



ENVIRONMENTAL TESTING SERVICES

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## ASBESTOS SCREENING REPORT



Rosedale Tower  
2314 W 39th Ave  
Kansas City, Kansas 66103

### PREPARED FOR CLIENT:

Milton Scott  
Executive Director  
Housing Authority of Kansas City, KS  
1124 North 9th Street  
Kansas City, Kansas 66101  
(913) 281-3300

### PREPARED BY:

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HE Project No.: 170802-01MK

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**ENVIRONMENTAL CONSULTANT:**  
**HERNLY ENVIRONMENTAL, INC.**

INSPECTOR:	<u>Michelle Nelson</u>	<u>8/28/2017</u>
	Name	Date
INSPECTOR:	<u>Katie L. Burnham</u>	<u>8/28/2017</u>
	Name	Date

**NOTICE:** This entire report and all subsequent attachment pages (hereafter referred to as Report) represent the on-going work product of **Hernly Environmental, Inc.** This Report is intended solely for the purpose of use by reference for the Contracting Agency or Client and only for the above-indicated property. Due to the fact that this Report represents the on-going work product of **Hernly Environmental, Inc.**, the information presented therein is considered privileged and confidential. Any use of this characterization report information for any purpose other than the intended review by the specific party named above is strictly prohibited. No part of this report may be in any way distributed or copied, without the expressed written consent and permission of **Hernly Environmental, Inc.** If any written consent and permission is granted, this report must be copied in its entirety and distributed only to the specific party to whom the consent and permission is granted.

## 1.0 INTRODUCTION

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### 1.1 Executive Summary

On 8/2/2017, a pre-renovation asbestos screening was completed at 2314 W 39th Ave in Kansas City, Kansas by Michelle Nelson & Katie Burnham of Hernly Environmental, Inc. The purpose of the inspection was to determine the presence, of ACM (asbestos containing building materials) or suspected ACM at visible and readily accessible *client specified* areas of the interior of the subject structure. A total of 59 samples were collected of items of concern. The analytical results indicated that 48 of the 59 samples collected contained greater than 1% asbestos (per OSHA standards). Please see the section of this report entitled *Findings* for a detailed list of all asbestos-containing materials identified or assumed to be present.

### 1.2 Procedures

The following is a brief overview of the activities that took place during this inspection:

- Information was gathered from the Client regarding the reasons for requesting an asbestos inspection, and the specific building materials/areas of concern.
- All readily accessible and immediately available client specified suspect materials were sampled and quantified in randomly selected units.
- Samples were submitted to an NVLAP accredited laboratory for analysis.

### 1.3 Findings

On 8/2/2017, a pre-renovation asbestos screening was completed at 2314 W 39th Ave in Kansas City, Kansas by Michelle Nelson & Katie Burnham of Hernly Environmental, Inc. The purpose of the inspection was to determine the presence, of ACM (asbestos containing building materials) or suspected ACM at visible and readily accessible *client specified* areas of the interior of the subject structure. Only areas suspected to be disturbed in upcoming renovations were sampled. A total of 59 samples (analyzed as 115 separate layers) were collected of items of concern. If renovation and/or demolition work is conducted within the building, it is possible that additional suspect materials will be discovered behind walls, between floors, under flooring materials such as carpet or multiple layers of vinyl flooring, etc. Further testing is recommended if additional suspect materials are exposed. **The analytical results indicated that 48 of the 59 samples collected contained greater than 1% asbestos (per OSHA standards). Please see below for a detailed list of all asbestos-containing materials identified or assumed to be present.**

Based on conversations with the Client, it is understood that the subject building is going update the main floor public restrooms and parking lot for ADA compliance, replace HVAC air handlers, and add fire sprinklers to individual units. Please remember that all work involving ACM should always be conducted by properly trained and accredited workers utilizing the required containment, signage, and protective equipment.

## IDENTIFIED ACBM UNDER \*\*EPA (NESHAPS) STANDARDS

Sample #	Item Description	Location	*Approx. Amount
224723-01	Ceiling texture	Unit #1209	Throughout unit - 787sf
224723-03	Ceiling texture	Unit #1107	Throughout unit - 514sf
224723-07	Ceiling texture	Unit #903	Throughout unit - 514sf
224723-09	Ceiling texture	Unit #904	Throughout unit - 514sf
224723-11	Ceiling texture	Unit #804	Throughout unit - 514sf
224723-13	Ceiling texture	Unit #707	Throughout unit - 514sf
224723-17	Ceiling texture	Unit #505	Throughout unit - 514sf
224723-19	Ceiling texture	Unit #402	Throughout unit - 514sf
224723-21	Ceiling texture	Unit #307	Throughout unit - 514sf
224724-3	Ceiling texture	Unit #1104	Throughout unit - 514sf
224724-5	Ceiling texture	Unit #1103	Throughout unit - 514sf
224724-7	Ceiling texture	Unit #1101	Throughout unit - 514sf
224724-9	Ceiling texture	Unit #905	Throughout unit - 514sf
224724-11	Ceiling texture	Unit #807	Throughout unit - 514sf
224724-13	Ceiling texture	Unit #704	Throughout unit - 514sf
224724-15	Ceiling texture	Unit #610	Throughout unit - 514sf
224724-17	Ceiling texture	Unit #503	Throughout unit - 514sf
224724-19	Ceiling texture	Unit #509	Throughout unit - 787sf
224724-21	Ceiling texture	Unit #304	Throughout unit - 514sf
224724-23	Ceiling texture	Unit #308	Throughout unit - 514sf
224724-25	Ceiling texture	Unit #211	Throughout unit - 514sf

\*Contractors shall field verify all dimensions and measurements

**\*\*EPA allows compositing of drywall and joint compound as a single wall system. When analyzed in this way, asbestos concentrations are typically <1%. Conversely, OSHA requires that the mud and drywall be analyzed separately. When analyzed this way, the joint compound is often found to contain >1% asbestos.**

## IDENTIFIED ACBM UNDER \*\*OSHA STANDARDS

Sample #	Item Description	Location	*Approx. Amount
224273-01	Ceiling Texture	Unit #1209	Throughout unit - 787sf
224273-02	Joint Compound	Unit #1209	Throughout unit at drywall seams, nail holes, and patches
224273-03	Ceiling Texture	Unit #1107	Throughout unit - 514sf
224273-04	Joint Compound	Unit #1107	Throughout unit at drywall seams, nail holes, and patches
224273-06	Joint Compound	Unit #1104	Throughout unit at drywall seams, nail holes, and patches
224273-07	Ceiling Texture	Unit #903	Throughout unit - 514sf
224273-08	Joint Compound	Unit #903	Throughout unit at drywall seams, nail holes, and patches
224273-09	Ceiling Texture	Unit #904	Throughout unit - 514sf
224273-10	Joint Compound	Unit #904	Throughout unit at drywall seams, nail holes, and patches
224273-11	Ceiling Texture	Unit #804	Throughout unit - 514sf
224273-12	Joint Compound	Unit #804	Throughout unit at drywall seams, nail holes, and patches
224273-13	Ceiling Texture	Unit #707	Throughout unit - 514sf
224273-14	Joint Compound	Unit #707	Throughout unit at drywall seams, nail holes, and patches
224273-16	Joint Compound	Unit #501	Throughout unit at drywall seams, nail holes, and patches
224273-17	Ceiling Texture	Unit #505	Throughout unit - 514sf

224273-18	Joint Compound	Unit #505	Throughout unit at drywall seams, nail holes, and patches
224273-19	Ceiling Texture	Unit #402	Throughout unit – 514sf
224273-20	Joint Compound	Unit #402	Throughout unit at drywall seams, nail holes, and patches
224273-21	Ceiling Texture	Unit #307	Throughout unit – 514sf
224273-22	Joint Compound	Unit #307	Throughout unit at drywall seams, nail holes, and patches
224273-24	Joint Compound	Unit #210	Throughout unit at drywall seams, nail holes, and patches
224724-01	Ceiling Texture	Unit #1203	Throughout unit – 514sf
224724-02	Joint Compound	Unit #1203	Throughout unit at drywall seams, nail holes, and patches
224724-03	Ceiling Texture	Unit #1104	Throughout unit – 514sf
224724-04	Joint Compound	Unit #1104	Throughout unit at drywall seams, nail holes, and patches
224724-05	Ceiling Texture	Unit #1103	Throughout unit – 514sf
224724-06	Joint Compound	Unit #1103	Throughout unit at drywall seams, nail holes, and patches
224724-07	Ceiling Texture	Unit #1011	Throughout unit – 514sf
224724-08	Joint Compound	Unit #1011	Throughout unit at drywall seams, nail holes, and patches
224724-09	Ceiling Texture	Unit #905	Throughout unit – 514sf
224724-10	Joint Compound	Unit #905	Throughout unit at drywall seams, nail holes, and patches
224724-11	Ceiling Texture	Unit #807	Throughout unit – 514sf
224724-12	Joint Compound	Unit #807	Throughout unit at drywall seams, nail holes, and patches
224724-13	Ceiling Texture	Unit #704	Throughout unit – 514sf
224724-14	Joint Compound	Unit #704	Throughout unit at drywall seams, nail holes, and patches
224724-15	Ceiling Texture	Unit #610	Throughout unit – 514sf
224724-16	Joint Compound	Unit #610	Throughout unit at drywall seams, nail holes, and patches
224724-17	Ceiling Texture	Unit #503	Throughout unit – 514sf
224724-18	Joint Compound	Unit #503	Throughout unit at drywall seams, nail holes, and patches
224724-19	Ceiling Texture	Unit #509	Throughout unit – 787sf
224724-20	Joint Compound	Unit #509	Throughout unit at drywall seams, nail holes, and patches
224724-21	Ceiling Texture	Unit #304	Throughout unit – 514sf
224724-22	Joint Compound	Unit #304	Throughout unit at drywall seams, nail holes, and patches
224724-23	Ceiling Texture	Unit #308	Throughout unit – 514sf
224724-24	Joint Compound	Unit #308	Throughout unit at drywall seams, nail holes, and patches
224724-25	Ceiling Texture	Unit #211	Throughout unit – 514sf
224724-26	Joint Compound	Unit #211	Throughout unit at drywall seams, nail holes, and patches
224724-31	Joint Compound	1 <sup>st</sup> floor mail room	Throughout room at drywall seams, nail holes, and patches

**\*Contractors shall field verify all dimensions and measurements**

**\*\*EPA allows compositing of drywall and joint compound as a single wall system. When analyzed in this way, asbestos concentrations are typically <1%. Conversely, OSHA requires that the mud and drywall be analyzed separately. When analyzed this way, the joint compound is often found to contain >1% asbestos.**

## ASSUMED ACBM

ASSUMED MATERIAL	ASSUMED ACBM LOCATION
Ceiling texture	All untested textured ceilings throughout building
Joint compound	All untested areas throughout building (**per OSHA standards)
Vibration dampener fabric	Air handler -Mechanical Room

## **1.4 Conditions & Limitations**

Staff of Hernly Environmental, Inc. has performed the Client requested tasks listed above in a thorough and professional manner consistent with commonly accepted standard industry practices, using state of the art practices and best available known technology, as of the date of the assessment. The inspection was intended to locate visible and readily accessible asbestos-containing materials (ACM) and did not include destructive or invasive sampling. Therefore Hernly cannot guarantee that this Inspection has identified all asbestos-containing materials present at the subject property on the date of the Assessment. All quantities of asbestos-containing materials listed in this report are approximate and should not be used for the purpose of obtaining bids from asbestos contractors or for use in writing a scope of asbestos-related work. All quantities and locations should be confirmed by the asbestos abatement company before entering into any contractual agreements. Hernly cannot and will not warrant that the Inspection that was requested by the client will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards.

The results reported and conclusions reached by Hernly are solely for the benefit of the client. The results and opinions in this report, based solely upon the conditions found on the property as of the date of the Assessment, will be valid only as of the date of the Assessment. Hernly assumes no obligation to advise the client of any changes in any real or potential asbestos hazards at this structure that may or may not be later brought to our attention. Further conditions and limitations to this contracted report are included in the general terms and conditions supplied to the client with the contract for services.

**APPENDIX A**  
**LABORATORY TESTING DATA**

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**Analysis Report**

**Schneider Laboratories Global, Inc**

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** Hernly Environmental, Inc. (2193)  
**Address:** 1100 Rhode Island Street  
 Lawrence, KS 66044

**Order #:** 224723

**Attn:**

**Project:** Rosedale Tower  
**Location:** KC, KS  
**Number:** 170802-01MK

**Received** 08/07/17  
**Analyzed** 08/07/17  
**Reported** 08/10/17

**PO Number:**

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
224723-001	08/02/17	1	1209		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
224723-002	08/02/17	2	1209		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
224723-003	08/02/17	3	1107		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
224723-004	08/02/17	4	1107		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
224723-005	08/02/17	5	1004		
Layer 1: Ceiling Texture White, Granular				None Detected	100% NON FIBROUS MATERIAL

**Report Amended.** Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24 and reported "Ceiling Tile" samples as "Ceiling Texture".

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.



Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
224723-006	08/02/17	6	1004		
Layer 1:	Drywall			None Detected	5% CELLULOSE FIBER
	White, Powdery				95% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
Layer 3:	Drywall/Joint Cmpd			<1% CHRYSOTILE	2% CELLULOSE FIBER
	White, Powdery/Granular				98% NON FIBROUS MATERIAL
224723-007	08/02/17	7	903		
Layer 1:	Ceiling Texture			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
224723-008	08/02/17	8	903		
Layer 1:	Drywall			None Detected	5% CELLULOSE FIBER
	White, Powdery				95% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
Layer 3:	Drywall/Joint Cmpd			<1% CHRYSOTILE	2% CELLULOSE FIBER
	White, Powdery/Granular				98% NON FIBROUS MATERIAL
224723-009	08/02/17	9	904		
Layer 1:	Ceiling Texture			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
224723-010	08/02/17	10	904		
Layer 1:	Drywall			None Detected	5% CELLULOSE FIBER
	White, Powdery				95% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
Layer 3:	Drywall/Joint Cmpd			<1% CHRYSOTILE	2% CELLULOSE FIBER
	White, Powdery/Granular				98% NON FIBROUS MATERIAL
224723-011	08/02/17	11	804		
Layer 1:	Ceiling Texture			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24 and reported "Ceiling Tile" samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224723-012</b>	08/02/17	12	804		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-013</b>	08/02/17	13	707		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224723-014</b>	08/02/17	14	707		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-015</b>	08/02/17	15	501		
Layer 1: Ceiling Texture White, Granular				None Detected	100% NON FIBROUS MATERIAL
<b>224723-016</b>	08/02/17	16	501		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-017</b>	08/02/17	17	505		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24 and reported "Ceiling Tile"samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224723-018</b>	08/02/17	18	505		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-019</b>	08/02/17	19	402		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224723-020</b>	08/02/17	20	402		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-021</b>	08/02/17	21	307		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224723-022</b>	08/02/17	22	307		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224723-023</b>	08/02/17	23	210		
Layer 1: Ceiling Texture White, Granular				None Detected	100% NON FIBROUS MATERIAL


**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24 and reported "Ceiling Tile"samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
224723-024	08/02/17	24	210		
Layer 1:	Drywall			None Detected	5% CELLULOSE FIBER
	White, Powdery				95% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
Layer 3:	Drywall/Joint Cmpd			<1% CHRYSOTILE	2% CELLULOSE FIBER
	White, Powdery/Granular				98% NON FIBROUS MATERIAL
224723-025	08/02/17	25	Mech Rm		
Layer 1:	Pipe Material			None Detected	40% NON FIBROUS MATERIAL
	White/Blue, Fibrous				60% SYNTHETIC FIBER
224723-026	08/02/17	26	N Asphalt		
Layer 1:	Asphalt Material			None Detected	100% NON FIBROUS MATERIAL
	Black, Hard				
224723-027	08/02/17	27	N Sidewalk		
Layer 1:	Hard Material			None Detected	100% NON FIBROUS MATERIAL
	Beige, Hard				
224723-028	08/02/17	28	N		
Layer 1:	Joint Material			None Detected	100% NON FIBROUS MATERIAL
	Black, Hard				

EPA Regulatory Limit: 1%

Total layers analyzed on order: 52



Analyst Mohammed Hashim

224723-08/10/17 01:00 PM



Reviewed By: Hind Eldanaf

Microscopy Supervisor

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24 and reported "Ceiling Tile" samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.



**Analysis Report**

**Schneider Laboratories Global, Inc**

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

**Customer:** Hernly Environmental, Inc. (2193)  
**Address:** 1100 Rhode Island Street  
 Lawrence, KS 66044

**Order #:** 224724

**Attn:**  
**Project:** Rosedale Tower  
**Location:** KC, KS  
**Number:** 170802-01MK

**Received** 08/07/17  
**Analyzed** 08/07/17  
**Reported** 08/10/17

**PO Number:**

**Method:** EPA 600/R-93/116 & 600/M4-82-020

**PLM Analysis**

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
224724-001	08/02/17	1	1203 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
224724-002	08/02/17	2	1203 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
224724-003	08/02/17	3	1104 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
224724-004	08/02/17	4	1104 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
224724-005	08/02/17	5	1103 - BR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224724-006</b>	08/02/17	6	1103 - BRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-007</b>	08/02/17	7	1011 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-008</b>	08/02/17	8	1011 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-009</b>	08/02/17	9	905 - BR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-010</b>	08/02/17	10	905 - BRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-011</b>	08/02/17	11	807 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.



Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224724-012</b>	08/02/17	12	807 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-013</b>	08/02/17	13	704 - BR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-014</b>	08/02/17	14	704 - BRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-015</b>	08/02/17	15	610 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-016</b>	08/02/17	16	610 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-017</b>	08/02/17	17	503 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any asbestos content less than 10 percent be verified by PLM Point Count or TEM Analysis. The EPA recommends that any vermiculite should be treated as Asbestos Containing Material (ACM). This report must not be reproduced except in full with the approval of the laboratory. The test results reported relate only to the samples submitted.

Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224724-018</b>	08/02/17	18	503 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-019</b>	08/02/17	19	509 - Bath		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-020</b>	08/02/17	20	509 - Hall CL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-021</b>	08/02/17	21	304 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-022</b>	08/02/17	22	304 - LRCL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-023</b>	08/02/17	23	308 - BR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

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Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
<b>224724-024</b>	08/02/17	24	308 - BR		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-025</b>	08/02/17	25	211 - LR		
Layer 1: Ceiling Texture White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
<b>224724-026</b>	08/02/17	26	211 - BACL		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				2% CHRYSOTILE	98% NON FIBROUS MATERIAL
Layer 3: Drywall/Joint Cmpd White, Powdery/Granular				<1% CHRYSOTILE	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-027</b>	08/03/17	27	1st FI Mens		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound Beige, Granular				None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
<b>224724-028</b>	08/03/17	28	1st FI Ladies		
Layer 1: Drywall White, Powdery				None Detected	5% CELLULOSE FIBER 95% NON FIBROUS MATERIAL
Layer 2: Joint Compound White, Granular				None Detected	100% NON FIBROUS MATERIAL
<b>224724-029</b>	08/03/17	29	1st FI @ Mail Rm		
Layer 1: Floor Tile White, Organically Bound				None Detected	100% NON FIBROUS MATERIAL
Layer 2: Mastic Tan, Soft				None Detected	100% NON FIBROUS MATERIAL

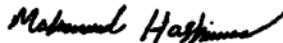
**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

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Method: EPA 600/R-93/116 & 600/M4-82-020				PLM Analysis	
Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
224724-030	08/03/17	30	1st Fl @ Mail Rm		
Layer 1:	Cove Base			None Detected	100% NON FIBROUS MATERIAL
	Gray, Rubbery				
Layer 2:	Mastic			None Detected	100% NON FIBROUS MATERIAL
	Tan, Soft				
224724-031	08/03/17	31	1st Fl @ Mail Rm		
Layer 1:	Drywall			None Detected	5% CELLULOSE FIBER
	White, Powdery				95% NON FIBROUS MATERIAL
Layer 2:	Joint Compound			2% CHRYSOTILE	98% NON FIBROUS MATERIAL
	White, Granular				
Layer 3:	Drywall/Joint Cmpd			<1% CHRYSOTILE	2% CELLULOSE FIBER
	White, Powdery/Granular				98% NON FIBROUS MATERIAL

EPA Regulatory Limit: 1%

Total layers analyzed on order: 63



Analyst Mohammed Hashim

224724-08/10/17 01:21 PM



Reviewed By: Hind Eldanaf

Microscopy Supervisor

**Report Amended. Per customer request, reported drywall / joint compound as a composite layer for samples 2,4,6,8,10,12,14,16,18,20,22,24,26,31 and reported "Ceiling Tile" samples as "Ceiling Texture".**

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**APPENDIX B**  
**PHOTO REFERENCE**

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Typical asbestos containing ceiling texture



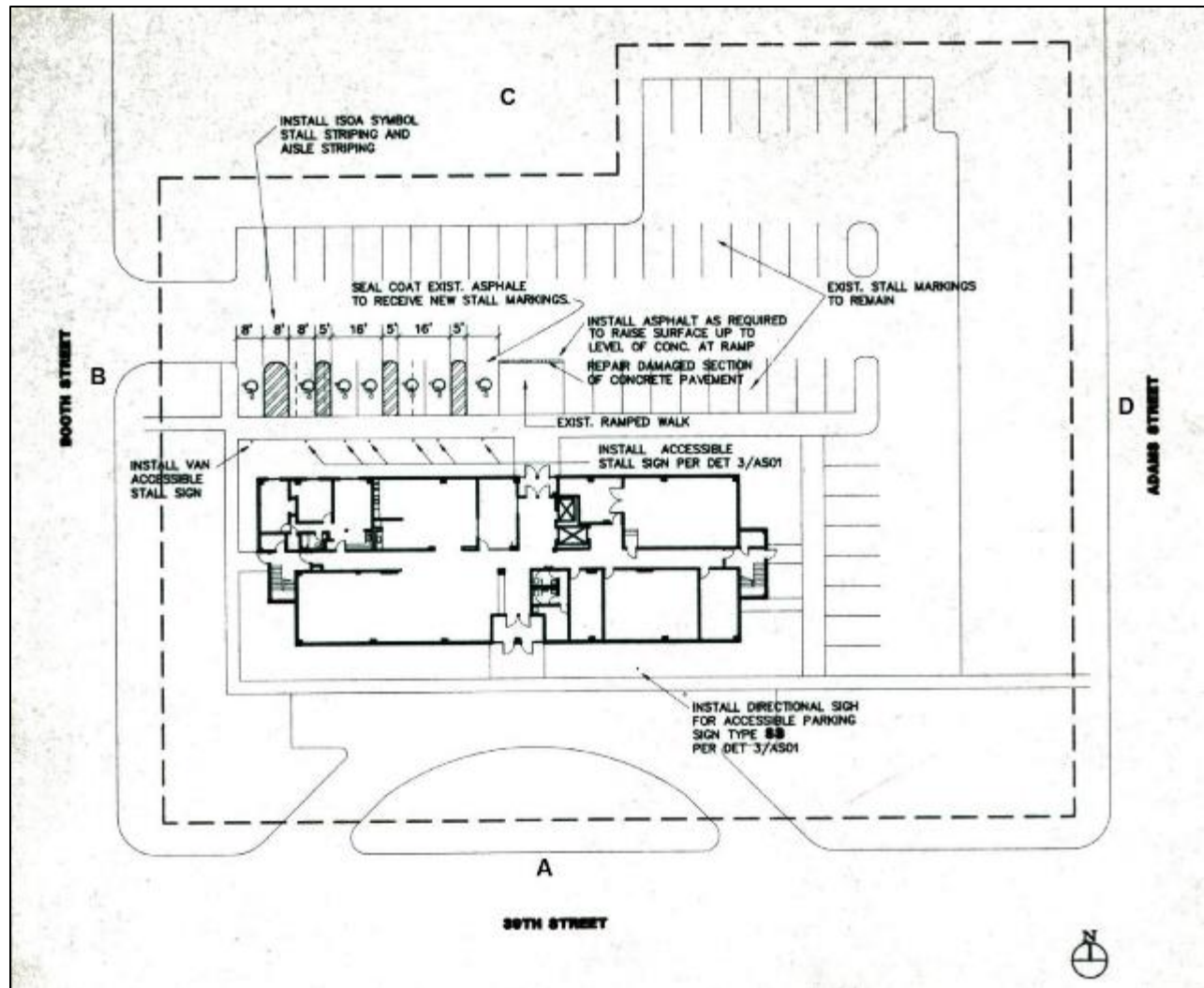
Typical asbestos containing joint compound



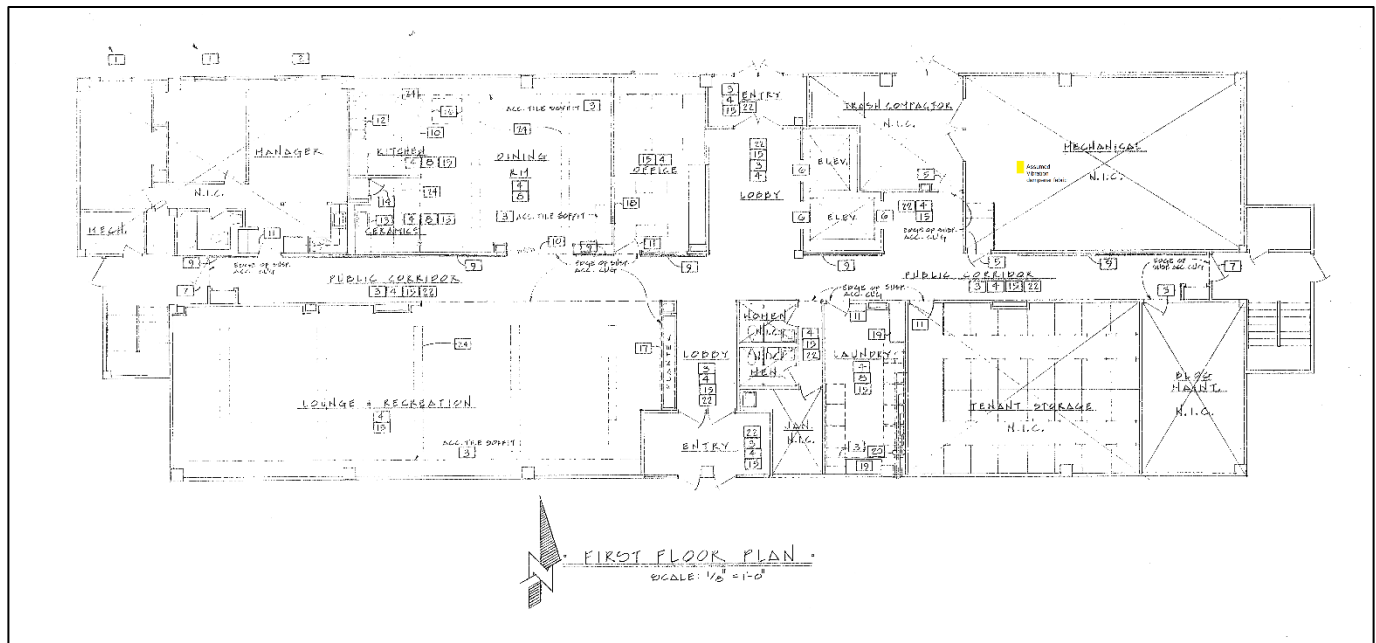
Vibration dampening fabric in mechanical room

**APPENDIX C**  
**SITE PLANS**

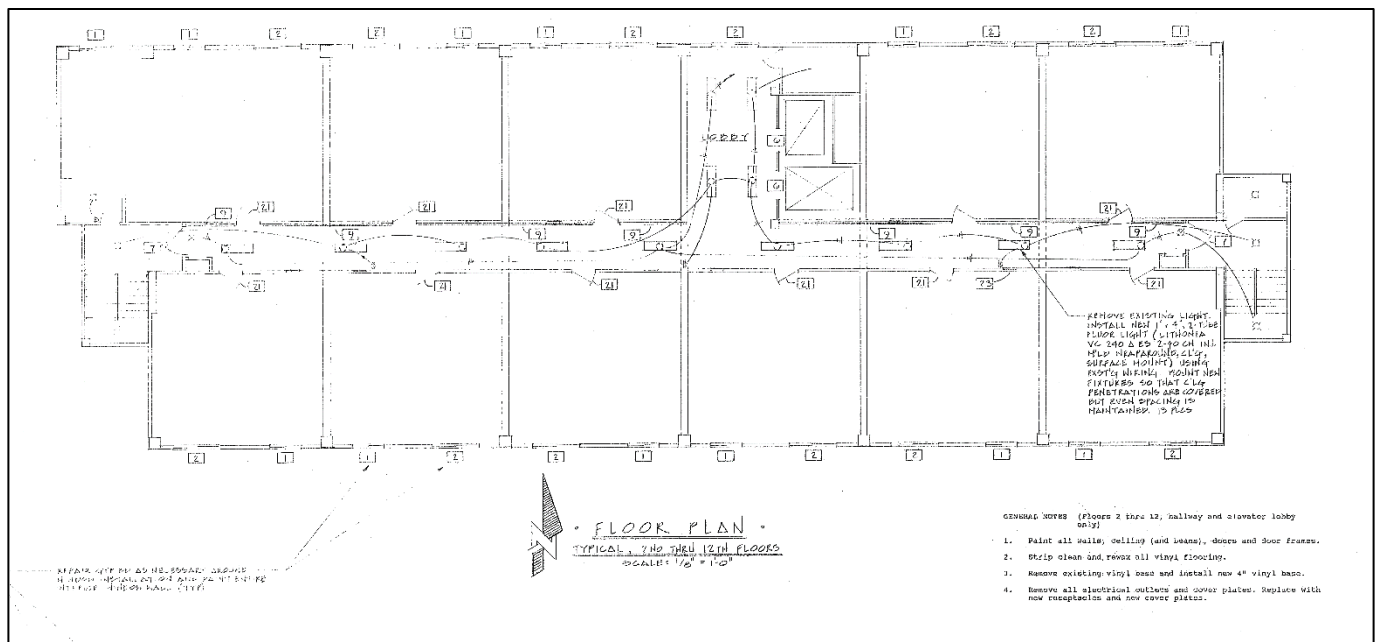
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Exterior Site Plan



**ASBESTOS CONTAINING CEILING TEXTURE & JOINT COMPOUND (PER OSHA STANDARDS) IDENTIFIED OR ASSUMED THROUGHOUT BUILDING, ASSUMED VIBRATION DAMPENING FABRIC IN MECHANICAL ROOM**



**APPENDIX D**  
**AHERA ASBESTOS INSPECTOR CERTIFICATES**

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