DTMB-0414 (Rev 6/25)

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
State Facilities Administration
Design & Construction Division

CONSTRUCTION BID ADDENDUM NO. 1

This form identifies an Addendum to Bidding Documents, and incorporates interpretations or clarifications, modifications, acceptance of proposed "or equal" materials, and other information into the Bidding Documents. Addenda will be numbered by the Professional and distributed through www.michigan.gov/SIGMAVSS as an attachment.

TO: **ALL BIDDERS**		DATE ISSUED 10/23/2026
PROJECT NAME MDOT Aeronautics Building - HVAC Equipment Upgrades		FILE NUMBER 591/26063.KMM
PROFESSIONAL Matrix Consulting Engineers	PROJECT DIRECTOR Kurt Maiberger	BID OPENING DATE: 11/11/2026

ADDENDUM ITEMS:

1. Issued Hazardous Material Reports (attached).
2. Clarification: Only controls manufacturers listed in the project specifications are approved for this project.
3. Clarification: Existing fire alarm vendor is Honeywell.
4. Clarification: Existing controls system that is called be demolished in the construction docuements is a Building Control Integrators controls system.

ACKNOWLEDGEMENT: This Addendum must be acknowledged by the Bidder in the space provided in the Bid Summary and Bid Form. Failing to acknowledge Addenda may be cause for the Bid to be rejected. Addenda will become part of the Contract Documents.

PROFESSIONAL: Devon Pung, Matrix	DATE: 10/23/2026
APPROVED BY: Kurt Maiberger PROJECT DIRECTOR: Kurt Maiberger	DATE: 10/23/2026

October 22, 2026
Project No. 261890

Matrix Consulting Engineers, Inc.
544 Cherbourg Drive
Lansing, Michigan 48917

Attention: Devon Pung, Mechanical Engineering Project Manager

Reference: Asbestos Survey Report
2700 Port Lansing Road
Lansing, Michigan 48906

Dear Devon:

MATERIALS TESTING CONSULTANTS, INC. has completed a Limited Asbestos Building Materials Survey for the above-referenced project. The findings of the study along with recommendations for the management of asbestos containing building materials are presented in the attached report.

We appreciate this opportunity to provide these services. Please contact our office should you have any questions or require further assistance.

Sincerely,

MATERIALS TESTING CONSULTANTS, INC.



Matthew Plummer, CMC, CIEC
Industrial Hygiene Project Manager

att: Report

MATERIALS TESTING CONSULTANTS

ASBESTOS BUILDING MATERIALS SURVEY

MDOT Aeronautics Building
2700 Port Lansing Road
Lansing, Michigan

Prepared For:

Matrix Consulting Engineers, Inc.
544 Cherbourg Drive
Lansing, Michigan 48906

Prepared By:

MATERIALS TESTING CONSULTANTS, INC.

Matthew Plummer, CMC, CIEC
Industrial Hygiene Project Manager

NOT FOR BIDDING PURPOSES

October 22, 2026
MTC Project 261890

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APPENDIX
FUNCTION AREA MAP
HOMOGENEOUS MATERIALS REPORT
BUILDING SURVEY SUMMARY
ANALYTICAL RESULTS
CHAIN OF CUSTODY
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REPORT OF LIMITED ASBESTOS BUILDING MATERIALS SURVEY
2700 PORT LANSING ROAD

1.0 - INTRODUCTION

MATERIALS TESTING CONSULTANTS, INC. (MTC) has completed an Asbestos Building Materials Survey for the MDOT Aeronautics Buidling located in Lansing, Michigan. This work has been performed as described in our proposal 21805 dated October 2, 2026. Authorization to proceed was received from Devon Pung dated October 5, 2026. The scope of this study was described within the proposal.

The scope of this study in general includes and presented herein are the following:

- Asbestos Building Material Management Recommendation
- Survey Procedures
- Limitations
- Sample Procedures
- Laboratory Procedures
- Disclaimer
- Asbestos Materials Summary
- Function Area Map
- Homogeneous Material Classification
- Building Survey Summary
- Laboratory Results
- Chain of Custody
- Inspector Credentials

2.0 - RECOMMENDATIONS

2.1 - Asbestos Building Material Management Recommendations

It is recommended that Materials Testing Consultants, Inc. be contacted prior to any renovation activities to review the plans to determine if materials are to be impacted and so that MTC can recommend proper abatement levels to allow for these renovation activities to proceed. Materials found to contain asbestos or assumed to contain asbestos should be maintained in an undamaged condition. Do not cut, drill or otherwise make friable through mechanical action. Avoid creating dust and debris.

Management Plan - The Occupational Safety and Health Administration requires that the facility maintain an asbestos management plan to keep a record of asbestos containing materials and their condition and label asbestos containing materials within buildings. This record will provide facility maintenance staff, visiting contractors, and employees with the information that they require to minimize the risk of exposure to elevated fiber levels during repair and/or maintenance activities. MTC recommends that a management plan be adopted based upon this survey report, conduct employee training, develop an operations and maintenance program and label asbestos containing materials as necessary to comply with OSHA Standards.

Proper training of personnel involved in activities with asbestos containing materials (ACM) is necessary to protect the health of the workers. Training requirements are dependent upon the activities with ACM that are to be conducted. Training, as described below, is a summary of the OSHA Standard that outlines training requirements. Personnel should consult with the OSHA Standard or with MTC for any clarifications or interpretations. Types of Asbestos Work and Worker Training Requirements under OSHA Standard 1926.1101 “Asbestos Standard for Construction” regulated the State of Michigan are as follows:

Class I: Activities involving the removal of Thermal System Insulation (TSI) and surfacing ACM. Work must be supervised by a competent person with minimum 40-hour training conducted in accordance with EPA’s Model Accreditation Plan for supervisor. Workers conducting abatement must obtain accreditation with minimum 32-hour training for Abatement Workers.

Class II: Activities involving the removal of ACM which is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile, and sheeting, roofing and siding shingles, and construction mastics. Work must be supervised by a competent person with minimum 40-hour training conducted in accordance with EPA’s Model Accreditation Plan for Supervisor. Workers conducting abatement must obtain

accreditation with minimum 32-hour training for Abatement Workers. Work where negative pressure enclosures and critical barriers are not necessary, 8-hour “hands on training” is required. This would include work with asbestos containing roofing, flooring, siding, ceiling tiles, or transite panels.

Class III: Repair and maintenance operations where ACM, including TSI and surfacing ACM may be disturbed. Work must be supervised by a competent person with training in accordance with EPA training for local education agency maintenance and custodial staff. This training shall be “hands on” and be a minimum of 16-hours.

Class IV: Maintenance and custodial activities during which employees contact but do not disturb ACM and activities to cleanup dust, waste and debris resulting from Class I, II, and III activities. Work must be conducted by training in accordance with EPA training for local education agency maintenance and custodial staff and be a minimum 2-hours of asbestos awareness training to familiarize themselves with issues relating to asbestos containing building materials within their facilities.

3.0 - SURVEY METHODOLOGY

3.1 - Survey Procedures

Materials Testing Consultants, Inc. inspectors assigned Function Area numbers to individual rooms and continuous spaces and inspected each Function Area for quantity, location and condition of damaged materials in need of repair of suspect friable and non-friable asbestos containing building materials. Function areas which could not be accessed are listed in the Building Survey Summary and noted on the Function Area Maps. See the appendix. All materials within areas that access is not granted are to be treated as asbestos containing materials until licensed inspector assess the area to verify materials asbestos content.

Individual types of building materials encountered during the inspection were assigned homogeneous material numbers. Materials Testing Consultants, Inc. considered materials to be homogeneous only if they were similar in appearance, were located within the same building, and represented construction and/or renovation events which were completed over a set time or duration and which were likely completed by the same contractor.

Each building material was treated as a homogeneous material. For a listing of homogeneous materials, see the "Homogeneous Material Report", provided within the Appendix, The Homogeneous Material Report provides a quick summary of the presence and type of asbestos for each homogeneous material and total quantities of each material. This information can be of value when assessing asbestos abatement costs associated with renovation and/or demolition activities.

The inspector quantified all asbestos containing and assumed asbestos containing materials within each Function Area. As each Function Area was inspected, each suspect asbestos containing material was classified as friable or non-friable, assigned a type designation (surfacing, thermal system insulation or miscellaneous). Quantity of material was determined in square feet, linear feet, cubic feet or unit (each).

Survey information has been provided within the Building Survey Summary section within the Appendix. The Building Survey Summary can be used when trying to assess the potential for impacting asbestos materials when performing building maintenance activities. This summary will provide interested parties with a quick reference of all materials documented during the survey, the asbestos content of each material and quantity per Function Area. For ease of asbestos material management MTC has provided the Asbestos Materials Summary. This report provides only the asbestos containing materials and assumed asbestos containing materials per Function area with quantities provided.

This survey was conducted by a State of Michigan accredited Asbestos Building Inspectors. Copies of the Inspector's current Training Certificates and State Accreditations are attached to this report in Appendix.

3.2 - Limitations

Suspect building materials that are observed but unable to be sampled are designated assumed asbestos containing materials. Reasons materials are not sampled include, but are not limited to, irreparable damage to material to determine asbestos presence (i.e., fire rated doors, boilers, toilet gaskets, ceramic tile systems), space constrictions (i.e., heights above 10 ft, inadequate space to gather sample, or confined spaces), significant danger to inspector (i.e., active electrical equipment, fall hazards, work around active machinery) and at inspectors' discretion if it is determined that adequate representation of all potential asbestos containing components of a material is not feasible (i.e., roofing systems).

Limitations encountered during the execution of the survey reduce the ability to provide the highest value assessment that may result in increased potential construction, demolition, or renovation project costs.

2700 Port Lansing Road		
Limitation	Definition	Conformance
Access	Authorization to enter all rooms, vaults, and spaces in structure. (All materials within areas that access in not granted are to be treated as asbestos containing materials until licensed inspectors assess the area to verify materials asbestos content.)	YES
Liberty to sample	Authorization for inspector to sample all materials at their discretion in any location. (Inability to sample materials at inspector discretion reduces the accuracy in obtaining representative samples of materials.)	NO
Occupancy	All occupants permanently removed from building. (Active occupancy reduces inspectors' ability to accurately assess suspect Asbestos Containing Materials.)	NO
Utilities	All utilities terminated before building ensuring inspector safety while sampling materials. (Active utilities inhibit the ability to assess mechanical, electrical plumbing and HVAC systems safely.)	NO
Building Envelope	Authorization to create opening through roof and exterior walls into the interior of the building, up to 1 SF in size. (Inability to open building envelope may result in Asbestos Containing Materials hidden between cavities of envelope being found in construction activities.)	NO

Consult with MTC as limitations are lifted to assess affected areas.

3.3 - Sample Procedures

Sample Locations (were selected at random). Minimum sampling requirements have met requirements of OSHA Regulations for Construction, Subpart D - Occupational Health and Environmental Controls, 29 CFR 1926.1101 - Asbestos. These OSHA regulations require for a material to be considered non-asbestos containing, that analysis of thermal system insulations and surfacing materials consist of a minimum three bulk samples being analyzed by a laboratory which participates in a nationally recognized testing program such as the National Voluntary Laboratory Accreditation Program (NVLAP) of the National Institute for Standards and Technology (NIST).

Where possible, samples were obtained in unobtrusive areas. Holes from core samples of thermal system insulation were repaired. The inspector performing the sampling had respiratory protection as required and performed the work in a professional and safe manner using wet methods and decontamination procedures as necessary to guard against localized building contamination.

The Sample Locations Summary section within the Appendix provides the site locations of each of the samples taken. The Homogeneous Material that the sample is taken from is represented in the sample number. The first one or two digits of the sample number represent the Homogeneous Material in which the sample was found. For example: Sample #101 was the first sample taken for Homogeneous Material #1. Sample #1104 was the fourth sample taken from Homogeneous Material #11.

3.4 - Laboratory Procedures

All samples were properly packaged and sent by Federal Express to EMSL Analytical, Inc. in Indianapolis, Indiana for analysis. Preparation and analysis of bulk samples was completed using a Stereoscopic Reflected Light Microscope and Polarized Light Microscope with dispersion staining capabilities to comply with EPA/600/R-93/116, July 1993, "Method for the Determination of Asbestos in Bulk Building Materials". The EMSL Analytical, Inc. results and Chain of Custody are included in the Appendix. All results have been summarized in the Homogeneous Material Report and the Building Survey Summary. Results pertaining to only asbestos containing materials and assumed asbestos containing materials have been summarized in the Asbestos Materials Summary.

4.0 - DISCLAIMER

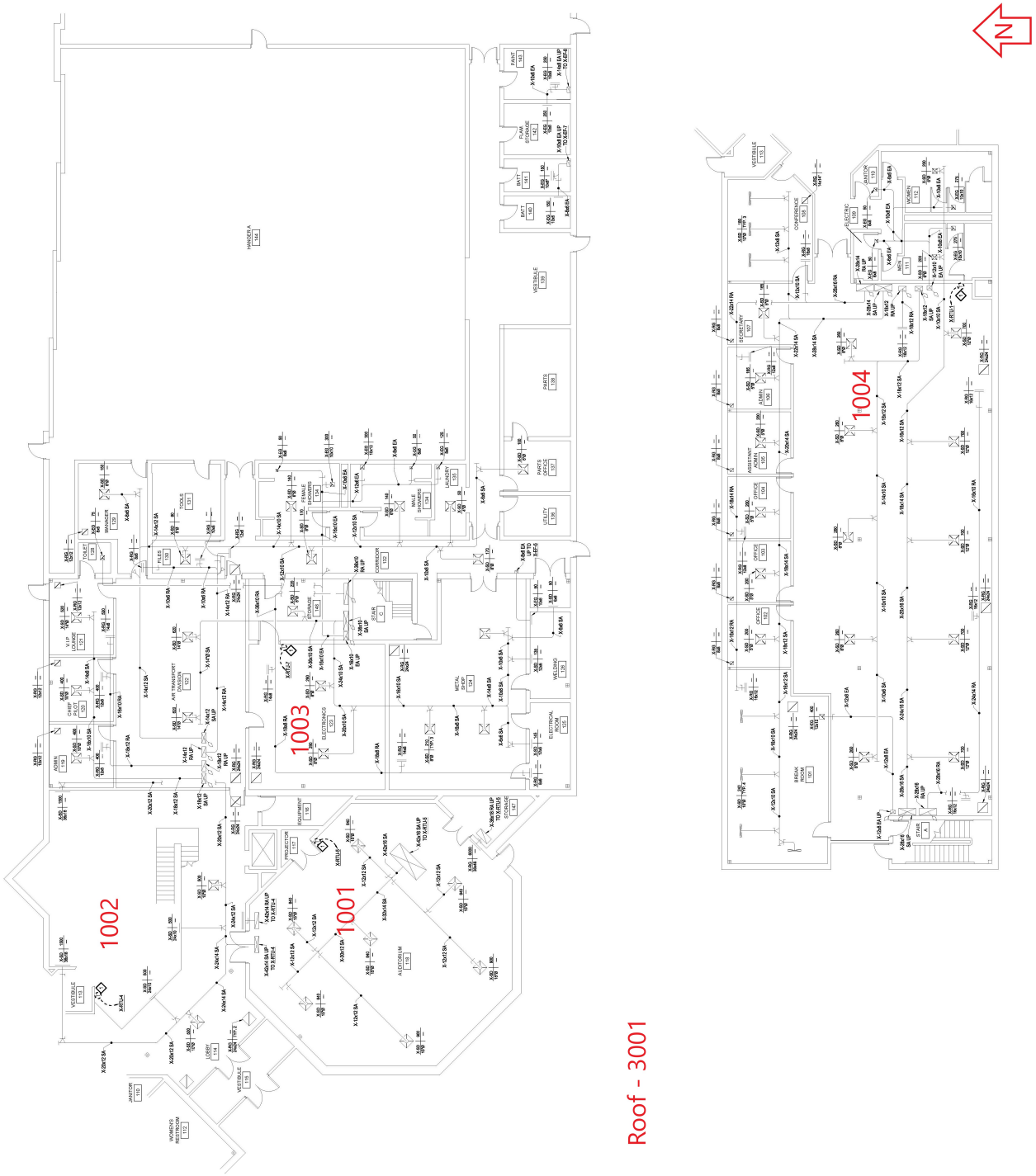
This Asbestos testing report supports the Owner's requirements of a 'thorough inspection' under DEGLE's NESHAP-Asbestos Standard and the Duties of building and facility owners under MIOSHA Part 602, Asbestos in Construction Standard 1926.1101(k)(2)(i) and (k)(5)(ii)(A) show the presence, location, and quantity of Asbestos Containing Materials. The accessible areas of the work area described have been surveyed for building materials. Inaccessible materials due to building occupancy, inspector safety or irreparable damage to materials may not be sampled and will be documented as assumed to contain asbestos or as inaccessible. Quantities of Asbestos containing materials should be verified by contractor for bidding purposes.

Building Owners have obligations under MIOSHA Part 602, including but not limited to communicating this report to employees and employers working in the building; treating unidentified materials as assumed or presumed asbestos containing materials (PACM) and handling assumed and PACM as asbestos containing materials until tested for asbestos content; and communicating to employees and employers working in the building the hazards associated with the potential existence of hidden asbestos materials in cavities, vaults, pits, spaces below floor slabs and below other materials with instructions to stop work when suspect asbestos materials are encountered.

APPENDIX

- FUNCTION AREA MAP
- ASBESTOS MATERIAL SUMMARY
- HOMOGENEOUS MATERIALS REPORT
- BUILDING SURVEY SUMMARY
- LABORATORY RESULTS
- CHAIN OF CUSTODY
- INSPECTOR CREDENTIALS

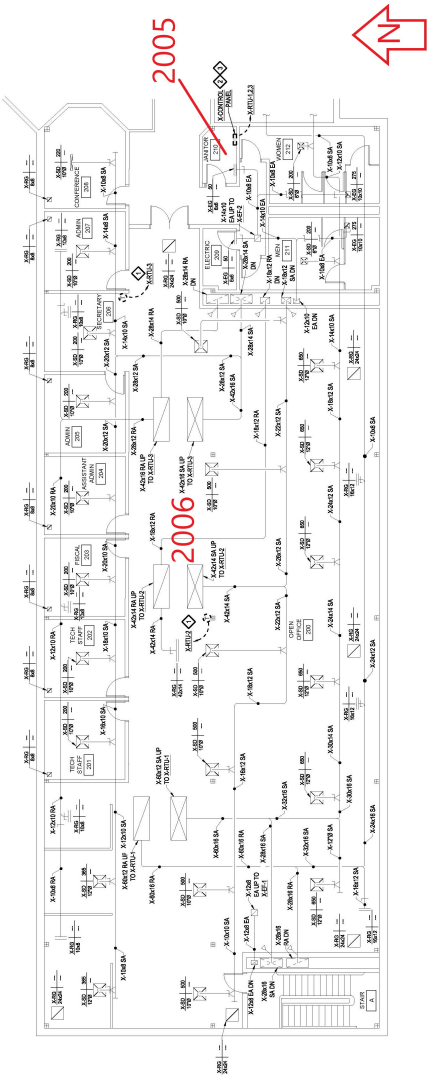
FUNCTION AREA MAP(S)



TITLE: MDOT Aeronautics Building, 1st Floor		PROJECT: MDOT Aeronautics Building HVAC
SCALE: NONE	DATE: 10/20/26	PROJECT NO.: 261890
FIG. NO.: 1	DR. BY: TR	REV. BY: MP

MTC MATERIALS TESTING CONSULTANTS





TITLE: MDOT Aeronautics Building, 2nd Floor		PROJECT: MDOT Aeronautics Building HVAC
SCALE: NONE	DATE: 10/20/26	PROJECT NO.: 261890
FIG. NO.: 2	DR. BY: TR	REV. BY: MP

MTC MATERIALS TESTING CONSULTANTS

HOMOGENEOUS MATERIALS REPORT

Job No.: 261890
Facility: MDOT Aeronautics Building HVAC Upgrades
Building: MDOT Aeronautics Building
Date: 20-Oct-26

Homogeneous Material Report

Homogeneous Material (HM) Name	Homogeneous Material Number	Friable/ Non-Friable	Asbestos Presence	Classifi-cation	Asbestos Type	Percentage	Quantity
Drywall and Joint Compound	1	NF	ND	M	None Detected	--	NQ
2' Drop Ceiling Tile, Rough Texture	2	F	ND	M	None Detected	--	NQ
Concrete Block and Mortar	3	NF	ND	M	None Detected	--	NQ
2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	4	F	ND	M	None Detected	--	NQ
Duct Seam Paste, Brown	5	NF	ND	M	None Detected	--	NQ
Wallpaper, Speckled Grey	6	NF	ND	M	None Detected	--	NQ
Wallpaper, Pink Marbling	7	NF	ND	M	None Detected	--	NQ
HVAC Unit Curb Flashing Caulk, Black and White	8	NF	ND	M	None Detected	--	NQ

Legend

Friable/Non-Friable
F = Friable
NF = Non-Friable

Asbestos Presence
K = known to contain asbestos
A = assumed to contain asbestos
ND = asbestos not detected by laboratory analysis
NA = material identified as non-asbestos by

Classification
T = thermal system insulation
S = surfacing material
M = miscellaneous material
O = other hazardous material

Quantity
NQ = Not Quantified

BUILDING SURVEY SUMMARY

Job No.: 261890
Facility: MDOT Aeronautics Building HVAC Upgrades
Building: MDOT Aeronautics Building
Date: 20-Oct-26

Building Survey Summary

Function Area No.	Inspection Date	HA No.	Description	Asbestos Type	Asbestos Percent	Friable/ Non-friable	Classi-fication Therm.(T) Surf.(S) Misc.(M)	Damage Loc.(L) Gen.(G)	% Damage 0-1 ND 1-10 D(G) 1-25 D(L) >10 SD(G) >25 SD(L)	Approx. Quantity	Remarks
1001	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Meeting Room
1001	10/14/2026	2	2' Drop Ceiling Tile, Rough Texture	None Detected	--	F	M	--	--	NQ	
1002	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Lobby
1002	10/14/2026	2	2' Drop Ceiling Tile, Rough Texture	None Detected	--	F	M	--	--	NQ	
1003	10/14/2026	3	Concrete Block and Mortar	None Detected	--	NF	M	--	--	NQ	Electronics Room
1003	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
1004	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	TSC Offices
1004	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
2001	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Executive Area
2001	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
2002	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Director's Office
2002	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
2003	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Comission Room

Job No.: 261890
Facility: MDOT Aeronautics Building HVAC Upgrades
Building: MDOT Aeronautics Building
Date: 20-Oct-26

Building Survey Summary

Function Area No.	Inspection Date	HA No.	Description	Asbestos Type	Asbestos Percent	Friable/ Non-friable	Classi-fication Therm.(T) Surf.(S) Misc.(M)	Damage Loc.(L) Gen.(G)	% Damage 0-1 ND 1-10 D(G) 1-25 D(L) >10 SD(G) >25 SD(L)	Approx. Quantity	Remarks
2003	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
2003	10/14/2026	5	Duct Seam Paste, Brown	None Detected	--	NF	M	--	--	NQ	
2003	10/14/2026	6	Wallpaper, Speckled Grey	None Detected	--	NF	M	--	--	NQ	
2004	10/14/2026	3	Concrete Block and Mortar	None Detected	--	NF	M	--	--	NQ	Mechanical Closet
2005	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Janitor's Closet
2006	10/14/2026	1	Drywall and Joint Compound	None Detected	--	NF	M	--	--	NQ	Open Offices
2006	10/14/2026	4	2' x 4' Drop Ceiling Tile, Random Dots and Pinholes	None Detected	--	F	M	--	--	NQ	
2006	10/14/2026	5	Duct Seam Paste, Brown	None Detected	--	NF	M	--	--	NQ	
2006	10/14/2026	7	Wallpaper, Pink Marbling	None Detected	--	NF	M	--	--	NQ	
3001	10/14/2026	8	HVAC Unit Curb Flashing Caulk, Black and White	None Detected	--	NF	M	--	--	NQ	Roof

LABORATORY RESULTS

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162614040
Customer ID:	MATE53
Customer PO:	
Project ID:	

Attention:	Matt Plummer Materials Testing Consultants 693 Plymouth N.E. Grand Rapids, MI 49505	**Phone:**	(616) 456-5469
		Fax:	(616) 456-5784
		Received Date:	10/16/2026 10:31 AM
		Analysis Date:	10/19/2026
		Collected Date:	10/13/2026
Project:	261890		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
101-Drywall *162614040-0001*	1001 NE Wall, behind electric box plate/cover - Drywall and Joing Compound	Brown/White Fibrous Heterogeneous	40% Cellulose	50% Gypsum 10% Non-fibrous (Other)	None Detected
101-Joint Compound *162614040-0001A*	1001 NE Wall, behind electric box plate/cover - Drywall and Joing Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
102-Drywall *162614040-0002*	1004 E Wall above drop ceiling - Drywall and Joing Compound	Brown/White Fibrous Heterogeneous	30% Cellulose	60% Gypsum 10% Non-fibrous (Other)	None Detected
102-Joint Compound *162614040-0002A*	1004 E Wall above drop ceiling - Drywall and Joing Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
103-Drywall *162614040-0003*	2001 N Wall above drop ceiling by reception - Drywall and Joing Compound	Brown/White Fibrous Heterogeneous	70% Cellulose	25% Gypsum 5% Non-fibrous (Other)	None Detected
103-Joint Compound *162614040-0003A*	2001 N Wall above drop ceiling by reception - Drywall and Joing Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
201 *162614040-0004*	2004 Loose tile in room - 2' Drop Ceiling Tile Rough Texture	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
202 *162614040-0005*	2004 Loose tile in room - 2' Drop Ceiling Tile Rough Texture	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
301-Block *162614040-0006*	1003 Above N doorway - Concrete Block and Mortar	Gray/White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
301-Mortar *162614040-0006A*	1003 Above N doorway - Concrete Block and Mortar	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
302-Block *162614040-0007*	2004 N Wall, above doorway - Concrete Block and Mortar	Gray/White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
302-Mortar *162614040-0007A*	2004 N Wall, above doorway - Concrete Block and Mortar	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
303-Block *162614040-0008*	2004 E Wall 8' up - Concrete Block and Mortar	Gray/White Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
303-Mortar *162614040-0008A*	2004 E Wall 8' up - Concrete Block and Mortar	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

Initial report from: 10/19/2026 14:19:26

EMSL Analytical, Inc.
6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order: 162614040
Customer ID: MATE53
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
401 *162614040-0009*	1003 Above N doorway - 2'x4' Drop Ceiling Tile Random Dots and Pinholes	Gray/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
402 *162614040-0010*	1004 E wall at ceiling - 2'x4' Drop Ceiling Tile Random Dots and Pinholes	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	15% Perlite 5% Non-fibrous (Other)	None Detected
501 *162614040-0011*	2003 By N wall above drop ceiling - Duct Sdeam Paste, Brown	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
502 *162614040-0012*	2006 By central pillar above drop ceiling - Duct Sdeam Paste, Brown	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
601 *162614040-0013*	2003 N Wall avove drop ceiling - Wallpaper, speckled gray	White Fibrous Homogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
602 *162614040-0014*	2003 N Wall avove drop ceiling - Wallpaper, speckled gray	White Fibrous Homogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
701 *162614040-0015*	2006 Central pillar above drop ceiling - Wallpaper, Pink Marbling	White Fibrous Homogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
702 *162614040-0016*	2006 Central pillar above drop ceiling - Wallpaper, Pink Marbling	White/Pink Fibrous Homogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
801-Caulk *162614040-0017*	3001 At HVAC Unit above flashing - HVAC Unit Curb Flashing Caulk, Black and White	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
801-Caulk *162614040-0017A*	3001 At HVAC Unit above flashing - HVAC Unit Curb Flashing Caulk, Black and White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
802-Caulk *162614040-0018*	3001 At HVAC Unit above flashing - HVAC Unit Curb Flashing Caulk, Black and White	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
802-Caulk *162614040-0018A*	3001 At HVAC Unit above flashing - HVAC Unit Curb Flashing Caulk, Black and White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/19/2026 14:19:26

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EMSL Order:	162614040
Customer ID:	MATE53
Customer PO:	
Project ID:	

Analyst(s)
Kailee Konyshak (15)
Ross Matlock (11)

Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262, A2LA Accredited - Certificate #2845.25

Initial report from: 10/19/2026 14:19:26

CHAIN OF CUSTODY

OrderID: 162614040

162614040

mtc-test.com 800.968.8378

PROJECT NO.: 261890
PROJECT NAME: MDOT Aeronautics Building HVAC
CLIENT: Mactec Consulting Engineers

CHAIN OF CUSTODY

Report to:
- [x] Matthew Plummer
- [ ] Chris Kestner
- [x] Tim Raymond
- [ ] other: _____

Email to:
- [x] Matthew Plummer Mplummer@mtc-test.com
- [ ] Chris Kestner Ckestner@mtc-test.com
- [x] Tim Raymond Traymond@mtc-test.com
- [ ] other: _____

Analysis Requested:
- [x] Asbestos: PLM EPA 600
- [ ] Paint: FAA, Lead
- [ ] Paint: FAA, Lead, Cadnium, Chromium
- [ ] Other: _____

Turnaround Time:
- [ ] 1 week
- [x] 72 hour (Standard)
- [ ] Other_____

QA Check by:
- [ ] Matthew Plummer
- [ ] Chris Kestner

Sampled by: Tim Raymond Sample Date: 10-14-26

Remarks:

Relinquished by: Tim Raymond Date/Time: 10-14-26

Tracking Number:

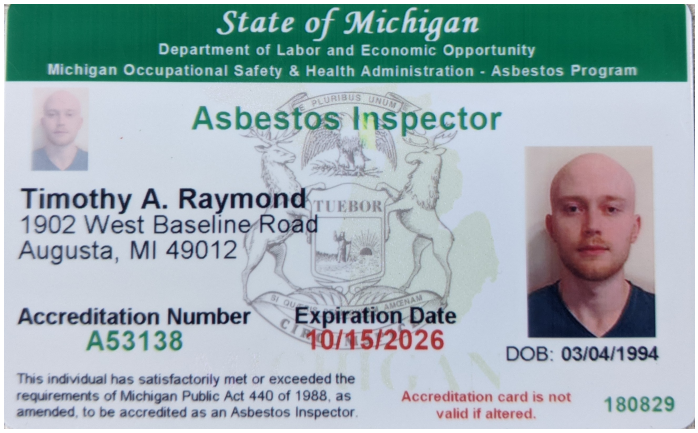
Received by: [illegible] 10/16/26 Date/Time: 10:31A

Positive Stop: Yes / (No)

No. of samples submitted ___

No. of pages attached___

INSPECTOR CREDENTIALS



*Updated Card Pending

CHC Training, LLC. is now BetterCertify, LLC. (Effect. 5/1/2024)

BetterCertify

BetterCertify
Certification & Compliance Solutions
www.bettercertify.com
303.412.6360
855.60.CERTIFY

1775 West 55th Avenue
Denver, Colorado 80221
United States of America

Certificate of Achievement

This certificate is awarded to:

Timothy Raymond

1925

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training (online-asynchronous) provided in accordance with the Model Accreditation Plan (MAP) (40 CFR Part 763, Subpart E, Appendix C) and AHERA (Subchapter II) of the Toxic Substances Control Act (TSCA). This course is in compliance with 40 CFR 763 and Michigan Public Act 440 of 1998, as amended and is entitled:

Building Inspector

Course Completion Date: September 28, 2026
Examination Date: September 28, 2026

Expiration Date: September 28, 2027
Course Hours: 4.0

Verify Credential

Danaya N. Wilson
CEO & Training Program Manager

Credential License ID:
195451747

BetterCertify
Compliance
Quality Safety
Accredited Alumni
Est. 2007

Aaron I. Hix
Instructor

Certificate No.:
R26-1245-AI-O-MI

Renew Credential

mtc-test.com 800.968.8378

PROJECT NO.: 261890
REPORT DATE: 10/22/2026
SHEET: *1 of 2*

PROJECT MDOT Aeronautics Building HVAC Renovation
CLIENT Matrix Consulting Engineers. Inc.

PAINT CHIP TESTING REPORT

LOCATION(S):	2700 Port Lansing Road, Lansing, Michigan
SAMPLING DATE(S):	10/14/26
CODE OR STANDARD:	MIOSHA Part 309-Cadmium, Part 603-Lead, Part 604-Chromium Exposure in Construction
MTC PROCEDURE:	Following ASTM E1729-05
EQUIPMENT:	Metal Scraper, Tape, Paper, Collection Bag

Results Assessments:

The enclosed lab report for the five [5] paint sample(s) collected from the project site shows concentrations of lead, cadmium and chromium. Concentrations below the laboratory detection limit is indicated by the "<" symbol preceding the concentration on the attached lab reports. Due to limitations of the analytical method, the laboratory could not determine the concentration below the laboratory detection value. Detection limits are part of analytical procedures for any method. Concentrations above the detection limit are reported as determined. Sample locations are provided on the lab report.

Remediation or abatement of painted surfaces is not a requirement under the Construction Standard, nor under any standard. The concentration of lead, cadmium or chromium does not trigger a requirement to remove painted surfaces prior to construction. According to OSHA, regarding the Lead in Construction, 29 CFR 1926.62 standard and in interpretation letters dated March 1, 1999 and September 10, 2008, employers must comply with assessment measures and any applicable protections of that standard for all tasks governed by the standard involving paints having **any** level of lead. OSHA further indicates that exposures above the PEL can occur when disturbing paint at "extremely low concentrations". It is expected that this level of interpretation applies to cadmium and chromium levels for their respective standards.

REPORT BY: Tim Raymond, CIEC

Testing was performed by qualified personnel in accordance with generally accepted industry practice, Materials Testing Consultants procedures and the above referenced standards. Review of report by Project Manager is standard practice. This report is applicable only to the items and location(s) listed herein and are not to be used within the context of Michigan Public Health Code Part 54A-Lead Abatement; Michigan Department of Community Health – Lead Hazard Control; USEPA Lead Renovations, Repair, Painting Program; USHUD Lead Hazard Control or any other Lead Based Paint Activities associated with housing or facilities with children under the age of 6. This report has been prepared for the exclusive use of the client and any partial or whole reproduction without the consent of the client is prohibited.

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PROJECT MDOT Aeronautics Building HVAC Renovation
CLIENT Matrix Consulting Engineers. Inc.

PAINT CHIP TESTING REPORT

Recommendations:

To comply with the OSHA and MIOSHA Construction Safety and Health standards governing worker exposure to lead, MTC recommends that each employer impacting painted surfaces review the regulatory standards to determine if work tasks are likely to cause worker exposure above the PEL either by using objective data or prior exposure assessments. Where no objective data or assessment data is available, conduct an exposure assessment in accordance with the standards. MTC is available to assist in meeting these requirements.

Attachments: Laboratory Report
Chain of Custody
Site Maps

REPORT BY: Tim Raymond, CIEC

Testing was performed by qualified personnel in accordance with generally accepted industry practice, Materials Testing Consultants procedures and the above referenced standards. Review of report by Project Manager is standard practice. This report is applicable only to the items and location(s) listed herein and are not to be used within the context of Michigan Public Health Code Part 54A-Lead Abatement; Michigan Department of Community Health – Lead Hazard Control; USEPA Lead Renovations, Repair, Painting Program; USHUD Lead Hazard Control or any other Lead Based Paint Activities associated with housing or facilities with children under the age of 6. This report has been prepared for the exclusive use of the client and any partial or whole reproduction without the consent of the client is prohibited.

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
www.emsl.com

EMSL Order ID: 162662627
LIMS Reference ID: CE62627
EMSL Customer ID: MATE53

Attention: Matt Plummer
Materials Testing Consultants [MATE53]
693 Plymouth N.E.
Grand Rapids, MI 49505
(616) 456-5469
mplummer@mtc-test.com

Project Name: 261890 - MDOT Aeronautics Bldg HVAC

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 10/16/2026 10:33
Reported: 10/21/2026 08:47

Analytical Results

Analyte	Results	RL	Weight	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: -01 White Paint on Drywall - 1001 NE Wall behind Bracket									**Date Sampled: 10/14/26**
Matrix: Chips									**LIMS Reference ID: CE62627-01**
Cadmium	<0.0025 % wt	0.0025 % wt	0.2583 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Chromium	<0.013 % wt	0.013 % wt	0.2583 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Lead	0.012 % wt	0.0064 % wt	0.2583 g	10/19/26 C.W	SW-846 3050B	10/19/26 OCX	SW 846-7000B	Pb2	1
Client Sample ID: 02 Off-White Paint on Block - 1003 N Wall, Right of Door behind Cabinet									**Date Sampled: 10/14/26**
Matrix: Chips									**LIMS Reference ID: CE62627-02**
Cadmium	<0.0025 % wt	0.0025 % wt	0.2569 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Chromium	<0.013 % wt	0.013 % wt	0.2569 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Lead	<0.0064 % wt	0.0064 % wt	0.2569 g	10/19/26 C.W	SW-846 3050B	10/19/26 OCX	SW 846-7000B	Pb2	1
Client Sample ID: 03 Grey Paint on Drywall - 1004 N Wall, above Drop Ceiling									**Date Sampled: 10/14/26**
Matrix: Chips									**LIMS Reference ID: CE62627-03**
Cadmium	<0.0025 % wt	0.0025 % wt	0.2546 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Chromium	<0.013 % wt	0.013 % wt	0.2546 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Lead	<0.0064 % wt	0.0064 % wt	0.2546 g	10/19/26 C.W	SW-846 3050B	10/19/26 OCX	SW 846-7000B	Pb2	1
Client Sample ID: 04 Pink/Off-White Paint on Drywall - 2001 N Wall, by Reception above Drop Ceiling									**Date Sampled: 10/14/26**
Matrix: Chips									**LIMS Reference ID: CE62627-04**
Cadmium	<0.0048 % wt	0.0048 % wt	0.1311 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Chromium	<0.025 % wt	0.025 % wt	0.1311 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Lead	<0.012 % wt	0.012 % wt	0.1311 g	10/19/26 C.W	SW-846 3050B	10/19/26 OCX	SW 846-7000B	Pb2	1
Client Sample ID: 05 White Paint on Block - 2004 N Wall, by Control Box									**Date Sampled: 10/14/26**
Matrix: Chips									**LIMS Reference ID: CE62627-05**
Cadmium	<0.0025 % wt	0.0025 % wt	0.2561 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Chromium	<0.013 % wt	0.013 % wt	0.2561 g	10/20/26 OCX	SW-846 3050B	10/20/26 OCX	SW 846-7000B		1
Lead	<0.0064 % wt	0.0064 % wt	0.2561 g	10/19/26 C.W	SW-846 3050B	10/19/26 OCX	SW 846-7000B	Pb2	1

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mplummer@mtc-test.com

Project Name: 261890 - MDOT Aeronautics Bldg HVAC

Customer PO:
EMSL Sales Rep: Jeromy Bish
Received: 10/16/2026 10:33
Reported: 10/21/2026 08:47

Certified Analyses included in this Report

Analyte	Certifications
SW 846-7000B in Chips	
Lead	16-OHDOH,16-AIHA LAP ELLAP

List of Certifications

Code	Description	Number	Expires
16-MO	Missouri Drinking Water	10180	03/31/2029
16-NYDOH	New York Potable Water, Metals Solid and Hazardous Waste - Asbestos	12130	04/01/2027
16-AIHA LAP ELLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - ELLAP	157245	08/01/2027
16-AIHA LAP IHLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - IHLAP	157245	08/01/2027
16-CA ELAP	California Metals in DW, Chemistry and Bulk Asbestos in Hazardous Waste	2575	06/30/2027
16-A2LA Food	A2LA Food Microbiology	2845.11	01/31/2028
16-A2LA Chemistry	A2LA Environmental and Chemistry	2845.25	01/31/2028
16-IN Metals/Asbestos	Indiana Lead and Metals and Asbestos in Drinking Water	C-49-09	12/31/2026
16-OHDOH	Ohio - Lead in Paint Chips, Wipes, Soil and Air	E10040	05/03/2027
16-FLDOH	Florida Asbestos and Metals in Drinking Water, PCBs	E871170	06/30/2027
16-NJDEP	New Jersey Metals, Organics and Inorganics in DW PCBs	IN002	06/30/2027
16-IN Colilert/HPC	Indiana Colilert and HPC	M-49-06	12/31/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
Pb2	The MS recovery for Lead was outside of the method control limits due to matrix bias.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the reporting limit, or the mdl if provided.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

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EMSL Sales Rep: Jeromy Bish
Received: 10/16/2026 10:33
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Aleks Kuchenbrod Laboratory Manager or other approved signatory

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Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.0064% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

mtc-test.com 800.968.8378

PROJECT NO.: 261890
PROJECT NAME: MDOT Aeronautics Bldg HVAC
CLIENT: Matrix Consulting Engineers

1e26626 627

CHAIN OF CUSTODY

Report to:
- [x] Matthew Plummer
- [ ] Chris Kestner
- [x] Tim Raymond
- [ ] other: _____

Email to:
- [x] Matthew Plummer Mplummer@mtc-test.com
- [ ] Chris Kestner Ckestner@mtc-test.com
- [x] Tim Raymond Traymond@mtc-test.com
- [ ] other: _____

Analysis Requested:
- [ ] Asbestos: PLM EPA 600
- [ ] Paint: FAA, Lead
- [x] Paint: FAA, Lead, Cadnium, Chromium
- [ ] Other: _____

Turnaround Time:
- [ ] 1 week
- [x] 72 hour (Standard)
- [ ] Other_____

QA Check by:
- [ ] Matthew Plummer
- [ ] Chris Kestner

Sampled by: Tim Raymond Sample Date: 10-14-26

Remarks:

Relinquished by: Tim Raymond Date/Time: 10-14-26

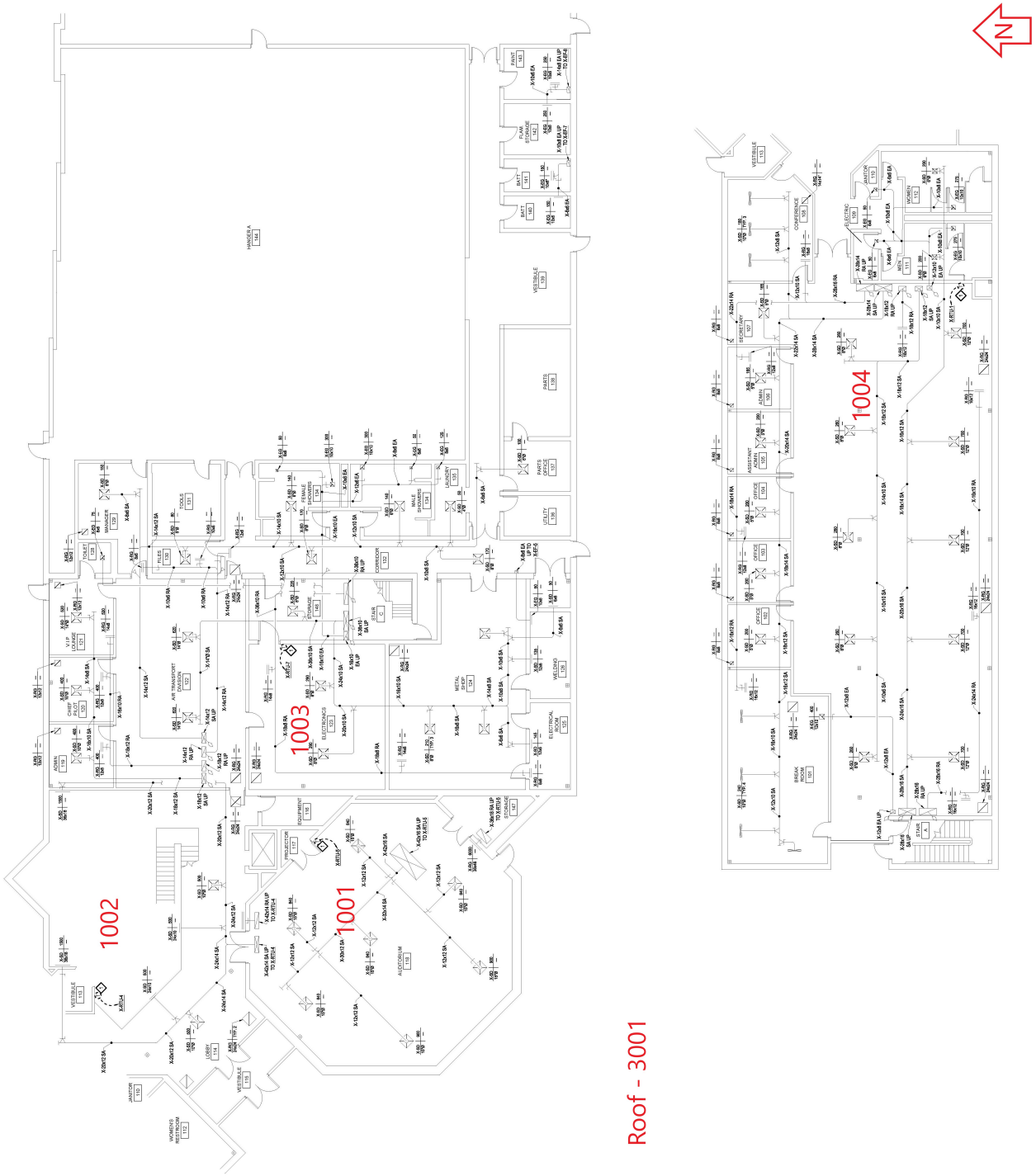
Positive Stop: ~~Yes / No~~

Tracking Number:

No. of samples submitted ___

Received by: [signature] Date/Time: 10:33a

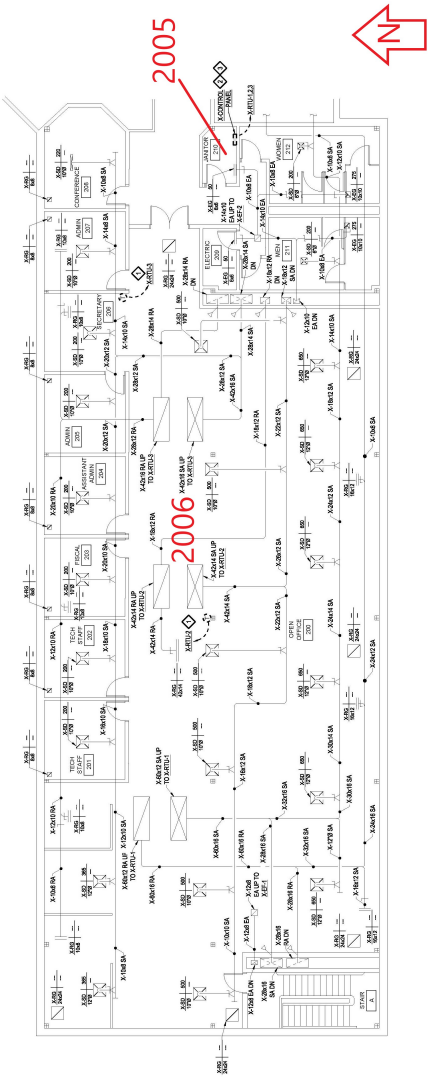
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TITLE: MDOT Aeronautics Building, 1st Floor		PROJECT: MDOT Aeronautics Building HVAC
SCALE: NONE	DATE: 10/20/26	PROJECT NO.: 261890
FIG. NO.: 1	DR. BY: TR	REV. BY: MP

MTC MATERIALS TESTING CONSULTANTS





TITLE: MDOT Aeronautics Building, 2nd Floor		PROJECT: MDOT Aeronautics Building HVAC
SCALE: NONE	DATE: 10/20/26	PROJECT NO.: 261890
FIG. NO.: 2	DR. BY: TR	REV. BY: MP

MTC MATERIALS TESTING CONSULTANTS