

Safety & Environmental Investigations, Inc.



ASBESTOS / LEAD PAINT INSPECTION REPORT

**Cherokee Village Hospital
122 Hospital Drive
Cherokee Village, Arkansas 72529**

February 2017

ASBESTOS / LEAD PAINT INSPECTION REPORT

**Cherokee Village Hospital
122 Hospital Drive
Cherokee Village, Arkansas 72529**

February 2017

Prepared For:

**FTN Associates, Ltd
3 Innwood Circle, Ste 320
Little Rock, Arkansas 72211**

Prepared By:

**Safety & Environmental Investigations, Inc.
PO Box 22038
Little Rock, Arkansas 72221**

**Asbestos / Lead Paint Inspection Report
Cherokee Village Hospital
122 Hospital Drive
Cherokee Village, Arkansas 72529**

Safety & Environmental Investigations, (SEI) Inc. was retained by FTN Associates of Little Rock, Arkansas to perform pre-demolition asbestos and lead paint inspection of the Cherokee Village Hospital located at 122 Hospital Drive, Cherokee Village, Arkansas. On December 19th – 20th, 2016, Mr. Robert Roberson (Certification #011542) and Mr. Ricky Barton (Certification #000296) of SEI, Inc. (License #000260) performed the on-site inspection and sampling of the vacant commercial structure for the presence of suspect asbestos-containing materials and lead-based paints. The inspection was performed following EPA AHERA guidelines (40 CFR 763) and NESHAP (40 CFR 61, Subpart M) and the Arkansas Department of Environmental Quality, Regulation 21.

Background

The structure is a single-story, metal-framed, brick structure with a flat built-up roof set on a concrete foundation. The structure was previously used as a hospital but at the time of the inspection was vacant and in poor condition. The interior finishes of the structure included lay-in ceiling tiles, sheet rock and plaster walls with tile and linoleum flooring. According to the client, the structure was built in the 1970's and is scheduled for future demolition.

Purpose of Study

The purpose of this study was to identify and collect samples of suspect asbestos-containing materials and lead-based paint from the vacant structure for laboratory analysis. At the client's request, an inspection for the presence of suspect asbestos-containing materials was performed of the entire structure. Identified asbestos-containing materials have been quantified.

Sampling was performed in accordance with guidelines published in the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR Part 763. Suspect asbestos-containing materials were divided into three different categories: surfacing, thermal system insulation, and miscellaneous materials. Each category of materials was divided into homogeneous areas, which are defined as materials similar in appearance, color, texture, and installation date. Samples were collected from each homogeneous area according to the following scale:

Surfacing Materials:	<1000 sq. ft.	3 Samples
	1,000 – 5,000 sq. ft.	5 Samples
	>5,000 sq. ft.	7 Samples
Thermal System Insulation	any amount	3 Samples Minimum
Miscellaneous Materials	any amount	2 Samples Minimum

The Environmental Protection Agency defines an asbestos-containing material as any material which contains greater than one percent (1%) asbestos by weight. The entire homogeneous area is classified as asbestos-containing if any one (1) of the samples collected from that area is found to contain more than 1% asbestos. All samples collected from a homogeneous material must reveal a result of one (1) percent asbestos or less for a material to be considered non-asbestos containing.

The condition of suspect homogeneous areas was assessed to determine if the materials were friable (RACM) or non-friable. Friable materials (RACM) are materials that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. Non-Friable materials are materials that cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry. Non-Friable materials are divided into two categories, Category I Non-Friable materials, (asbestos-containing packing, gaskets, resilient floor coverings, and asphalt roofing products that contain >1% asbestos), and Category II Non-Friable materials (any material, excluding category I non-friable ACM, containing >1% asbestos that cannot be crumbled, pulverized, or reduced to powder by hand pressure).

Asbestos samples were analyzed via Polarized Light Microscopy utilizing EPA Method 600/R-93/116 by Crisp Analytical Laboratories, LLC. Carrollton, Texas. CA Labs is accredited by the National Institute for Standards and Testing, National Voluntary Laboratory Accreditation Program for Bulk Asbestos Analysis (NVLAP Air and Bulk #200349-0). It should be noted EPA NESHAPS recommends point-counting of positive asbestos results revealing less than 10% asbestos content by visual estimation. Lead Paint Samples were also analyzed by CA Labs utilizing Method SW-846-7420.

Findings: Asbestos-containing Materials

The following table provides a summary of the suspect materials sampled from the structure, along with the analytical results and locations of the materials.

**Table I – Asbestos Sample Summary
Main Hospital Structure
122 Hospital Drive**

HA#	Sample No.	Description	Analysis Result %/Type ACM	Sample Location
FT01	01	12x12 Tan Floor Tile / Black Mastic	Tile: 2% Chrysotile Mastic: None Detected	North Wing
	02	12x12 Tan Floor Tile / Black Mastic	Tile: 2% Chrysotile Mastic: None Detected	North Wing
CT01	03	2x4 Ceiling Tile	None Detected	North Wing
	04	2x4 Ceiling Tile	None Detected	North Wing

**Table I – Asbestos Sample Summary, Continued
Main Hospital Structure
122 Hospital Drive**

HA#	Sample No.	Description	Analysis Result %/Type ACM	Sample Location
CB01	05	Black Cove Base / Mastic	None Detected	North Wing
	06	Black Cove Base / Mastic	None Detected	North Wing
CB02	07	Green Cove Base / Mastic	None Detected	North Wing
	08	Green Cove Base / Mastic	None Detected	North Wing
SR01	09	Sheet Rock / Mud	None Detected	North Wing
	10	Sheet Rock / Mud	None Detected	North Wing
M01	11	Mud Seal Above Ceiling Tile	None Detected	North Wing
	12	Mud Seal Above Ceiling Tile	None Detected	North Wing
FP01	13	Fireproof Spray Above Ceiling	2% Chrysotile	North Wing
	14	Fireproof Spray Above Ceiling	2% Chrysotile	North Wing
	15	Fireproof Spray Above Ceiling	3% Chrysotile	North Wing
L01	16	Gold Linoleum under Carpet	24% Chrysotile	North Wing
	17	Gold Linoleum under Carpet	24% Chrysotile	North Wing
FT02	18	12x12 Tan Floor Tile / Black Mastic	Tile: 2% Chrysotile Mastic: None Detected	NW Wing
	19	12x12 Tan Floor Tile / Black Mastic	Tile: 2% Chrysotile Mastic: None Detected	NW Wing
CT02	20	2x4 Ceiling Tile	None Detected	NW Wing
	21	2x4 Ceiling Tile	None Detected	NW Wing
CB03	22	Black Cove Base / Mastic	None Detected	NW Wing
	23	Black Cove Base / Mastic	None Detected	NW Wing
CB04	24	Green Cove Base / Mastic	None Detected	NW Wing
	25	Green Cove Base / Mastic	None Detected	NW Wing
SR02	26	Sheet Rock / Mud	None Detected	NW Wing
	27	Sheet Rock / Mud	None Detected	NW Wing

Table I – Asbestos Sample Summary, Continued
Main Hospital Structure
122 Hospital Drive

HA#	Sample No.	Description	Analysis Result %/Type ACM	Sample Location
FP02	28	Fire Proofing Above Ceiling	2% Chrysotile	NW Wing
	29	Fire Proofing Above Ceiling	3% Chrysotile	NW Wing
	30	Fire Proofing Above Ceiling	3% Chrysotile	NW Wing
L02	31	Linoleum under Carpet	24% Chrysotile	NW Wing
	32	Linoleum under Carpet	25% Chrysotile	NW Wing
L03	33	Rubberized Flooring	None Detected	NW Wing
	34	Rubberized Flooring	None Detected	NW Wing
FT03	35	12x12 Tan Floor Tile / Mastic	Tile: 2% Chrysotile Mastic: None Detected	South Wing
	36	12x12 Tan Floor Tile / Mastic	Tile: 2% Chrysotile Mastic: None Detected	South Wing
CT03	37	2x4 Lay-in Ceiling Tile	None Detected	South Wing
	38	2x4 Lay-in Ceiling Tile	None Detected	South Wing
L04	39	Tan Linoleum	None Detected	South Wing
	40	Tan Linoleum	None Detected	South Wing
PL01	41	Plaster Walls	None Detected	South Wing
	42	Plaster Walls	None Detected	South Wing
	43	Plaster Walls	None Detected	South Wing
M02	44	Mud Seal Above Ceiling	None Detected	South Wing
	45	Mud Seal Above Ceiling	None Detected	South Wing
CT04	46	2x4 Lay-in Ceiling Tile	None Detected	Admin Wing
	47	2x4 Lay-in Ceiling Tile	None Detected	Admin Wing
CT05	48	2x4 Lay-in Ceiling Tile	None Detected	Boiler Wing
	49	2x4 Lay-in Ceiling Tile	None Detected	Boiler Wing

**Table I – Asbestos Sample Summary, Continued
Main Hospital Structure
122 Hospital Drive**

HA#	Sample No.	Description	Analysis Result %/Type ACM	Sample Location
TS01	50	80lb Steam over Serving Line	None Detected	Boiler Wing
	51	80lb Steam over Serving Line	None Detected	Boiler Wing
	52	80lb Steam over Serving Line	None Detected	Boiler Wing
CB04	53	Brown Cove Base / Mastic	None Detected	Boiler Wing
	54	Brown Cove Base / Mastic	None Detected	Boiler Wing
SR03	55	Sheet Rock / Mud	None Detected	Boiler Wing
	56	Sheet Rock / Mud	None Detected	Boiler Wing
	57	Sheet Rock / Mud	None Detected	Boiler Wing
PI01	58	1" Hard Insulated Lines	None Detected	Boiler Wing
	59	1" Hard Insulated Lines	None Detected	Boiler Wing
	60	1" Hard Insulated Lines	None Detected	Boiler Wing
PI02	61	2-3" Insulated Lines	None Detected	Boiler Wing
	62	2-3" Insulated Lines	None Detected	Boiler Wing
	63	2-3" Insulated Lines	None Detected	Boiler Wing
PJ01	64	1" Line Elbows	None Detected	Boiler Wing
	65	1" Line Elbows	None Detected	Boiler Wing
	66	1" Line Elbows	None Detected	Boiler Wing
PJ02	67	Pipe Joint 2-3" Lines	None Detected	Boiler Wing
	68	Pipe Joint 2-3" Lines	None Detected	Boiler Wing
	69	Pipe Joint 2-3" Lines	None Detected	Boiler Wing
TS02	70	Boiler Feed Make-up Tank	None Detected	Boiler Wing
	71	Boiler Feed Make-up Tank	None Detected	Boiler Wing
	72	Boiler Feed Make-up Tank	None Detected	Boiler Wing

**Table I – Asbestos Sample Summary, Continued
Main Hospital Structure
122 Hospital Drive**

HA#	Sample No.	Description	Analysis Result %/Type ACM	Sample Location
TS03	73	Heat Exchanger Insulation	None Detected	Boiler Wing
	74	Heat Exchanger Insulation	None Detected	Boiler Wing
	75	Heat Exchanger Insulation	None Detected	Boiler Wing
TS04	76	Main Feed Line Flange	None Detected	Boiler Wing
PI03	77	1" Line in Hallways	None Detected	Hallway
	78	1" Line in Hallways	None Detected	Hallway
	79	1" Line in Hallways	None Detected	Hallway
PI04	80	2" Line in Hallways	None Detected	Hallway
	81	2" Line in Hallways	None Detected	Hallway
	82	2" Line in Hallways	None Detected	Hallway
C01	83	Door Caulking, Boiler Wing	None Detected	Boiler Wing
	84	Door Caulking, Boiler Wing	None Detected	Boiler Wing
C02	85	Exterior Caulking	2% Chrysotile	Exterior Doors
	86	Exterior Caulking	None Detected	Exterior Doors
	87	Exterior Caulking	None Detected	Exterior Doors
BR01	88	Built-up Roofing	None Detected	Roof
	89	Built-up Roofing	None Detected	Roof
	90	Built-up Roofing	None Detected	Roof
	91	Built-up Roofing	None Detected	Roof
	92	Built-up Roofing	None Detected	Roof
	93	Built-up Roofing	None Detected	Roof
RF01	94	Roof Flashing	16% Chrysotile	Roof
	95	Roof Flashing	18% Chrysotile	Roof

Table II below summarizes the location of the identified ACM.

**Table II – Positive
Asbestos-Containing Homogeneous Areas**

HA#	Material Description / Location	Type ACM	Condition	Quantity
FT01 FT02 FT03	12x12 Tan Floor Tile throughout rooms in each wing of the structure	Category I Non-Friable	Damaged	19,700 sf
FP01 FP02	Fireproofing Spray on Sheetrock above Ceiling Tiles throughout the structure	RACM	Good	6,200 sf
L01 L02	Gold Linoleum beneath Carpet in Hallways	Category I Non-Friable	Good	8,400 sf
C02	Door / Window Perimeter Caulking	Category II Non-Friable	Damaged	Exterior Doors and Windows
RF01	Roof Flashing around Air Handlers Throughout the Roof	Category II Non-Friable	Good	Roof Penetrations

SEI, Inc. has received the analytical results from the samples collected during the investigation. The results revealed the following materials were identified as Asbestos-Containing Materials (>1% Asbestos Content).

Homogeneous Area FT01, FT02, and FT03: This 12x12 Tan Floor Tile is located in the rooms on each wing of the structure. This material was considered a Category I Non-Friable material in good condition at the time of the inspection. The inspectors identified approximately 19,700 square feet of this material.

Homogeneous Area FP01, FP02: The Sprayed-on Fire Proofing is located on the sheetrock above the drop ceiling throughout the wings of the structure. This material was considered RACM in good condition at the time of the inspection. The inspectors identified approximately 6,200 square feet of this material.

Homogeneous Area L01, L02: This Gold Linoleum is located beneath the carpet in the hallway of the North Wing of the Structure. This material was considered a Category I Non-Friable material in good condition at the time of the inspection. The inspectors identified approximately 8,400 square feet of this material.

Homogeneous Area C02: This caulking is located on exterior doors and windows around the perimeter of the structure. This material was considered a Category II Non-Friable material in poor condition at the time of the inspection. The inspectors identified this material throughout the exterior windows and doors of the structure.

Homogeneous Area RF01: The Roof Flashing material is located around the air handler above the cafeteria / kitchen portion of the structure. This material was considered a Category II Non-Friable material in good condition at the time of the inspection. The inspectors identified this material on the roofing penetrations throughout the roof.

Findings – Lead-Based Paint

SEI, Inc. collected samples of painted surfaces by manually removing paint down to the substrate using a paint scraper. The inspector attempted to collect enough paint material to achieve minimal detection limits for the analytical method.

The inspectors identified suspect lead-based paint on interior walls, trim, structural steel and the incinerator. Chip samples were taken of these painted surfaces and composited for analysis.

Table III below summarizes the analytical results from the samples collected during the investigation.

Table III
Lead-Based Paint Sample Summary
Cherokee Village Hospital

Sample No.	Description / Location	Results (ppm)
MB-01	Main Building Interior Painted Trim	129.46
MB-02	Main Building Interior Painted Walls	<128.7
MB-03	Main Building Painted Structural Steel	<143.58
MB-04	Main Building Painted Incinerator	722.66

Samples were analyzed via EPA Method SW-846-742 Flame Atomic Absorption Spectroscopy by Crisp Analytical Laboratories.

EPA and HUD define lead-based paint as greater than 5,000 ppm or 0.5% by weight, and the Consumer Product Safety Commission definition is 600 ppm, or 0.06% by weight. However, this property does not fall under the jurisdiction of EPA or HUD, and levels should be compared to the Occupational Safety and Health Administration (OSHA) definition of lead-containing paint as having lead present “in any amount”. The painted interior trim and incinerator contained detectable levels of lead.

Discussion

The Arkansas Department of Environmental Quality (ADEQ) Regulation 21 requires all ACM (Asbestos-Containing Material) which are, or may become friable (RACM) be removed prior to renovation / demolition which will disturb these materials. Demolition, renovations, or response actions, involving RACM, and which are not Small-Scale-Short-Duration (SSSD) (3-square / 3-linear feet) or a minor fiber release episode shall be performed by an Arkansas-Licensed Asbestos Abatement Contractor. Category II Non-

Friable mastic which contains ACM that will be removed by sanding, grinding, cutting, or abrading shall be considered RACM per ADEQ Regulation 21.

A 10-Day Notice of Intent is also required for any demolition or removal of RACM exceeding 160 square or 260 linear feet.

Sample locations and the location of identified asbestos materials are identified on drawings included in the appendices of this report.

Other materials identified at the site, and deemed non-suspect for asbestos, include the following: fiberglass batt insulation, fiberglass pipe insulation.

Limitations

This report relates to the Main Hospital Structure located at 122 Hospital Drive, Cherokee Village, Arkansas. According to the client, the structure is scheduled for future demolition.

Asbestos samples were collected from materials identified as Homogeneous Materials based upon visual inspection of the site. SEI, Inc. is not responsible for assumptions on homogeneity which prove to be incorrect. In addition, samples collected represent only that portion of the entire homogeneous material. SEI, Inc. is not responsible for materials not identified and sampled due to the restraints on accessibility of the material. No warranties, expressed or implied, relate to the previous and/or future conditions.

During any operations involving renovation or demolition, suspect asbestos materials may be encountered which were not identified in this inspection. Work should immediately cease, and a certified inspector contacted for further sampling to identify those additional materials.

Asbestos Analysis was performed by Crisp Analytical Laboratories, LLC Carrollton, Texas. CA Labs is solely responsible for all analytical results contained in and referred to in this report.

This report prepared by:



Josh Roberson
Field Technician
Safety & Environmental Investigations, Inc.

APPENDICIES

FIELD LOGS

Safety & Environmental Investigations, Inc.
 P.O. Box 22038, Little Rock, AR 72221
 PH: (501) 227-8900 FX: (501) 227-7535

ASBESTOS SURVEY SHEET

Inspector: R. Roberson Date: 12/9-12/20
R. Roberson

Project Name: Cherokee Village
 SEI Project #: 16123

Homo Area #	Sam. #	Functional Space	Location and Description of Material (S/TSI/Misc)	Sample Location	F/NF	Cndn. (SD/D/C)	Pot. Damage (PSD/PD/L)	Square Feet of Material	Substrate/Comments
NORTH									
FT01	01		12X12 Tile/MASTIC TAN		NF	D	PSD		
	02		BL MASTIC						
CI01	03		2x4 Ceiling Tile		F	SD	PSD		
	04								
CB01	05		Black Cone BASE/MASTIC		NF	G	L		
	06		in Rooms						
CB02	07		Green Cone BASE/MASTIC		NF	G	L		
	08		HALLWAYS						
SRO1	09		Shelf Rock/Mud w/Anchor		NF	G	L		
	10								
M01	11		Mud Seal Above C. Tile - Rooms		F	G	PD		
	12								
FP01	13		Fireproof SPRAY on Skat Rock		F	G	PD		
	14		Above Prop Ceiling						
	15								
L01	16		Gold Linoleum under CAT-		NF	G	L		
	17		HALLWAYS						

FG Lines Above Tiles

Date of Construction: 1970's Description: _____

Safety & Environmental Investigations, Inc.

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ASBESTOS SURVEY SHEET

Project Name: Cherokee Village
 SEI Project #: 16123

Inspector: R. Robertson Date: 12/14-12/20
R. Barton

Homo Area #	Sam. #	Functional Space	Location and Description of Material (S/TSI/Misc)	Sample Location	F/NF	Cndn. (SD/D/G)	Pot. Damage (PSD/PD/L)	Square Feet of Material	Substrate/Comments
		NORTHWEST WING							
FT02	18		12x12 Tan Tile w/ black MASTIC		NF	G	PD		
CT02	20		2x4 Ceiling Tile Rm/HALL		F	G	PD		
	21								
CB03	22		black cone BASE - Rooms		NF	G	L		
	23								
LB04	24		Green Cove Base - HALLS		NF	G	L		
	25								
SR02	26		Blue Rock/Mud WALLS		NF	G	PD		
	27								
FP02	28		Fine Roofing SANDAY		F	G	PD		
	29		Above DROP Ceiling						
	30								
LO2	31		vinyl floor - HALLS and/or CARPET		NF	G	L		
	32								
LO3	33		Rubinized Flooring -		NF	G	L		
	34		Novelishment Rm						

Date of Construction: 1970's Description: _____

Safety & Environmental Investigations, Inc.
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ASBESTOS SURVEY SHEET

Project Name: Cherokee Village Inspector: R. Robertson Date: 10/19-12/20
 SEI Project #: 16123 R. Barton

Hono Area #	Sam. #	Functional Space	Location and Description of Material (S/TSI/Misc)	Sample Location	F/NF	Cndtn. (SD/D/G)	Pot. Damage (FSD/PD/L)	Square Feet of Material	Substrate/ Comments
SOUTH		WING							
FIB 35			12x12 TAN TILE/MASTIC		NF	G	PD		
36									
CT0337			2x4 Ceiling Tile		NF	G	PD		
38									
LO4 39			TAN Linoleum - Surgical		NF	G	L		
40			Suites						
PL01 41			PLASTER WALLS/Ceilings		NF	G	L		
42			Subg. Suites/Rec./CORRIDOR						
43									
CB03 44			Black Cement MASTIC SAME		NF	G	L		
45			Mud Sealant on SR - Above Door Ceiling						
ADMIN									
CT04 46			2x4 LAY-IN Ceiling Tile		F	G	PD		
47									

Date of Construction: 1970's Description: _____

Safety & Environmental Investigations, Inc.

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ASBESTOS SURVEY SHEET

Project Name: Cherokee Village
 SEI Project #: 16123

Inspector: R. Robertson Date: 12/20
R. Barton

Boiler room

Home Area #	Sam. #	Functional Space	Location and Description of Material (S/T/SI/Misc)	Sample Location	F/NF	Cndtn. (SD/D/G)	Pot. Damage (PSD/PD/L)	Square Feet of Material	Substrate/ Comments
GT05	48		2x4 Lamin Cedar File -		F	G	PD		
	49		Cafeteria						
BO1	50		80 lb Steam over Snowing Str		F	D	PSD		
	51								
	52								
CB04	53		Brown Core BASE/MASTIC		NF	G	L		
	54		Kitchen						
SR03	55		Sheet Rock/mud-Kitchen		NF	G	L		Cell behind wall
	56								
	57								
PI01	58		1" HVR Insulated Lines -		F	A	PSD		150'
	59		Boiler Room						
	60								
PI02	61		2+3" Lines Boiler Ra		F	G	PD		200'
	62								
	63								
PI01	64		1" Line Elbows		F	G	PD		21
	65								
	66								

Date of Construction: 1970's Description: _____

Safety & Environmental Investigations, Inc.
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ASBESTOS SURVEY SHEET

Project Name: Cherokee V. 11a/b/c Inspector: F. Robertson Date: 12/11/20
 SEI Project #: 16123 R. Barton

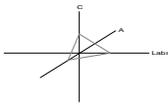
Homo Area #	Sam. #	Functional Space	Location and Description of Material (S/TSI/Misc)	Sample Location	F/NF	Cndn. (SD/D/G)	Pot. Damage (PSD/PD/L)	Square Feet of Material	Substrate/Comments
B502	67		Pipe Joint 2x3" Lines		F	D	PSD		41
	68		Boiler Room						
	69								
B502	70		Boiler Feed make-up Tank	END	F	D	PSD		5' x 30" D
	71			END					
	72			Side					
B503	73		Heat Exchanger - by Boiler #2		F	G	PD		4' x 24" D
	74								
	75								
B504	76		Flange on MAP Feed	Center	F	D	PSD		3' x 24" D
G-01	NA		Assumed Gaskets on Boiler						4' x 24" D
P503	77		1" Cal-Sil in BR Hall		F	G	PD		
	78								
	79								
B504	80		2" Cal-Sil BR Hall		F	G	PD		
	81		Throughout						
	82								
FD01/NA			Fire Doors - Assumed	Throughout					
			n 30 Throughout Patent Areas						
			Boiler FG						

Boilers FG 1970's Description: FG-1-6" Line chilled

LABORATORY ANALYSIS RESULTS

CA Labs
Dedicated to
Quality

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1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



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

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Safety & Environmental Investigations, Inc.

Attn: Robert Roberson

P.O. Box 22038
Little Rock, AR 72201

Customer Project: 16123, Cherokee Village Hospital
Reference #: CAL16128473CB

Date: 12/28/2016

Analysis and Method

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

Discussion

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

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

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

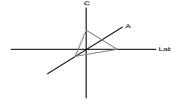
A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

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

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929



Overview of Project Sample Material Containing Asbestos

Customer Project:	16123, Cherokee Village Hospital	CA Labs Project #:	CAL16128473CB
Sample #	Layer Analysts Physical Description of # Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

FT01-01 01-1 tan floor tile **2% Chrysotile**

FT01-02 02-1 tan floor tile **2% Chrysotile**

FP01-13 13-1 white textured surfacing **2% Chrysotile**

FP01-14 14-1 white textured surfacing **2% Chrysotile**

FP01-15 15-1 white textured surfacing **3% Chrysotile**

L01-16 16-2 tan patterned linoleum **24% Chrysotile**

L01-17 17-2 tan patterned linoleum **24% Chrysotile**

FT02-18 18-1 tan floor tile **2% Chrysotile**

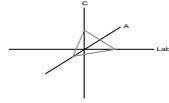
tan floor tile
white textured surfacing
tan patterned linoleum
black sealant
various black tar and black felt layers

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
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Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

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

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Overview of Project Sample Material Containing Asbestos

Customer Project:	16123, Cherokee Village Hospital		CA Labs Project #:	CAL16128473CB
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

FT02-19 19-1 tan floor tile **2% Chrysotile**

FP02-28 28-1 white textured surfacing **2% Chrysotile**

FP02-29 29-1 white textured surfacing **3% Chrysotile**

FP02-30 30-1 white textured surfacing **3% Chrysotile**

FP02-31 31-2 tan patterned linoleum **24% Chrysotile**

 32-1 tan patterned linoleum **25% Chrysotile**

FT03-35 35-1 tan floor tile **2% Chrysotile**

FT03-36 36-1 tan floor tile **2% Chrysotile**

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

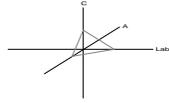
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| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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CA Labs
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 Fax 972-242-2798



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

Overview of Project Sample Material Containing Asbestos

Customer Project:	16123, Cherokee Village Hospital		CA Labs Project #:	CAL16128473CB
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

C02-85	85-1	black sealant	2% Chrysotile
RF01-94	94-1	various black tar and black felt layers	16% Chrysotile
RF01-95	95-1	various black tar and black felt layers	18% Chrysotile

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235
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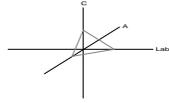
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ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson
Safety & Environmental Investigations, Inc.
P.O. Box 22038
Little Rock, AR 72201

Customer Project:
16123, Cherokee Village
Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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FT01-01		01-1		tan floor tile	y	2% Chrysotile		98% qu,ca
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		01-2		black mastic	y	None Detected		100% gy,bi
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FT01-02		02-1		tan floor tile	y	2% Chrysotile		98% qu,ca
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		02-2		black mastic	y	None Detected	1% ce	99% gy,bi
--	--	------	--	--------------	---	----------------------	-------	-----------

CT01-03		03-1		white drywall with brown paper	n	None Detected	26% ce	74% qu,gy
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CT01-04		04-1		white surfacing	y	None Detected		100% qu,bi
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		04-2		tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

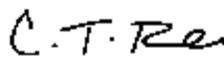
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:


Julio Robles
Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

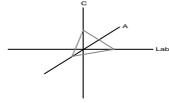
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson
Safety & Environmental Investigations, Inc.
 P.O. Box 22038
 Little Rock, AR 72201

Customer Project:
 16123, Cherokee Village
 Hospital
Turnaround Time:
 3 Days

CA Labs Project #:
 CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
 Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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CB01-05		05-1		black base board	y	None Detected		100% gy,ma
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		05-2		tan mastic	y	None Detected		100% gy,bi
--	--	------	--	------------	---	---------------	--	------------

CB01-06		06-1		black base board	y	None Detected		100% gy,ma
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		06-2		tan mastic	y	None Detected		100% gy,bi
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CB02-07		07-1		blue base board	y	None Detected		100% gy,ma
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		07-2		tan and brown mastic	n	None Detected		100% gy,bi
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CB02-08		08-1		blue base board	y	None Detected		100% gy,ma
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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

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

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Tanner Rasmussen
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QAC
 Leslie Crisp, P.G.

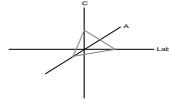
Technical Manager
 Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson Safety & Environmental Investigations, Inc. P.O. Box 22038 Little Rock, AR 72201	Customer Project: 16123, Cherokee Village Hospital	CA Labs Project #: CAL16128473CB
Phone # 501-227-8900 Fax # 501-227-7535	Turnaround Time: 3 Days	Date: 12/28/2016 Samples Received: 12/23/16 12pm Date Of Sampling: 12/19/16 Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	08-2		tan and brown mastic	n	None Detected		100% gy,bi
SR01-09	09-1		white compound	y	None Detected		100% qu,mi,ca
	09-2		white drywall with brown paper	n	None Detected	26% ce	74% qu,gy
SR01-10	10-1		tan surfaced white compound	n	None Detected		100% qu,mi,ca
	10-2		white drywall with brown paper	n	None Detected	26% ce	74% qu,gy
M01-11	11-1		white compound	y	None Detected		100% qu,mi,ca
	11-2		tan insulation	y	None Detected	100% fg	

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

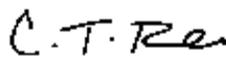
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

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Tanner Rasmussen
Analyst


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Leslie Crisp, P.G.

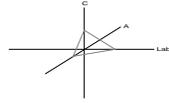
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
M01-12		12-1	white compound	y	None Detected		100% qu,mi,ca
		12-2	tan insulation	y	None Detected	100% fg	
FP01-13		13-1	white textured surfacing	y	2% Chrysotile	3% ta	95% qu,bi,ca
FP01-14		14-1	white textured surfacing	y	2% Chrysotile	2% ta	96% qu,bi,ca
FP01-15		15-1	white textured surfacing	y	3% Chrysotile	2% ta	95% qu,bi,ca
L01-16		16-1	tan mastic	y	None Detected		100% gy,bi
		16-2	tan patterned linoleum	y	24% Chrysotile		76% gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

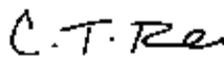
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

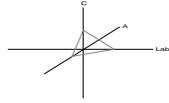
Technical Manager
Chad Lytle

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4 16-3 tan mastic

L01-17	17-1	tan mastic	y	None Detected	100% gy,bi
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	17-2	tan patterned linoleum	y	24% Chrysotile	76% gy,bi
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4 17-3 tan mastic

FT02-18	18-1	tan floor tile	y	2% Chrysotile	98% qu,ca
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	18-2	black mastic	y	None Detected	2% sy 98% gy,bi
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FT02-19	19-1	tan floor tile	y	2% Chrysotile	98% qu,ca
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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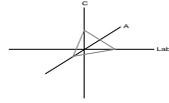
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Quality

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



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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson
Safety & Environmental Investigations, Inc.
P.O. Box 22038
Little Rock, AR 72201

Customer Project:
16123, Cherokee Village
Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	19-2			black mastic	y	None Detected	1% sy	99% gy,bi
CT02-20		20-1		white surfacing	y	None Detected		100% qu,bi
		20-2		tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca
CT02-21		21-1		white surfacing	y	None Detected		100% qu,bi
		21-2		tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca
CB03-22		22-1		black base board	y	None Detected		100% gy,ma
		22-2		tan mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

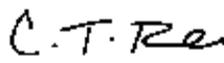
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix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

Approved Signatories:


Julio Robles
Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

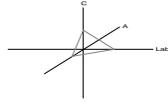
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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CB03-23		23-1		blue base board	y	None Detected		100% gy,ma
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		23-2		tan mastic	y	None Detected		100% gy,bi
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CB04-24		24-1		blue base board	y	None Detected		100% gy,ma
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		24-2		tan and brown mastic	n	None Detected		100% gy,bi
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CB04-25		25-1		blue base board	y	None Detected		100% gy,ma
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		25-2		tan and brown mastic	n	None Detected		100% gy,bi
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SR02-26		26-1		tan surfaced white compound	n	None Detected		100% qu,mi,ca
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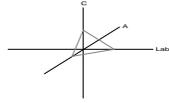
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Sample #	Com ment #	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	26-2			white compound (beneath tape)	y	None Detected		100% qu,mi,ca
SR02-27	27-1			blue surfaced white compound	n	None Detected		100% mi,bi,ca
	27-2			white drywall with brown paper	n	None Detected	26% ce	74% qu,gy
FP02-28	28-1			white textured surfacing	y	2% Chrysotile	2% ta	96% qu,mi,bi,ca
FP02-29	29-1			white textured surfacing	y	3% Chrysotile	2% ta	95% qu,mi,bi,ca
FP02-30	30-1			white textured surfacing	y	3% Chrysotile	2% ta	95% qu,mi,bi,ca
FP02-31	31-1			tan mastic	y	None Detected		100% gy,bi

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ma - matrix	qu - quartz	sy - synthetic	

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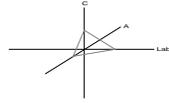
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	31-2	tan patterned linoleum			y	24% Chrysotile		76% gy,ma
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4	31-3	tan mastic						
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FP02-32	32-1	tan patterned linoleum			y	25% Chrysotile		75% gy,ma
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4	32-2	tan mastic						
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L03-33	33-1	tan rubber flooring			y	None Detected		100% qu,ma
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	33-2	tan mastic			y	None Detected		100% gy,bi
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L03-34	34-1	tan floor tile			y	None Detected		100% qu,ma
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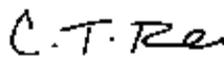
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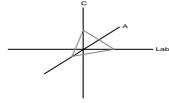
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		34-2		tan mastic	y	None Detected		100% gy,bi
FT03-35		35-1		tan floor tile	y	2% Chrysotile		98% qu,ca
		35-2		tan mastic	y	None Detected		100% gy,bi
FT03-36		36-1		tan floor tile	y	2% Chrysotile		98% qu,ca
		36-2		black mastic	y	None Detected		100% gy,bi
CT03-37		37-1		white surfacing	y	None Detected		100% qu,bi
		37-2		tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca

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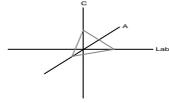
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CT03-38		38-1	white surfacing	y	None Detected		100% qu,bi
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		38-2	tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca
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L04-39		39-1	tan rubber flooring	y	None Detected		100% qu,ma
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		39-2	black mastic	y	None Detected	2% ce	98% gy,bi
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L04-40		40-1	tan rubber flooring	y	None Detected		100% qu,ma
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		40-2	tan and black mastic	n	None Detected	2% ce	98% gy,bi
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PL01-41		41-1	white surfaced white finishing plaster	n	None Detected		100% qu,bi,ca
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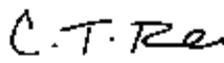
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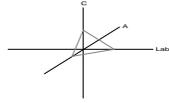

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PL01-42		42-1		white surfaced white finishing plaster	n	None Detected		100% qu,bi,ca
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PL01-43		43-1		white surfaced white finishing plaster	n	None Detected		100% qu,bi,ca
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		43-2		pink plaster	y	None Detected		100% qu,ca
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M02-44		44-1		white compound	y	None Detected		100% qu,mi,ca
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		44-2		tan insulation	y	None Detected	100% fg	
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M02-45		45-1		white compound	y	None Detected		100% qu,mi,ca
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CT04-46		46-1		white surfacing	y	None Detected		100% qu,bi
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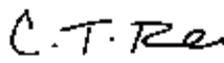
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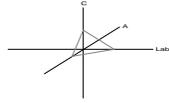
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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



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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson
Safety & Environmental Investigations, Inc.
P.O. Box 22038
Little Rock, AR 72201

Customer Project:
16123, Cherokee Village
Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
							41% ce 41% fg	18% qu,pe,ca
	46-2			tan ceiling tile	y	None Detected		
CT04-47		47-1		white surfacing	y	None Detected		100% qu,bi
		47-2		tan ceiling tile	y	None Detected	41% ce 40% fg	19% qu,pe,ca
CT05-48		48-1		white surfacing	y	None Detected		100% qu,bi
		48-2		tan ceiling tile	y	None Detected	41% ce 41% fg	18% qu,pe,ca
CT05-49		49-1		white surfacing	y	None Detected		100% qu,bi
		49-2		tan ceiling tile	y	None Detected	42% ce 41% fg	17% qu,pe,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

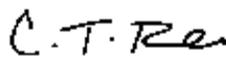
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:


Julio Robles
Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

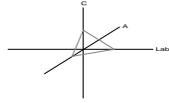
Technical Manager
Chad Lytle

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Phone # 501-227-8900 Fax # 501-227-7535	Turnaround Time: 3 Days	Date: 12/28/2016 Samples Received: 12/23/16 12pm Date Of Sampling: 12/19/16 Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
TS01-50	50-1		tan woven covering	y	None Detected	100% ce	
	50-2		white insulation	y	None Detected	11% sy 4% fg	85% qu,ca,ma
TS01-51	51-1		tan woven covering	y	None Detected	100% ce	
	51-2		white insulation	y	None Detected	13% sy 5% fg	82% qu,ca,ma
TS01-52	52-1		white insulation	y	None Detected	12% sy 4% fg	84% qu,ca,ma
CB04-53	53-1		brown base board	y	None Detected		100% gy,ma
	53-2		brown mastic	y	None Detected		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

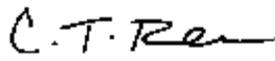
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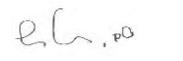
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Analyst


Tanner Rasmussen
Analyst


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Leslie Crisp, P.G.

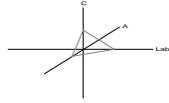
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Phone # 501-227-8900
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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CB04-54		54-1		brown base board	y	None Detected		100% gy,ma
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		54-2		brown mastic	y	None Detected		100% gy,bi
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SR03-55		55-1		tan surfaced white compound	n	None Detected		100% qu,bi,ca
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		55-2		white drywall with brown paper	n	None Detected	23% ce	77% qu,gy
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SR03-56		56-1		white compound	y	None Detected		100% qu,ca
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		56-2		white drywall with brown paper	n	None Detected	24% ce	76% qu,gy
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SR03-57		57-1		tan surfaced white compound	n	None Detected		100% mi,bi,ca
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AIHA LAP, LLC Laboratory #102929

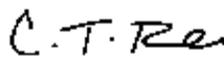
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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

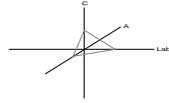

Julio Robles
Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.
Technical Manager
Chad Lytle

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Polarized Light Asbestiform Materials Characterization

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Phone # 501-227-8900 Fax # 501-227-7535		

Sample #	Com ment #	Layer #	Analysts Subsample	Physical Description of	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
	57-2			white compound (beneath tape)	y	None Detected		100% mi,ca
	57-3			white drywall with brown paper	n	None Detected	22% ce	78% qu,gy
PI01-58	58-1			white insulation	y	None Detected	13% sy 5% fg	82% qu,ca,ma
PI01-59	59-1			tan sealant with paper and foil	n	None Detected	24% ce	76% qu,bi,ot
	59-2			white insulation	y	None Detected	12% ce	88% qu,ca,ma
PI01-60	60-1			white insulation	y	None Detected	12% sy 3% fg	85% qu,ca,ma
PI02-61	61-1			white insulation	y	None Detected	14% sy 2% fg	84% qu,ca,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

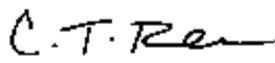
AIHA LAP, LLC Laboratory #102929

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

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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Analyst


Tanner Rasmussen
Analyst

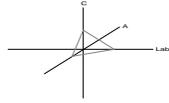

QAC
Leslie Crisp, P.G.
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Polarized Light Asbestiform Materials Characterization

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Phone # 501-227-8900 Fax # 501-227-7535	Turnaround Time: 3 Days	Date: 12/28/2016 Samples Received: 12/23/16 12pm Date Of Sampling: 12/19/16 Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PI02-62	62-1		tan woven covering	y	None Detected	100% ce	
	62-2		white insulation	y	None Detected	14% sy 3% fg	83% qu,ca,ma
PI02-63	63-1		white insulation	y	None Detected	13% sy 6% fg	81% qu,ca,ma
PJ01-64	64-1		tan insulation	y	None Detected	14% fg	86% qu,ca,ma
PJ01-65	65-1		tan insulation	y	None Detected	18% ce	82% qu,ca,ma
PJ01-66	66-1		tan insulation	y	None Detected	20% ce	80% qu,ca,ma
PJ02-67	67-1		tan insulation	y	None Detected	18% ce	82% qu,ca,ma

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AIHA LAP, LLC Laboratory #102929

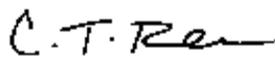
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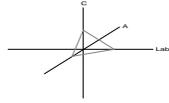
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Sample #	Com ment #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PJ02-68	68-1		tan insulation	y	None Detected	21% ce	79% qu,ca,ma
PJ02-69	69-1		tan insulation	y	None Detected	17% fg	83% qu,ca,ma
TS02-70	70-1		tan woven covering	y	None Detected	100% ce	
	70-2		tan insulation	y	None Detected	13% ce	87% qu,ca,ma
	70-3		white insulation	y	None Detected	16% fg	84% qu,ca,ma
TS02-71	71-1		tan insulation	y	None Detected	15% fg	85% qu,ca,ma
TS02-72	72-1		white insulation	y	None Detected	13% fg	87% qu,ca,ma

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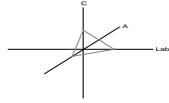
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----------	-------------	------------	-----------------------	----------------------------	-------------------------------	--	--------------------------------------	-------------------------------

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TS03-74		74-1		white insulation	y	None Detected	18% sy	82% qu,ca,ma
TS03-75		75-1		white insulation	y	None Detected	16% sy	84% qu,ca,ma
TS04-76		76-1		tan insulation	y	None Detected	21% ce	79% qu,ca,ma
PI03-77		77-1		tan insulation	y	None Detected	18% ce	82% qu,ca,ma
PI03-78		78-1		tan insulation	y	None Detected	19% ce	81% qu,ca,ma
PI03-79		79-1		tan insulation	y	None Detected	18% ce	82% qu,ca,ma

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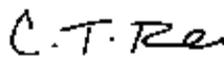
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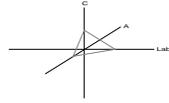
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1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798



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

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Robert Roberson
Safety & Environmental Investigations, Inc.
P.O. Box 22038
Little Rock, AR 72201

Customer Project:
16123, Cherokee Village
Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
PI04-80		80-1	tan insulation	y	None Detected	16% ce	84% qu,ca,ma
PI04-81		81-1	white insulation	y	None Detected	14% fg	86% qu,ca,ma
PI04-82		82-1	white insulation	y	None Detected	16% fg	84% qu,ca,ma
C01-83		83-1	black sealant	y	None Detected		100% qu,gy,bi
C01-84		84-1	black sealant	y	None Detected		100% qu,gy,bi
C02-85		85-1	black sealant	y	2% Chrysotile		98% qu,gy,bi
C02-86		86-1	black sealant	y	None Detected		100% qu,gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

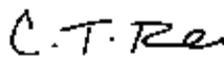
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:


Julio Robles
Analyst


Tanner Rasmussen
Analyst


QAC
Leslie Crisp, P.G.

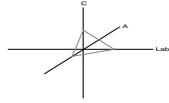
Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to
Quality

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



CA Labs, L.L.C.
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Polarized Light Asbestiform Materials Characterization

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Little Rock, AR 72201

Customer Project:
16123, Cherokee Village
Hospital
Turnaround Time:
3 Days

CA Labs Project #:
CAL16128473CB
Date: 12/28/2016
Samples Received: 12/23/16 12pm
Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
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C02-87		87-1		black sealant	y	None Detected		100% qu,gy,bi
BR01-88		88-1		various black tar and black felt layers	n	None Detected	13% ce 6% fg	81% qu,bi
BR01-89		89-1		various black tar and black felt layers	n	None Detected	14% ce 5% fg	81% qu,bi
BR01-90		90-1		various black tar and black felt layers	n	None Detected	16% fg	84% qu,bi
BR01-91		91-1		various black tar and black felt layers	n	None Detected	15% fg	85% qu,bi
BR01-92		92-1		various black tar and black felt layers	n	None Detected	17% fg	83% qu,bi
BR01-93		93-1		various black tar and black felt layers	n	None Detected	16% fg	84% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

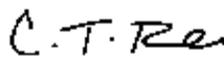
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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Julio Robles
Analyst


Tanner Rasmussen
Analyst

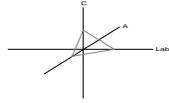

QAC
Leslie Crisp, P.G.
Technical Manager
Chad Lytle

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Customer Project:
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CA Labs Project #:
 CAL16128473CB
Date: 12/28/2016
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Date Of Sampling: 12/19/16
Purchase Order #:

Phone # 501-227-8900
 Fax # 501-227-7535

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
----------	-------------	------------	-----------------------	-------------------------	-------------------------------	--	--------------------------------------	-------------------------------

RF01-94		94-1		various black tar and black felt layers	n	16% Chrysotile		84% qu,bi
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RF01-95		95-1		various black tar and black felt layers	n	18% Chrysotile		82% qu,bi
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Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

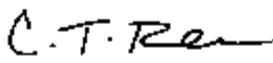
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


 Julio Robles
 Analyst


 Tanner Rasmussen
 Analyst


 QAC
 Leslie Crisp, P.G.

Technical Manager
 Chad Lytle

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PO Box 22038

Little Rock, AR 72201

Ph.: (501)227-8900 Fax: (501)227-7535

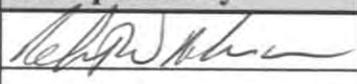
E-mail: sei.inc@comcast.net

Chain-of-Custody Record

CAL16128473

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 12/22/16
Address: 122 Hospital Drive	Requested Turnaround: 3-Day	
Cherokee Village, AR		
Samples Collected by: R. Roberson/R. Barton	Date Collected: 12/19/16	
Sample Type: Bulk Asbestos/PLM	# Samples: 95	

Sample ID	Description	Sample ID	Description
FT01-01	12X12 Tile/Mastic	M01-11	Mud Wall Sealant
FT01-02	12X12 Tile/Mastic	M01-12	Mud Wall Sealant
CT01-03	2x4 Lay-in Ceiling Tile	FP01-13	Fireproof Wallboard Spray
CT01-04	2x4 Lay-in Ceiling Tile	FP01-14	Fireproof Wallboard Spray
CB01-05	Bk Cove Base/Mastic	FP01-15	Fireproof Wallboard Spray
CB01-06	Bk Cove Base/Mastic	L01-16	Gold Linoleum
CB02-07	Green Cove Base/Mastic	L01-17	Gold Linoleum
CB02-08	Green Cove Base/Mastic	FT02-18	12X12 Tile/Mastic
SR01-09	Sheet Rock/Mud	FT02-19	12X12 Tile/Mastic
SR01-10	Sheet Rock/Mud	CT02-20	2X4 Lay-in Ceiling Tile

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 4:20		12/22/16 12:00

Special Instructions:

Safety & Environmental Investigations, Inc.

PO Box 22038

Little Rock, AR 72201

Ph.: (501)227-8900 Fax: (501)227-7535

E-mail: sei.inc@comcast.net

Chain-of-Custody Record

CAL 16128473

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 12/22/16
Address: 122 Hospital Drive	Requested Turnaround: 3-Day	
Cherokee Village, AR		
Samples Collected by: R. Roberson/R. Barton	Date Collected: 12/19/16	
Sample Type: Bulk Asbestos/PLM	# Samples: 95	

Sample ID	Description	Sample ID	Description
CT02-21	2x4 Lay-in Ceiling Tile	L02-31	Gold Linoleum
CB03-22	Bk Cove Base/Mastic	L02-32	Gold Linoleum
CB03-23	Bk Cove Base/Mastic	L03-33	Rubberized Flooring
CB04-24	Green Cove Base/Mastic	L03-34	Rubberized Flooring
CB04-25	Green Cove Base/Mastic	FT03-35	12X12 Tile/Mastic
SR02-26	Sheet Rock/Mud	FT03-36	12X12 Tile/Mastic
SR02-27	Sheet Rock/Mud	CT03-37	2X4 Lay-in Ceiling Tiles
FP02-28	Fireproof Wallboard Spray	CT03-38	2X4 Lay-in Ceiling Tiles
FP02-29	Fireproof Wallboard Spray	L04-39	Tan Linoleum
FP02-30	Fireproof Wallboard Spray	L04-40	Tan Linoleum

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 9:00		12/23/16 1:20

Special Instructions:

Safety & Environmental Investigations, Inc.

PO Box 22038

Little Rock, AR 72201

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E-mail: sei.inc@comcast.net

Chain-of-Custody Record

CAL16128473

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 12/22/16
Address: 122 Hospital Drive	Requested Turnaround: 3-Day	
Cherokee Village, AR		
Samples Collected by: R. Roberson/R. Barton	Date Collected: 12/19/16 – 12/20/16	
Sample Type: Bulk Asbestos/PLM	# Samples: 95	

Sample ID	Description	Sample ID	Description
PL01-41	Wall/Ceiling Plaster	TS01-51	80 Lbs Steam Line
PL01-42	Wall/Ceiling Plaster	TS01-52	80 Lbs Steam Line
PL01-43	Wall/Ceiling Plaster	CB04-53	Brown Cove Base/Mastic
M02-44	Mud Wall Sealant	CB04-54	Brown Cove Base/Mastic
M02-45	Mud Wall Sealant	SR03-55	Sheet Rock/Mud
CT04-46	2X4 Lay-in Ceiling Tiles	SR03-56	Sheet Rock/Mud
CT04-47	2X4 Lay-in Ceiling Tiles	SR03-57	Sheet Rock/Mud
CT05-48	2X4 Lay-in Ceiling Tiles	PI01-58	1" Line Insulation
CT05-49	2X4 Lay-in Ceiling Tiles	PI01-59	1" Line Insulation
TS01-50	80 Lbs Steam Line	PI01-60	1" Line Insulation

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 4:30		12/23/16 12pm

Special Instructions:

Safety & Environmental Investigations, Inc.

PO Box 22038

Little Rock, AR 72201

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E-mail: sei.inc@comcast.net

Chain-of-Custody Record

CAL 16128473

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 12/22/16
Address: 122 Hospital Drive	Requested Turnaround: 3-Day	
Cherokee Village, AR		
Samples Collected by: R. Roberson/R. Barton	Date Collected: 12/20/16	
Sample Type: Bulk Asbestos/PLM	# Samples: 95	

Sample ID	Description	Sample ID	Description
PI02-61	2 & 3" Line Insulation	TS02-71	Make-up Tank Insulation
PI02-62	2 & 3" Line Insulation	TS02-72	Make-up Tank Insulation
PI02-63	2 & 3" Line Insulation	TS03-73	Heat Exchanger Insulation
PJ01-64	1" Line Joints, T's, Elbows	TS03-74	Heat Exchanger Insulation
PJ01-65	1" Line Joints, T's, Elbows	TS03-75	Heat Exchanger Insulation
PJ01-66	1" Line Joints, T's, Elbows	TS04-76	Flange on Main Feed
PJ02-67	2/3" Line Jnts, T's, Elbows	PI03-77	1" Line/Hallways
PJ02-68	2/3" Line Jnts, T's, Elbows	PI03-78	1" Line/Hallways
PJ02-69	2/3" Line Jnts, T's, Elbows	PI03-79	1" Line/Hallways
TS02-70	Make-up Tank Insulation	PI04-80	2" Line/Hallways

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 4:30		12/23/16 12pm

Special Instructions:

Safety & Environmental Investigations, Inc.

PO Box 22038

Little Rock, AR 72201

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Chain-of-Custody Record

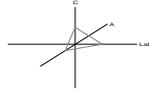
CAL 16128473

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 12/22/16
Address: 122 Hospital Drive	Requested Turnaround: 3-Day	
Cherokee Village, AR		
Samples Collected by: R. Roberson/R. Barton	Date Collected: 12/20/16	
Sample Type: Bulk Asbestos/PLM	# Samples: 95	

Sample ID	Description	Sample ID	Description
PI04-81	2" Line/Hallways	BR01-91	Built-up Roofing
PI04-82	2" Line/Hallways	BR01-92	Built-up Roofing
C01-83	Door Caulking	BR01-93	Built-up Roofing
C01-84	Door Caulking	RF01-94	Roof Flashing
C02-85	Exterior Caulking	RF01-95	Roof Flashing
C02-86	Exterior Caulking		
C02-87	Exterior Caulking		
BR01-88	Built-up Roofing		
BR01-89	Built-up Roofing		
BR01-90	Built-up Roofing		

Relinquished By:	Date/Time	Received By:	Date/Time
	12/22/16 9:50		12/23/16 12:00

Special Instructions:



Atomic Absorption Lead Report

Analysis Method: Lead in Paint analyzed by Atomic Absorption (AA)/SW-846-7420;
This analysis is not covered by the scope of accreditation by NVLAP or AIHA.

Sample Prep Method: Samples are dissolved in nitric acid, extracted, and analyzed on a properly calibrated AA; Absorbency curve was calculated, bandwidth corrected, and wavelength at the time of the analysis was measured and recorded.

Client Information:

Safety & Environmental
Investigations, Inc.
P.O. Box 22038
Little Rock, AR 72201
Phone: 501-227-8900
Fax: 501-227-7535

Client Project:

16123, Cherokee Village Hospital, 122 Hospital
Drive, CV, AR

Turnaround Time: 24 Hours
Attn:

CA Labs Project #:

CAL1701163JE

Date of Sampling: 1/5/17

Report Date: 1/13/17

Samples Received: 1/13/17 10:30am

Purchase Order #:

Sample#

Sample Concentration: Weight Percent:
parts per million (ppm)

Sample#	Description	Sample Concentration (ppm)	Weight Percent
MB-01	Main Bldg. Interior Trim	129.46	0.0129
MB-02	Main Bldg. interior Walls	<128.7	<0.0129
MB-03	Main Bldg. Structural Steel	<143.58	<0.0144
MB-04	Main Bldg. Incinerator	722.66	0.0723
BC-05	L. Clinic Interior Trim / Door	<140.35	<0.0140
BC-06	L. Clinic Interior Walls	<108.58	<0.0109
BC-07	L. Clinic – Exterior Trim	<123.53	<0.0124
BC-08	L. Clinic – Outside Walls	<107.87	<0.0108
SC-09	S. Clinic – Interior Walls	<115.61	<0.0116
Lab Blank	< 1.00	----	----

Quality Control:

All samples received in good condition unless noted

Duplicate:

1.0 RPD

Spike:

98.9 % Recovery

NVLAP # 200349-0

Approved Signatories:

Robert Olivarez
Analyst

TDH # 30-0235

Page 1 of 1

Leslie Crisp
Laboratory Director

Chad Lytle
Senior Analyst

Notes:
The current guidelines for lead in paint from the Consumer Products Safety Council (CPSC) is 0.06% by weight; the Housing and Urban Development (HUD) guideline is 0.5% by weight.

CA Labs is participating in ELPAT rounds sponsored by American Industrial Hygiene Association (AIHA) and National Lead Laboratory Program (NLLAP). This test reports relates only to the items tested. Neither AIHA, NVLAP nor EPA accreditation implies endorsement by any US Government agency. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC.) in the TEM, PLM, and PCM asbestos fields of testing for Industrial Hygiene and in the culturable fungi field of testing for Environmental Microbiology. This report may not be reproduced except in full without written permission from CA Labs. This Method is not covered by the AIHA accreditation for Environmental Hygiene.

These results are submitted pursuant to CA Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

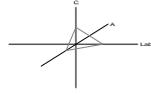
Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006; phone (972) 242-2754, fax (972) 242-2798.

CA Labs

Dedicated to Quality

Crisp Analytical, L.L.C.

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Phone 225-751-5632
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**ATOMIC ABSORPTION
LEAD ANALYSIS
LABORATORY ANALYSIS REPORT**

Safety & Environmental Investigations, Inc.

P.O. Box 22038

Little Rock, AR 72201

Reference number: CAL1701163JE

LABORATORY ANALYSIS:

Summary of lead analysis by atomic absorption in all relevant media using the method described in SW-846-7420. All analysts have received the necessary in-house and extramural training to perform analysis of samples for the presence of lead. A duplicate analysis is performed on greater than ten percent of all samples. A spiked concentration sample is analyzed with each sample group for instrument calibration. All analysts are required to participate in quality control analysis rounds. Instrument calibrations are performed on a daily, weekly, and monthly basis.

CA Labs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM) and by the USEPA for analysis of asbestos in drinking water. CA Labs is accredited by the American Industrial Hygiene Association (AIHA LAP, LLC) PLM, TEM and PCM Asbestos fields of testing for industrial hygiene. This analysis is not covered by the scope of accreditation by NVLAP. This method is not covered by the AIHA accreditation for Industrial Hygiene.

This report must not be used to claim product endorsement by AIHA or any agency of the U.S. Government. This test relates only to the items described and tested herein. This report may not be reproduced except in full, without written permission by CA Labs.

METHOD:

The procedure for paint chip analysis follows AOAC5.009(974.02) and SW-846-7420. The analysis of soil, wipes, and wastewater for the presence of lead is also referenced by SW-846-7420. Methodology for the analysis of lead in air samples follows NIOSH Method 7082.

Analysis performed at Crisp Analytical Labs, L.L.C. 1929 Old Denton Road Carrollton, TX 75006: phone (972) 242-2754; fax (972) 242-2798.

CAC 1701103

Safety & Environmental Investigations, Inc.

PO Box 22038

Little Rock, AR 72221

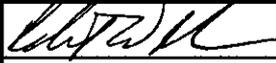
Ph:(501)227-8900/Fx:(501)227-7535

e-mail: sei.inc@comcast.net

Chain-of-Custody Record

Project Name: Cherokee Village Hospital	SEI Project#: 16123	Date: 1/10/17
Address: 122 Hospital Drive, CV, AR	Requested Turnaround: 24 Hour	
Samples Collected by: Robert Roberson	Date Collected: 1/5/17	
Sample Type: Lead Paint Composite	# Samples: 9	

Sample ID	Location	Collector	Date
MB-01	Main Bldg. Interior Trim		
MB-02	Main Bldg. Interior Walls		
MB-03	Main Bldg. Structural Steel		
MB-04	Main Bldg. Incinerator		
BC-05	L.Clinic Interior Trim/Door		
BC-06	L.Clinic Interior Walls		
BC-07	L.Clinic – Exterior Trim		
BC-08	L. Clinic – Outside Walls		
SC-09	S. Clinic – Interior Walls		

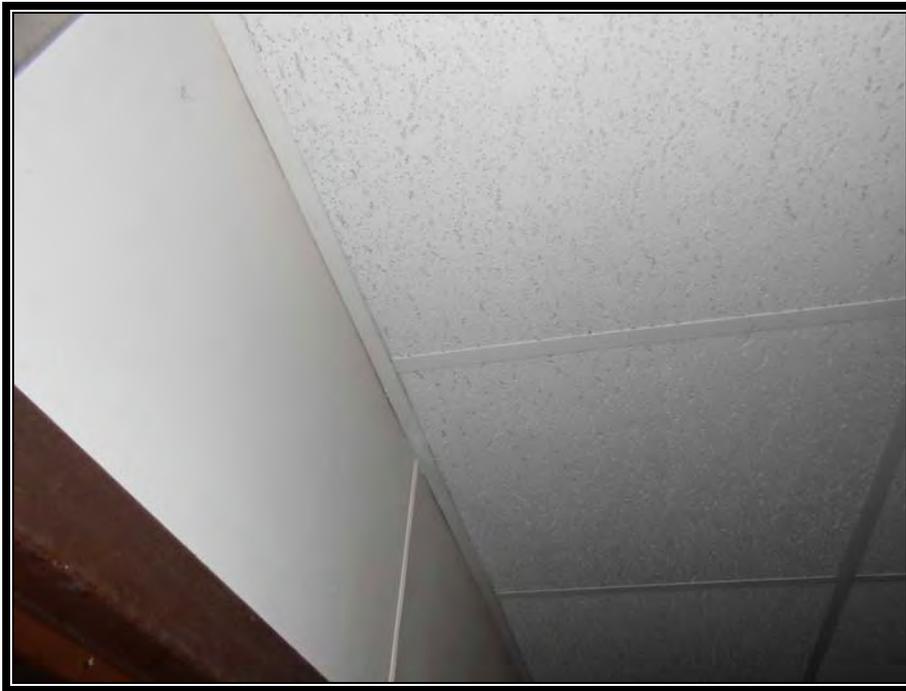
Signature	Date	Signature	Date
	1/12/17 4:30pm		1/13/17 10:30am

Special Instructions:

PHOTOGRAPHS



FT01 – 12x12 ACM Floor Tile Only



CT01 – 2x4 Lay-in Ceiling Tile



CB01 – Black Cove Base / Mastic



CB02 – Green Cove Base / Mastic



SR01 – Sheet Rock / Mud



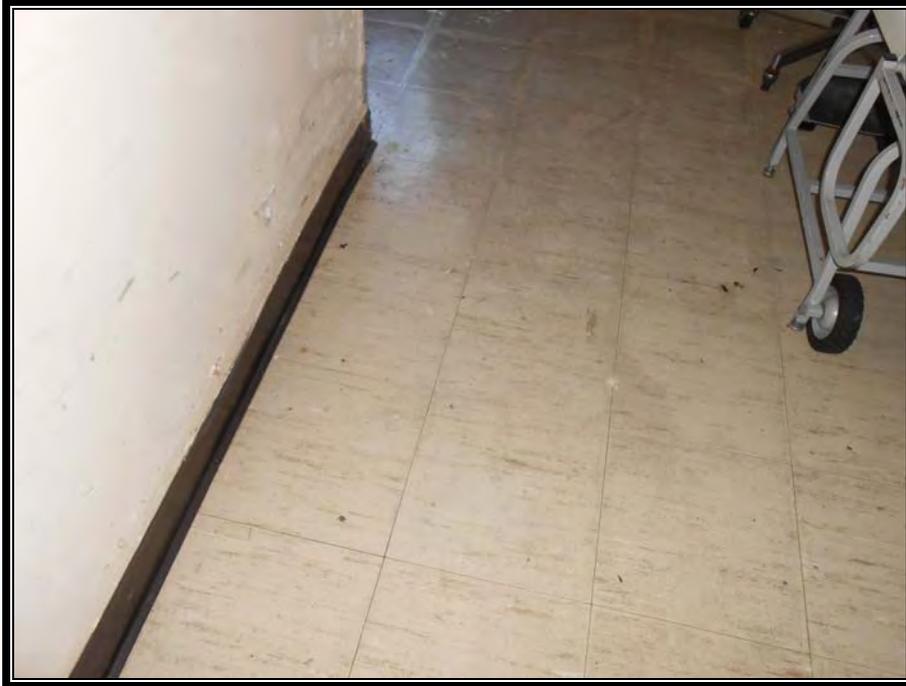
M01 – Mud Wall Sealant



FP01 – ACM Fireproof Wallboard Spray



L01 – ACM Gold Linoleum



FT02 – ACM 12x12 Floor Tile Only



CT02 – 2x4 Lay-in Ceiling Tile



CB03 – Black Cove Base / Mastic



CB04 – Green Cove Base / Mastic



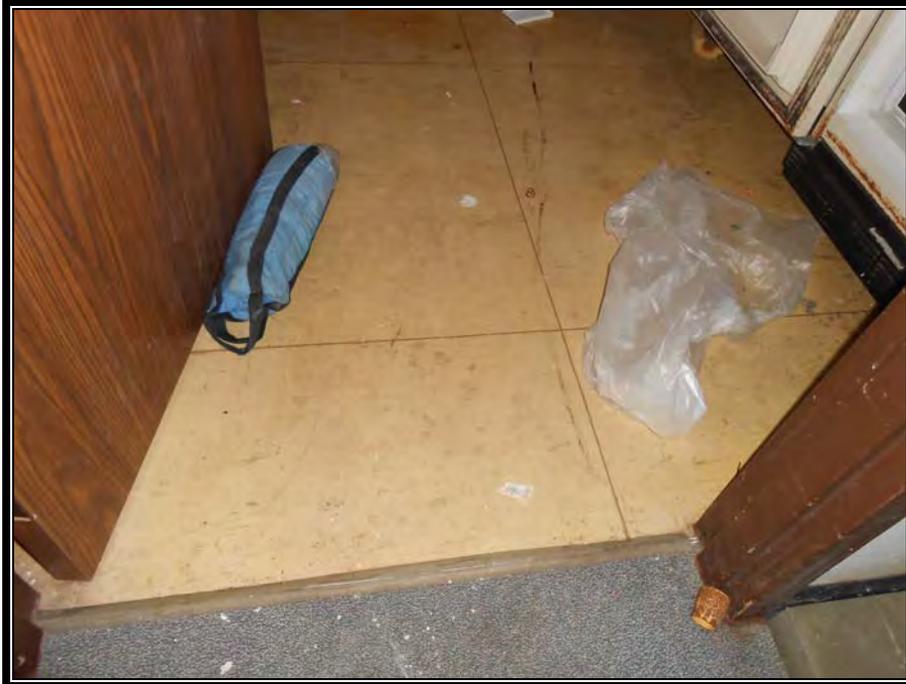
SR02 – Sheet Rock / Mud



FP02 – ACM Fireproof Wallboard Spray



L02 – ACM Gold Linoleum



L03 – Rubberized Flooring



FT03 – ACM 12x12 Floor Tile Only



CT03 – 2x4 Lay-in Ceiling Tile



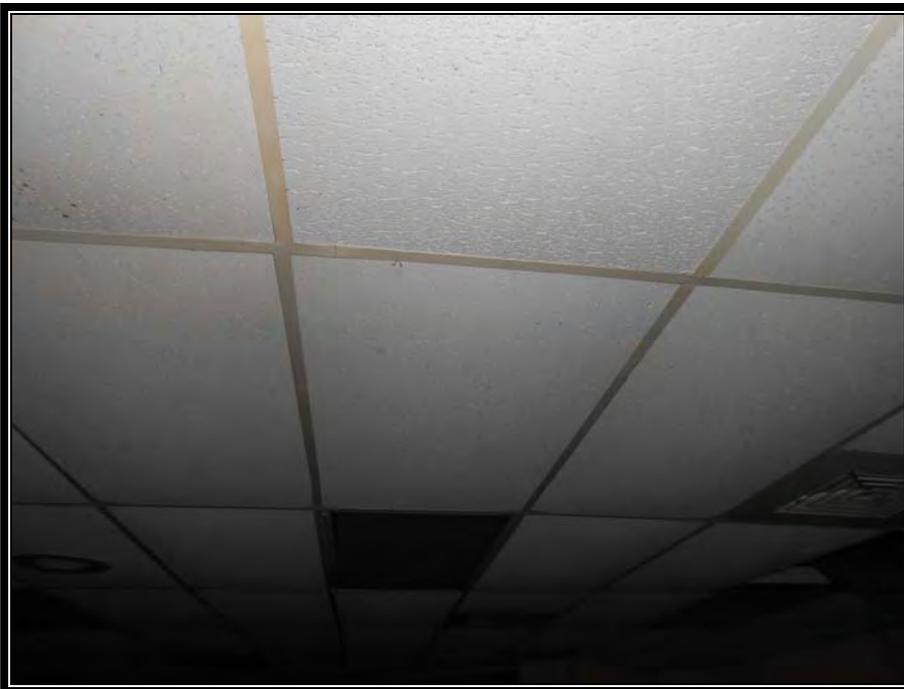
L04 – Tan Linoleum



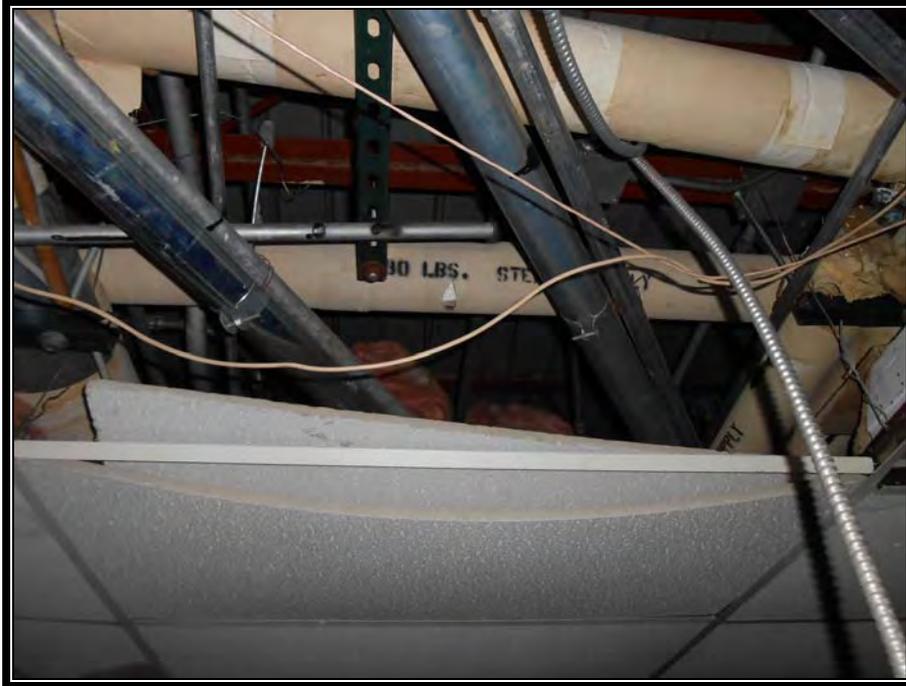
PL01 – Wall / Ceiling Plaster



M02 – Mud Wall Sealant



CT05 – 2x4 Lay-in Ceiling Tile



TS01 – 80 lb Steam Line



CB04 – Brown Cove Base / Mastic



SR03 – Sheet Rock / Mud



PI01 – 1" Line Insulation



PI02 – 2&3” Line Insulation



PJ01 – 1” Line Joints, T’s, Elbows



PJ02 – 2/3” Line Joints, T’s, Elbows



TS02 – Make-up Tank Insulation



TS03 – Heat Exchanger Insulation



TS04 – Flange on Main Feed



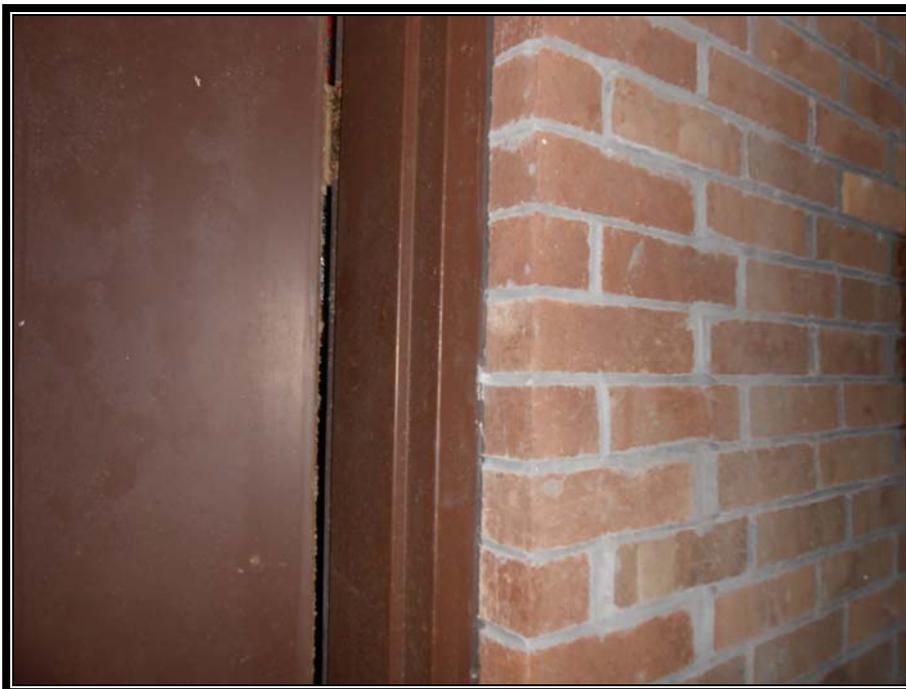
PI03 – 1” Line in Hallways



PI04 – 2” Line in Hallways



C01 – Door Caulking



C02 – ACM Exterior Caulking



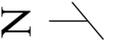
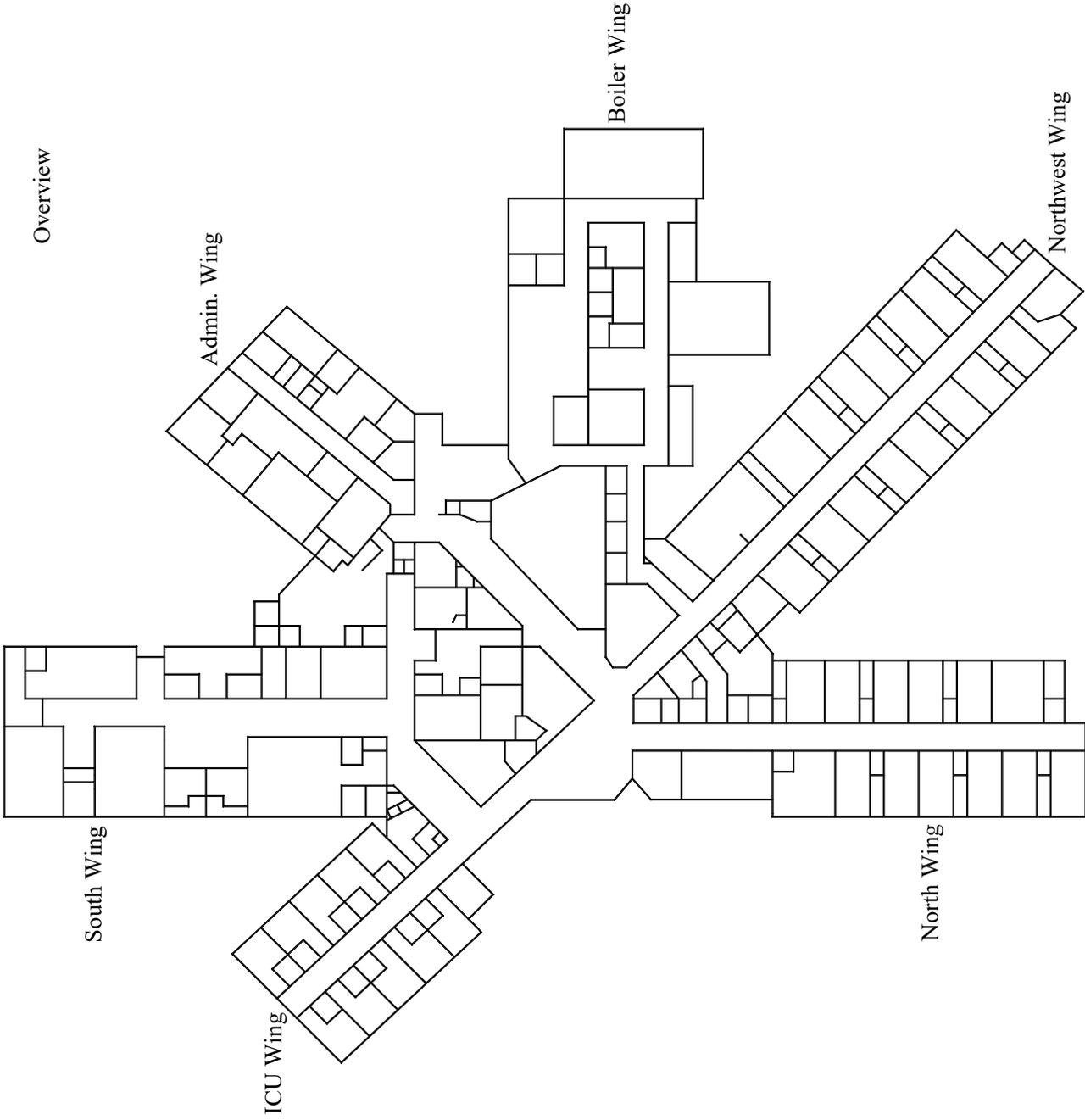
BR01 – Built-up Roofing



RF01 – ACM Roof Flashing

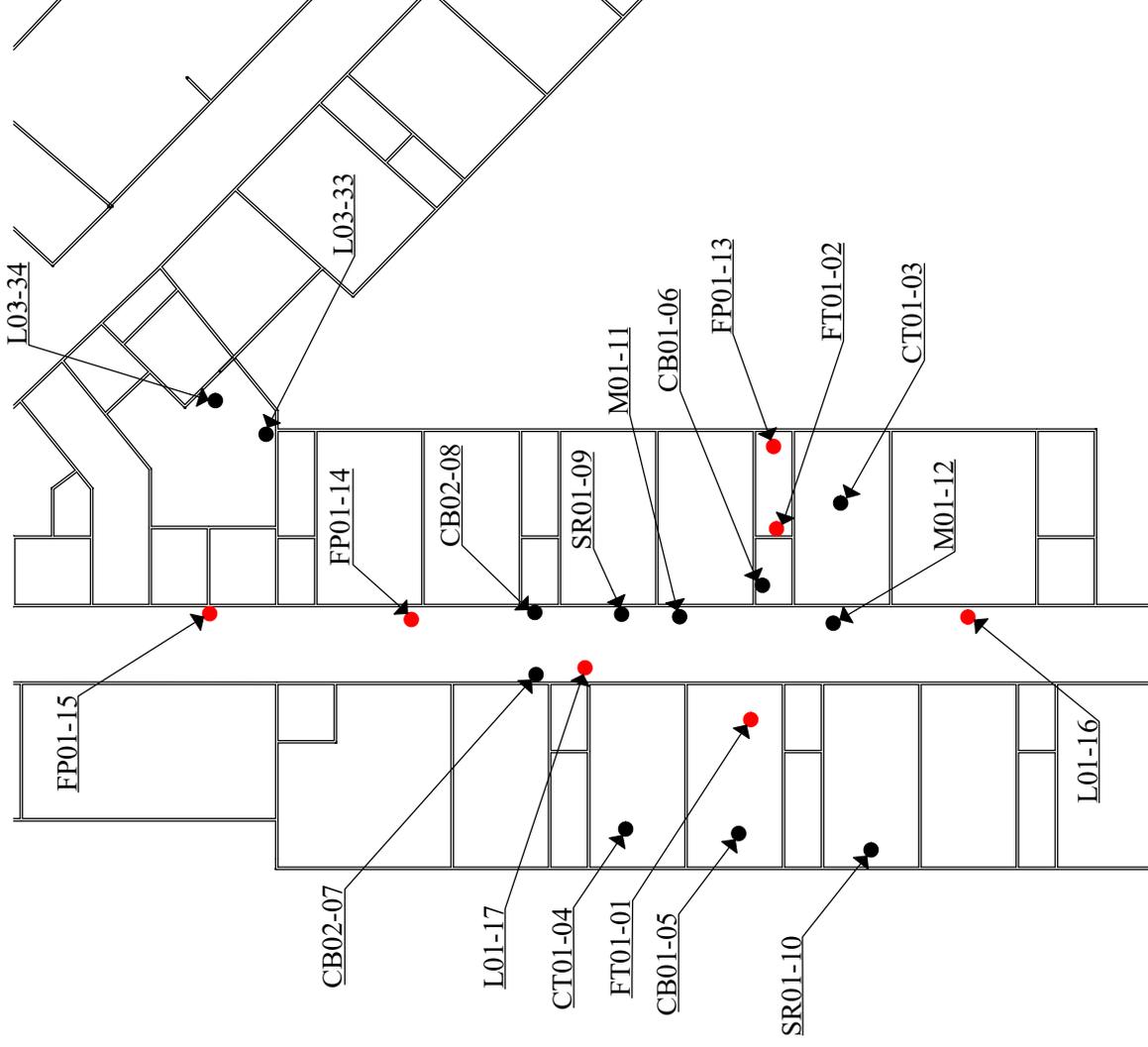
DRAWINGS

Overview



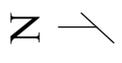
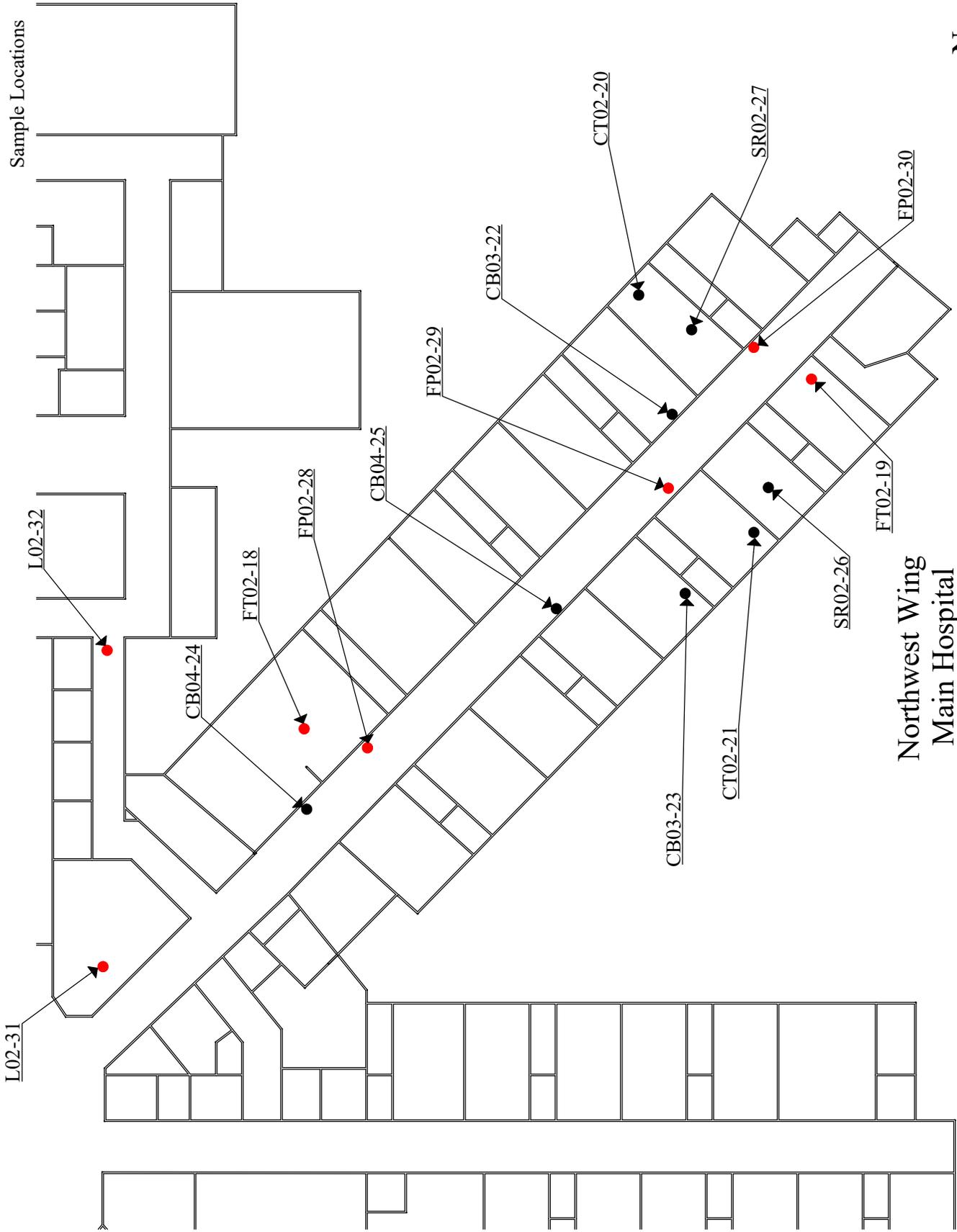
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Sample Locations



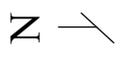
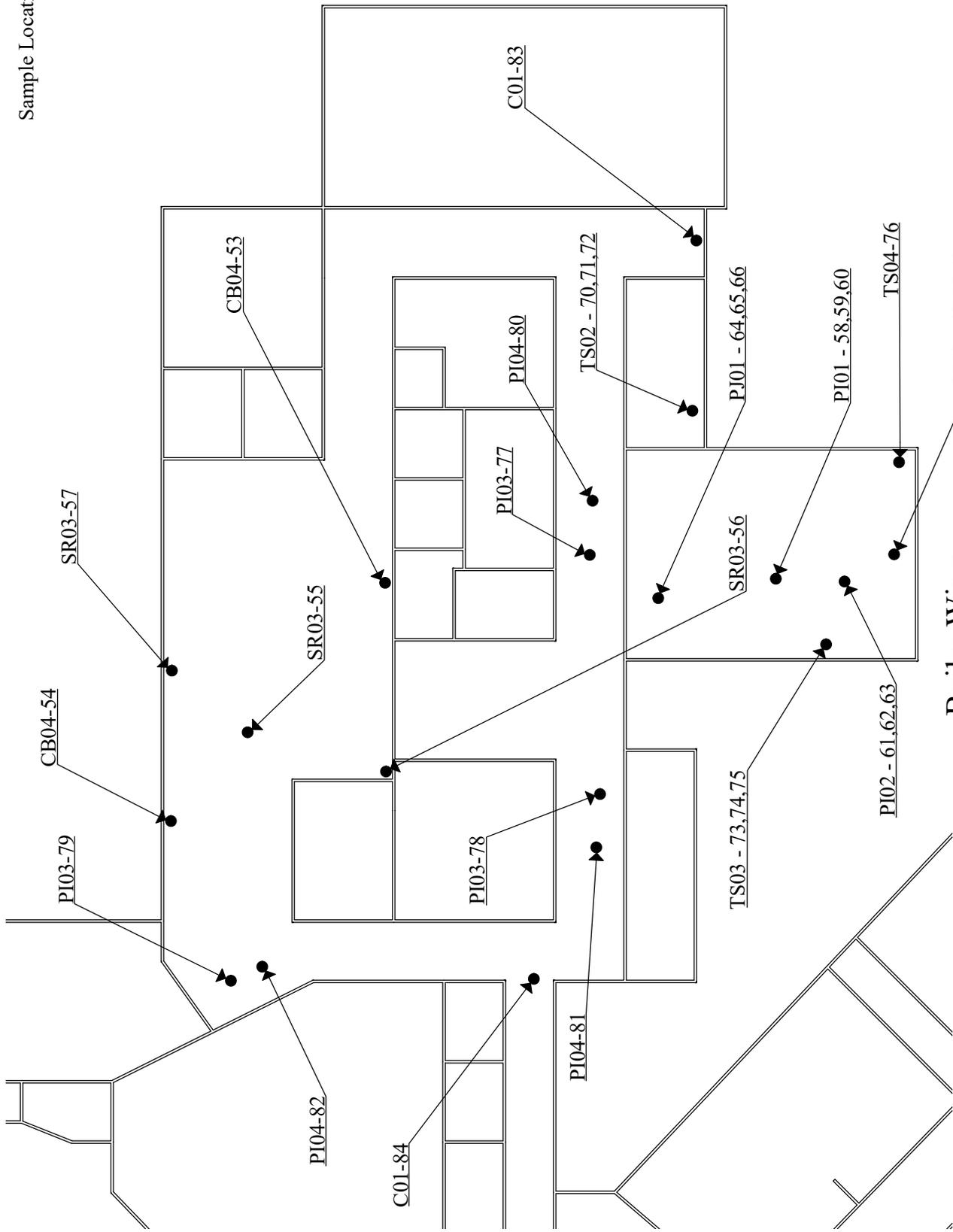
North Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Sample Locations



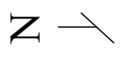
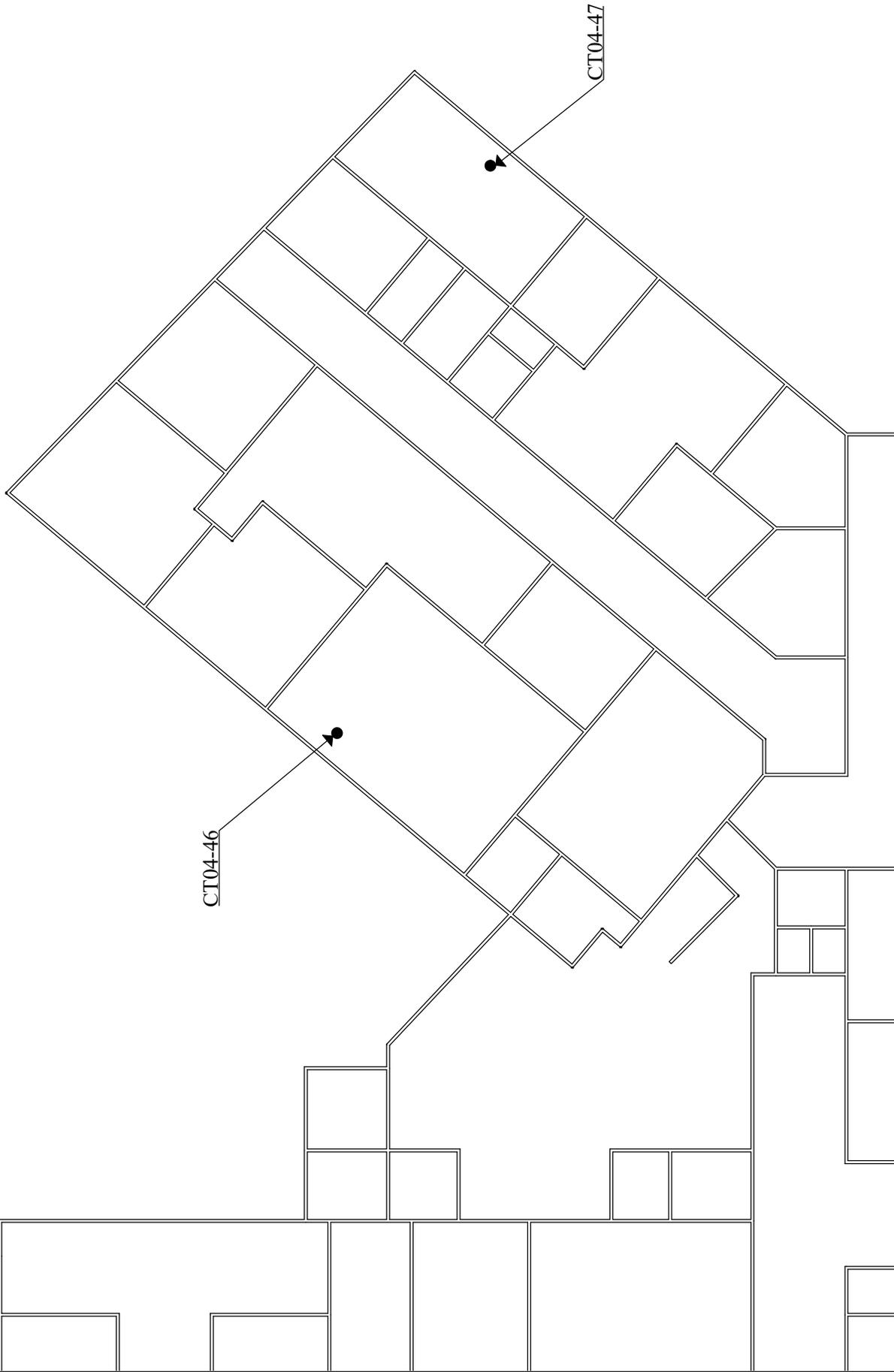
Northwest Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Sample Locations



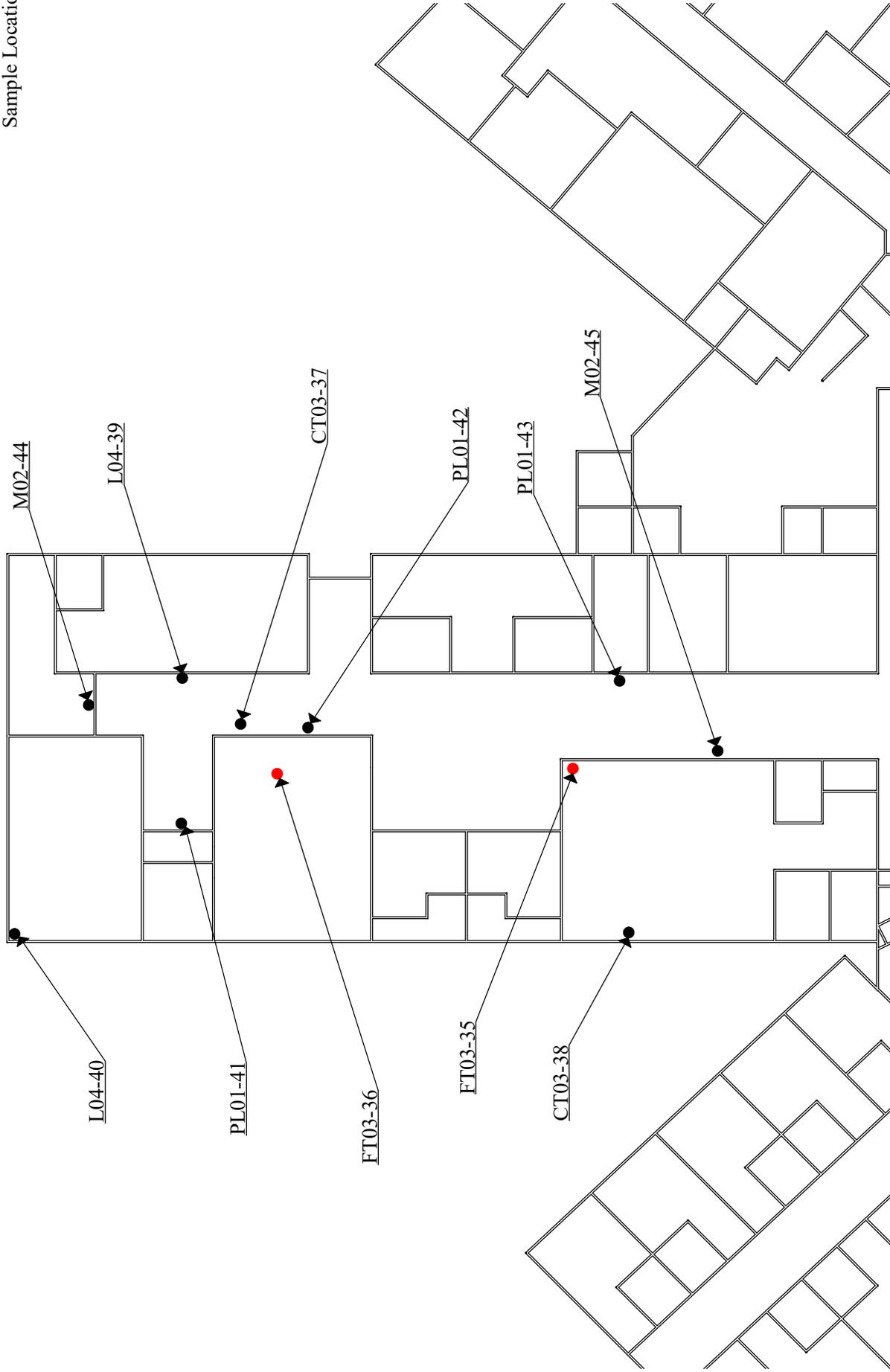
Boiler Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Sample Locations

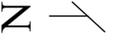


Administration Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

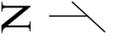
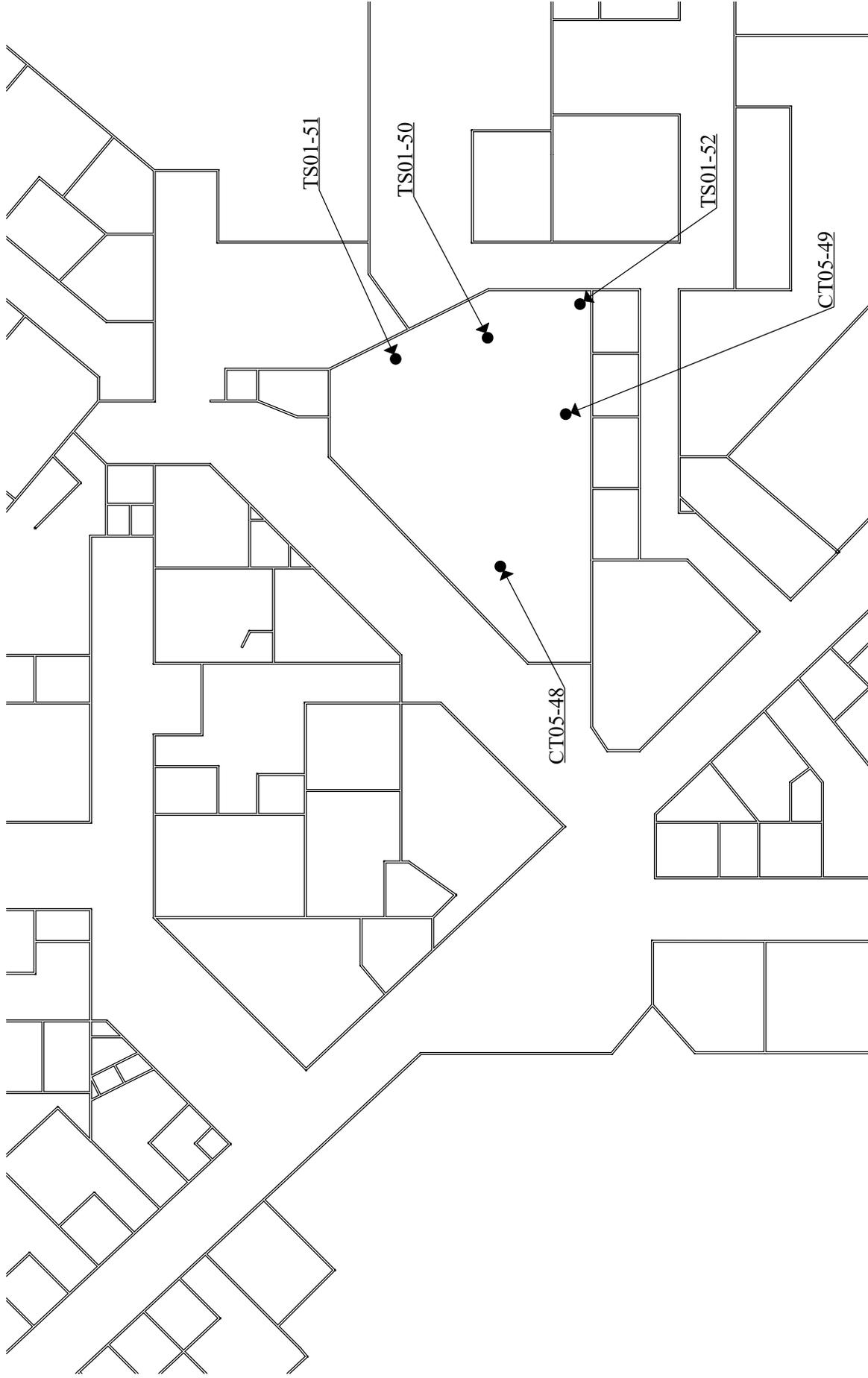
Sample Locations



South Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

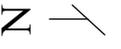
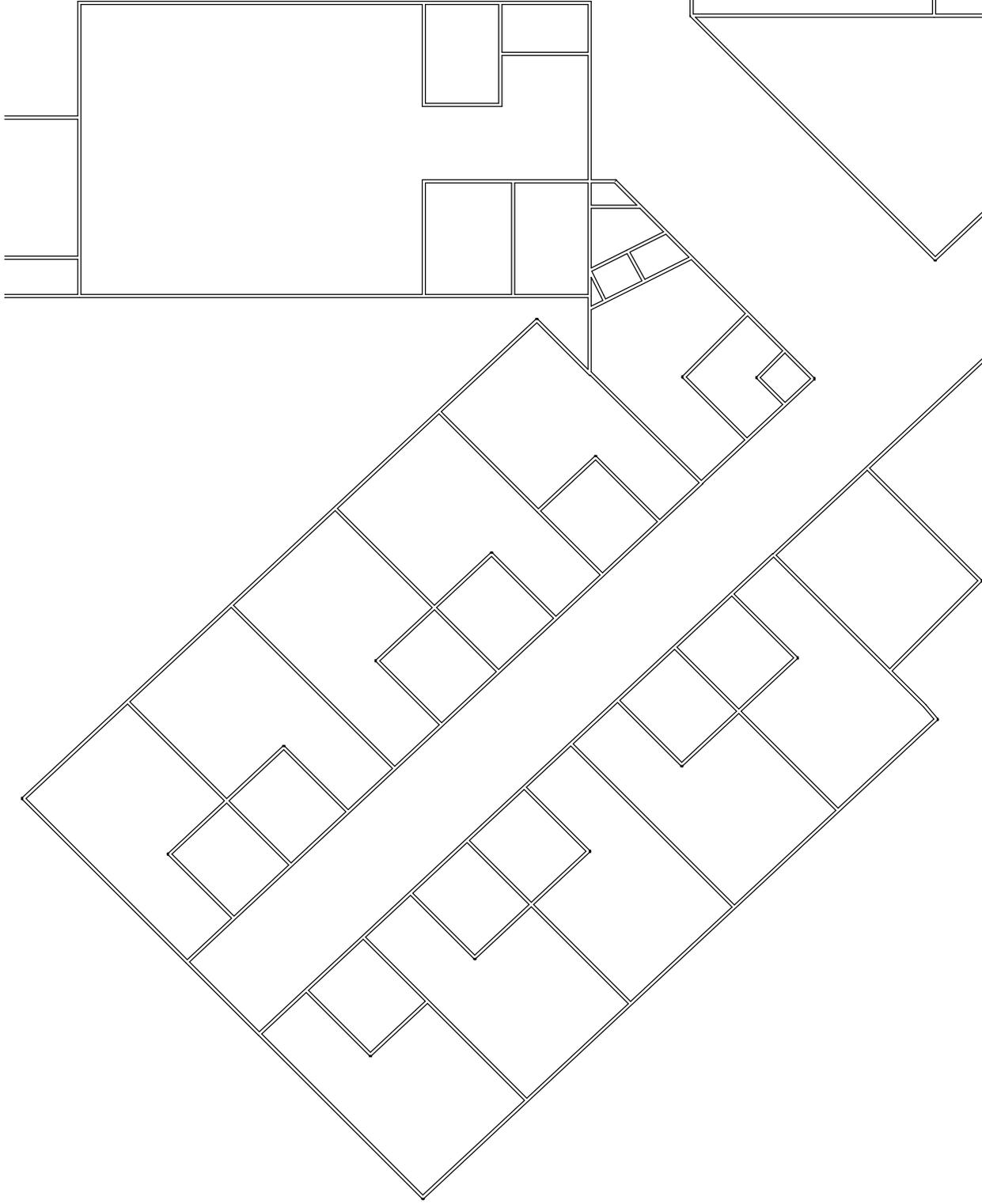


Sample Locations



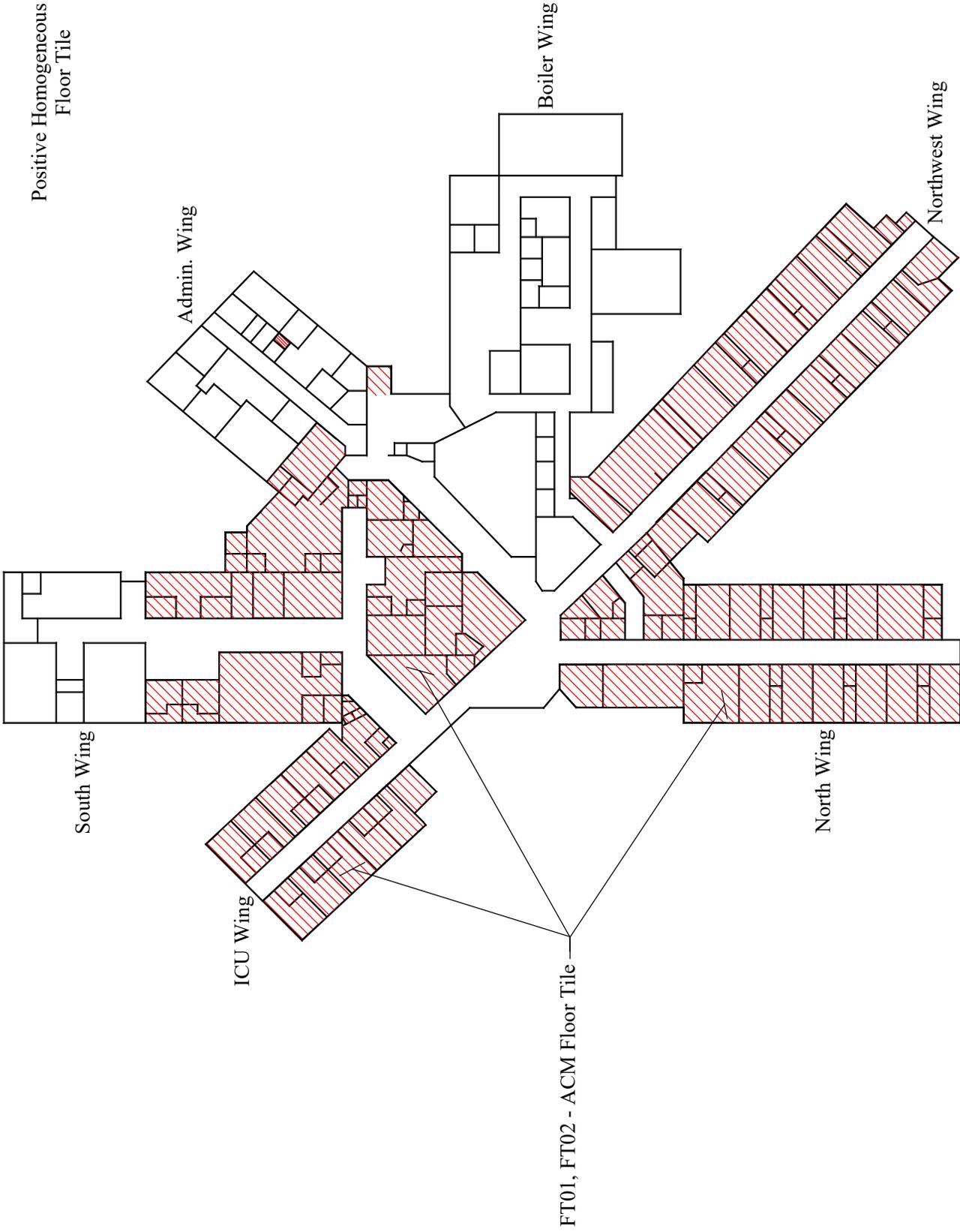
Center
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Sample Locations



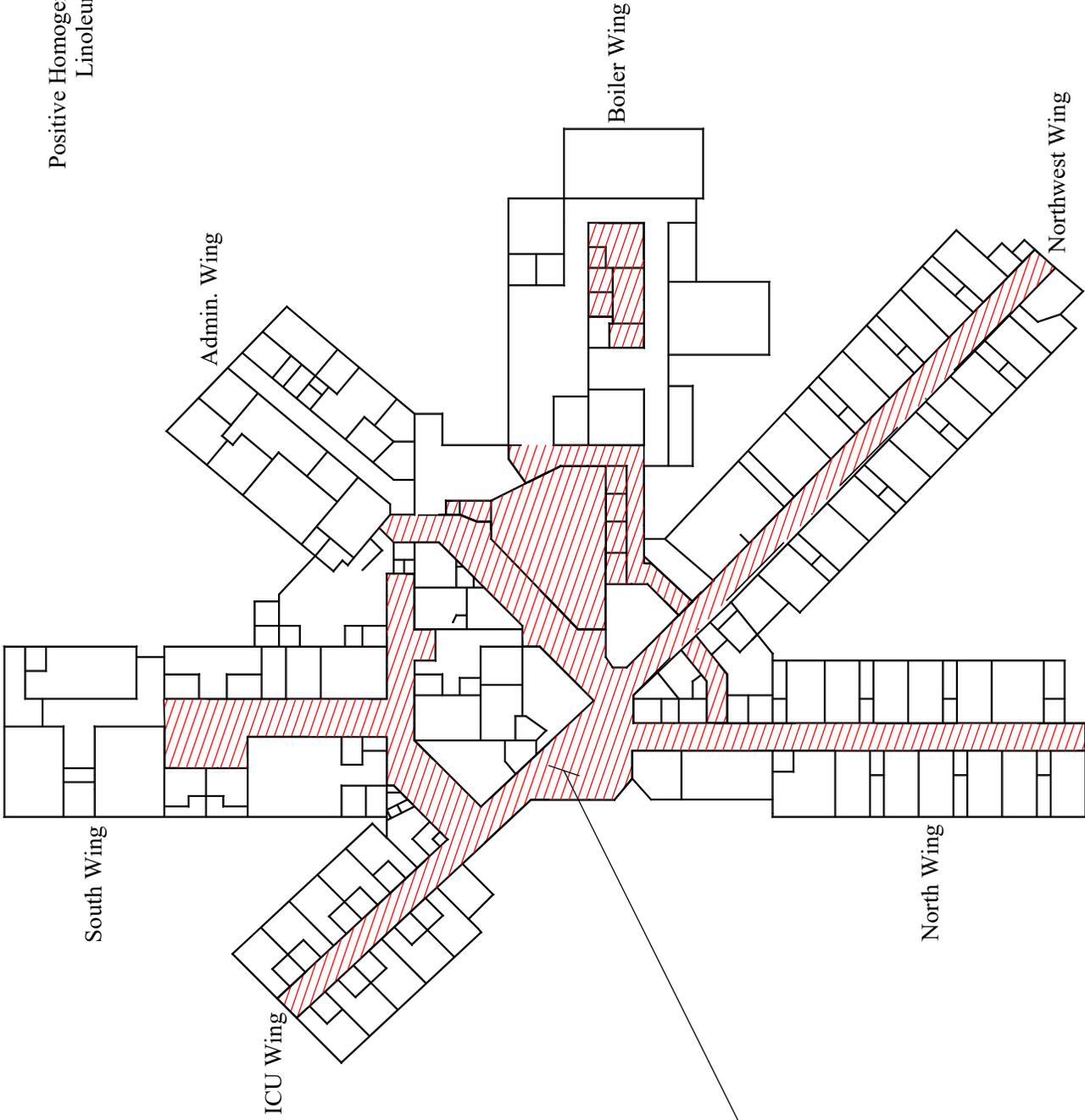
ICU Wing
Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Positive Homogeneous Areas
Floor Tile



Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Positive Homogeneous Areas
Lineoleum



South Wing

Admin. Wing

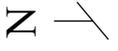
Boiler Wing

Northwest Wing

ICU Wing

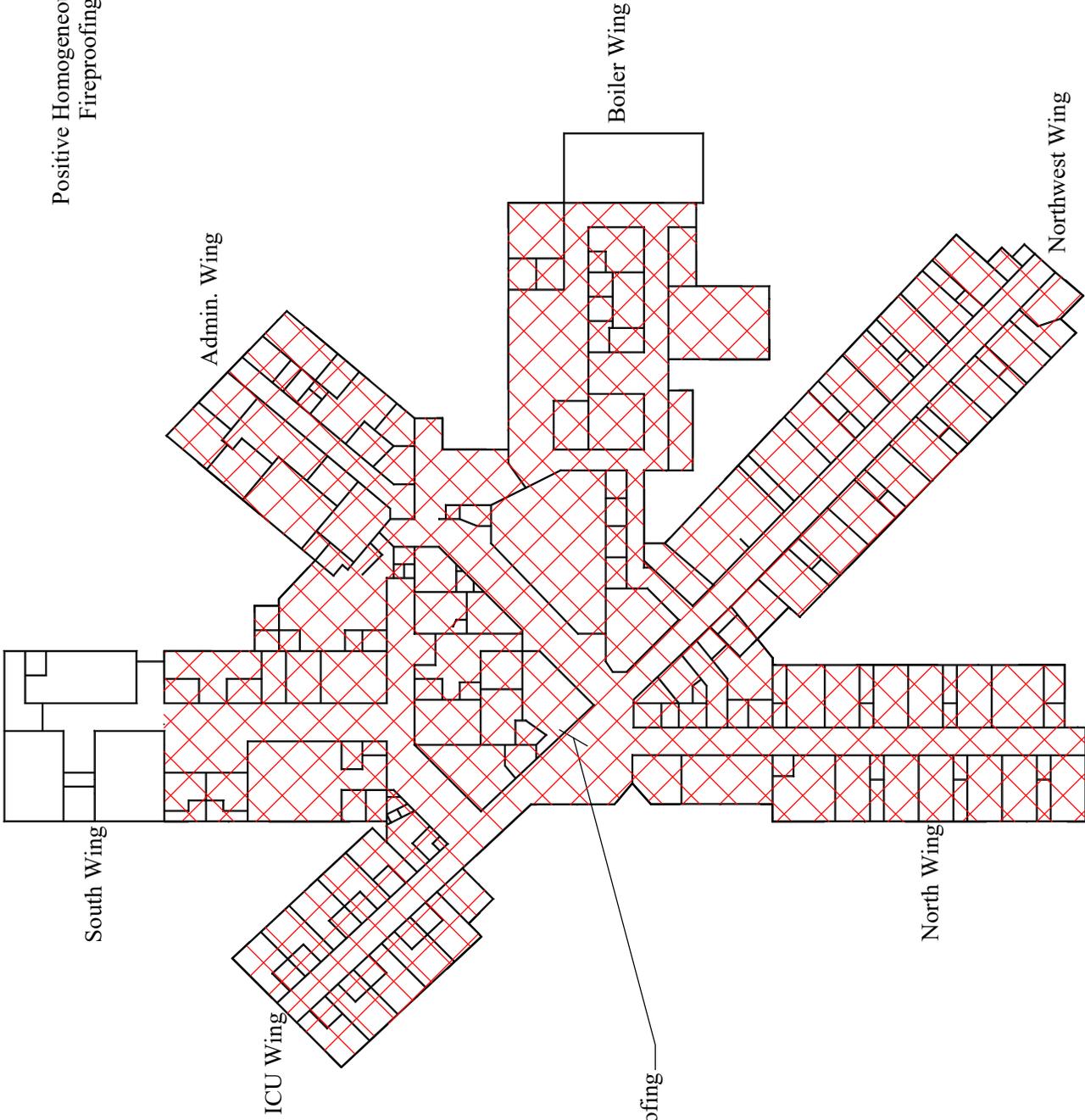
North Wing

L01, L02 - ACM Lineoleum

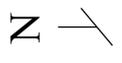


Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

Positive Homogeneous Areas
Fireproofing



FP01, FP02 - ACM Fire Proofing
on interior walls



Main Hospital
122 Hospital Drive
Cherokee Village, Arkansas

COMPANY & INSPECTOR CERTIFICATIONS

Arkansas Department of Environmental Quality

SAFETY & ENVIRO INVESTIGATIONS

is a licensed
Asbestos Abatement Consultant

having qualified as required by law in accordance with the regulations adopted by the Arkansas Pollution Control and Ecology Commission's Regulation 21 pursuant to Arkansas Code Annotated §20-27-1001 et seq., relative to abatement of asbestos-containing material within the state of Arkansas.



License Number: 000260

Issue Date: 2016 December 28

Expire Date: 2017 December 30

Becky W. Keogh

Becky W. Keogh
ADEQ Director

Arkansas Department of Environmental Quality

011542 ROBERT W. ROBERSON

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos

Air Monitor 10/19/2017

Inspector 10/20/2017

Management Planner 1/31/2017

Project Designer 4/30/2017



Issue Date: 02-Nov-2016

A handwritten signature in blue ink that reads "Becky W. Keogh".

Becky W. Keogh
ADEC Director

Arkansas Department of Environmental Quality

000296 RICKY BARTON

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos

Air Monitor 8/10/2017

Contractor/Supervisor 8/10/2017

Inspector 8/11/2017

Project Designer 8/16/2017



Issue Date:08-Sep-2016

Becky W. Keogh

Becky W. Keogh
ADEQ Director