-0"

103B-M3.1 A,B,C

103B-M34.1 A,B,C



NORTH

13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AND [illegible] SPOUTS TO BE REMOVED AND REI

KEYNO

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE
TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CO TRANSITIONS AND PREPARE REMAINING SURFACES TO RECEIVE NEW FINISH

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

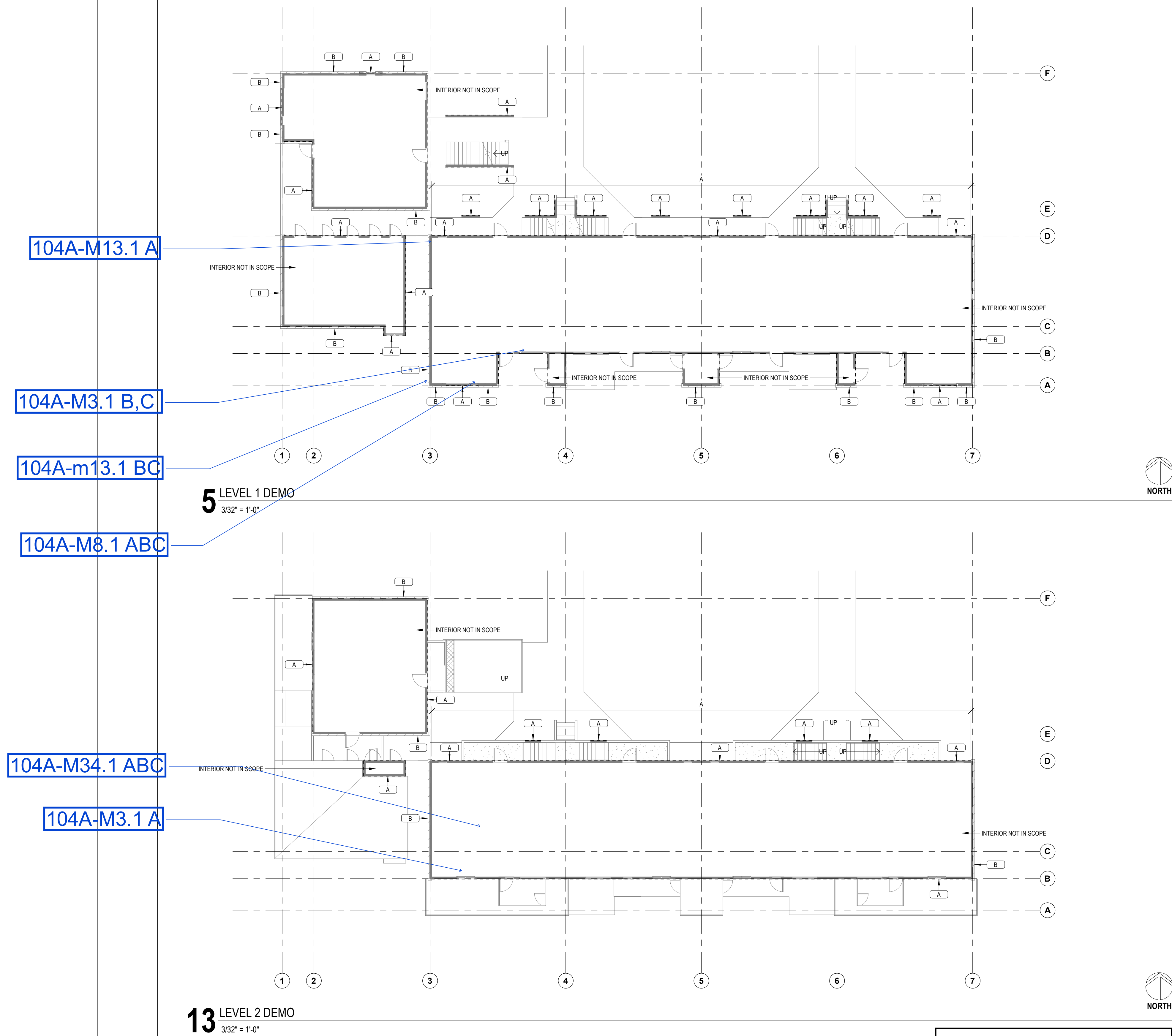
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 103B
BOZEMAN, MONTANA

Project No.: 117-21068-250

Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-06

Not To Scale



LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A	REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B
B	EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO B WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIAT DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUR RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC. U PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

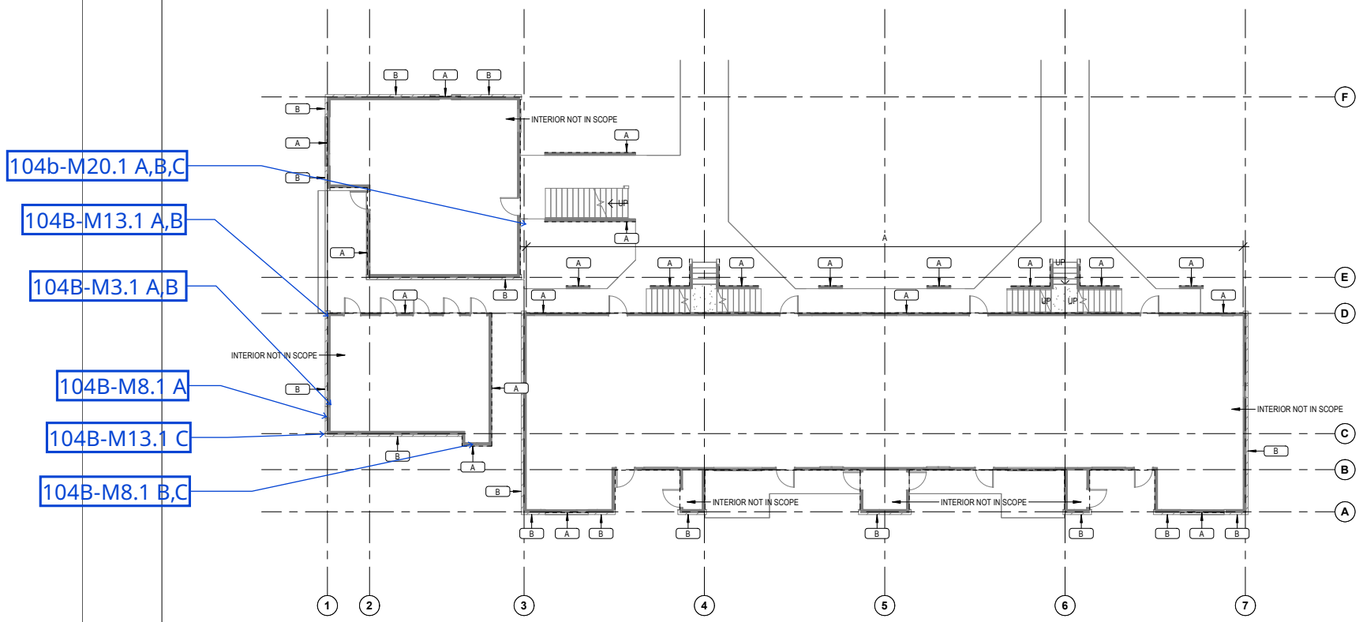
PAISLEY COURT

ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 104A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

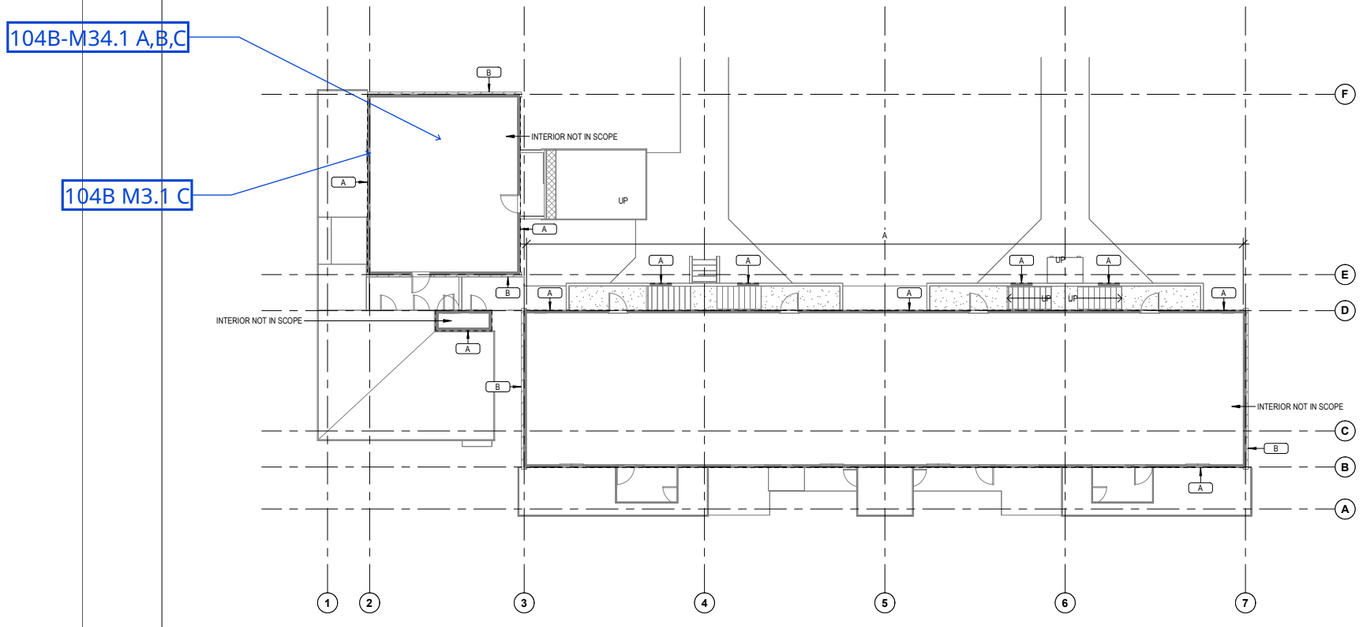
F-07

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN[illegible]SPOUTS TO BE REMOVED AND REI

KEYNO[illegible]

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE[illegible] TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE. A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED: REMOVE FLOORING DOWN TO TOP OF CO[illegible] TRANSITION STRIPS. [illegible] PREPARE REMAINING SURFACES TO RECEIVE NEW FLOOR

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

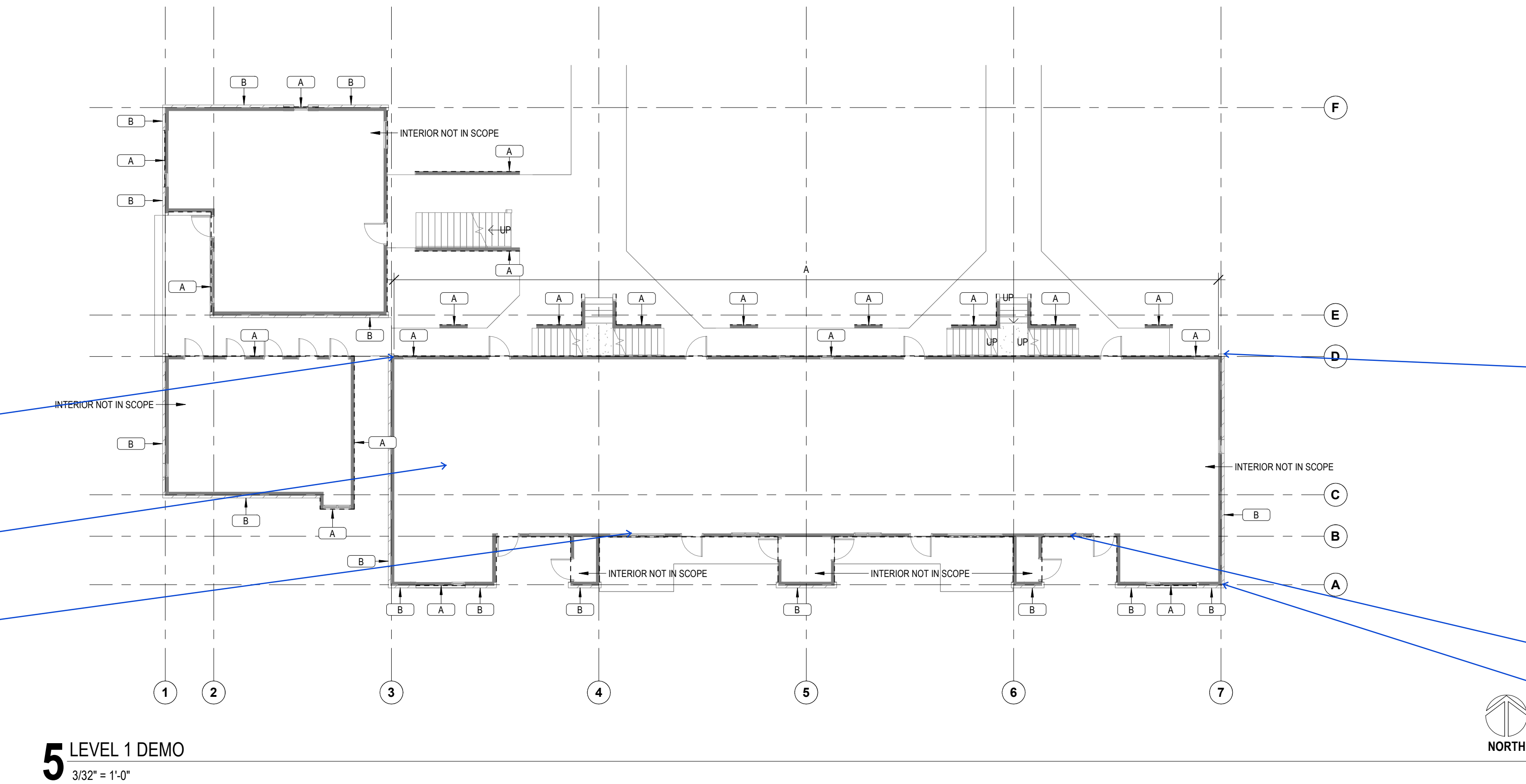
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 104B
BOZEMAN, MONTANA

Project No.: 117-01088-250

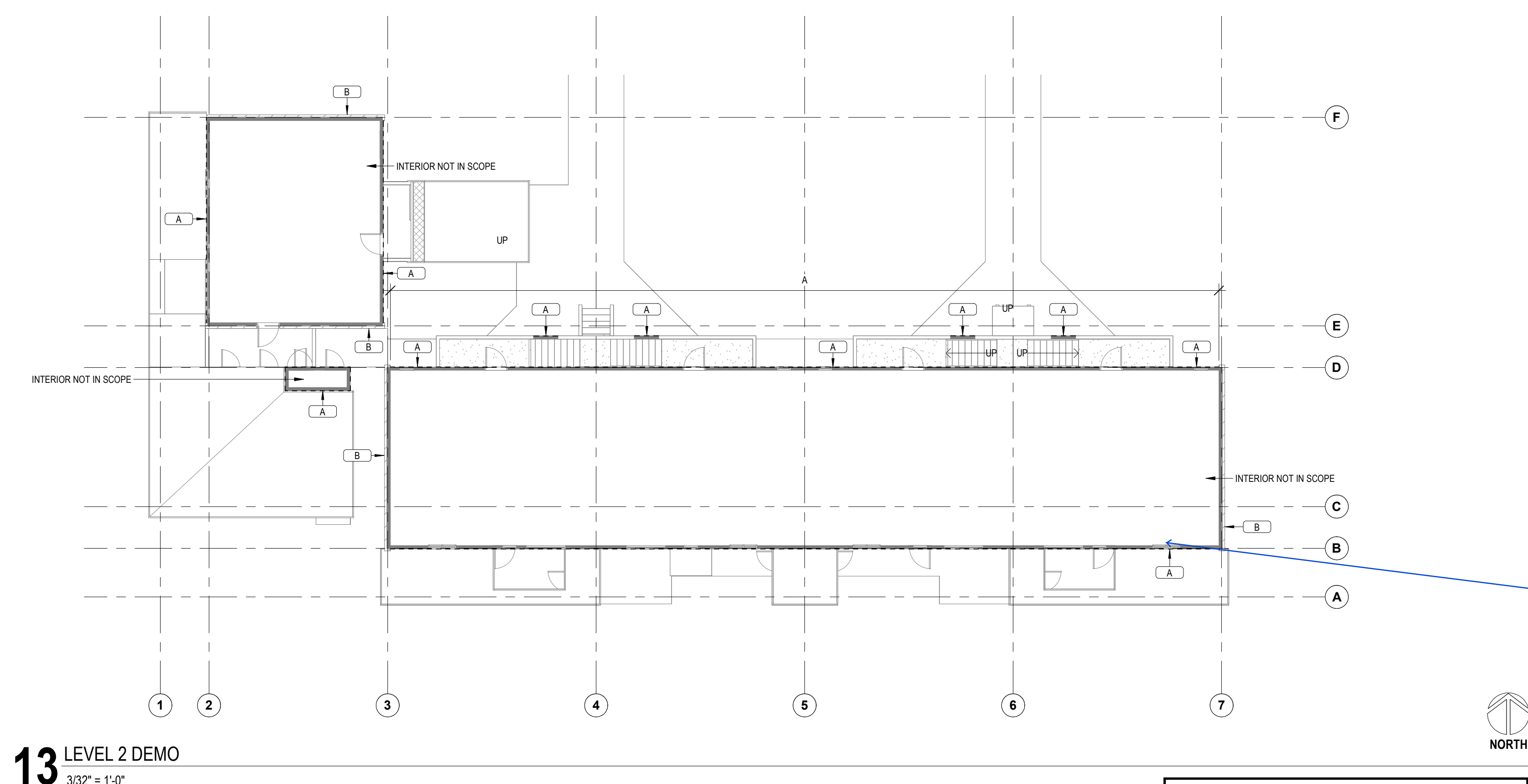
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-08

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AND DOWNSPOUTS TO BE REMOVED AND RE...

KEYNOTES

- A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...
- B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR...
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com

7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 105A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-09

Not To Scale

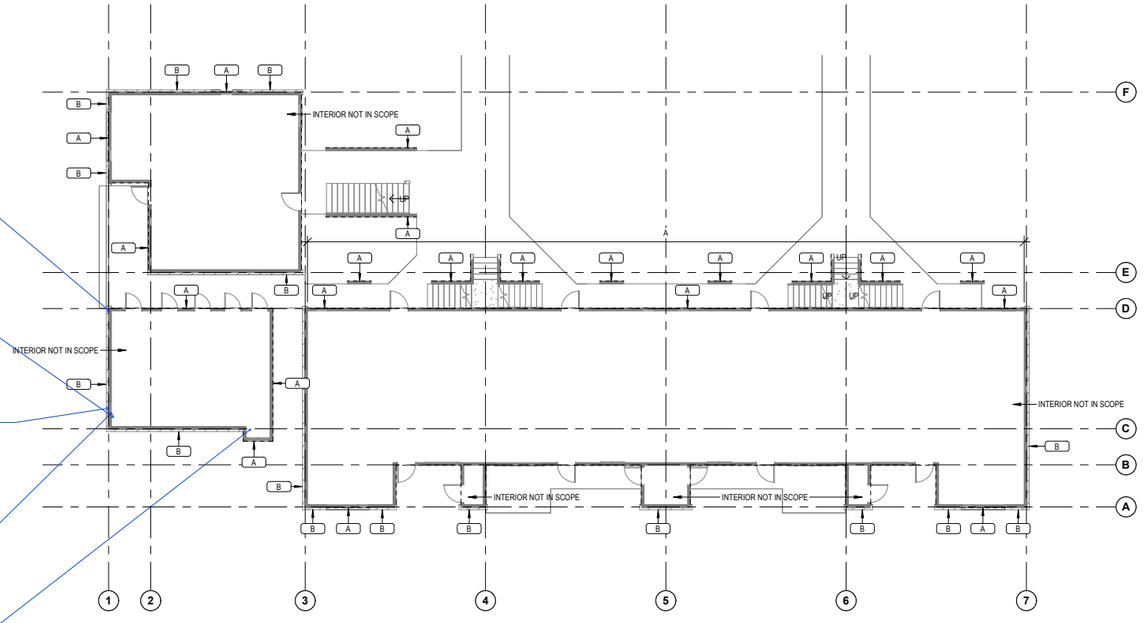
105B-M13.1 BC

105B-M3.1 A,B,C,

105B-M8.1 A,B

105B-M13.1A

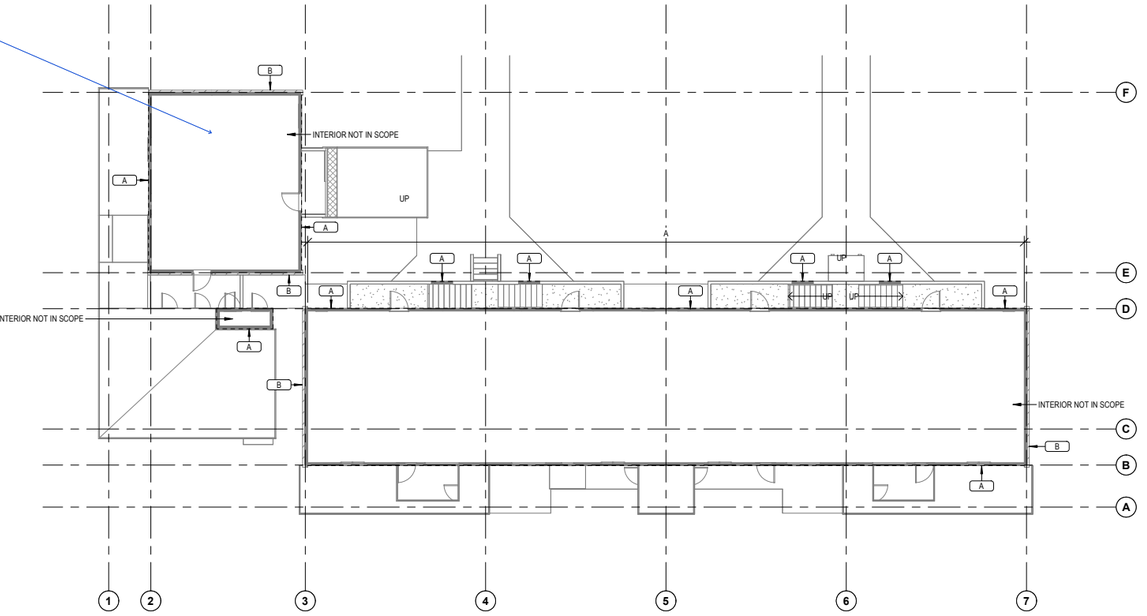
105B-M8.1 C



5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH

105B-M34.1 A,B,C



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING "B/C" ARE MIRRORED
2. GUTTERS AN[illegible]SPOUTS TO BE REMOVED AND REI

KEYNO[illegible]

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE[illegible] TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOMI CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE. A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNERS REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE. CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED: REMOVE FLOORING DOWN TO TOP OF CO[illegible] TRANSITION STRIPS. [illegible] PREPARE REMAINING SURFACES TO RECEIVE NEW FINISH

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

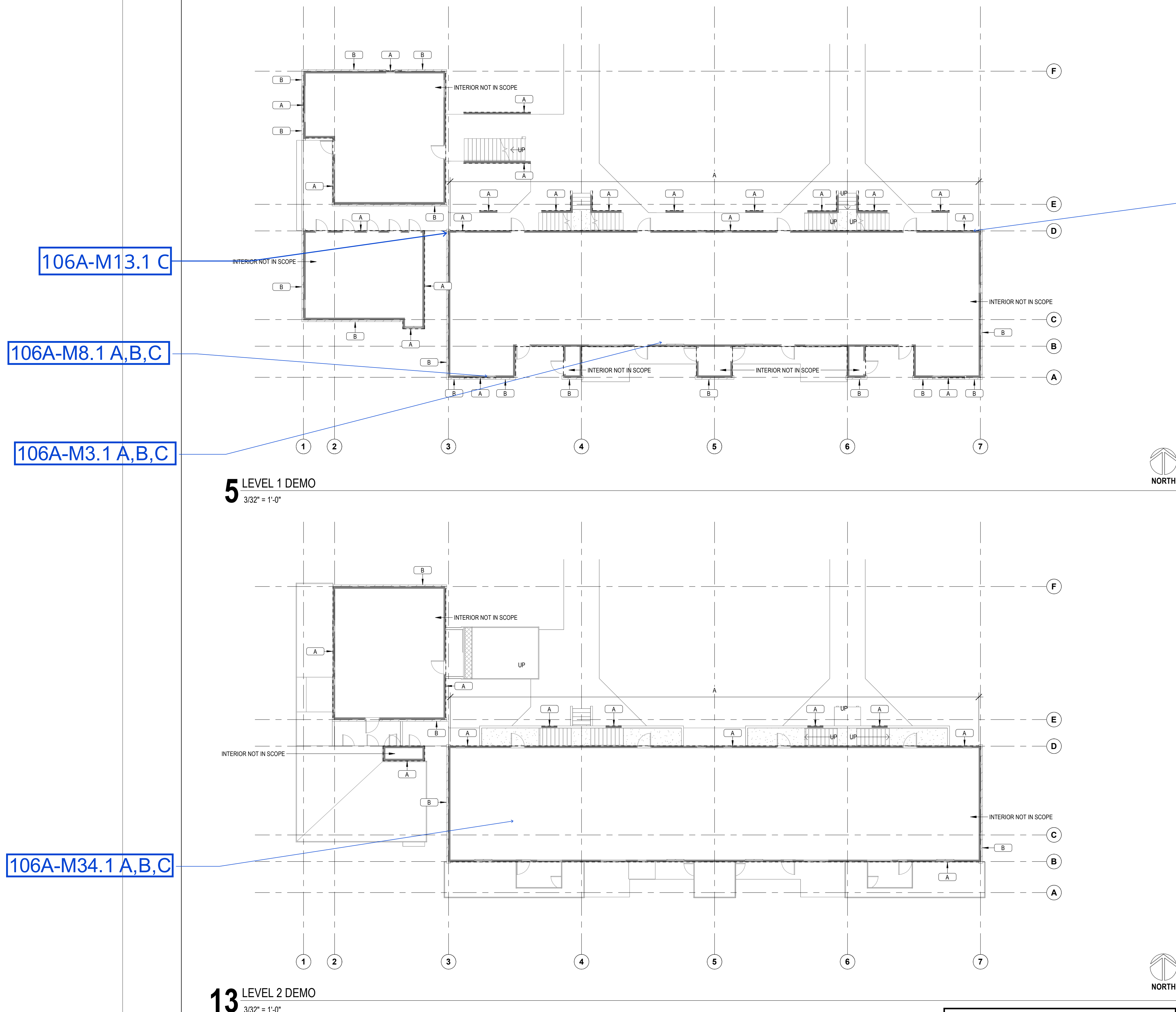
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 105B
BOZEMAN, MONTANA

Project No. 117-01088-250

Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-10

Not To Scale



LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

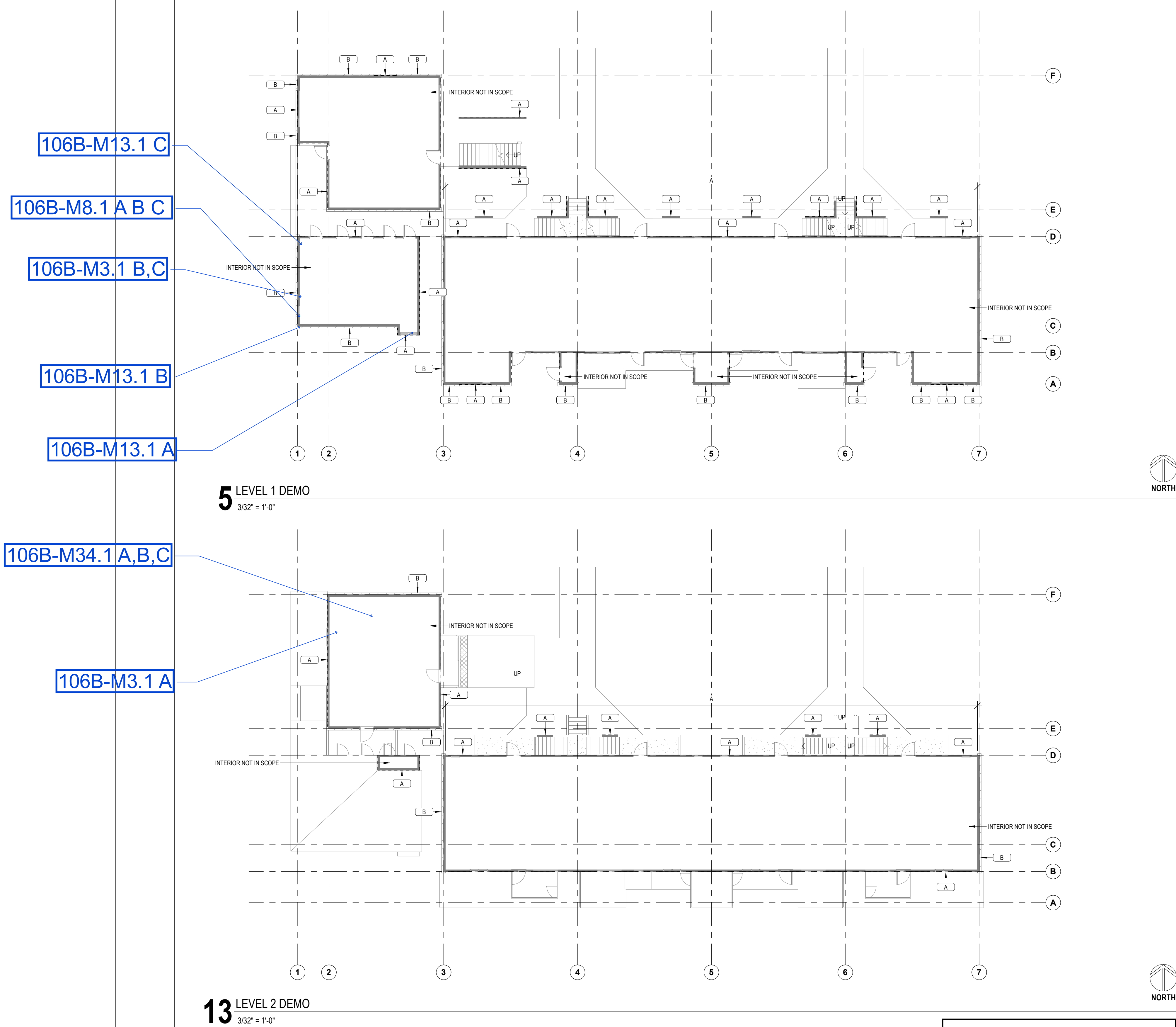
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 106A
BOZEMAN, MONTANA

Project No.: 117-01068-250
Designed By: N/A
Drawn By: N/A
Checked By: PB

F-11

Not To Scale



LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND ... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, T..., U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH

www.tetratech.com

7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

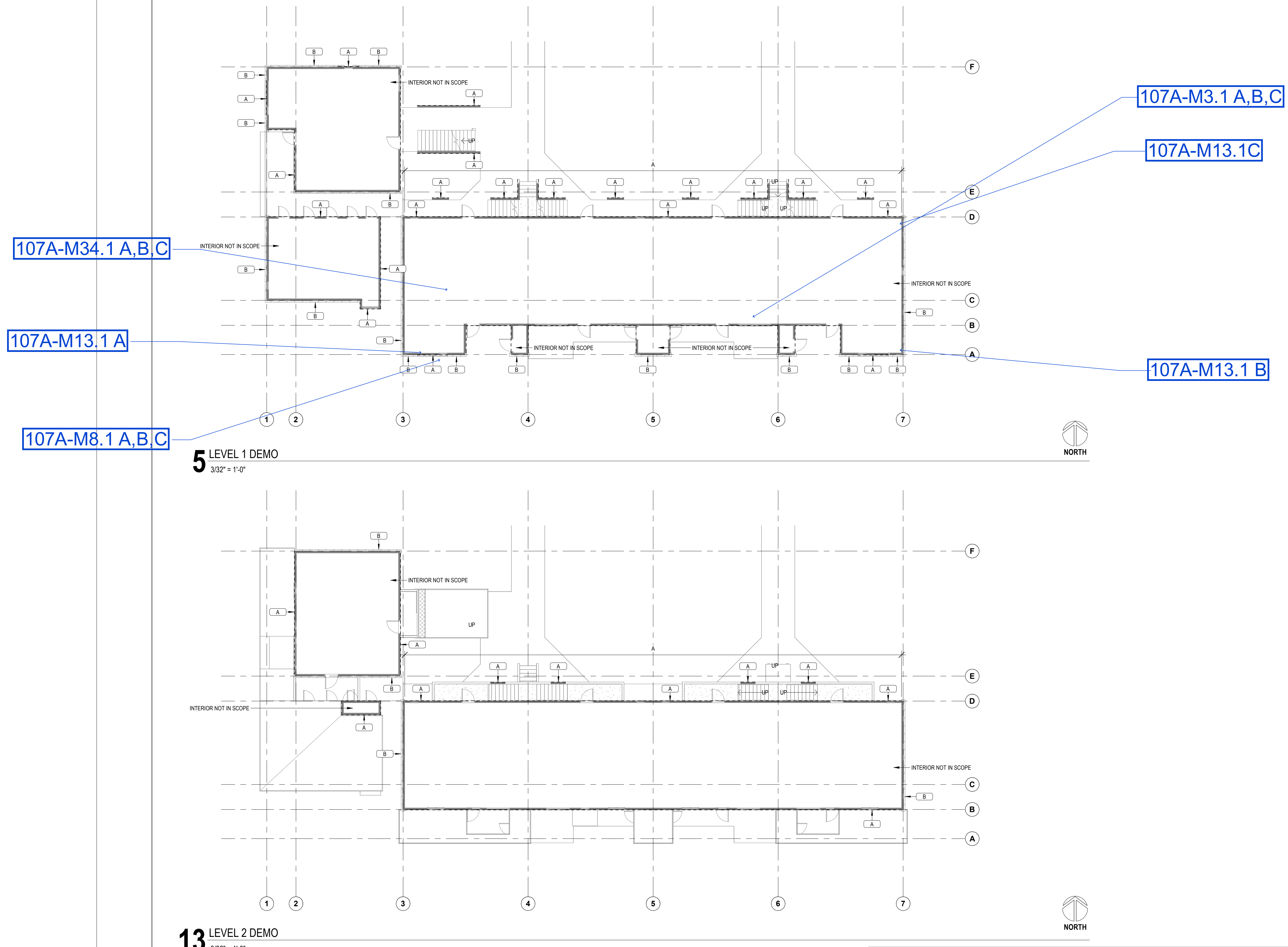
PAISLEY COURT

ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 106B
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-12

Not To Scale



LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A	REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B
B	EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI ... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI ... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC ... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET ... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI ... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOMI ... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN ... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU ... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D ... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E ... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE ... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE ... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN ... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC ... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO ... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A ... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO ... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU ... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN ... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE ANI ... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT ... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE ... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA ... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIF ... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT ... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT ... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI ... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPAR ... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE ... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE ... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE ... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP ... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON ... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND ... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P ... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, TYP., U ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 107A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-13

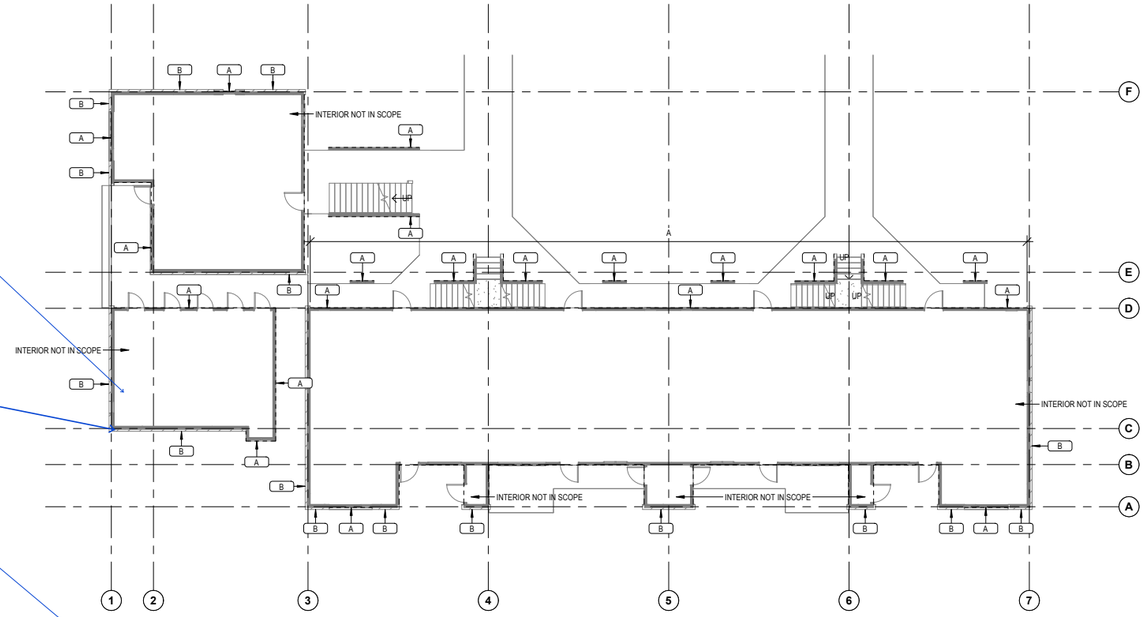
Not To Scale

107B-M3.1A

107A-M13.1 C

107A-M3.1 C

107A-M34.1 A,B,C

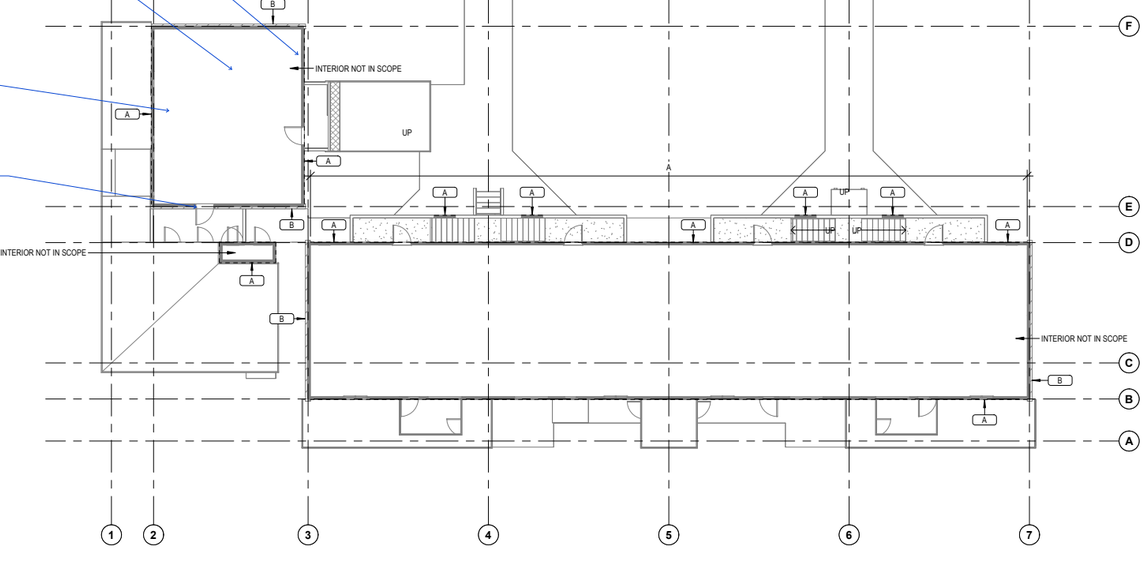


5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH

107B-M3.1 B

107A-M13.1 A,B



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AND DOWNSPOUTS TO BE REMOVED AND REI

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE, TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CO TRANSITIONS AND PREPARE REMAINING SURFACES TO RECEIVE NEW FINISH

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

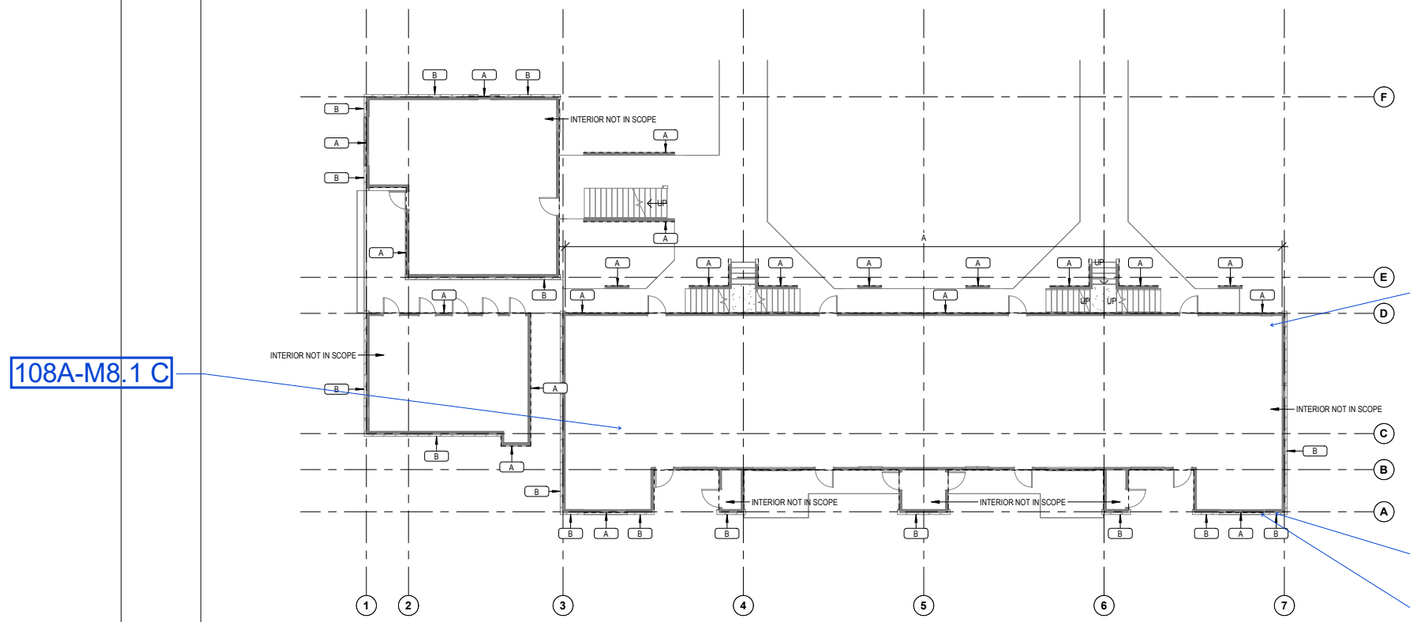
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 107B
BOZEMAN, MONTANA

Project No.: 117-21068-250

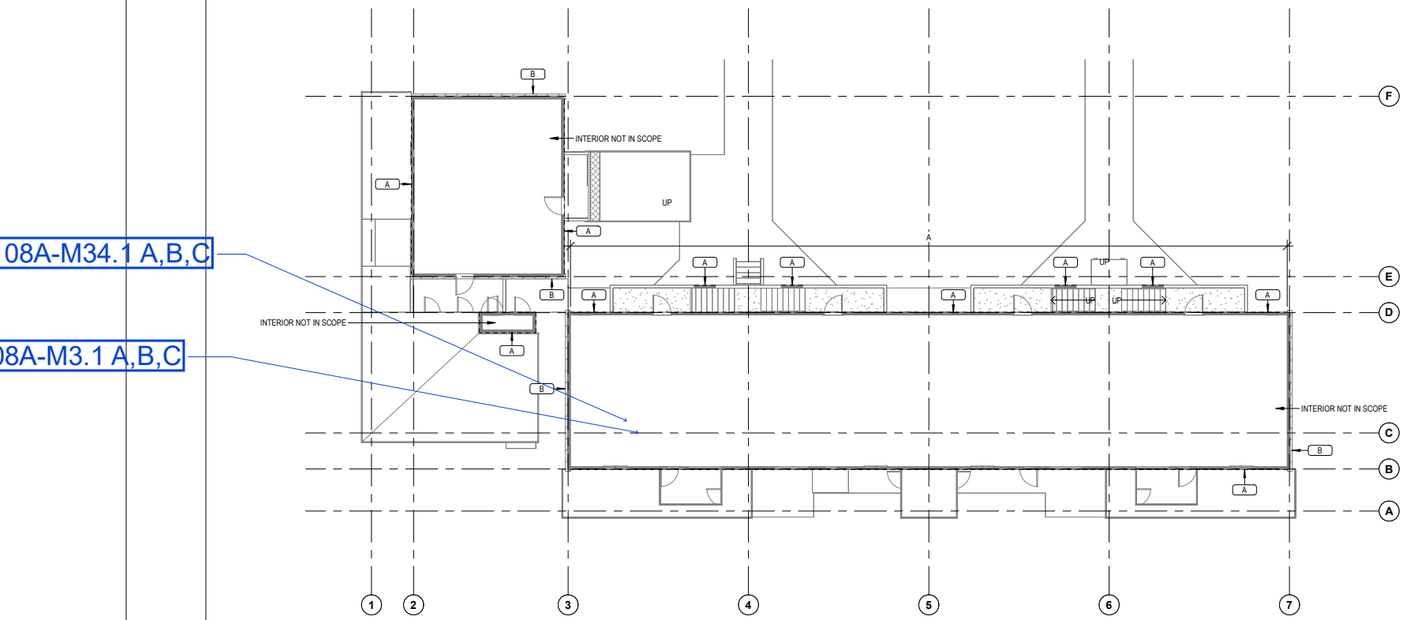
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-14

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

108A-M8.1 C

108A-M13.1 A,B

108A-M13.1 C

108A-M8.1 A,B

108A-M34.1 A,B,C

108A-M3.1 A,B,C

NORTH

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AN[illegible]SPOUTS TO BE REMOVED AND REI

KEYNO[illegible]

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE[illegible] TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE. A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED: REMOVE FLOORING DOWN TO TOP OF CO[illegible] TRANSITIONS. [illegible] PREPARE REMAINING SURFACES TO RECEIVE NEW FLOOR

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 108A
BOZEMAN, MONTANA

Project No.: 117-01088-250

Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-15

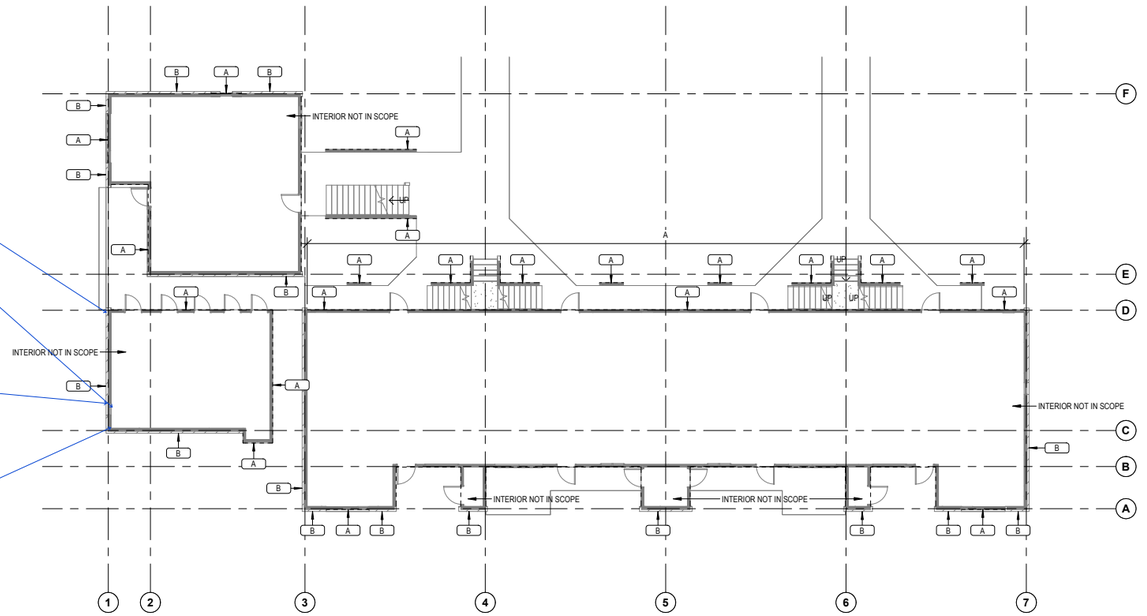
Not To Scale

103B-M13.1C

108B-M3.1 B,C

108B-M8.1 A,B,C

103B-M13.1 A,B

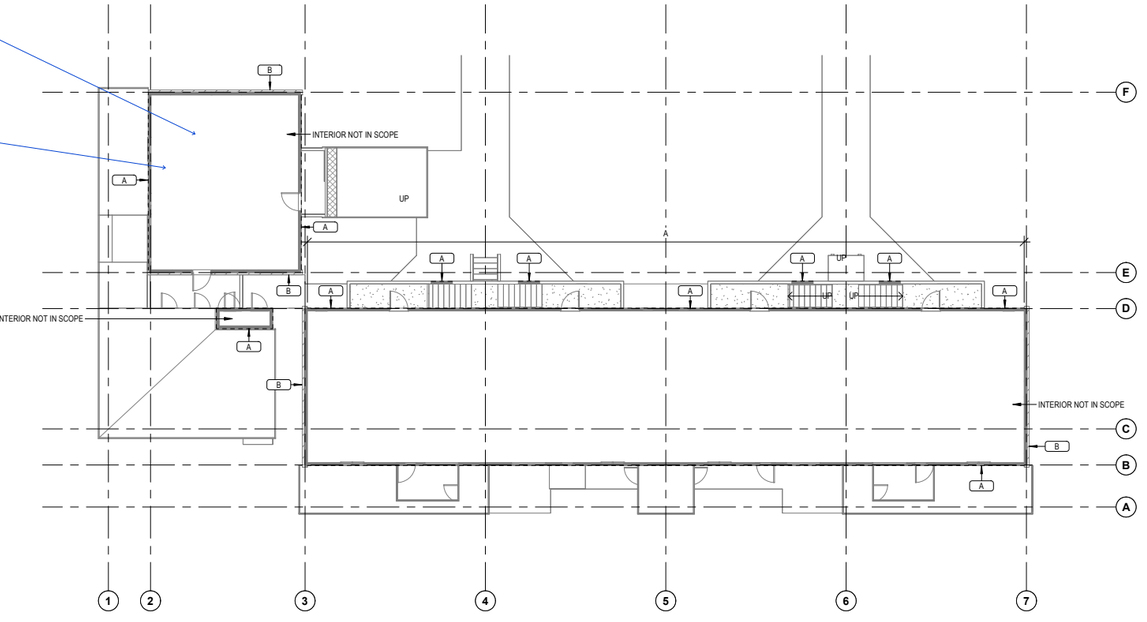


5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH

108B-M34.1 A,B,C

108B-M3.1A



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AN[illegible]SPOUTS TO BE REMOVED AND REI

KEYNO[illegible]

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE[illegible]
TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTEC IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED: REMOVE FLOORING DOWN TO TOP OF CO[illegible] TRANSITIONS. [illegible] PREPARE REMAINING SURFACES TO RECEIVE NEW FLOOR

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

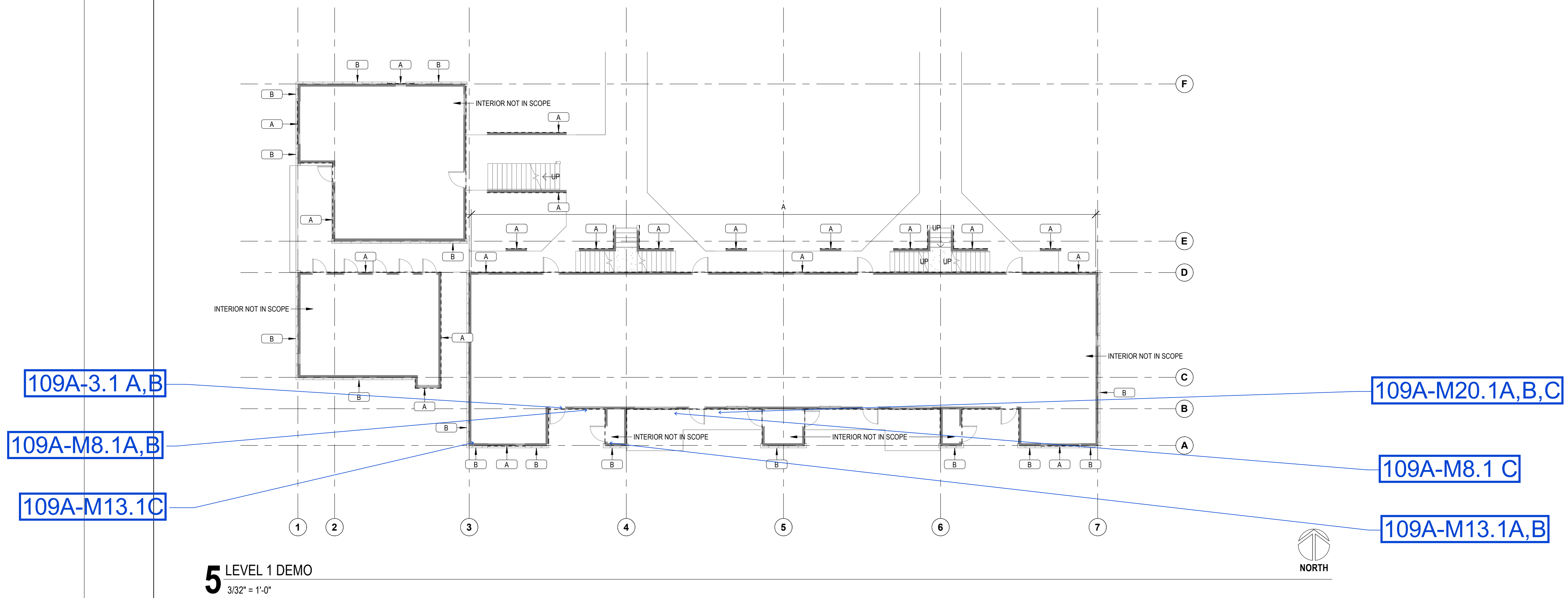
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 108B
BOZEMAN, MONTANA

Project No.: 117-01088-250

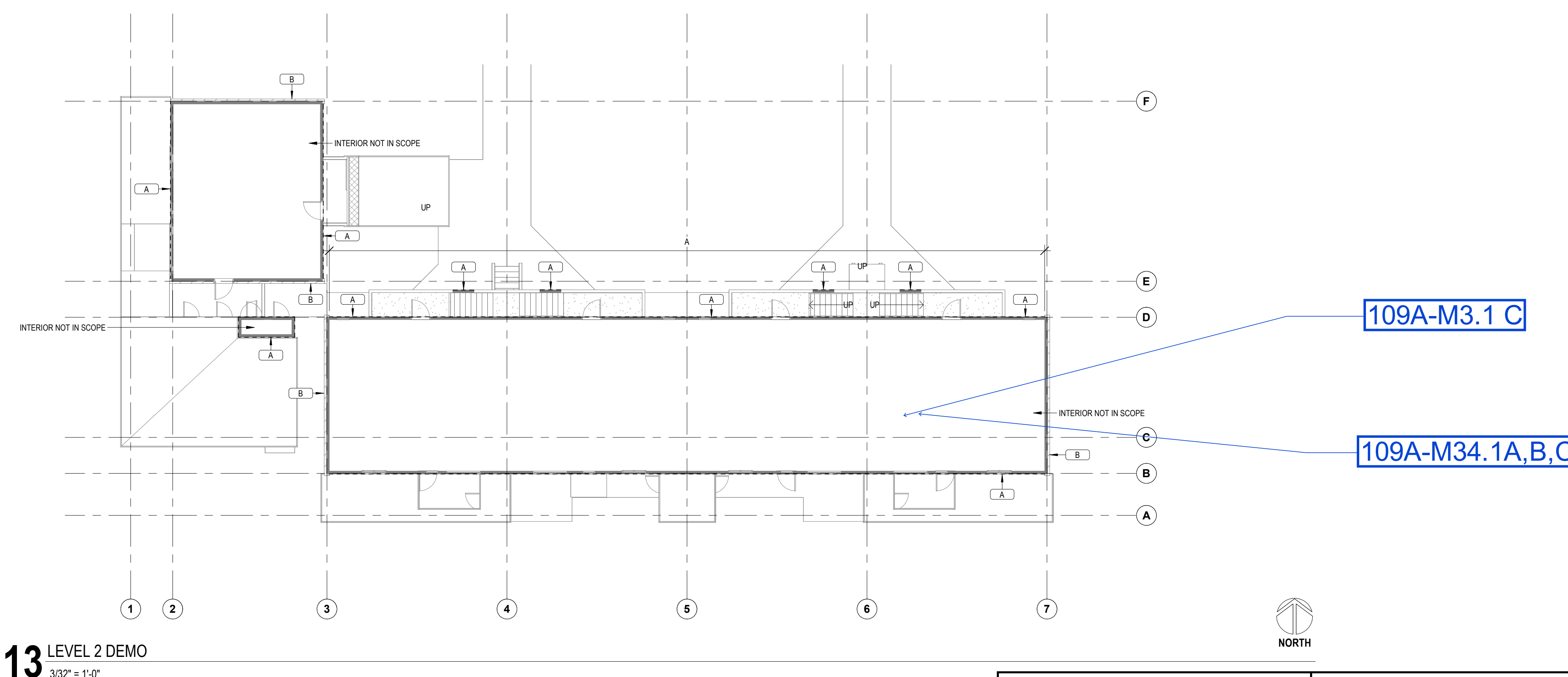
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-16

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNO

- A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B
- B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

- HATCH INDICATES AREA NOT IN SCOPE OF WOR
- INDICATES BUILT ITEM TO BE REMOVED
- INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF T REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE C PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPAR DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS N
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLA TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, T... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 109A
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-17

Not To Scale

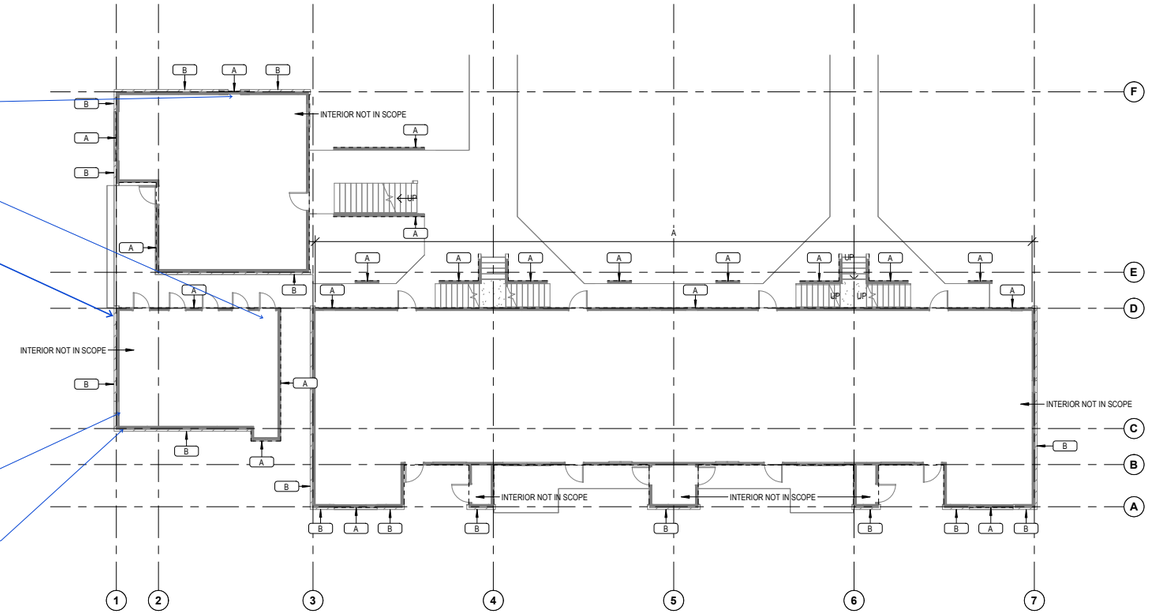
109B-M20.1 A,B,C

109B-M3.1 C

109B-M13.1 A

109B-M3.1 A,B

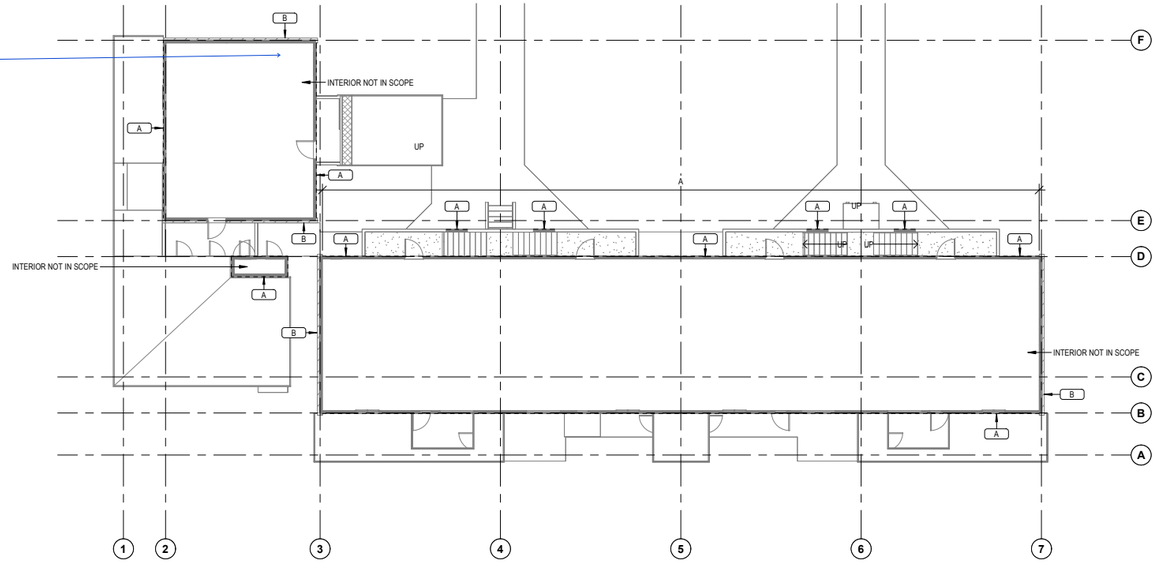
109B-M20.1 B,C



5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH

109B-M34.1 A,B,C



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

GENERAL NOTES

1. 101 BUILDING [illegible] 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AND [illegible]SPOUTS TO BE REMOVED AND REI

KEYNO

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE, TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CO TRANSITIONS AND PREPARE REMAINING SURFACES TO RECEIVE NEW FINISH

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

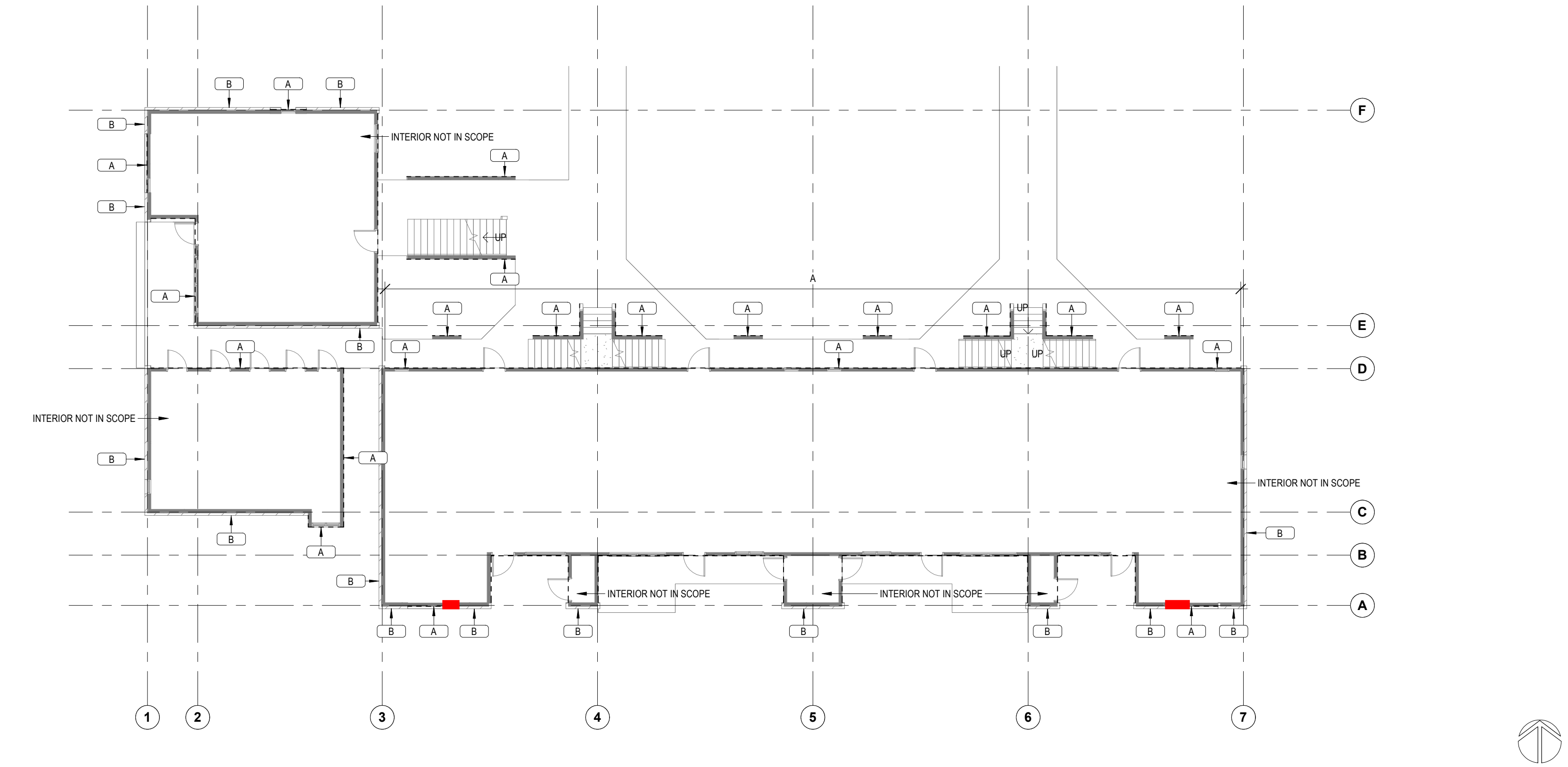
PAISLEY COURT
ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 109B
BOZEMAN, MONTANA

Project No.: 117-21068-250

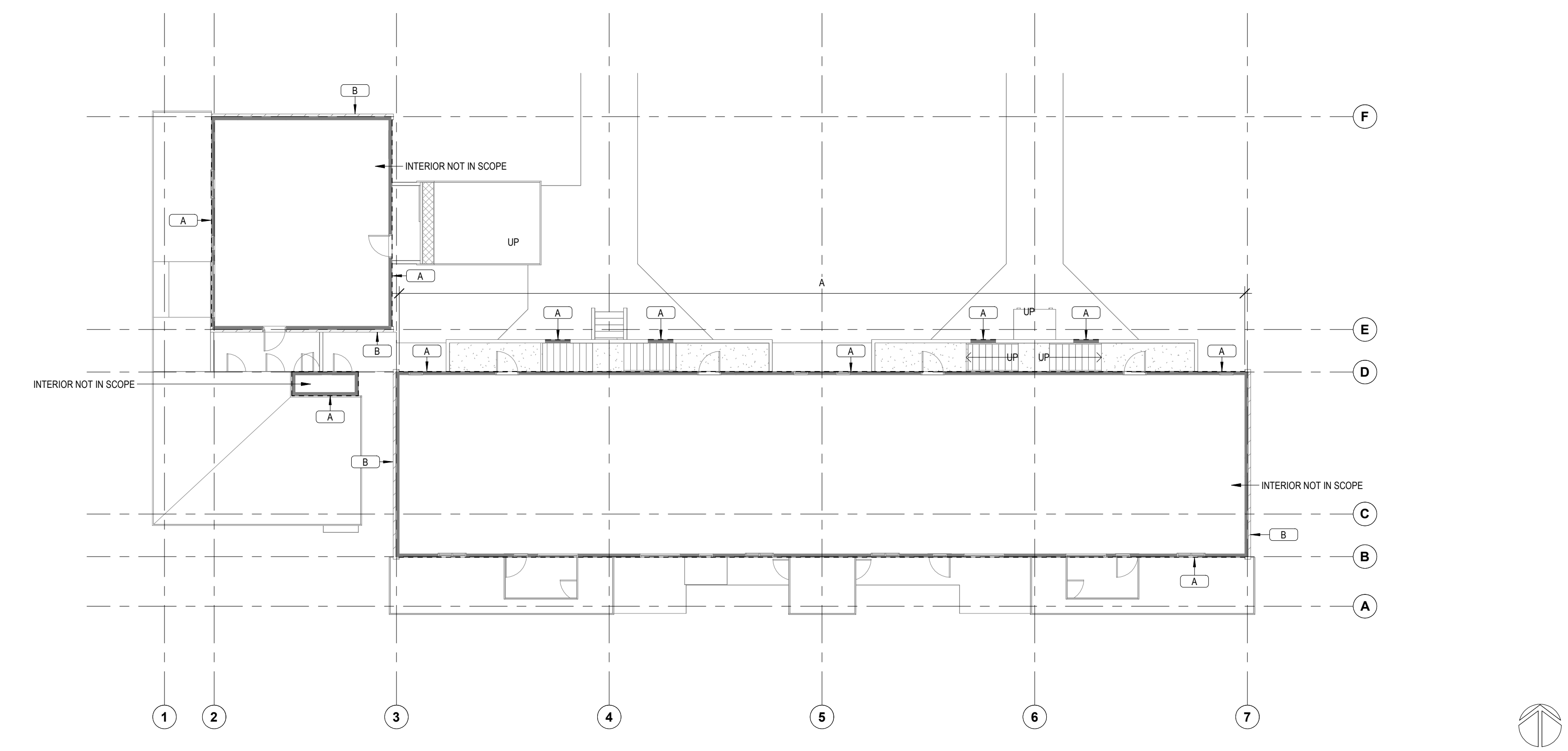
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-18

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

101A-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNO

A REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE
TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR
INDICATES BUILT ITEM TO BE REMOVED
INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CC PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, TYP., U PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

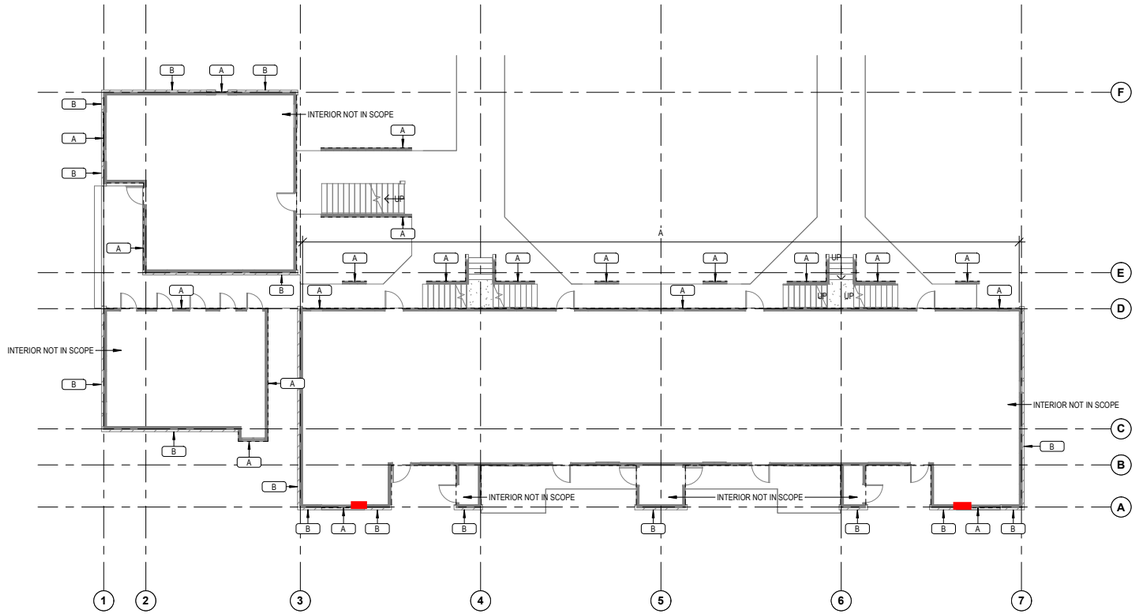
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 101A
BOZEMAN, MONTANA

Project No.:	117-01068-250 5
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

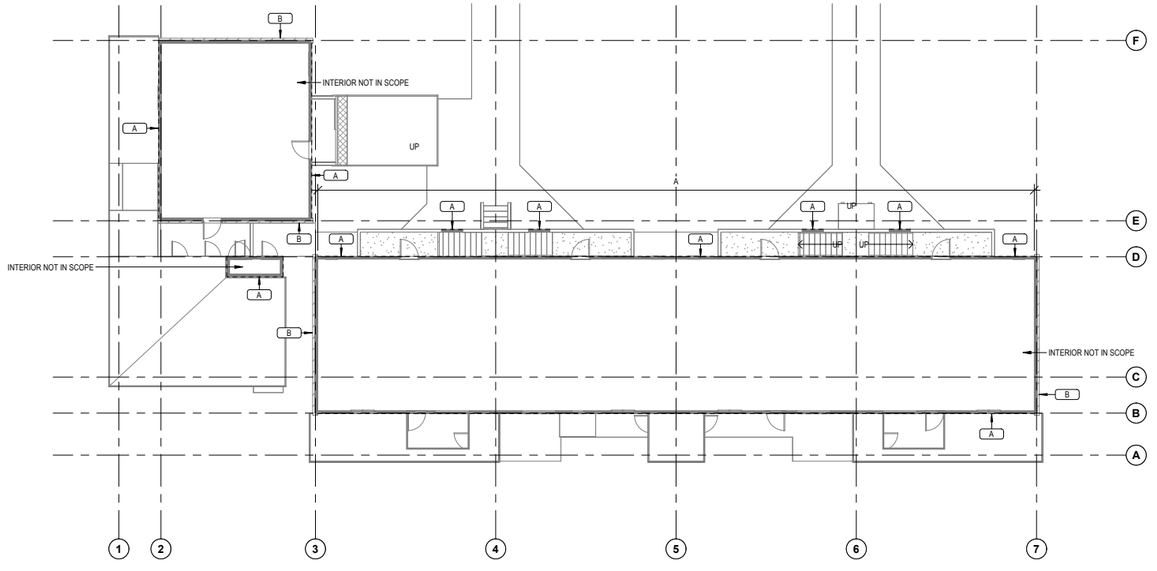
F-19

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"

NORTH



13 LEVEL 2 DEMO
3/32" = 1'-0"

NORTH

LEGEND

102A-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING AND 102 BUILDING B/C ARE MIRRORED
2. GUTTERS AND DOWNSPOUTS TO BE REMOVED AND REI

KEYNO

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE
TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TI REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOMI CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR U ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION. L ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE ANI CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES. REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED REMOVE FLOORING DOWN TO TOP OF CO TRAN PREP AND REMAINING SURFACES TO RECEIVE NEW FINISH

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

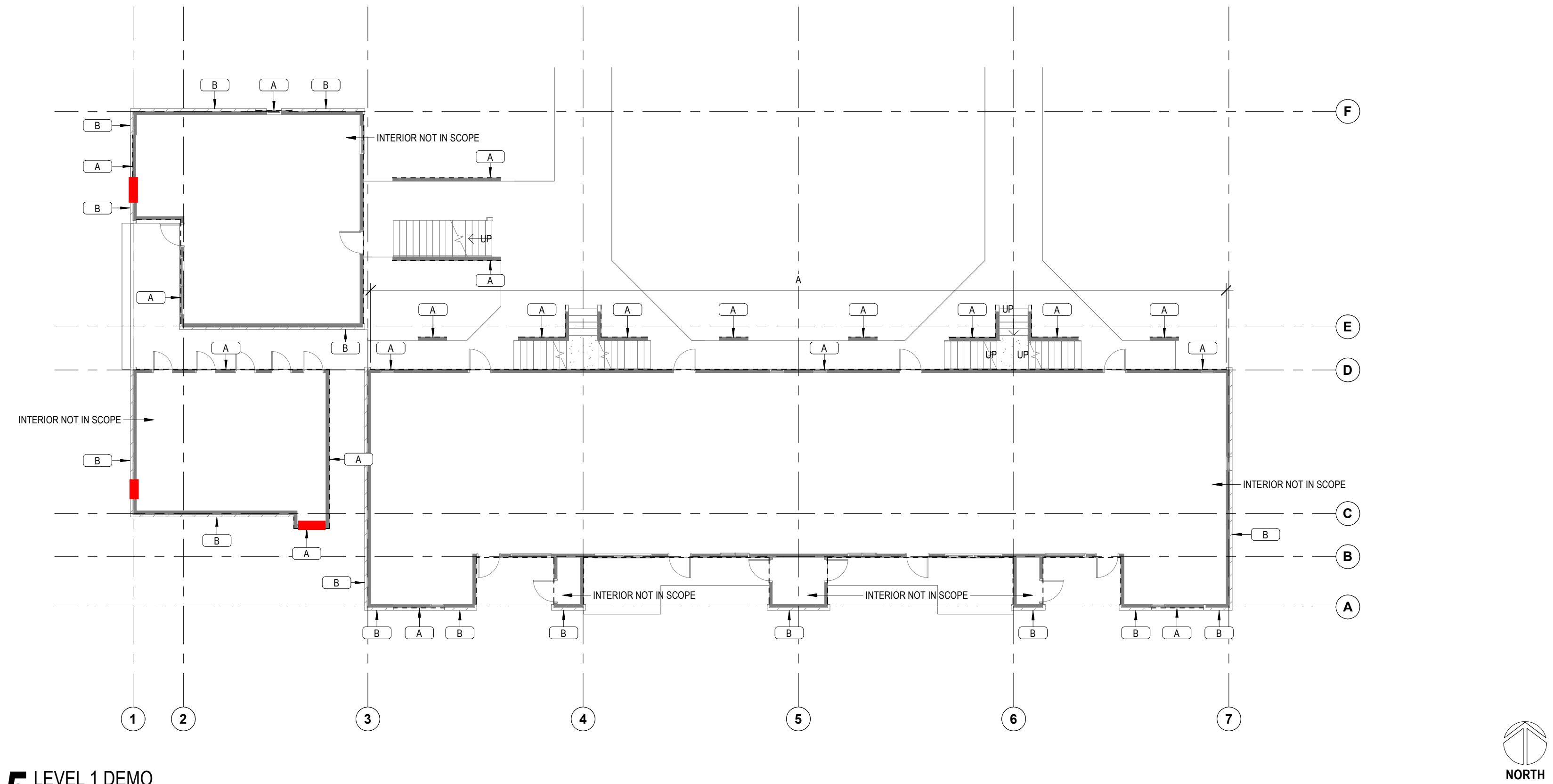
PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 102A
BOZEMAN, MONTANA

Project No.: 117-01068-250

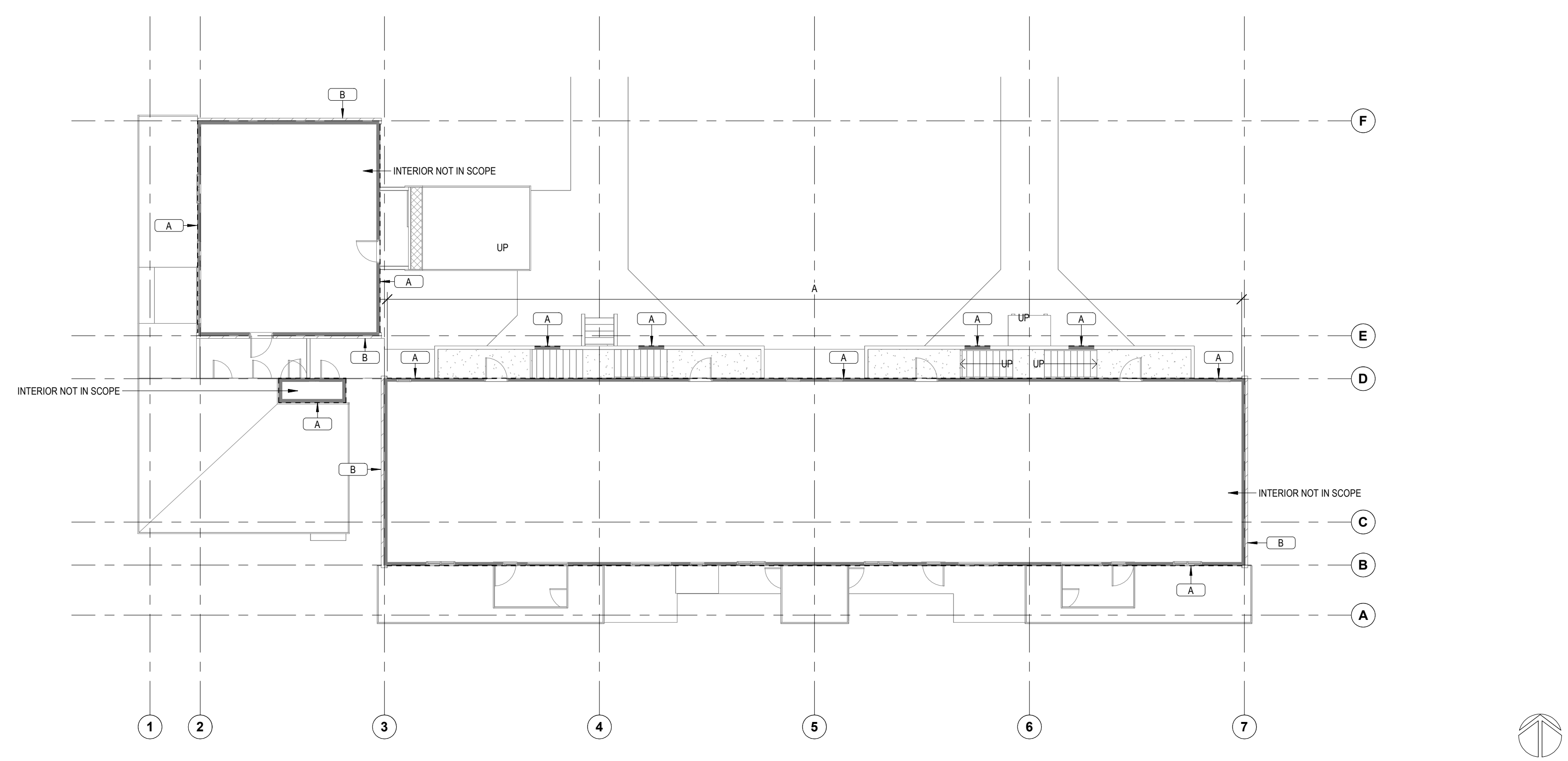
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-20

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

102B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEI OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGEI SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOMI CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR I ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE ANI CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIF NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOI
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTUI RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE I DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RI EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NC
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAE TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, T... U PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

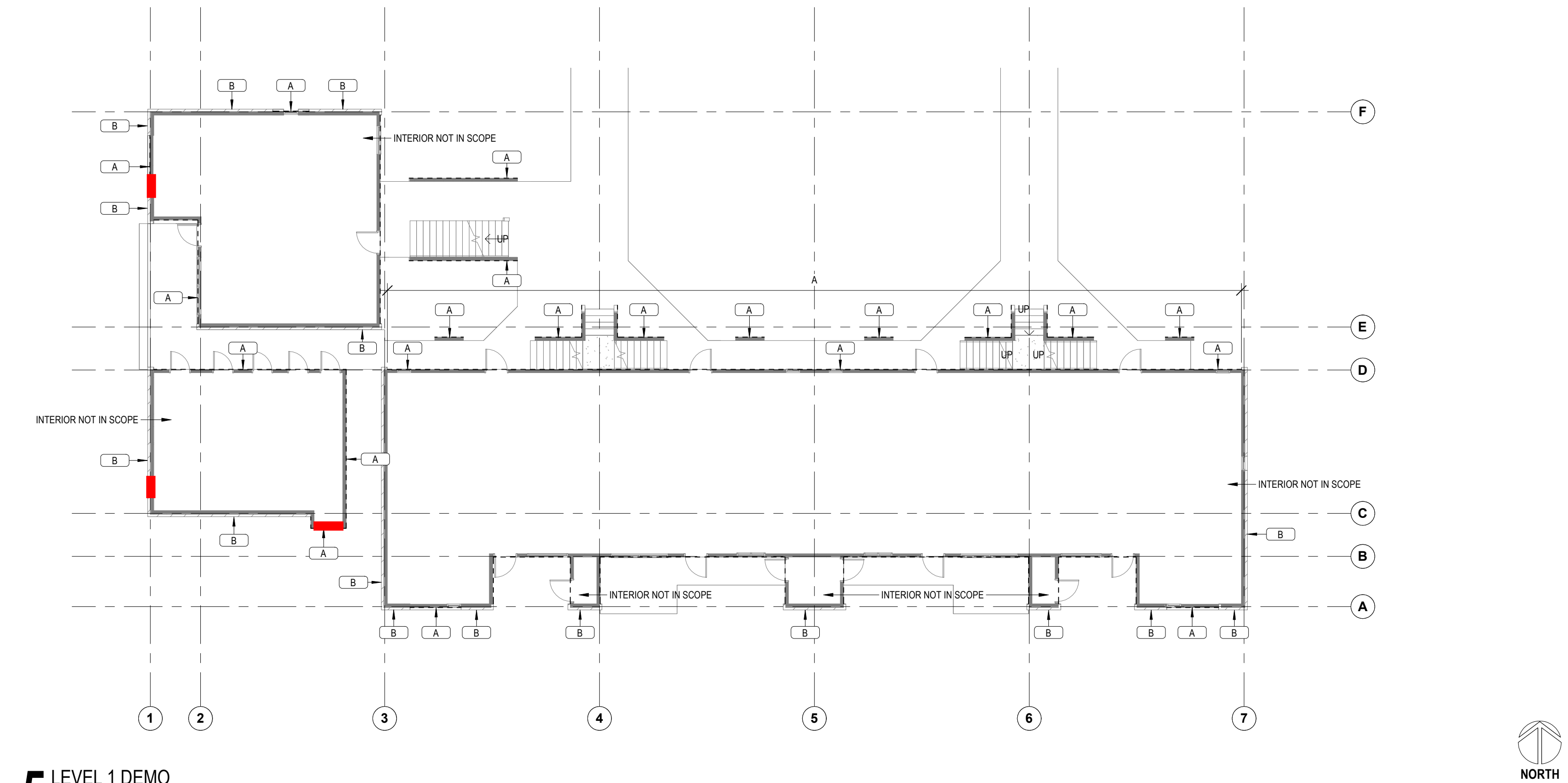
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 102B
BOZEMAN, MONTANA

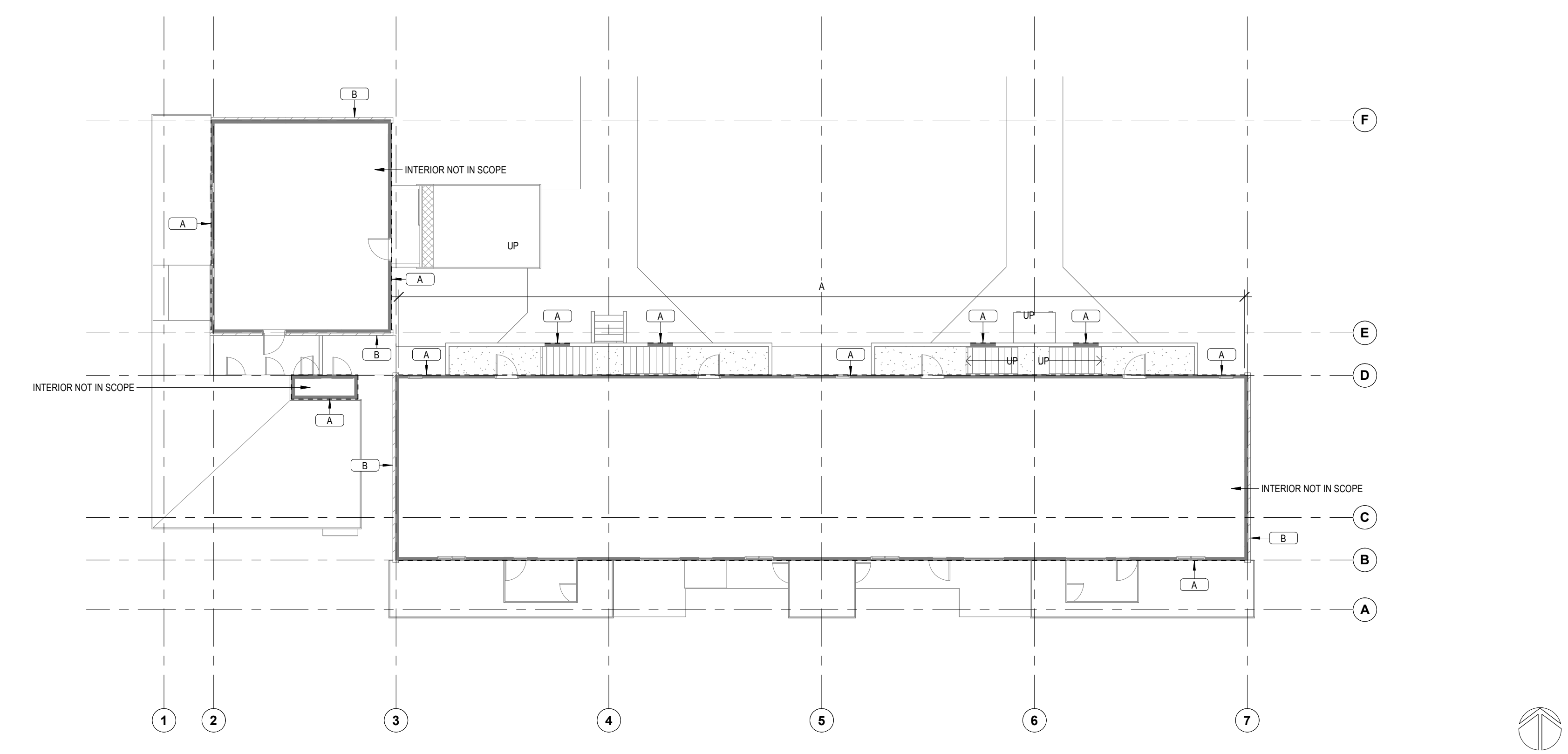
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-21

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

104B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOME... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND ... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

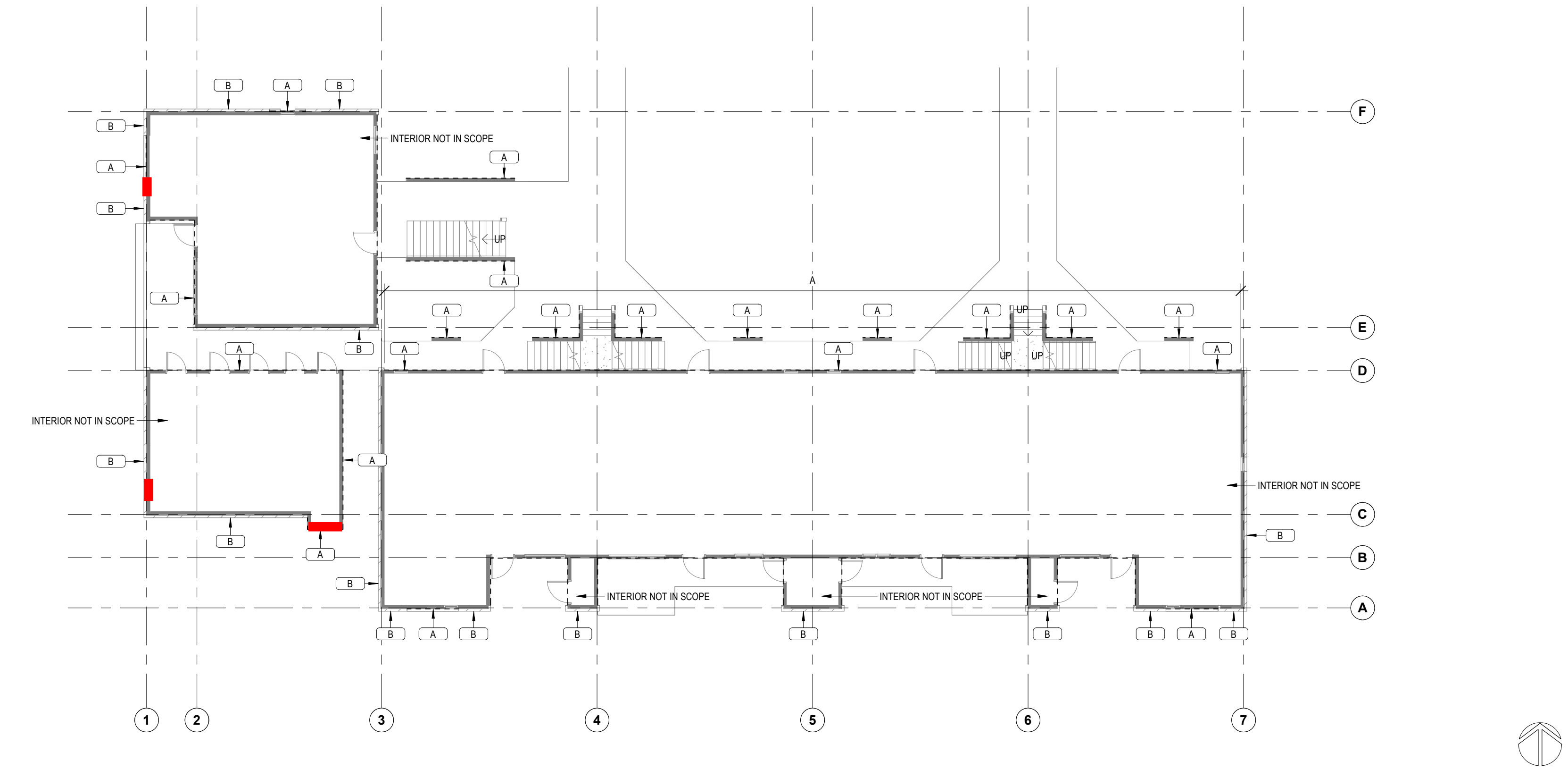
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 104B
BOZEMAN, MONTANA

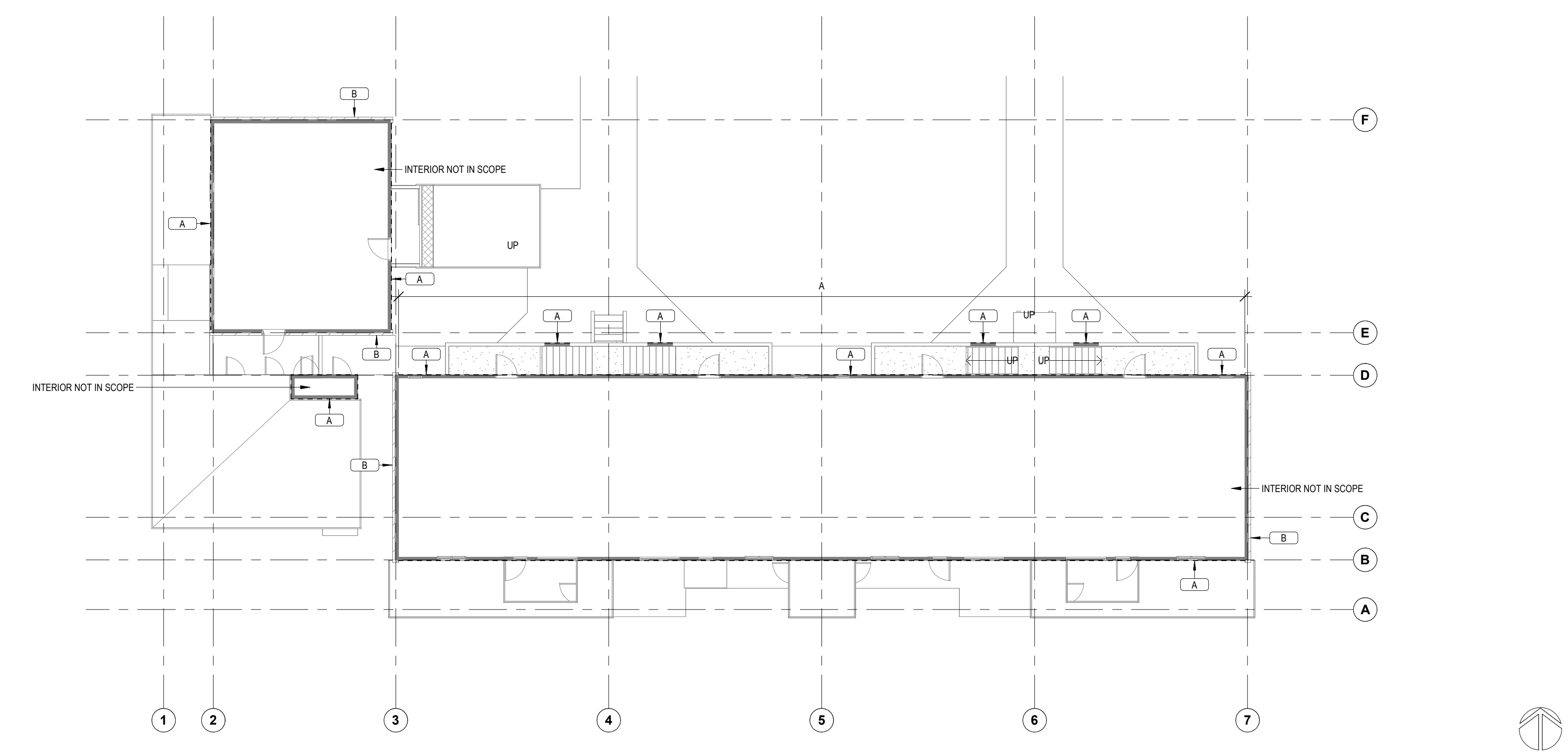
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-22

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

105B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, T... U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com

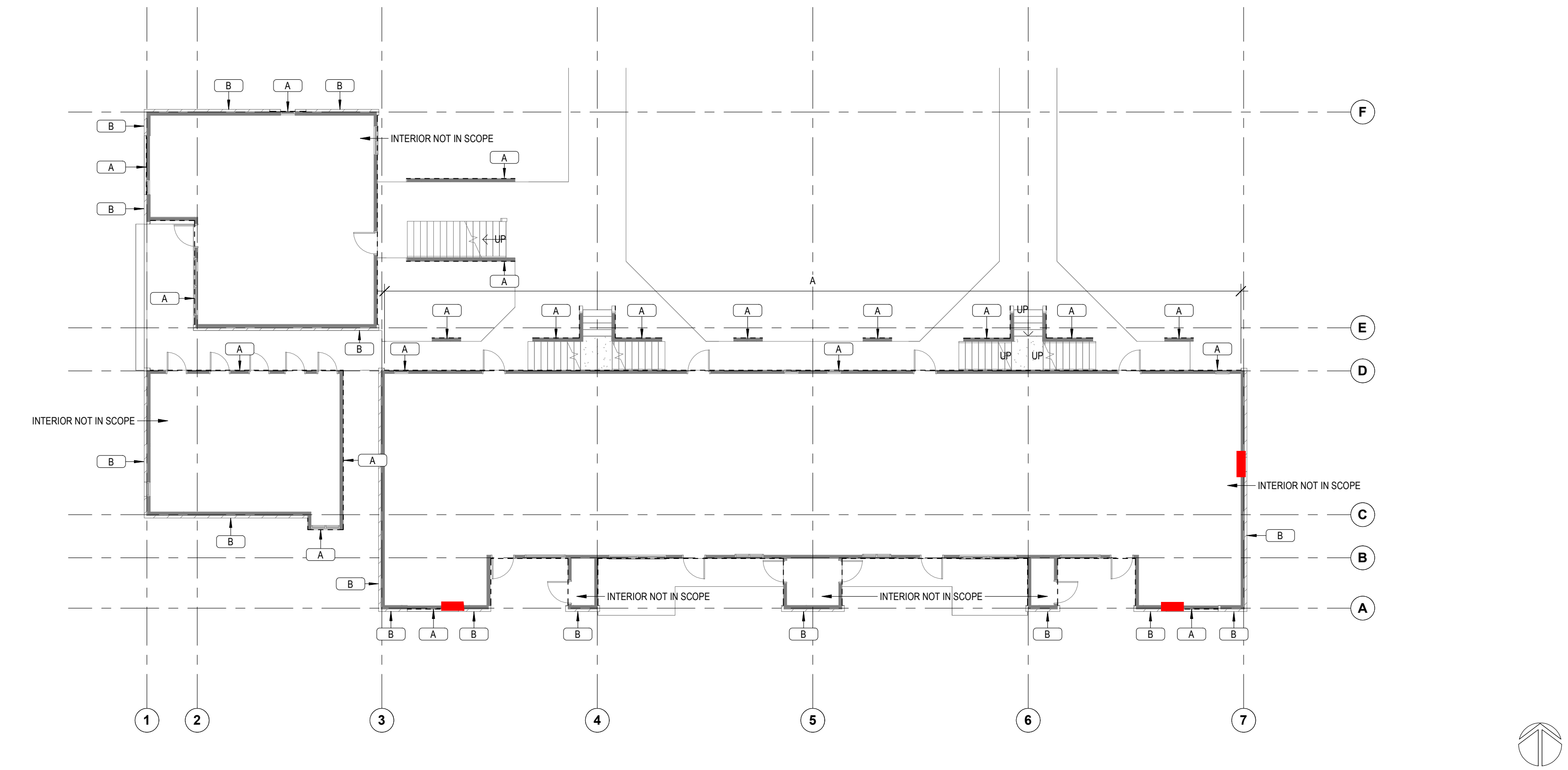
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 105B
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

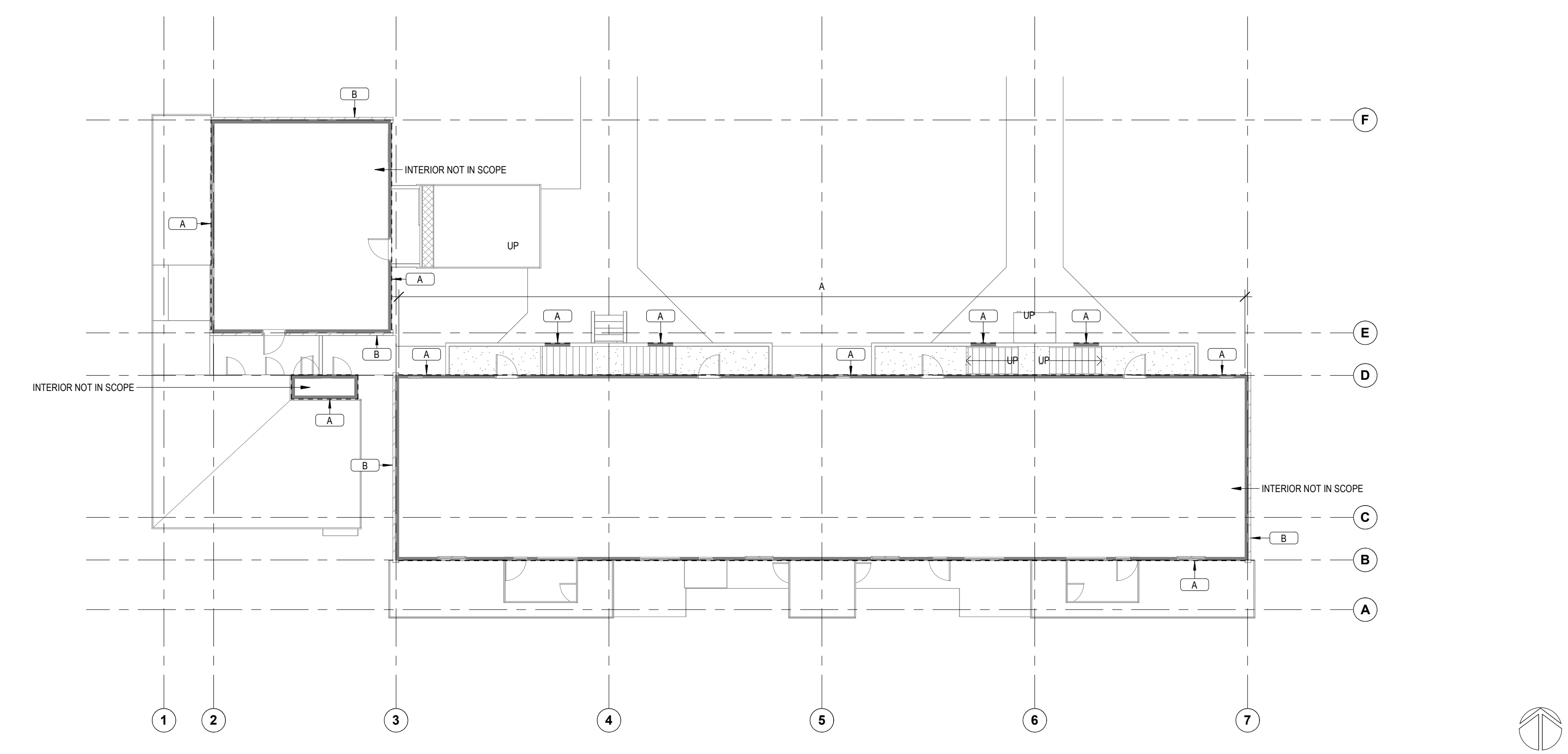
F-23

Not To Scale



5 LEVEL 1 DEMO

3/32" = 1'-0"



13 LEVEL 2 DEMO

3/32" = 1'-0"

LEGEND

106A-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH

www.tetratech.com

7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT

ASBESTOS INSPECTION

ACM LOCATIONS

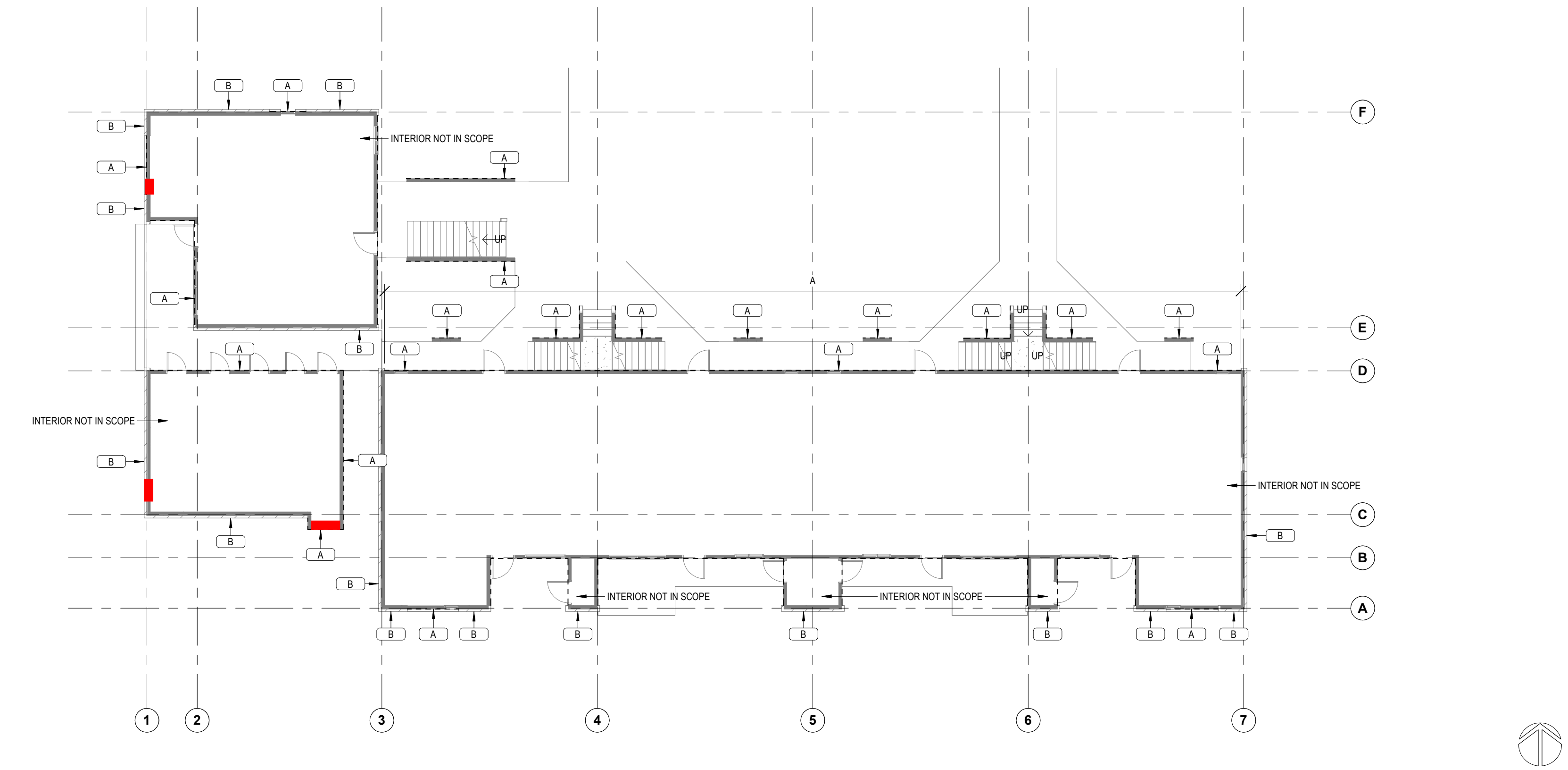
MONTANA STATE UNIVERSITY

BUILDING 106A

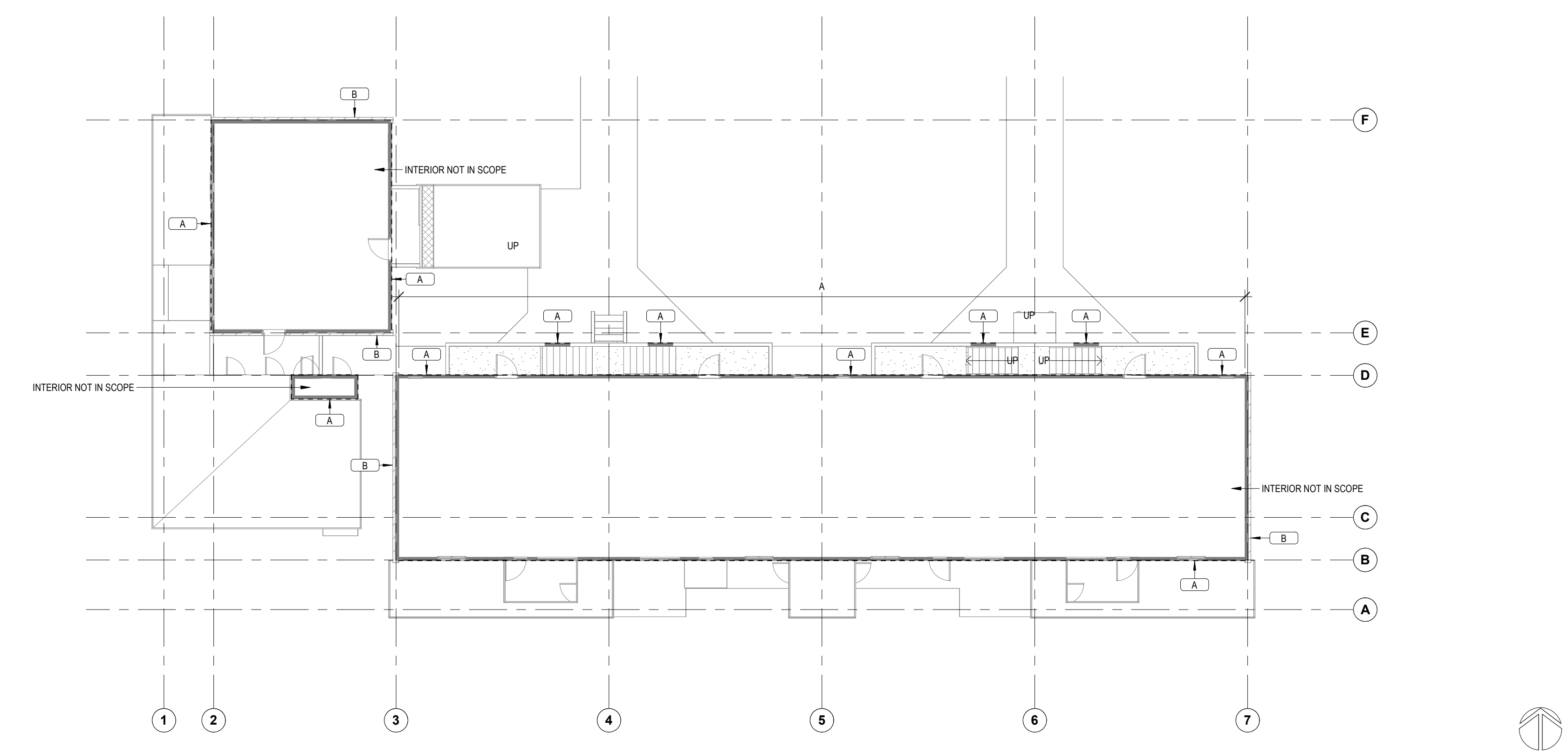
BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB
F-24	

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

106B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

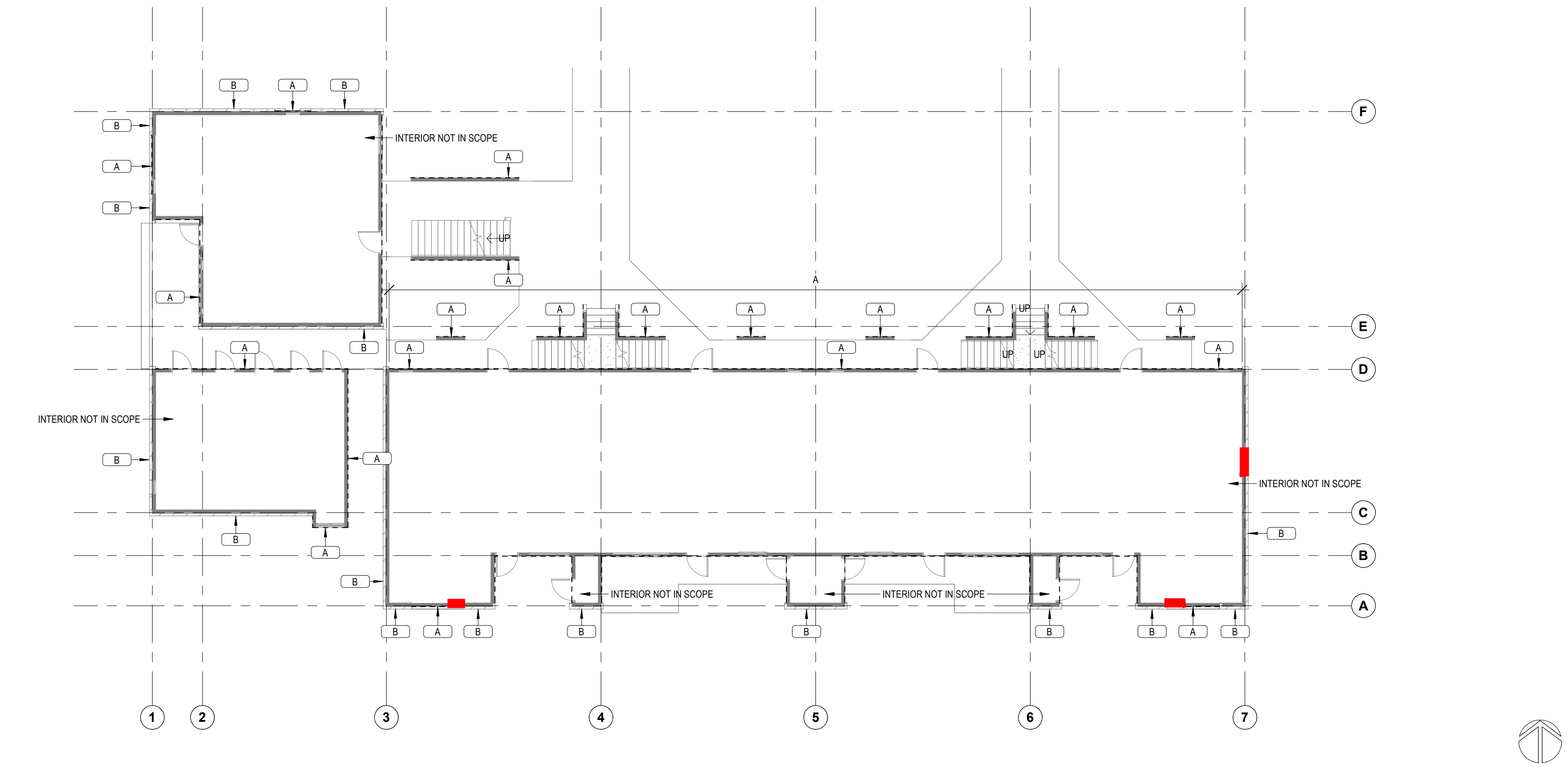
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 106B
BOZEMAN, MONTANA

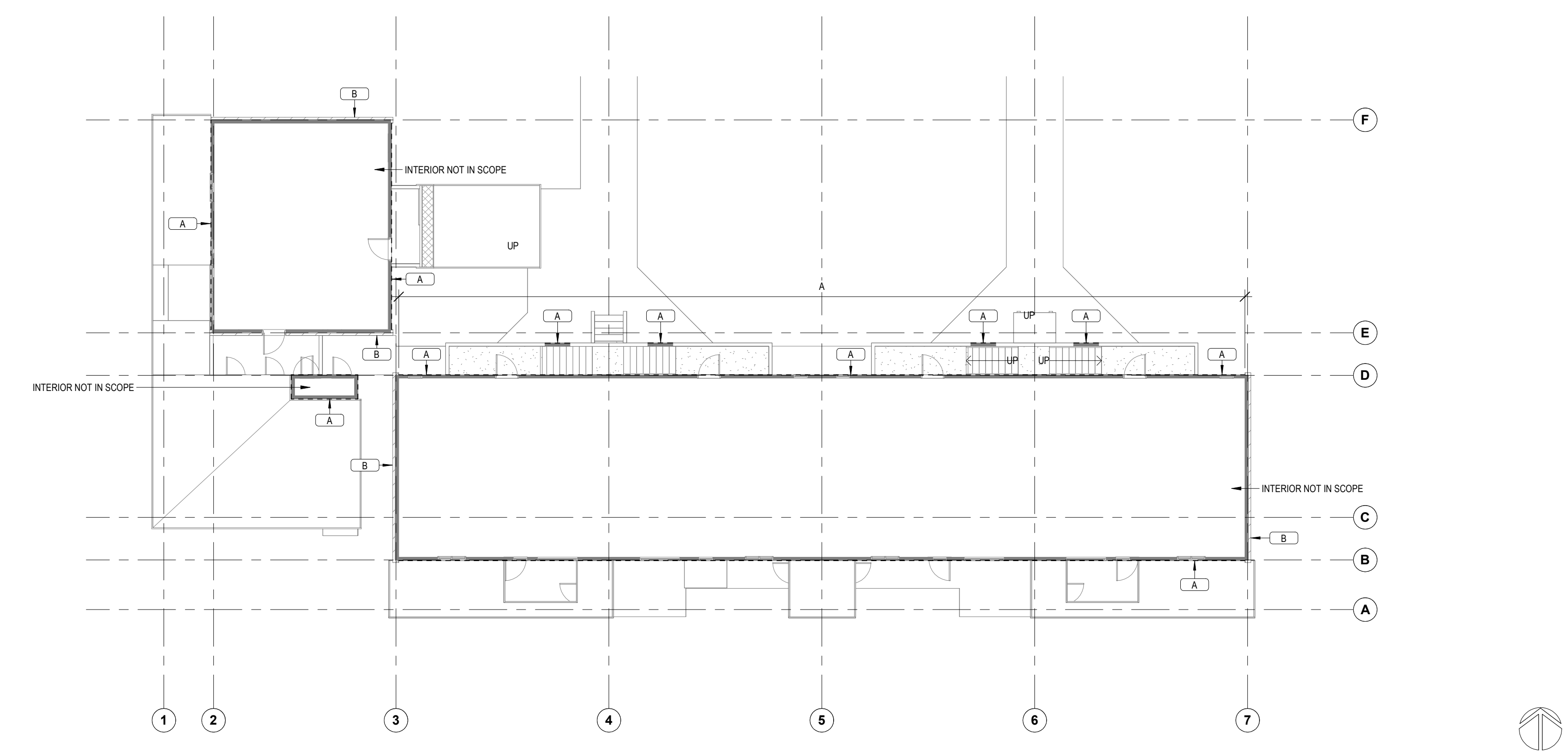
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-25

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

107A-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA
TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSEL
OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF TH
REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC
LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLET
ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGED
SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM
CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN
EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU
OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR D
ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E
WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK
REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE
SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE
OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN
PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC
REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER,
MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH
NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS
ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U
ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO
PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A
STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO
TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU
AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN
STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AND
CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT
IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE
SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA
DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP
NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL,
QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY
MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT
DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT
SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT
PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU
RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE
DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM
REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA
DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA
CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE
CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH
OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS RE
EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP
OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON
DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND
CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P
INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB
TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, ETC., U
PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

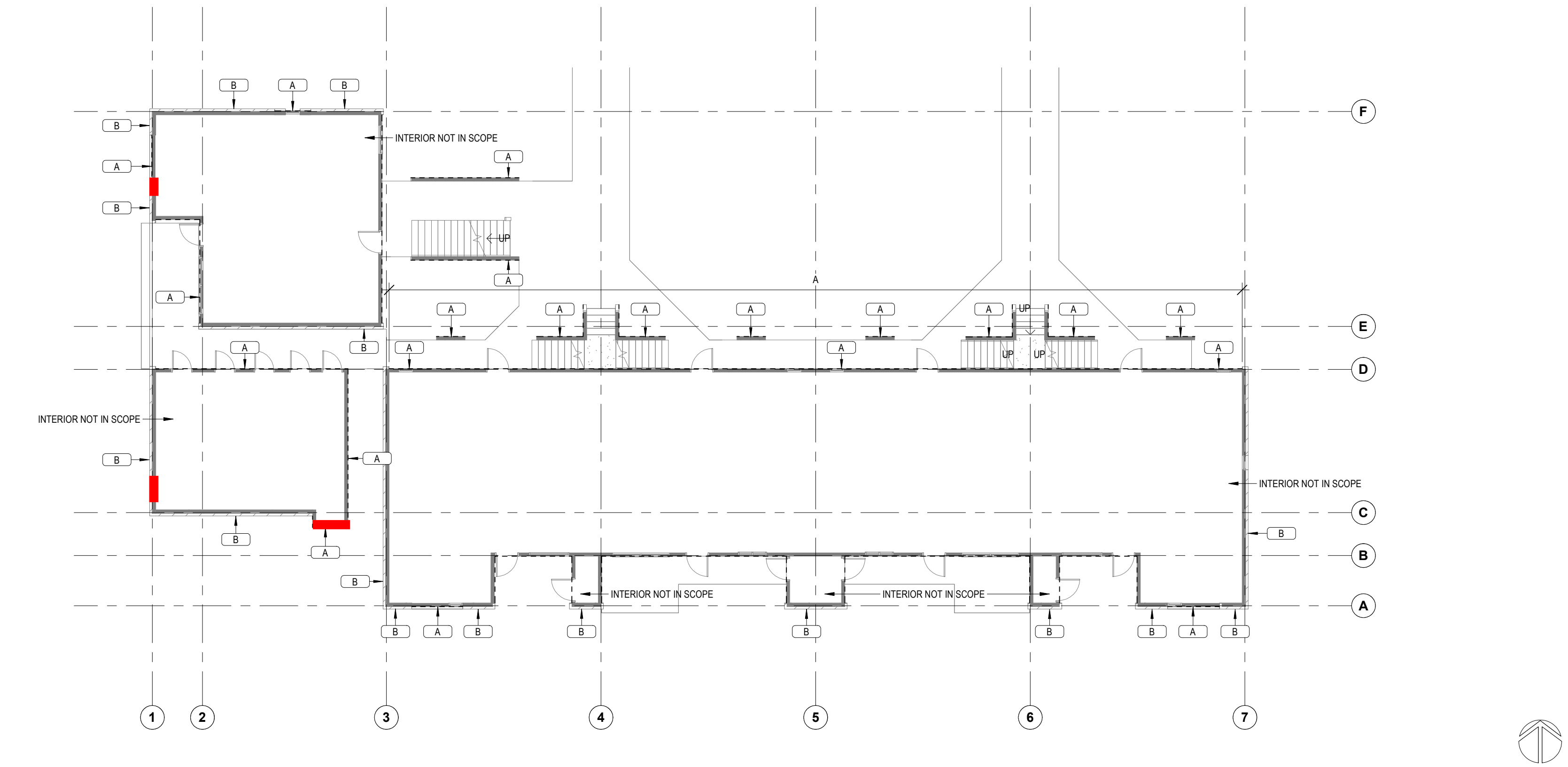
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 107A
BOZEMAN, MONTANA

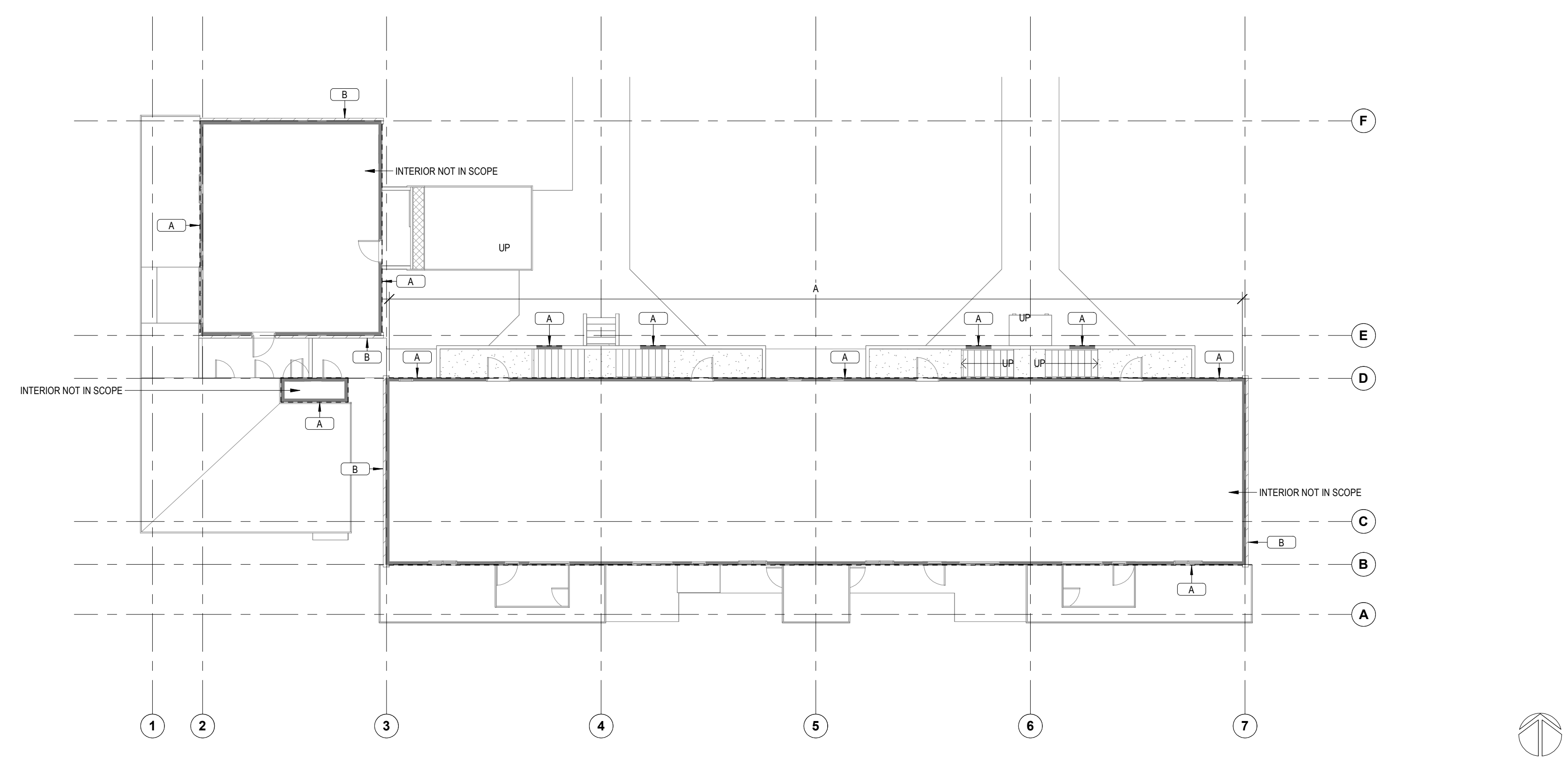
Project No.:	117-01068-2505
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-26

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

108B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHEA... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF T REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIP NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIOR
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENT PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS N
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

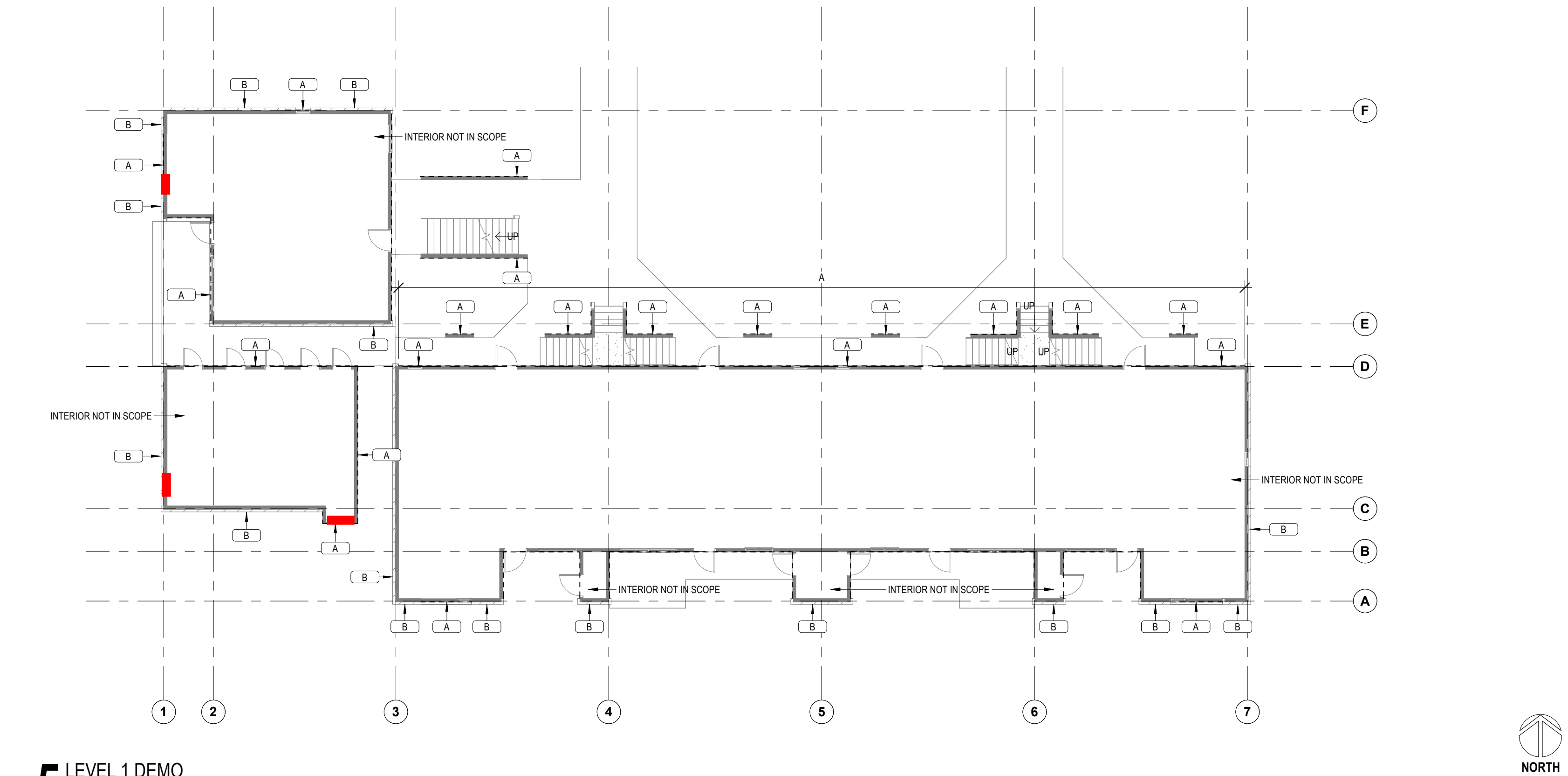
TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT
ASBESTOS INSPECTION
ACM LOCATIONS
MONTANA STATE UNIVERSITY
BUILDING 108B
BOZEMAN, MONTANA

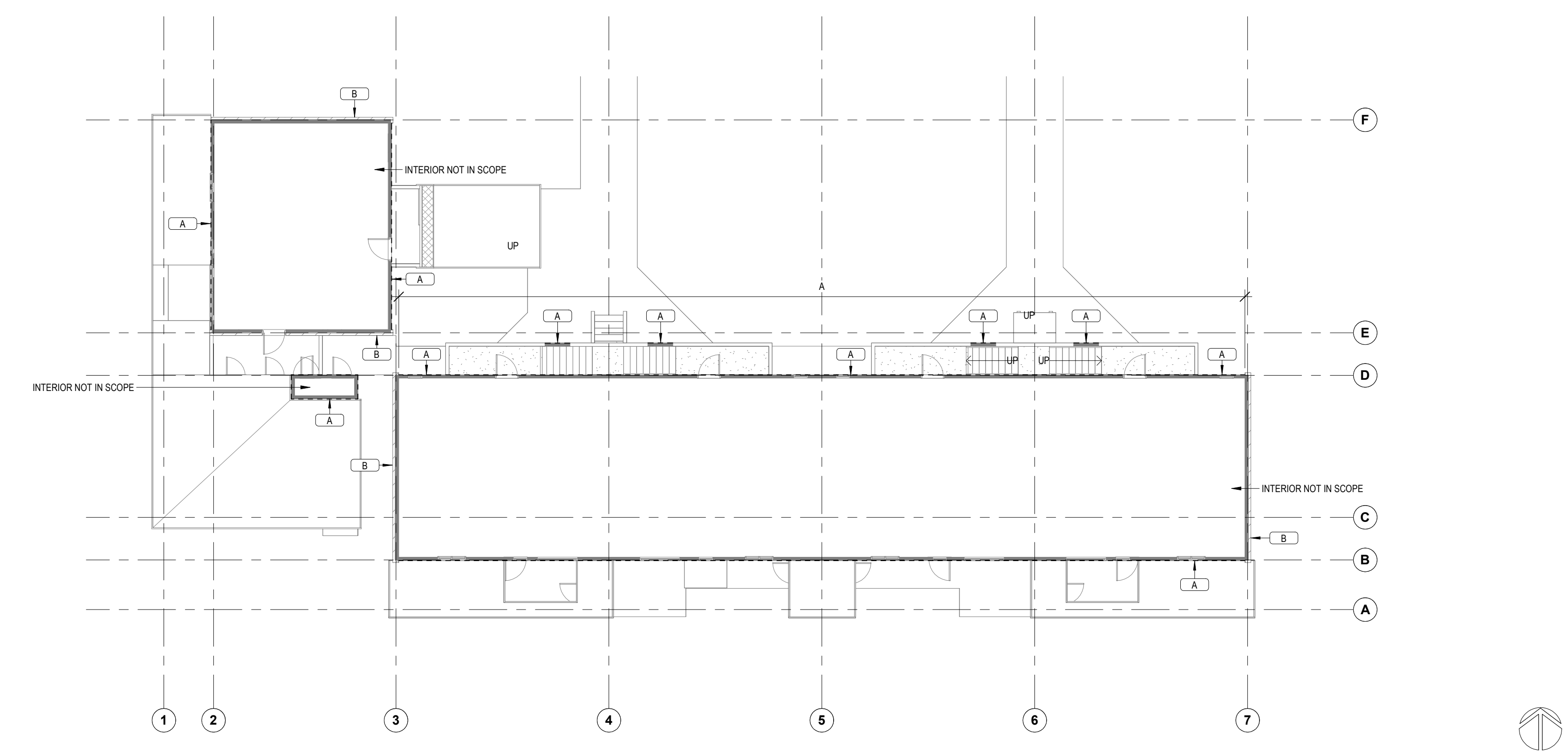
Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-27

Not To Scale



5 LEVEL 1 DEMO
3/32" = 1'-0"



13 LEVEL 2 DEMO
3/32" = 1'-0"

LEGEND

109B-M8.1 WHITE WINDOW CAULKING

GENERAL NOTES

1. 101 BUILDING ... 102 BUILDING 'B/C' ARE MIRRORED
2. GUTTERS AN... SPOUTS TO BE REMOVED AND RE...

KEYNOTES

A — REMOVE EXISTING SIDING DOWN TO EXTERIOR SHE... TRIM PIECES, SOFFIT BOARDS, AND ANY EXISTING B...

B — EXISTING BRICK TO REMAIN

DEMOLITION LEGEND

HATCH INDICATES AREA NOT IN SCOPE OF WOR...

INDICATES BUILT ITEM TO BE REMOVED

INDICATES LIGHT FIXTURE TO BE REMOVED

DEMOLITION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSE... OF WORK.
2. THE DEMOLITION NOTES PROVIDE A GENERAL DESCRIPTION OF T... REQUIRING REMOVAL. THE CONTRACTOR SHALL FIELD VERIFY AC... LOCATIONS OF ALL INDICATED ITEMS AS NECESSARY TO COMPLE... ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. COORDINATE WITH OWNER FOR ANY EQUIPMENT TO BE SALVAGE... SCHEDULED FOR REUSE, DEMOLISHED MATERIALS SHALL BECOM... CONTRACTOR AND SHALL BE IMMEDIATELY REMOVED FROM THE S...
4. REMOVE MATERIALS FROM SITE AND DISPOSE OF IN A LEGAL MAN... EXPENSE TO OWNER
5. DEBRIS FROM THE DEMOLITION SHALL NOT BE ALLOWED TO ACCU... OR ON THE SITE.
6. REMOVE FROM SITE ANY CONTAMINATED, VERMIN INFESTED, OR ... ENCOUNTERED AND DISPOSE OF BY SAFE MEANS SO AS NOT TO E... WORKERS AND PUBLIC.
7. BURNING OF MATERIALS ON SITE IS NOT PERMITTED.
8. CLEAN-UP: MUST MEET GOVERNING DUST CONTROL CODES.
9. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK ... REQUIREMENTS.
10. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURE... SHORING.
11. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIE... OCCUPIED BUILDING OR SITE AS POSSIBLE AND WITH MINIMUM IN... PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCES...
12. CONTRACTOR SHALL PROVIDE TEMPORARY DUST AND CONSTRUC... REQUIRED TO SHIELD THE PUBLIC FROM NOISE, DUST, WEATHER, ... MAY BE EXPOSED AS A RESULT OF THE DEMOLITION WORK.
13. PERFORM CUTTING OF EXISTING CONCRETE AND MASONRY WITH ... NOT USE JACK-HAMMERS EXCEPT WHERE PERMITTED BY OWNER.
14. BREAK CONCRETE AND MASONRY INTO SECTIONS LESS THAN 3 F...
15. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INS... ELEMENTS REMAIN UNDAMAGED THROUGHOUT CONSTRUCTION, U... ON DEMOLITION PLAN. IT IS THE SOLE RESPONSIBILITY OF THE CO... PROVIDE ANY SHORING, BRACING, OR TEMPORARY STRUCTURE, A... STRUCTURAL ENGINEER AS REQUIRED.
16. ALL PUBLIC UTILITIES TO REMAIN IN OPERATION THROUGHOUT CO... TO COORDINATE ANY TEMPORARY SERVICES REQUIRED TO MAINT...
17. SEE ENGINEERING DRAWINGS FOR DUCTWORK, DIFFUSER, PLENU... AND/OR PROTECTION. COORDINATE WITH MECHANICAL ENGINEER...
18. FIRE SAFETY MUST BE MAINTAINED FOR ALL PERSONNEL WORKIN... STAIRS, ALARMS, SPEAKERS, ETC. MUST REMAIN ACCESSIBLE AN... CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT... IMMEDIATELY NOTIFY BUILDING SECURITY AND BUILDING MANAGE... SYSTEMS AND REPAIR OR REPLACE DAMAGED SYSTEMS IMMEDIA... DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUI... NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIO...
19. IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, ... QUESTION WITH THE OWNER BEFORE PROCEEDING. IMMEDIATELY ... MATERIALS ARE FOUND AND CONTACT THE OWNER'S REPRESENT...
20. REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT ... DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WIT... SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESEN... PREVENT NEW CONSTRUCTION DELAYS.
21. PROVIDE FOR FIRE PROOFING REPAIR AS REQUIRED AT STRUCTU... RATING WHERE CONSTRUCTION TRADES REMOVE EXISTING FIRE ... DAMAGE OR PENETRATIONS IN RATED ASSEMBLIES TO CONFORM ... REQUIREMENTS AND TO MAINTAIN FIRE PROTECTION AND SEPARA... DESIGNED.
22. AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION ARE... CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL ...
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND/OR RE... CAUSED BY HIM OR HIS SUBCONTRACTORS. REFINISH TO MATCH ... OR AS NOTED HEREIN.
24. FOR AREAS NOT IN DEMOLITION SCOPE OF WORK, PROTECT AS R... EQUIPMENT, FIXTURES AND HARDWARE DURING DEMOLITION AND...
25. PRIOR TO DEMOLITION, INVESTIGATE WALLS FOR CONCEALED PIP... OWNER/ARCHITECT OF ANY CONDITION NOT DOCUMENTED IN CON... DESIGNATED WALL BASES, WALL FRAMING, BATT INSULATION AND ... CONDUITS AND RECEPTACLES, REFERENCE ELECTRICAL DEMO P... INFORMATION.
26. ALL EXISTING DIRECTIONAL SIGNAGE TO BE REMOVED UNLESS NO...
27. WHERE NOTED, REMOVE FLOORING DOWN TO TOP OF CONC SLAB ... TRANSITION STRIPS, AND OTHER ASSOCIATED ELEMENTS, T... U... PREPARE REMAINING SURFACES TO RECEIVE NEW FINISHES.

TETRA TECH
www.tetratech.com
7100 Commercial Ave, Suite 4
Billings, Montana 59101
PHONE: 406-248-9161 FAX: 406-248-9282

PAISLEY COURT

ASBESTOS INSPECTION

ACM LOCATIONS

MONTANA STATE UNIVERSITY

BUILDING 109B

BOZEMAN, MONTANA

Project No.:	117-01068-250
Designed By:	N/A
Drawn By:	N/A
Checked By:	PB

F-28

Not To Scale

ATTACHMENT A
Laboratory Analytical Reports and COCs

RYLEE S PRINZ

has met the requirements of Montana Administrative Rule 17.74.362 and/or 17.74.363 for accreditation in the following asbestos occupation(s) through the specified expiration date(s).

MTA-6513

Asbestos Inspector	08/23/2025
Project Contractor/Supervisor	07/19/2025

MT DEQ Asbestos Control Program

RYLEE S PRINZ
5814 TWINS WAY #2
BILLINGS MT 59101

ATTACHMENT B
MDEQ Inspector Accreditation

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118826AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118826AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95922	M8.1A	*M8.1A-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	***white sealant with debris***
95923	M8.1B	*M8.1B-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	
95924	M8.1C	*M8.1C-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118826AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95919	M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95919			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95920	M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95920			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95921	M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95921			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95922	M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118826AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95923	M8.1B		*M8.1 B-1*	***Caulking/*** *white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca
95924	M8.1C		*M8.1 C-1*	***Caulking/*** *white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca
95925	M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95925			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95926	M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95926			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95927	M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118826AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95927			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95928	M34.1A		*M34.1 A-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
95929	M34.1B		*M34.1 B-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
95930	M34.1C		*M34.1 C-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118826AS

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95922	M8.1A	*M8.1 A-1*	***Caulking/** white sealant with debris*	*n*	***Trace Chrysotile***
95923	M8.1B	*M8.1 B-1*	***Caulking/** white sealant with debris*	*n*	***Trace Chrysotile***
95924	M8.1C	*M8.1 C-1*	***Caulking/** white sealant with debris*	*n*	***Trace Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAL 24118826
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 09:13	FEDEX		

10:30AM

NOV 1 2 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC24118826

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Number 117-001068-25005

Project Identifier 101A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	101A M 3.1	White Wall Board System with Assocaited white Paint	Throughout interior	
A B C	101A M 8.1	White Window Caulking	Around Exterior Windows	
A B C	101A M 13.1	3 inch by 6 inch Red Brick with Assocaited Grey Mortor	Throughout Exterior	
A B C	101A M 34.1	Grey Blown in Insulation	Throughout Attics	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118833AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118833AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118833AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96018	101B M3.1A		*M3.1A-1*	***Wallboard System w/ Paint/*** *off-white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96018			*M3.1A-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
96019	101B M3.1B		*M3.1B-1*	***Wallboard System w/ Paint/*** *white compound*	*y*	***None Detected***		100% qu,ca
96019			*M3.1B-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
96020	101B M3.1C		*M3.1C-1*	***Wallboard System w/ Paint/*** *off-white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96020			*M3.1C-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
96021	101B M8.1A	***10***	*M8.1A-1*	***Window Caulking****/ tan surfaced white sealant*	*n*	***None Detected***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118833AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96022	101B M8.1B	***10***	*M8.1B-1*	***Window Caulking**/ tan surfaced white sealant*	*n*	***None Detected***		100% qu,gy,bi
96023	101B M8.1C	***10***	*M8.1C-1*	***Window Caulking**/ tan surfaced white sealant*	*n*	***None Detected***		100% qu,gy,bi
96024	101B M13.1A		*M13.1 A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96024			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96025	101B M13.1B		*M13.1 B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96025			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96026	101B M13.1C		*M13.1 C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118833AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96026			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96027	101B M20.1A		*M20.1 A-1*	***Felt Moisture Barrier**/ black covering with debris*	*n*	***None Detected***		100% qu,gy,ma
96028	101B M20.1B		*M20.1 B-1*	***Felt Moisture Barrier**/ black covering with debris*	*n*	***None Detected***		100% qu,gy,ma
96029	101B M20.1C		*M20.1 C-1*	***Felt Moisture Barrier**/ black covering with debris*	*n*	***None Detected***		100% qu,gy,ma
96030	101B M34.1A		*M34.1 A-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	
96031	101B M34.1B		*M34.1 B-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	
96032	101B M34.1C		*M34.1 C-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CA24118833
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/8/24 09:27	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GC241118833

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 101B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	101B M 3.1	White Wall Board System with Assocaited White Paint	Throughout interior	
A B C	101B M 8.1	White Window Caulking	Around Exterior Windows	
A B C	101B M 13.1	3 inch by 6 inch Red Brick with Assocaited Grey Mortor	Throughout Exterior	
A B C	101B M 20.1	Black Felt Moisture Barrier	Throughout Exterior	
A B C	101B M 34.1	Grey Blown in Insulation	Throughout Attics	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118830AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118830AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95979	102A M8.1A	*M8.1A-1*	***Caulking**/ off-white sealant with debris*	***<1% Chrysotile***	***off-white sealant with debris***
95980	102A M8.1B	*M8.1B-1*	***Caulking**/ off-white sealant with debris*	***<1% Chrysotile***	
95981	102A M8.1C	*M8.1C-1*	***Caulking**/ off-white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118830AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95976	102A M3.1A		*M3.1A-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95976			*M3.1A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95977	102A M3.1B		*M3.1B-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95977			*M3.1B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95978	102A M3.1C		*M3.1C-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95978			*M3.1C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95979	102A M8.1A		*M8.1A-1*	***Caulking/*** *off-white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118830AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95980	102A M8.1B		*M8.1B-1*	***Caulking**/ off-white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
95981	102A M8.1C		*M8.1C-1*	***Caulking**/ off-white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
95982	102A M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95982			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95983	102A M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95983			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95984	102A M13.1C		*M13.1C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118830AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95984			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95985	102A M20.1A		*M20.1 A-1*	***Tar Paper Underlayment**/ black felt*	*y*	***None Detected***	20% ce	80% qu,bi
95986	102A M20.1B		*M20.1 B-1*	***Tar Paper Underlayment**/ black felt*	*y*	***None Detected***	20% ce	80% qu,bi
95987	102A M20.1C		*M20.1 C-1*	***Tar Paper Underlayment**/ black felt*	*y*	***None Detected***	20% ce	80% qu,bi
95988	102A M34.1A		*M34.1 A-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
95989	102A M34.1B		*M34.1 B-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
95990	102A M34.1C		*M34.1 C-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118830AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95979	102A M8.1A	*M8.1A-1*	***Caulking**/ off-white sealant with debris*	*n*	***0.25% Chrysotile***
95980	102A M8.1B	*M8.1B-1*	***Caulking**/ off-white sealant with debris*	*n*	***Trace Chrysotile***
95981	102A M8.1C	*M8.1C-1*	***Caulking**/ off-white sealant with debris*	*n*	***0.25% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAL 24118830
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 09:32	FEDEX		

NOV 12 2024
Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC24118830

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 102A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	102A M 3.1	White Wall Board System with assocaited White Paint	Throughout Interior	
A B C	102A M 8.1	White Caulking	Around Exterior Windows	
A B C	102A M 13.1	3 inch by 6 inch Red Brick with Assocaited Grey Mortor	Throughout Exterior	
A B C	102A M 20.1	Black Tar Paper Underlayment	Throughout Exterior	
A B C	102A M 34.1	Grey Blown In Insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118828AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118828AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95949	102B-M8.1A	*M8.1A-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	***white sealant***
95950	102B-M8.1B	*M8.1B-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	
95951	102B-M8.1C	*M8.1C-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118828AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95946	102B-M3.1A		*M3.1 A-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95946			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95947	102B-M3.1B		*M3.1 B-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95947			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95948	102B-M3.1C		*M3.1 C-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95948			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95949	102B-M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118828AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95950	102B-M8.1B		*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi
95951	102B-M8.1C		*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi
95952	102B-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95952			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95953	102B-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95953			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95954	102B-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118828AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95954			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95955	102B-M20.1A		*M20.1 A-1*	***Plastic Underlayment/*** *black covering*	*y*	***None Detected***		100% qu,ma
95956	102B-M20.1B		*M20.1 B-1*	***Plastic Underlayment/*** *black covering*	*y*	***None Detected***		100% qu,ma
95957	102B-M20.1C		*M20.1 C-1*	***Plastic Underlayment/*** *black covering*	*y*	***None Detected***		100% qu,ma
95958	102B-M34.1A		*M34.1 A-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
95959	102B-M34.1B		*M34.1 B-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
95960	102B-M34.1C		*M34.1 C-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118828AS

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95949	102B-M8.1A	*M8.1 A-1*	***Caulking/** white sealant*	*y*	***0.25% Chrysotile***
95950	102B-M8.1B	*M8.1 B-1*	***Caulking/** white sealant*	*y*	***0.25% Chrysotile***
95951	102B-M8.1C	*M8.1 C-1*	***Caulking/** white sealant*	*y*	***0.25% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GL241882 8

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 09:36	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118828

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 102B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	102B M 3.1	White Wall Board System with Assocaited White Paint	Throughout Interior	
A B C	102B M 8.1	White Caulking	Around Exterior Windows	
A B C	102B M 13.1	3 inch by 6 inch Red Brick and Assocaited Grey Mortor	Throughout Exterior	
A B C	102B M 20.1	Black Plastic Underlayment	Throughout Exterior	
A B C	102B M 34.1	Grey Blown In Insulation	Throughout Attic	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118837AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118837AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118837AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96069	M3.1A		*M3.1 A-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96069			*M3.1 A-2*	*white drywall*	*y*	***None Detected***		100% qu,gy
96070	M3.1B		*M3.1 B-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96070			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96071	M3.1C		*M3.1 C-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96071			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96072	M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118837AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96073	M8.1B		*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,gy,bi
96074	M8.1C		*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,gy,bi
96075	M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96075			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96076	M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96076			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96077	M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118837AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96077			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96078	M34.1A		*M34.1 A-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
96079	M34.1B		*M34.1 B-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
96080	M34.1C		*M34.1 C-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAC24118837
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 9:42	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CALC 1118837

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Number 117-001068-25005

Project Identifier 103A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	103A M 3.1	White Wall Board System with assocaited White Paint	Throughout Interior	
A B C	103A M 8.1	White Caulking	Around Exterior Windows	
A B C	103A M 13.1	3 icnh by 6 inch Red Brick and Assocaited Grey Mortor	Throughout Exterior	
A B C	103A M 34.1	Grey Blown In Insulation	Throughout Attic	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118827AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118827AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118827AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95931	103B-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95931			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
95932	103B-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95932			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95933	103B-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95933			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
95934	103B-M8.1A	***10***	*M8.1 A-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118827AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95935	103B-M8.1B	***10***	*M8.1 B-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca
95936	103B-M8.1C	***10***	*M8.1 C-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca
95937	103B-M20.1A		*M20.1 A-1*	***Moisture Barrier/*** *green foam with covering*	*y*	***None Detected***		100% qu,ma,ot
95938	103B-M20.1B		*M20.1 B-1*	***Moisture Barrier/*** *green foam with covering*	*y*	***None Detected***		100% qu,ma,ot
95939	103B-M20.1C		*M20.1 C-1*	***Moisture Barrier/*** *green foam with covering*	*y*	***None Detected***		100% qu,ma,ot
95940	103B-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95940			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *TDSHS 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118827AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95941	103B-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95941			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95942	103B-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95942			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95943	103B-M34.1A		*M34.1 A-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
95944	103B-M34.1B		*M34.1 B-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
95945	103B-M34.1C		*M34.1 C-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC24118427
~~CAC24118426~~ AS 11-12-24

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paiskey Court
Project Location	Bozeman	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☒ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 9:53	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118827

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paiskey Court

Project Identifier 103B

Project Number 117-001068-25005

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	103B M 3.1	White Wall Board system and Assocaited white Paint	Throughout Interior	
A B C	103B M 8.1	White Caulking	Around Exterior Windows	
A B C	103B M 20.1	Green Moisture Barrier	Throughout Exterior	
A B C	103B M 13.1	3 inch by 6 inch Red Brick and Assocaited Grey Mortor	Throughout Exterior	
A B C	103B M 34.1	Grey blown in insulation	Throughout Interior	

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118829AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118829AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
			No Asbestos Detected.		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118829AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95961	104A-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95961			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95962	104A-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95962			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95963	104A-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95963			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95964	104A-M8.1A	***10***	*M8.1 A-1*	***Caulking/*** *off-white sealant*	*y*	***None Detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118829AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95965	104A-M8.1B	***10***	*M8.1 B-1*	***Caulking/*** *off-white sealant*	*y*	***None Detected***		100% qu,bi
95966	104A-M8.1C	***10***	*M8.1 C-1*	***Caulking/*** *off-white sealant*	*y*	***None Detected***		100% qu,bi
95967	104A-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95967			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95968	104A-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95968			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95969	104A-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118829AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95969			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95970	104A-M20.1A		*M20.1 A-1*	***Moister Barrier/*** *green foam insulation with foil*	*n*	***None Detected***		100% ot
95971	104A-M20.1B		*M20.1 B-1*	***Moister Barrier/*** *green foam insulation with foil*	*n*	***None Detected***		100% ot
95972	104A-M20.1C		*M20.1 C-1*	***Moister Barrier/*** *green foam insulation with foil*	*n*	***None Detected***		100% ot
95973	104A-M34.1A		*M34.1 A-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
95974	104A-M34.1B		*M34.1 B-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
95975	104A-M34.1C		*M34.1 C-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

CAL24118829

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 10:00	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CA24118829

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 104A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	104A M 3.1	White Wall Board System and Assocaited white paint	Throughout Interior	
A B C	104A M 8.1	White Caulking	Around Exterior Windows	
A B C	104A M 13.1	3 inch by 6 inch Red Brick and Asssocaited Grey Mortor	Throughout Exterior	
A B C	104A M 20.1	Green Foam Moisture Barrier With Assocaited Silver Backing	Throughout Exterior	
A B C	104A M 34.1	Grey blown in insulation	Throughout Attic	

NOV 12 2024
Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118831AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118831AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95994	104B M8.1A	*M8.1A-1*	***Ext. Caulking**/ off-white sealant with debris*	***<1% Chrysotile***	***off-white sealant with debris***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118831AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95991	104B M3.1A		*M3.1A-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95991			*M3.1A-2*	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
95991			*M3.1A-3*	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
95992	104B M3.1B		*M3.1B-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95992			*M3.1B-2*	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
95993	104B M3.1C		*M3.1C-1*	***Wallboard System w/ Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95993			*M3.1C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118831AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95994	104B M8.1A		*M8.1A-1*	***Ext. Caulking**/ off-white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
95995	104B M8.1B	***10***	*M8.1B-1*	***Ext. Caulking**/ off-white sealant with debris*	*n*	***None Detected***		100% qu,bi
95996	104B M8.1C	***10***	*M8.1C-1*	***Ext. Caulking**/ off-white sealant with debris*	*n*	***None Detected***		100% qu,bi
95997	104B M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95997			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95998	104B M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95998			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118831AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95999	104B M13.1C		*M13.1 C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95999			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96000	104B M20.1A		*M20.1 A-1*	***Foam Moisture Barrier w/ Backing**/ green foam insulation with foil*	*n*	***None Detected***		100% ot
96001	104B M20.1B		*M20.1 B-1*	***Foam Moisture Barrier w/ Backing**/ green foam insulation with foil*	*n*	***None Detected***		100% ot
96002	104B M20.1C		*M20.1 C-1*	***Foam Moisture Barrier w/ Backing**/ green foam insulation with foil*	*n*	***None Detected***		100% ot
96003	104B M34.1A		*M34.1 A-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96004	104B M34.1B		*M34.1 B-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118831AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96005	104B M34.1C		*M34.1 C-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118831AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95994	104B M8.1A	*M8.1A-1*	***Ext. Caulking**/ off-white sealant with debris*	*n*	***0.50% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GL24118831

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Pailey Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☒ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 10:40	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GAL24118831

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Pailey Court **Project Number** 117-001068-25005

Project Identifier

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	104B M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	104B M 8.1	White Exterior caulking	Around exterior Windows	
A B C	104B M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	104B M 20.1	Green foam Moisture barrier with assocaited silver backing	Throughout Exterior	
A B C	104B M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118832AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118832AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
			No Asbestos Detected.		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118832AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96006	105A-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96006			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96007	105A-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96007			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96008	105A-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white drywall*	*y*	***None Detected***		100% qu,gy
96009	105A-M8.1A	***10***	*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi
96010	105A-M8.1B	***10***	*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118832AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96011	105A-M8.1C	***10***	*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi
96012	105A-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96012			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96013	105A-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96013			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96014	105A-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96014			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *TDSHS 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118832AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96015	105A-M34.1A		*M34.1 A-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
96016	105A-M34.1B		*M34.1 B-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
96017	105A-M34.1C		*M34.1 C-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

GAL24116832

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
	11/9/24 11:10	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL 24118832

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Identifier 105A

Project Number 117-001068-25005

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	105A M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	105A M 8.1	White Exterior caulking	Around exterior Windows	
A B C	105A M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	105A M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118834AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118834AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
96036	105B M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	***white sealant with debris***
96037	105B M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	
96038	105B M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project: 117-001068-25005, Paisley Court

CA Labs Project #: CAL24118834AG

Turnaround Time: 5 days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96033	105B M3.1A		*M3.1A-1*	***Wallboard System and Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96033			*M3.1A-2*	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
96033			*M3.1A-3*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96034	105B M3.1B		*M3.1B-1*	***Wallboard System and Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96034			*M3.1B-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96035	105B M3.1C		*M3.1C-1*	***Wallboard System and Paint/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96035			*M3.1C-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118834AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96036	105B M8.1A		*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
96037	105B M8.1B		*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
96038	105B M8.1C		*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi
96039	105B M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96039			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96040	105B M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96040			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118834AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96041	105B M13.1C		*M13.1 C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96041			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96042	105B M34.1A		*M34.1 A-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96043	105B M34.1B		*M34.1 B-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96044	105B M34.1C		*M34.1 C-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118834AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
96036	105B M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***
96037	105B M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***
96038	105B M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.50% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118834

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:15	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118834

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Number 117-001068-25005

Project Identifier 105B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	105B M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	105B M 8.1	White Exterior caulking	Around exterior Windows	
A B C	105B M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	105B M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118835AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118835AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
96048	106A-M8.1A	*M8.1A-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	***white sealant with debris***
96049	106A-M8.1B	*M8.1B-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	
96050	106A-M8.1C	*M8.1C-1*	***Caulking/** white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118835AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96045	106A-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96045			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96046	106A-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96046			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96047	106A-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96047			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96048	106A-M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118835AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96049	106A-M8.1B		*M8.1 B-1*	***Caulking/** white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi
96050	106A-M8.1C		*M8.1 C-1*	***Caulking/** white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi
96051	106A-M13.1A		*M13.1 A-1*	***Brick and Mortar/** red bricking*	*y*	***None Detected***		100% qu,ot
96051			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96052	106A-M13.1B		*M13.1 B-1*	***Brick and Mortar/** red bricking*	*y*	***None Detected***		100% qu,ot
96052			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96053	106A-M13.1C		*M13.1 C-1*	***Brick and Mortar/** red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118835AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96053			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96054	106A-M34.1A		*M34.1 A-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
96055	106A-M34.1B		*M34.1 B-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
96056	106A-M34.1C		*M34.1 C-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118835AS

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
96048	106A-M8.1A	*M8.1 A-1*	***Caulking/** white sealant with debris*	*n*	***0.25% Chrysotile***
96049	106A-M8.1B	*M8.1 B-1*	***Caulking/** white sealant with debris*	*n*	***0.25% Chrysotile***
96050	106A-M8.1C	*M8.1 C-1*	***Caulking/** white sealant with debris*	*n*	***0.25% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAL24//8835
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:21	FEDEX		

10:30AM

NOV 1 2 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC 24118835

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 106A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	106A M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	106A M 8.1	White Exterior caulking	Around exterior Windows	
A B C	106A M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	106A M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118836AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118836AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
96060	106 M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	***white sealant with debris***
96061	106 M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	
96062	106 M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118836AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96057	106 M3.1A		*M3.1A-1*	***Wallboard System w/ Paint/*** *off-white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96057			*M3.1A-2*	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
96058	106 M3.1B		*M3.1B-1*	***Wallboard System w/ Paint/*** *off-white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96058			*M3.1B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96059	106 M3.1C		*M3.1C-1*	***Wallboard System w/ Paint/*** *off-white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96059			*M3.1C-2*	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
96060	106 M8.1A		*M8.1A-1*	***Ext. Caulking****/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118836AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96061	106 M8.1B		*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca
96062	106 M8.1C		*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,bi,ca
96063	106 M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96063			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96064	106 M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96064			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96065	106 M13.1C		*M13.1C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118836AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96065			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96066	106 M34.1A		*M34.1 A-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96067	106 M34.1B		*M34.1 B-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96068	106 M34.1C		*M34.1 C-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118836AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
96060	106 M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.50% Chrysotile***
96061	106 M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***
96062	106 M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CA24118836
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:28	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118836

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 106B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	106 M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	106 M 8.1	White Exterior caulking	Around exterior Windows	
A B C	106 M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	106 M 34.1	Grey blown in insulation	Throughout Attic	

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118840AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118840AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
96107	107A M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant*	***<1% Chrysotile***	***white sealant***
96109	107A M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant*	***<1% Chrysotile***	
96110	107A M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118840AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96105	107A M3.1A		*M3.1A-1*	***Wallboard System w/ Paint/*** *white surfacing*	*y*	***None Detected***		100% qu,bi
96105			*M3.1A-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96106	107A M3.1B		*M3.1B-1*	***Wallboard System w/ Paint/*** *white surfacing*	*y*	***None Detected***		100% qu,bi
96106			*M3.1B-2*	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
96107	107A M3.1C		*M3.1C-1*	***Wallboard System w/ Paint/*** *white surfacing*	*y*	***None Detected***		100% qu,bi
96107			*M3.1C-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96107	107A M8.1A		*M8.1A-1*	***Ext. Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:**

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118840AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96109	107A M8.1B		*M8.1B-1*	***Ext. Caulking**/ white sealant*	*y*	***<1% Chrysotile***		100% qu,bi
96110	107A M8.1C		*M8.1C-1*	***Ext. Caulking**/ white sealant*	*y*	***<1% Chrysotile***		100% qu,bi
96111	107A M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96111			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96112	107A M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
96112			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96113	107A M13.1C		*M13.1C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118840AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96113			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96114	107A M34.1A		*M34.1 A-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96115	107A M34.1B		*M34.1 B-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	
96115			*M34.1 B-2*	*white insulation*	*y*	***None Detected***	100% fg	
96116	107A M34.1C		*M34.1 C-1*	***Blown In Insulation**/ gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118840AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
96107	107A M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant*	*y*	***0.25% Chrysotile***
96109	107A M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant*	*y*	***0.50% Chrysotile***
96110	107A M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant*	*y*	***Trace Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 GC2411884Q
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:29	FEDEX		

NOV 12 2024
Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118840

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 107A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	107A M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	107A M 8.1	White Exterior caulking	Around exterior Windows	
A B C	107A M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	107A M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118838AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118838AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
			No Asbestos Detected.		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118838AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96081	107B-M3.1A		*M3.1 A-1*	***Wallboard System/*** *tan surfaced white compound*	*n*	***None Detected***		100% mi,qu,bi,ca
96081			*M3.1 A-2*	*tan drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96082	107B-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% mi,qu,bi,ca
96082			*M3.1 B-2*	*tan drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96083	107B-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% mi,qu,bi,ca
96083			*M3.1 C-2*	*tan drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96084	107B-M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant with debris*	*n*	***None Detected***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118838AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96085	107B-M8.1B		*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,gy,bi
96086	107B-M8.1C		*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,gy,bi
96087	107B-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96087			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96088	107B-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96088			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96089	107B-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118838AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96089			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96090	107B-M34.1A		*M34.1 A-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
96091	107B-M34.1B		*M34.1 B-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
96092	107B-M34.1C		*M34.1 C-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Justin Cox
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 GAC24118438
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:37	FEDEX		

10:30AM

NOV 1 2 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118838

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court **Project Number** 117-001068-25005

Project Identifier 107B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	107B M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	107B M 8.1	White Exterior caulking	Around exterior Windows	
A B C	107B M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	107B M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118839AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118839AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

No Asbestos Detected.

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118839AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96093	108A-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96093			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96094	108A-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96094			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96095	108A-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96095			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
96096	108A-M8.1A	***10***	*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118839AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96097	108A-M8.1B	***10***	*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi
96098	108A-M8.1C	***10***	*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***None Detected***		100% qu,bi
96099	108A-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96099			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96100	108A-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96100			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96101	108A-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118839AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96101			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96102	108A-M34.1A		*M34.1 A-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
96103	108A-M34.1B		*M34.1 B-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	
96104	108A-M34.1C		*M34.1 C-1*	***Insulation/*** *gray insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Jose Matute
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CN24118839
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 11:52	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

C4C241118839

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Identifier 108A

Project Number 117-001068-25005

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	108A M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	108A M 8.1	White Exterior caulking	Around exterior Windows	
A B C	108A M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	108A M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118824AG Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118824AG

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95895	108B M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	***white sealant with debris***
95896	108B M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	
95897	108B M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118824AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95892	108B M3.1A		*M3.1A-1*	***Wall Board System w/ Paint/*** *white surfacing*	*y*	***None Detected***		100% qu,bi
95892			*M3.1A-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
95893	108B M3.1B		*M3.1B-1*	***Wall Board System w/ Paint/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95893			*M3.1B-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
95894	108B M3.1C		*M3.1C-1*	***Wall Board System w/ Paint/*** *tan surfaced white compound*	*n*	***None Detected***		100% qu,or
95894			*M3.1C-2*	*white drywall with brown paper*	*y*	***None Detected***	20% ce	80% qu,gy
95895	108B M8.1A		*M8.1A-1*	***Ext. Caulking***/ *white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118824AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95896	108B M8.1B		*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi
95897	108B M8.1C		*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***<1% Chrysotile***		100% qu,gy,bi
95898	108B M13.1A		*M13.1A-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95898			*M13.1A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95899	108B M13.1B		*M13.1B-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot
95899			*M13.1B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95900	108B M13.1C		*M13.1C-1*	***3x6 Brick and Mortar**/ red bricking*	*y*	***None Detected***		100% qu,ot

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118824AG

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/7/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95900			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95901	108B M34.1A		*M34.1 A-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	
95902	108B M34.1B		*M34.1 B-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	
95903	108B M34.1C		*M34.1 C-1*	***Blown In Insulation**/ brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 days

CA Labs Project #:
CAL24118824AG

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/07/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95895	108B M8.1A	*M8.1A-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***
95896	108B M8.1B	*M8.1B-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***0.25% Chrysotile***
95897	108B M8.1C	*M8.1C-1*	***Ext. Caulking**/ white sealant with debris*	*n*	***Trace Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAL 24/8824
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/7/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 12:15	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAC24118824

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Number 117-001068-25005

Project Identifier 108B

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	108B M 3.1	White wall board system with Assocaited white Paint	Throughout Interior	
A B C	108B M 8.1	White Exterior caulking	Around exterior Windows	
A B C	108B M 13.1	3 inch by 6 inch Red Brick with Assocaited grey Mortor	Throughout Exterior	
A B C	108B M 34.1	Grey blown in insulation	Throughout Attic	

10:30AM

NOV 12 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118841AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118841AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
			No Asbestos Detected.		

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118841AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96117	109A-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96117			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy
96118	109A-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96118			*M3.1 B-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
96119	109A-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
96119			*M3.1 C-2*	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
96119			*M3.1 C-3*	*white drywall with brown paper*	*n*	***None Detected***	21% ce	79% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118841AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96120	109A-M8.1A	***10***	*M8.1 A-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca
96121	109A-M8.1B	***10***	*M8.1 B-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca
96122	109A-M8.1C	***10***	*M8.1 C-1*	***Caulking/*** *off-white sealant with debris*	*n*	***None Detected***		100% qu,bi,ca
96123	109A-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96123			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96124	109A-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96124			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *TDSHS 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118841AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96125	109A-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
96125			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
96126	109A-M20.1A		*M20.1 A-1*	***Moisture Barrier/*** *tan surfaced black felt*	*n*	***None Detected***	60% ce	40% qu,bi
96127	109A-M20.1B		*M20.1 B-1*	***Moisture Barrier/*** *tan surfaced black felt*	*n*	***None Detected***	60% ce	40% qu,bi
96128	109A-M20.1C		*M20.1 C-1*	***Moisture Barrier/*** *tan surfaced black felt*	*n*	***None Detected***	60% ce	40% qu,bi
96129	109A-M34.1A		*M34.1 A-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	
96130	109A-M34.1B		*M34.1 B-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118841AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
96131	109A-M34.1C		*M34.1 C-1*	***Insulation/*** *tan insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Robert Olivarez
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAL24118841
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/6/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

☑ PLM EPA 600/R-93/116 ☐ PLM CARB 435 (rock/soil) ☐ TEM CHATFIELD ☐ TEM NOB 198.4 ☐ TEM CARB 435 (rock/soil)

☑ PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)

☑ Multi-Layered Samples:

☑ Analyze and Report All Separable Layers per EPA 600 ☐ Only Analyze sepecifically noted layer

☑ Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

☐ 10 Day ☑ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Same Day ☐ Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 12:28	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CAL24118841

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Number 117-001068-25005

Project Identifier 109A

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	109A M 3.1	White wall board system with assocaited White Paint	Through out	
A B C	109A M 8.1	White Exterior Caulking	Around windows	
A B C	109A M 13.1	3 in by 6 inch Red brick with Associated Grey Mortar	Throughout exterior walls	
A B C	109A M 20.1	Black Moisture Barrier	Throughout exterior	
A B C	109A M 34.1	Grey blown in insulation	Through out attic	

10:30AM

NOV 1 2 2024

Andrew Sikes

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Customer Project: 117-001068-25005, Paisley Court
Reference #: CAL24118825AS Date: 11/19/24

Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 117-001068-25005, Paisley Court **CA Labs Project #:** CAL24118825AS

Laboratory Sample ID	Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
95907	109B-M8.1A	*M8.1A-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	***white sealant***
95908	109B-M8.1B	*M8.1B-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	
95909	109B-M8.1C	*M8.1C-1*	***Caulking/*** *white sealant*	***<1% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Customer Project:
117-001068-25005, Paisley Court

CA Labs Project #:
CAL24118825AS

Turnaround Time:
5 Days

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Phone # 406-248-9161
Fax # 406-248-9282

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95904	109B-M3.1A		*M3.1 A-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95904			*M3.1 A-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95905	109B-M3.1B		*M3.1 B-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95905			*M3.1 B-2*	*white compound (beneath tape)*	*y*	***None Detected***		100% qu,ca
95905			*M3.1 B-3*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy
95906	109B-M3.1C		*M3.1 C-1*	***Wallboard System/*** *white surfaced white compound*	*n*	***None Detected***		100% qu,bi,ca
95906			*M3.1 C-2*	*white drywall with brown paper*	*n*	***None Detected***	20% ce	80% qu,gy

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118825AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95907	109B-M8.1A		*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi
95908	109B-M8.1B		*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi
95909	109B-M8.1C		*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***<1% Chrysotile***		100% qu,gy,bi
95910	109B-M13.1A		*M13.1 A-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95910			*M13.1 A-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95911	109B-M13.1B		*M13.1 B-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95911			*M13.1 B-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118825AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95912	109B-M13.1C		*M13.1 C-1*	***Brick and Mortar/*** *red bricking*	*y*	***None Detected***		100% qu,ot
95912			*M13.1 C-2*	*gray mortar*	*y*	***None Detected***		100% qu,ca
95913	109B-M20.1A		*M20.1 A-1*	***Felt/*** *black felt and black tar*	*n*	***None Detected***	20% ce	80% qu,bi
95913			*M20.1 A-2*	*brown wooden fragments*	*y*	***None Detected***	100% ce	
95914	109B-M20.1B		*M20.1 B-1*	***Felt/*** *black felt and black tar*	*n*	***None Detected***	20% ce	80% qu,bi
95915	109B-M20.1C		*M20.1 C-1*	***Felt/*** *black felt and black tar*	*n*	***None Detected***	20% ce	80% qu,bi
95916	109B-M34.1A		*M34.1 A-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Attn:

Phone # 406-248-9161
Fax # 406-248-9282

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118825AS

Date: 11/19/2024
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/6/2024
Purchase Order #:

Laboratory Sample ID	Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
95917	109B-M34.1B		*M34.1 B-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	
95918	109B-M34.1C		*M34.1 C-1*	***Insulation/*** *brown insulation*	*y*	***None Detected***	100% ce	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). *All samples received in good condition unless noted.*
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gy - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastonite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one of these disciplines is preferred, but not required. Extensive in-house training programs are used to augment education background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Customer Info:
Tetra Tech, Inc.
7100 Commercial Ave Suite 4
Billings, Montana 59101

Phone # 406-248-9161
Fax # 406-248-9282

Attn:

Customer Project:
117-001068-25005, Paisley Court

Turnaround Time:
5 Days

CA Labs Project #:
CAL24118825AS

Date: 11/19/24
Samples Rec'd: 11/12/24 10:30AM
Date Of Sampling: 11/06/24
Purchase Order #:

Laboratory Sample ID	Sample #	*Layer #*	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
95907	109B-M8.1A	*M8.1 A-1*	***Caulking/*** *white sealant*	*y*	***0.25% Chrysotile***
95908	109B-M8.1B	*M8.1 B-1*	***Caulking/*** *white sealant*	*y*	***0.25% Chrysotile***
95909	109B-M8.1C	*M8.1 C-1*	***Caulking/*** *white sealant*	*y*	***Trace Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM TDSHS 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

Josh Strange
Analyst

Technical Manager
Tanner Rasmussen

Senior Analyst
Julio Robles

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CONTACT INFORMATION

COMPANY:	Tetra Tech, Inc.	**Phone:**	406.248.9161 CAC24118825
Primary Contact	Roger W. Herman, Jr.	**Phone / Email:**	roger.herman@tetratech.com cell – 406.670.4844
Additional Contact	Rylee Prinz	**Phone / Email:**	RYLEE.PRINZ@tetratech.com cell - (541) 863-2234
Sampler Name(s)	Rylee Prinz	**Sampler Signature(s**	
Date of Inspection:	11/6/24		

PROJECT INFORMATION

Client	MSU	**Project Name**	Paisley Court
Project Location	Bozeman, Montana	**Project Number**	117-001068-25005

PLM INSTRUCTIONS

48

- [x] PLM EPA 600/R-93/116
- [ ] PLM CARB 435 (rock/soil)
- [ ] TEM CHATFIELD
- [ ] TEM NOB 198.4
- [x] TEM CARB 435 (rock/soil)
- [x] PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 2%)
- [x] Multi-Layered Samples:
  - [x] Analyze and Report All Separable Layers per EPA 600
  - [ ] Only Analyze sepecifically noted layer
- [x] Analyze Until Positive Stop by Material Type as Noted

TURNAROUND TIME

- [ ] 10 Day
- [x] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day
- [ ] Rush **Results by:**

Relinquished By	Date & Time	VIA	Received By	Date & Time
Rylee Prinz	11/9/24 12:33	FEDEX		

10:30AM

NOV 12 2024

Andrew Sikes

TETRA TECH

7100 Commercial Avenue Suite 4
Billings, Montana 59101
Phone: 406.248.9161 Fax 406.248.9282

CL24118825

CHAIN OF CUSTODY
–BULK ASBESTOS–

PROJECT INFORMATION

Project Name Paisley Court

Project Identifier 109B

Project Number 117-001068-25005

Bulk Sample #	HA ID	Sample Material Description	Material Location	Notes
A B C	109B M 3.1	White wall board system with assocaited White Paint	Through out	
A B C	109B M 8.1	White Exterior Caulking	Around windows	
A B C	109B M 13.1	3 in by 6 inch Red brick with Associated Grey Mortar	Throughout exterior walls	
A B C	109B M 20.1	Black Felt Moisture Barrier	Throughout exterior	
A B C	109B M 34.1	Grey blown in insulation	Through out attic	

10:30AM

NOV 1 2 2024

Andrew Sikes