

46555 Humboldt Dr. Ste. 100 Novi, MI 48377 (248) 669-5140 | oneatlas.com



Client Name:	City of Kalamazoo
Project Name:	Commercial Building Asbestos Survey
Project Number:	188BS23599
Project Site Address (Subject Property):	1708 N Church Street, Kalamazoo, MI 49007
Date of Site Visit:	August 25, 2023
Asbestos Inspection Performed by:	Andrew DeLodder (A48677)
Asbestos Inspector's Signature:	Andrew DeSodder
Areas Not Accessible:	None
Number of Floors:	1
Asbestos Present (Yes/No/Other):	No

On the date indicated above, State of Michigan Asbestos Inspector, Andrew DeLodder (A48677) from Atlas Technical Consultants, conducted a pre-demolition asbestos and other regulated materials inspection of the subject unoccupied commercial property.

Table I identifies materials that were found to contain asbestos in concentrations greater than 1% and therefore are regulated under the rules of asbestos in the State of Michigan.

TABLE I Asbestos-Containing Materials

ID#	MATERIAL	LOCATION	QUANTITY	RESULT	NESHAP CATEGORY
		No Asbestos Detec	ted		

The purpose of this inspection was to task an accredited asbestos inspector to complete a pre-demolition asbestos and hazardous material survey of the subject site and provide recommendation options for removal and disposal of identified hazardous/regulated materials prior to demolition of the building(s). The asbestos inspection consisted of the following three basic procedures: conducting a visual inspection of the structure, Identifying homogeneous areas (HAs) of suspect surfacing, thermal system insulation, and miscellaneous materials; and sampling identified friable and non-friable suspect materials.

Bulk samples of suspect ACMs were collected and placed into individual containers for transport under Chain of Custody (COC) to a National Voluntary Lab Accreditation Program (NVLAP)-accredited laboratory for analysis. Materials typically known as non-asbestos items (i.e. fibrous glass, foam rubber, wood, etc.) were not sampled.

Laboratory Reports and associated COC's are provided in **Attachment A**. Photographs of the site are included in **Attachment B**. The following sections summarize Atlas' findings.

Table II below identifies the suspect asbestos-containing materials identified during the survey, their locations, approximate quantity, type and percentage of asbestos.

TABLE II
Suspect Asbestos-Containing Materials

HA/ID#	MATERIAL	LOCATION	QUANTITY	RESULT
1-RM-A,B,C	Roofing Material- Asphalt Shingles	EA-5	600 SF	ND
2-CC-A,B,C	Concrete Chip- Garage Foundation	EA-1,2,3,4	80 SF	ND
3-EC-A,B,C	Exterior Caulk- White, on Wood Siding, Window / Door Frames	EA-1,2,3,4	50 LF	ND
4-WG-A,B,C	Window Glaze- Off-White, Brittle, Window Exterior (1'x2' Windows)	EA- 2,4	3 Windows	ND
5-WG-A,B,C	Window Glaze- Replacement Glaze, White, Soft, Window Exterior (1'x2' Windows)	EA-2,4	3 Windows	ND
6-RM-A,B,C	Roofing Material- Asphalt Shingle, Stack in Garage Interior	FS-1	4 Bundles	ND
7-WB-A,B,C	Wallboard- Sheet of Wallboard	FS-1	20 SF	ND

ND = No asbestos detected, NA = Not applicable, UNQ = Unquantified; PC = Point Count

No other suspect ACMs were observed on the site. Although not anticipated based on surface observations, underground structures that could contain ACM may be present and should be managed accordingly if encountered during site redevelopment.

Asbestos is a hazardous substance. Its condition, handling and disposal are regulated by federal, state, and local agencies. ACMs generally do not pose a health threat unless the asbestos fibers are disturbed, become airborne and are inhaled.

Contractors working in an area where asbestos is present must be informed of the type and location of ACMs.

Abatement of ACMs, including non-friable ACMs, must be performed by a Michigan licensed, certified and registered asbestos abatement contractor in accordance with state and federal Occupational Safety and Health Administration (OSHA) and local air quality management regulations.

Table III below lists Other Regulated Materials/Universal Wastes identified during the survey.

TABLE III
Other Regulated Materials/Universal Wastes

MATERIAL	LOCATION	APPROXIMATE QUANTITY
Batteries	FS-1	1
Misc. Items (Glue, Solvents, Cleaners, etc.)	FS-1	3
Paint Cans	FS-1	2
Tires	FS-1	5

Table IV below lists the functional spaces identified during the survey.

Table IV
Functional Space/ Exterior Area Designations

DESCRIPTION	DESIGNATION
Garage	FS-1
Exterior Area	EA-1,2,3,4
Roof	EA-5

RECOMMENDATIONS:

Except for the following items listed below, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or demolition activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that is not friable.
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition.
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of.
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

Demolition with Roofing Materials in place is covered under the NESHAP regulations (40 CFR Part 61 Subpart M).

Roofing materials that were not tested during this inspection should be assumed to be Category I asbestos-containing roofing materials.

Since demolition activities do not include sanding, grinding, cutting, or abrading, Category I asbestos-containing roofing materials not in poor condition and not friable are not considered RACM, and are allowed to remain in place during demolition.

If the asbestos-containing roofing material is not in poor condition and is not friable, it may be disposed of in a landfill which accepts ordinary demolition waste.

The asbestos-containing roofing material may not be ground up for recycling into other products.

*If joint compound within the drywall system is identified as positive, a composite sample was analyzed per NESHAP. If the drywall system as a composite sample is less than 1% asbestos, the material is not considered RACM per NESHAP. However, OSHA requirements regarding materials containing less than 1% asbestos still apply, and contractors performing work should ensure they comply with the requirements if the material is not removed prior to demolition.

In addition, contractors should ensure they follow all OSHA regulations pertaining to demolition / demolition of Category I Asbestos-containing materials. Category I or II non-friable ACM that is not subject to 61.150(a)(3) would still have to be disposed of in a landfill that accepts building debris, in a landfill that operates in accordance with 61.154, or at a facility that operates in accordance with 61.155.

Prior to demolition, the following is recommended:

An asbestos abatement company, licensed in the State of Michigan should remove the materials identified as asbestos containing in Table I in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

Other Regulated Materials/Universal Wastes, identified in Table III, must be transported and disposed in accordance with all applicable Local, State, and Federal Requirements prior to demolition.

LIMITATIONS:

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted during Atlas' inspection of the vacant above-referenced property located in Kalamazoo, Michigan.

Any conditions or materials that could not be visually identified through limited destructive sampling were not inspected and may differ from those conditions or materials noted. The user of this report should keep in mind that conditions may change with time and observations made by Atlas at the time of the site reconnaissance may not be consistent with future observations made by others.

Additional materials may be encountered during the demolition process and may require further sampling to determine disposal criteria.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating asbestos building materials and Other Regulated Materials/Universal Wastes to be removed prior to demolition activities.

Under no circumstances is the report to be utilized as a bidding document or as a project specification document. Contractors bidding the demolition of this site should field-verify project information.

Atlas appreciates the opportunity to be of service to the City of Kalamazoo on this project. In the meantime, if you have questions regarding the information in this report or if we can be of further assistance do not hesitate to contact our office at (248) 669-5140.

ATTACHMENT A LABORATORY REPORTS AND CHAIN OF CUSTODY

37575 W Huron River Drive Romulus, Michigan 48174 (734) 955-6600

Fax: (734) 955-6604

To: Atlas - Novi

46555 Humboldt Dr. Suite 100 Novi, Michigan 48377 **ETL Job**: 260995 **Client Project**: 188BS23599

Attention: Robert Smith

Project Location: 1706 N Church Street, Kalamazoo, MI 49007

 Lab Sample Number	Client Sample Number	Sample Type	Completed
1576136	1-RM-A	Asbestos	09/08/2023
1576137	1-RM-B	Asbestos	09/08/2023
1576138	1-RM-C	Asbestos	09/08/2023
1576139	2-CC-A	Asbestos	09/08/2023
1576140	2-CC-B	Asbestos	09/08/2023
1576141	2-CC-C	Asbestos	09/08/2023
1576142	3-EC-A	Asbestos	09/08/2023
1576143	3-EC-B	Asbestos	09/08/2023
1576144	3-EC-C	Asbestos	09/08/2023
1576145	4-WG-A	Asbestos	09/08/2023
1576146	4-WG-B	Asbestos	09/08/2023
1576147	4-WG-C	Asbestos	09/08/2023
1576148	5-WG-A	Asbestos	09/08/2023
1576149	5-WG-B	Asbestos	09/08/2023
1576150	5-WG-C	Asbestos	09/08/2023
1576151	6-RM-A	Asbestos	09/08/2023

Lab Sample Number	Client Sample Number	Sample Type	Completed
 1576152	6-RM-B	Asbestos	09/08/2023
1576153	6-RM-C	Asbestos	09/08/2023
1576154	7-WB-A	Asbestos	09/08/2023
1576155	7-WB-B	Asbestos	09/08/2023
1576156	7-WB-C	Asbestos	09/08/2023

Reviewed by:

Jessica Dilutth

<u>Summary</u>

Method Sample Layer Mastic
PLM 27



Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260995

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Novi,Michigan 48377

Date Collected: 08/25/2023

140VI,WIIGIIIgaii +0377

Date Received: 09/05/2023

Location: 1706 N Church Street, Kalamazoo, MI 49007

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576136 1-RM-A Layer-1 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Green Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576136 1-RM-A Layer-2 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576136 1-RM-A Layer-3 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576137 1-RM-B Layer-1 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Green Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576137 1-RM-B Layer-2 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576137 1-RM-B Layer-3 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Red Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected



Layer-1 Analyst: Shelby Fogelsong Date Analyzed: 09/08/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260995

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Date Collected: 08/25/2023

Novi,Michigan 48377

Date Received: 09/05/2023

Location: 1706 N Church Street, Kalamazoo, MI 49007

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576138 1-RM-C	Roofing Material	Green Non-Fibrous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Shelby Fogelsong 09/08/2023	Homogenous			
1576138 1-RM-C	Roofing Material	Black Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-2 Analyst: Date Analyzed :	Shelby Fogelsong 09/08/2023	nomogenous			
1576138 1-RM-C	Roofing Material	Red Non-Fibrous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
Layer-3 Analyst: Date Analyzed :	Shelby Fogelsong 09/08/2023	Homogenous			
1576139 2-CC-A	Concrete Chip	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Shelby Fogelsong 09/08/2023	Homogenous			
1576140 2-CC-B	Concrete Chip	Gray Non-Fibrous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	Shelby Fogelsong 09/08/2023	Homogenous			
1576141 2-CC-C	Concrete Chip	Gray Non-Fibrous Homogenous	PLM 2% Cellulose	PLM 98% Other	PLM None Detected



Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260995

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Novi, Michigan 48377

Date Collected: 08/25/2023

Date Received: 09/05/2023

Date Analyzed: 09/08/2023

Location: 1706 N Church Street, Kalamazoo, MI 49007

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576142 3-EC-A Layer-1 Analyst: Date Analyzed :	Exterior Caulk Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576143 3-EC-B Layer-1 Analyst: Date Analyzed :	Exterior Caulk Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576144 3-EC-C Layer-1 Analyst: Date Analyzed :	Exterior Caulk Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576145 4-WG-A Layer-1 Analyst: Date Analyzed :	Window Glaze Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576146 4-WG-B Layer-1 Analyst: Date Analyzed :	Window Glaze Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected
1576147 4-WG-C Layer-1 Analyst:	Window Glaze Shelby Fogelsong	White Non-Fibrous Homogenous	PLM 1% Cellulose	PLM 99% Other	PLM None Detected



Date Analyzed:

09/08/2023

Certificate of Analysis



Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260995

46555 Humboldt Dr. Suite 100

Client Project: 188BS23599

Novi, Michigan 48377

Date Collected: 08/25/2023

Location: 1706 N Church Street, Kalamazoo, MI 49007

Date Received: 09/05/2023

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576148 5-WG-A Layer-1 Analyst: Date Analyzed :	Window Glaze Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576149 5-WG-B Layer-1 Analyst: Date Analyzed :	Window Glaze Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576150 5-WG-C Layer-1 Analyst: Date Analyzed :	Window Glaze Shelby Fogelsong 09/08/2023	White Non-Fibrous Homogenous	PLM Trace Cellulose	PLM 100% Other	PLM None Detected
1576151 6-RM-A Layer-1 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose PLM Trace Fiberglass	PLM 96% Other	PLM None Detected
1576152 6-RM-B Layer-1 Analyst: Date Analyzed :	Roofing Material Shelby Fogelsong 09/08/2023	Gray Non-Fibrous Homogenous	PLM 2% Cellulose PLM Trace Fiberglass	PLM 98% Other	PLM None Detected
1576153 6-RM-C Layer-1 Analyst:	Roofing Material Shelby Fogelsong	Gray Non-Fibrous Homogenous	PLM 1% Cellulose PLM Trace Fiberglass	PLM 99% Other	PLM None Detected



Certificate of Analysis

Polarized Light Microscopy Asbestos Analysis Report

To: Atlas - Novi

ETL Job: 260995

Client Project: 188BS23599

46555 Humboldt Dr. Suite 100 Novi, Michigan 48377

Date Collected: 08/25/2023 **Date Received: 09/05/2023**

Location: 1706 N Church Street, Kalamazoo, MI 49007

City of Kalamazoo ACM Survey

Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Asbestos
1576154 7-WB-A	Wallboard	White Non-Fibrous Homogenous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	: Shelby Fogelsong 09/08/2023				
1576155 7-WB-B	Wallboard	White Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	: Shelby Fogelsong 09/08/2023	Homogenous			
1576156 7-WB-C	Wallboard	White Non-Fibrous	PLM 3% Cellulose	PLM 97% Other	PLM None Detected
Layer-1 Analyst: Date Analyzed :	: Shelby Fogelsong 09/08/2023	Homogenous			

Elm kilini

Analyst:

Lab Supervisor/Other Signatory

Shelby Fogelsong

Shelby fogusong

Item 198.1: PLM Methods for Identifying and Quantitating Asbestos in Bulk Samples

Item 198.6: PLM Methods for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples

EPA 600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials

EPA 600/M4-82-020: Interim Method for Determination of Asbestos in Bulk Insulation Samples

A % Asbestos result of "Trace" indicates that the analyzed material was found to contain less than 1% asbestos and would not be considered an Asbestos Containing Material (ACM).



ENVIRONMENTAL TESTING LABORATORIES, INC
38900 HURON RIVER DRIVE
ROMULUS, MICHIGAN 48174
(734) 955-6600
FAX: (734) 992-2261

Bulk Asbestos Chain of Custody

www.2etl.com

ETL Project #: 260995

Client: ATC Group Services		Contact: Rob Smith	Project	1708 N CHURCH STREET , KALAMAZOO, MICHIGAN 49007 /		
		Phone: 248-669-5140	Location/name:			
Address:	46555 Humboldt Dr. Ste.	Fax: 248-669-5147		CITY OF KALAMAZOO ACM SURVEY 1888S23599		
	100 Novi, MI 48377	E-mail: robert.smith@atcgs.com	Client Project #:			
Please Provid	e Results: Email F	ax Uerbal Other	Date Sampled:	8/25/2023		
Turnarou	nd Time (TAT): RUS	H ☐ Same Day ☐ 24 hr ☐ 48 hr	☐ Standard (3-5 days)	X Other 72 hours		
		PLM Instructions (Check all that apply)				
X PLM EPA600/R-93/116, 1993 (Standard method)			X Stop at 1st F	X Stop at 1st Positive -		
Point Counting: ☐ 400 Points* ☐ NYSDOH ELAP 198.1, 2002*				Clearly mark Homogenous Group		
□ Gravimetric	Reduction* □ NYSDOH E	LAP 198.6, 2010*				
□ PLM Non-Building Material (Dust, Wipe, Tape)			☐ Soil or Vermi	□ Soil or Vermiculite Analysis*		
* Additional charg	ge and turnaround may be req	uired				
Lab ID	Sample ID	Meterial Description				

Lab ID	Sample ID	Material Description	Sample Location	QUANTITY
13613713	q 1-RM-A,B,C	Roofing material - asphalt shingle	EA-5	600 SF
39 1401	2-CC-A,B,C	Concrete chip - garage foundation	EA-1,2,3,4	80 SF
42 143 1	44 3-EC-A,B,C	Exterior caulk - white, on wood siding, window/door frames	EA-1,2,3,4	50 LF
45 1461	17 4-WG-A,B,C	Window glaze - off-white, brittle, window exterior (11/2" windows)	EA-2, 4	3 windows
98 149 1	50 5-WG-A,B,C	Window glaze - replacement glaze, white, soft, window exterior (1x2' windows)	EA-2,4	3 windows
5/ 1521	6-RM-A,B,C	Roofing material - asphalt shingle, stack in garage interior	FS-1	4 bundles
54 155 1.	56 7-WB-A,B,C	Wallboard - sheet of wallboard	FS-1	20 SF
	End of COC	End of COC	End of COC	End of COC

		Date	Time
Relinquished (Name/Organization);	Andrew DeLodder / Atlas Technical Consultants	8/25/2023	5:00pm
Received (Name/ETL):	Xn	- 9.5.23	1535 am/p
Sample Login (Name/ETL):	xh.	9.5.23	1529 am/g
Stereoscopical/Sample Analysis (Name/ETL)	In tim	9/8/23	[[]] am/p
Results (Name/ETL):	In fun	918173	[[]] am/p
QA/QC Review (Name/ETL):	Xn	- 9.8.23	1125 am/p
pecial Instructions: 1st Positive Stop;	ples if any layer of system is GREATER than 1% asbestos;	Remarks	
Point Count ALL PLASTER samples Trace to 3% Point Count ALL SAMPLES Trace to 1% asbesto	asbestos content		
TOUR SOUTH ALL SAMPLES TIACE to 174 aspesto	s content		

RE RESULTS BY SPECIFIED TAT, THE LAB MUST BE EMAILED/CALLED WITH THE QUANTITY OF SAMPLES TO BE SHIPPED OR DROPPED

ATTACHMENT B PHOTOGRAPHS

ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1708 N CHURCH STREET KALAMAZOO, MICHIGAN 49007



View of the west side of the garage exterior (EA-1)



View of the north side of the garage exterior (EA-2)



ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1708 N CHURCH STREET KALAMAZOO, MICHIGAN 49007



View of the east side of the garage exterior (EA-3)



View of the south side of the garage exterior (EA-4)



ASBESTOS-CONTAINING MATERIAL SURVEY VACANT RESIDENTIAL PROPERTY 1708 N CHURCH STREET KALAMAZOO, MICHIGAN 49007



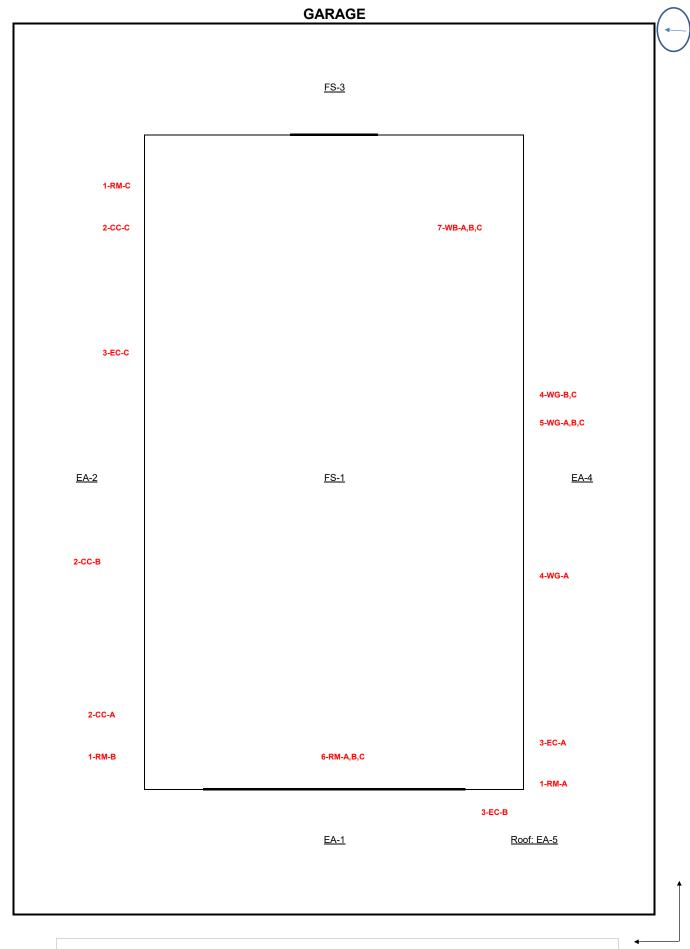
View of the garage roof (EA-5)



View of the garage interior (FS-1)



ATTACHMENT C FUNCTIONAL SPACE MAPS



Street Address: 1708 N Church Street, Kalamazoo, Michigan 49007

