



AHERA RE-INSPECTION

Sequoia High School 1201 Brewster Avenue Redwood City, CA 94062

Prepared for:

Sequoia Union High School District 480 James Ave Redwood City, CA 94062

Project No.: 20-011 Date: February 18, 2020

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EXCUTIVE SUMMARY

F.I.T. Environmental Services (F.I.T. Services) conducted an AHERA re-inspection of Sequoia High School, located at 1201 Brewster Avenue Redwood City, California. F.I.T. Services Certified Asbestos Consultants conducted the following activities to document the project:

- Visual inspection of known asbestos containing building materials (ACBM), both friable and non-friable.
- Identification of friable and non-friable ACBM.
- Assessment of friable and damaged non-friable ACBM.

All except one of the known asbestos containing building materials from the 1995 CTL Environmental Services AHERA 3-year re-inspection that have not been removed, are in good condition and have been assigned a response action priority number of 8. The 9" off white w/lite grey vinyl floor tile & mastic is damaged. This ACBM is located in the janitor's closet and PE 2 in the girl's gym and has been assigned a response action priority number of 3. See Appendix A.

RESPONSE ACTIONS

Response Action Priorities

- 1) Isolate area and restrict access. Immediate removal is mandatory; contact an Accredited Project Designer (APD).
- 2) Isolate area and restrict access. Repair or Remove Immediately; contact an APD. If ACBM remains following response action, follow up with O&M; restrict access to reduce disturbance potential.
- 3) Continue O&M. Limit access to reduce disturbance potential. Schedule repair or removal on a priority basis; contact an APD. If ACBM remains following response action, follow up with O&M; limit access to reduce disturbance potential.
- 4) Continue O&M. Limit access to reduce disturbance potential Schedule repair or removal when practical and cost effective; contact an APD.
- 5) Continue O&M. Schedule repair or removal when practical and cost effective; contact an APD.
- 6) Same as 5 (lower priority basis).
- 7) Continue O&M. Reduce disturbance potential where practical. Remove when practical and cost effective; contact an APD.
- 8) Continue O&M until major renovation/demolition requires removal under NESHAPs or until hazard potential changes. Remove when practical and cost effective; contact an APD.

CLIENT:

Sequoia Union High School District

480 James Ave.

Redwood City, CA 94062

ATTENTION: Walter Haub

REF .:

AHERA Re-inspection Sequoia High School 1201 Brewster Avenue Redwood City, CA 94062

1 PROJECT SUMMARY

F.I.T. Services conducted an AHERA re-inspection of Sequoia High School, located at 1201 Brewster Avenue Redwood City, California. Patrick Garrett a certified Asbestos Consultant and EPA-accredited Building Inspector, conducted the inspection on February 18, 2020.

2 FIELD AND ANALYTICAL METHODOLOGY

The inspection was conducted in accordance with protocol set forth in the Asbestos Hazard Emergency Response Act (AHERA) 40 CFR 763 Subpart E.

The re-inspection activities include the following elements:

- Visual inspection of known asbestos containing materials (ACM), both friable and non-friable.
- Identification of friable and non-friable ACM.
- Assessment of friable and damaged non-friable ACM.

3 RECOMMENDATIONS

During the inspection it was observed that new flooring had been installed throughout. Without documentation of abatement of original flooring, it is assumed that the original flooring was covered over with new floor tiles or carpet. ACM should be monitored and maintained as part of the Carlmont High School's operations and maintenance program until renovations or demolition activities require removal. Prior to removal or demolition activities these materials shall have samples collected by an EPA-accredited building inspector and analyzed via polarized light microscopy (PLM) in accordance with the method specified in appendix A Subpart F 40 CFR part 763, section 1. Remove or repair these materials when practical and cost effective in conjunction with an EPA-accredited Project Designer.

4 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for the use by Sequoia Union High School District and may not be relied upon by any other person or entity without F.I.T. Environmental Services express written permission. The information, conclusions, and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purpose, locations, time frames, and project parameters indicated. F.I.T. Environmental Services cannot be responsible for the impact of any changes in environmental standards, practices, or regulations after performance of services,

In performing our professional services, we have applied present engineering and scientific judgement and used a level of effort consistent with current standard of practice for similar types of studies.

As applicable, F.I.T. Environmental Services has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, F.I.T. Environmental Services accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

F.I.T. Environmental Services will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. F.I.T. Services makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusion, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

If you have any questions, please do not hesitate to contact the undersigned at 707-205-5706. We appreciate the opportunity to be of service to Sequoia Union High School District.

5 SIGNATORY

Respectfully Submitted by:

F.I.T. Environmental Services

Patrick Garrett, CAC (#15-5359)

Vice President, Principal Consultant

Reviewed by:

Meaned Name

F.I.T. Environmental Services

Michael Michie, CAC (#11-4729)

President, Principal Consultant

Appendix A

Material Inventories



Sequoia Union High School District

20-011 Project No.: Client:

AHERA re-inspection-Sequoia High School **Project Name**

Patrick Garrett Re-inspection:

Material Class (1)	Material	Material Location	Current	Friable	Approximate	Results (3)/	Recommendations/
A Company States and the second			Assessment (2)	(Y or N)	Quantity	Percentage	Response Action (4)
Σ	Vinyl Floor Tile & Mastic	Music & Auditorium			2,700 sf.		Abated/Removed
Σ	12" White VFT & Mastic	General Metals & Lenkurt			3,500 sf.		Abated/Removed
Σ	9" Brown VFT & Mastic	Former Auto Shop			3,000 sf.		Abated/Removed
TSI	Elbow Insulation	Former Auto Shop			30 ea.		Abated/Removed
TSI	Pipe Insulation	Former Auto Shop			710 ln. ft.		Abated/Removed
TSI	Elbow Insulation	Former Wood Shop			70 ea.		Abated/Removed
TSI	Pipe Insulation	Former Wood Shop			300 ln. ft.		Abated/Removed
TSI	Elbow Insulation (Steam)	Main Academic Building All Floors	ON	>	500 ea.	POS	Abated/Removed
TSI	Pipe Insulation (Steam)	Main Academic Building All Floors	ND	>	1,000 ln. ft.	POS	Abated/Removed
Σ	Ceiling Panels	Main Academic Building All Floors	ND	>	37,000 sf.	POS	8
Σ	Asbestos Cement Panel	Main Academic Building All Floors	ND	z	10,800 sf.	POS	8
Σ	9" Vinyl Floor Tile & Mastic	Main Academic Building All Floors	ND	z	14,900 sf.	POS	8
Σ	Ceiling Panels	Cafeteria/Student Union	QN	>	5,000 sf.	POS	∞
Σ	9" & 12" Vinyl Floor Tile &	Cafeteria/Student Union	QN	z	1400 sf.	POS	8
	Mastic						
Σ	Asbestos Cement Panel	Cafeteria/Student Union	QN	z	1,500	POS	8
Σ	9" Off White W/lite Grey VFT & Mastic covered with Metal	Girl's Gym PE 2	SD	z	50 sf.	POS	8
Σ	9" Off White W/lite Grey VFT & Mastic	Girl's Gym PE Rooms	ND	z	6,100 sf.	POS	8
TSI	Elbow Insulation (steam)	Girl's Gym	ND	>	28 ea.	POS	8
TSI	Pipe Insulation (Steam)	Girl's Gym	ND	>	132 ln. ft.	POS	8
TSI	Elbow Insulation (Steam)	Boy's Gym	ND	>	80 ea.	POS	8
TSI	Elbow Insulation (Hot Water)	Boy's Gym	ND	>	50 ea.	POS	∞
Σ	Vinyl Floor Tile & Mastic	Building Q-Music/Theatre					Abated/Removed

S: Surfacing, TSI: thermal system insulation, M: miscellaneous

ND: not damaged, D: damaged, SD: significantly damaged POS: positive for asbestos, NEG: negative for asbestos, ASSUMED: not sampled, assumed asbestos containing. (1) (2) (2) (4)

For response actions 1-8 refer to "Response Action Ratings Sheet"

Appendix B

F.I.T. Services Certifications

Division of Occupational Safety and Health **Certified Asbestos Consultant**

Patrick J Garrett



Certification No. 15-5359

Expires on 02/11/21

This certification was issued the Division of Occupational Sefety and Health as authorized by Sections 7180 at Seq. of the Business and Professions Code.

AHERA INSPECTION REPORT (1989)

SAMPLE / MATERIAL LOCATION DIAGRAMS

As part of the AHERA Asbestos Inspection the locations of samples collected are recorded on building diagrams. In addition to the sample locations, specific damage areas are recorded where found. The following pages provide the sample location diagrams for the School District. These drawings are organized in the same manner as the inspection/management plan data, i.e. campus one building one is first.

The title block contains the specific state, district, campus, and building or code with a 12 digit number. Next is the District Name, the Campus Name, and finally the Building Name. The next block provides the date the drawing was made, the street number, and finally the H-K drawing number.

The drawing uses several symbols and cross-hatching patterns to illustrate the key elements of the survey information.

SAMPLE LOCATION: The specific locations of samples are found on a point on the drawing leading to a symbol indicating the sample number and the Bulk Sample (BS) Code, which represents the type of material sampled. The Bulk Sample Code descriptions used are as follows:

BS CODE	DESCRIPTION	BS CODE	DESCRIPTION
0	Unknown	26	Transite Pipe
1	Acoustical Plaster	27	Transite Hood
2	Acoustical/Thermal Insul	28	Asbestos Pads
3	Hardwall/Ceiling Plaster	29	Asbestos Glove
2 3 4 5 6 7 8 9	Vinyl Floor Tile	30 🚜	*Asbestos Rope
5	Pipe Covering	31	Raw Asbestos
6	Corrugated Pipe Covering	32	Electrical Wiring
7	Wrapped Paper Pipe Cover	33	Fire Hose
8	Boiler/Tank Insulation	34	Fire Door
	Breeching/Exhaust Packing	35	Fire Suit
10	Woven Paper/Tape	36	Fire Brick
11	Drop or Lay-in Panel	37	Lab Counter Top
12	Acoustical Tile (1x1)	38	Fiber Frack Kiln
13	Fire or Stage Curtain	39	Tongs
14	MJP on Non-Suspect Pipe	40	Poured in Insulation
15	MJP on Pipe Covering	41	Contaminated Soil
16	MJP on Corr. Pipe Cover	42	Tectum
17	MJP on Wrapped Pipe Cover	43	Floor Underlayment
18	Fireproofing	44	Hard Grout
19	Vibration Joint Cloth	45	Mortar
20	Interior Duct Insulation	46	Blown or Scratch Coat
21	Exterior Duct Insulation	47	Oven/Autoclave Lining
22	Blown-in Insulation	48	Brake Lining
23	Stored Insulation	49	Theatre Curtain
24	Debris	50	Transite Siding
25	Gasket .	99	Other

DAMAGE AREAS: When the inspector encounters a section of material in a Unified Sampling Area (USA) which contains localized damage in worse condition than the remainder of the same material contained in this USA, a Damage Area indicator is placed on the drawing. This symbol contains specific information about the damaged area.

Type of Material - The BS Code of the material is indicated so that the type of material can be determined. See the previous section for the listing of the BS codes used.

Quantity - The quantity of material which was found to be damaged is also indicated.

Location - The location of the localized damage is indicated in the symbol. This provides assistance in identifying where the damage can be found.

Response Action - This is the code for the recommended AHERA response action. The following codes are used:

- 1. Isolate Area Immediately
- 2. Gross Removal
- 3. Glove Bag Removal
- 4. Encapsulation
- 5. Enclosure
- 6. Repair and O&M
- 7. O&M and Monitor

CROSSHATCHING: Crosshatching patterns are used to detail the location of ceiling and floor material suspected of containing asbestos. There are three patterns used:

Floor Tile - This pattern is used to indicate floor tile and sheet flooring material suspected of containing asbestos.

Drop / Lay-in, Accoustical - This pattern is used to indicate the locations of a variety of ceiling tiles including, but not limited, to 1' x 1' and 2' x 4' lay-in panels.

Spray / Trowel Applied Materials - This pattern is used to indicate the presence of spray and trowel applied materials such as fireproofing and acoustical plaster.

LOCATION of CAUTION LABEL: The AHERA regulations require the use of labels indicating the presence of Asbestos Containing Building Material (ACBM). The label is to be place on or near ACBM in routine maintenance areas in all school buildings. When this label is applied in the field the inspector identifies its' location on the sample location diagram. On the drawing, the label symbol contains information about its placement within the routine maintenance area so that it may be readily found by the LEA. The label states the following.

CAUTION

ASBESTOS. HAZARDOUS.

DO NOT DISTURB

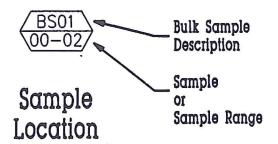
WITHOUT PROPER TRAINING

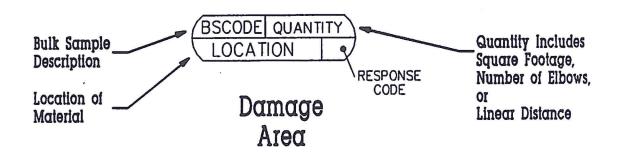
AND EQUIPMENT

The presence of sample numbers, crosshatching, and damage areas does not mean that all of the areas indicated contain asbestos. These location diagrams are a record of the field inspection only and are meant to show where samples were taken and what areas may be affected if asbestos is present. To determine which areas are affected, a review of the Inspection / Management Plan Data and the Petrographic Results contained in Sections 4 and 5 should be made. If desired, the location diagrams can be highlighted by the school district's asbestos coordinator to indicate the presence of asbestos containing material.



Location of Caution Label







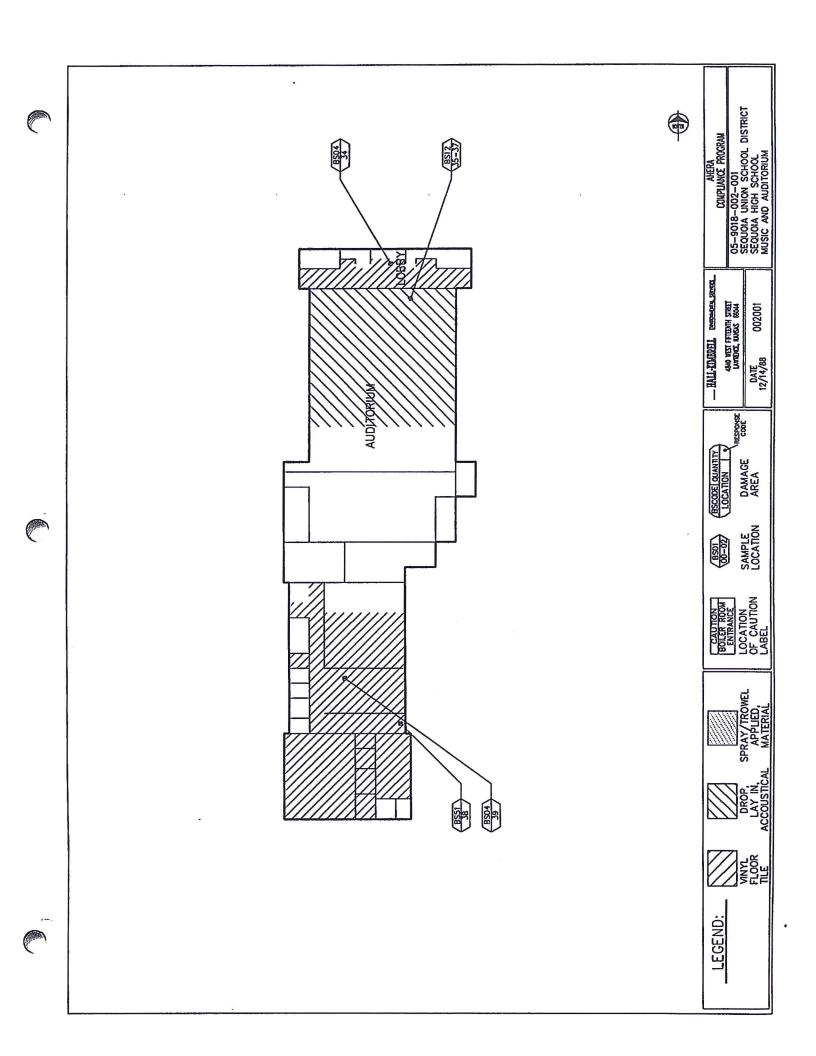
Vinyl Floor Tile

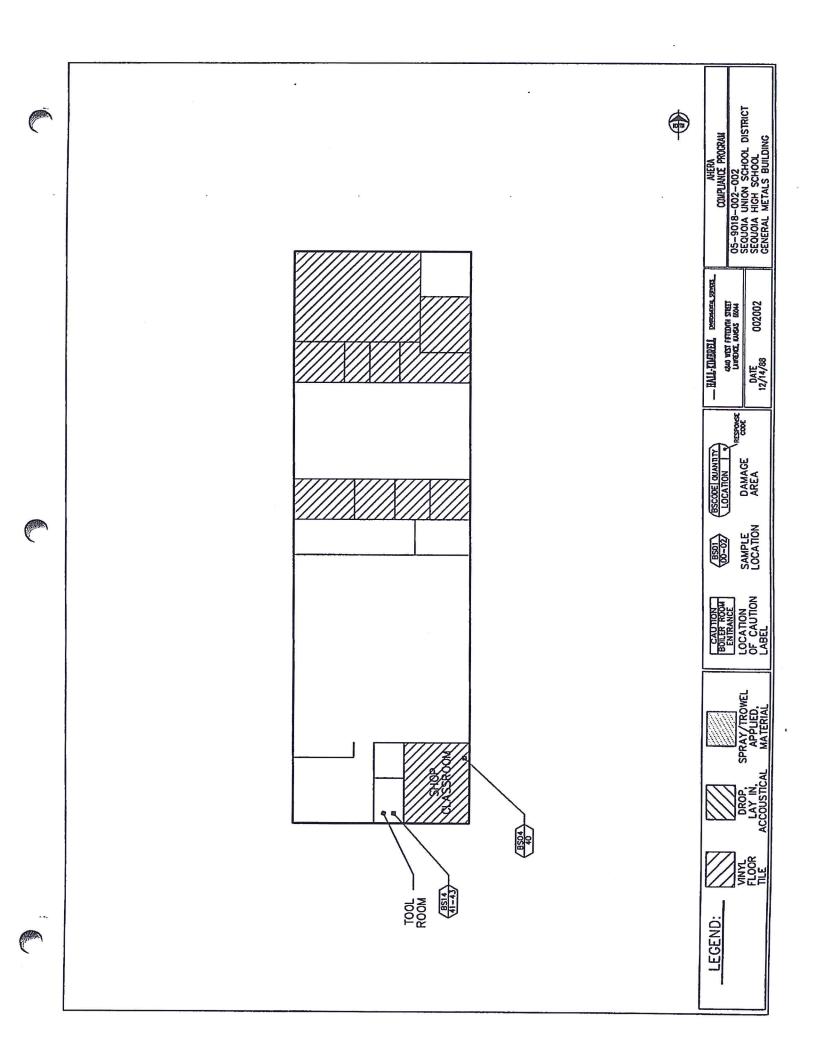


Drop, Lay In, Accoustical

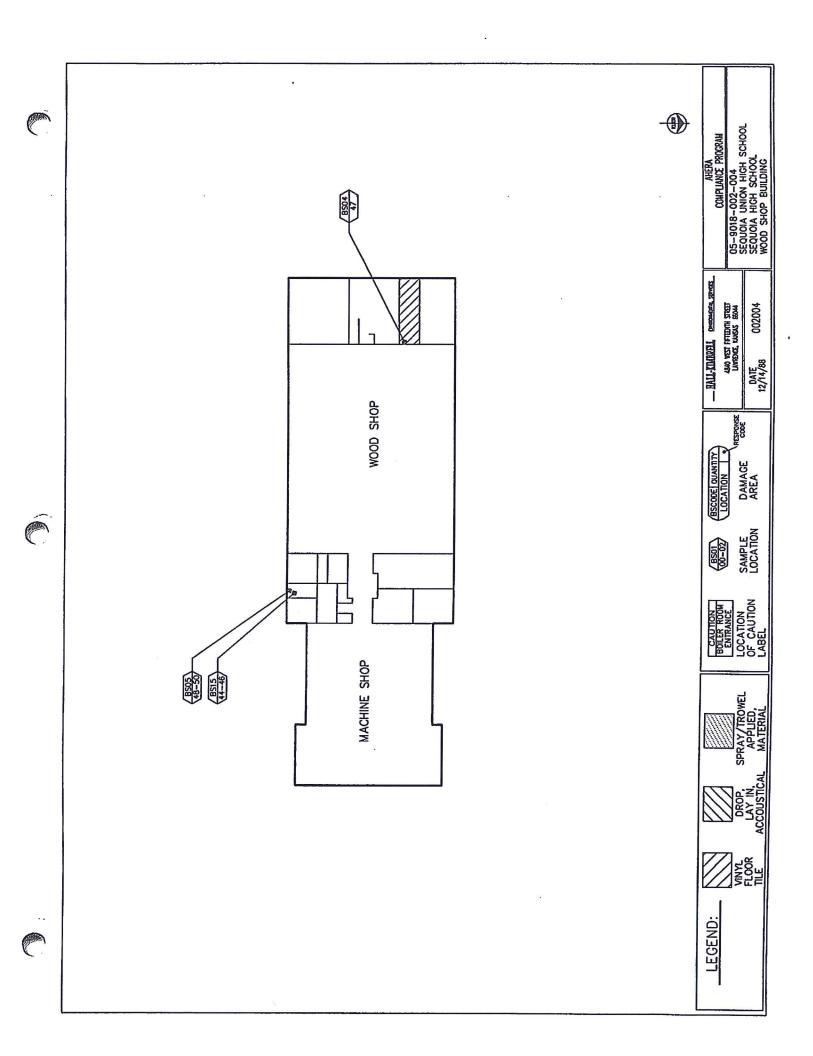


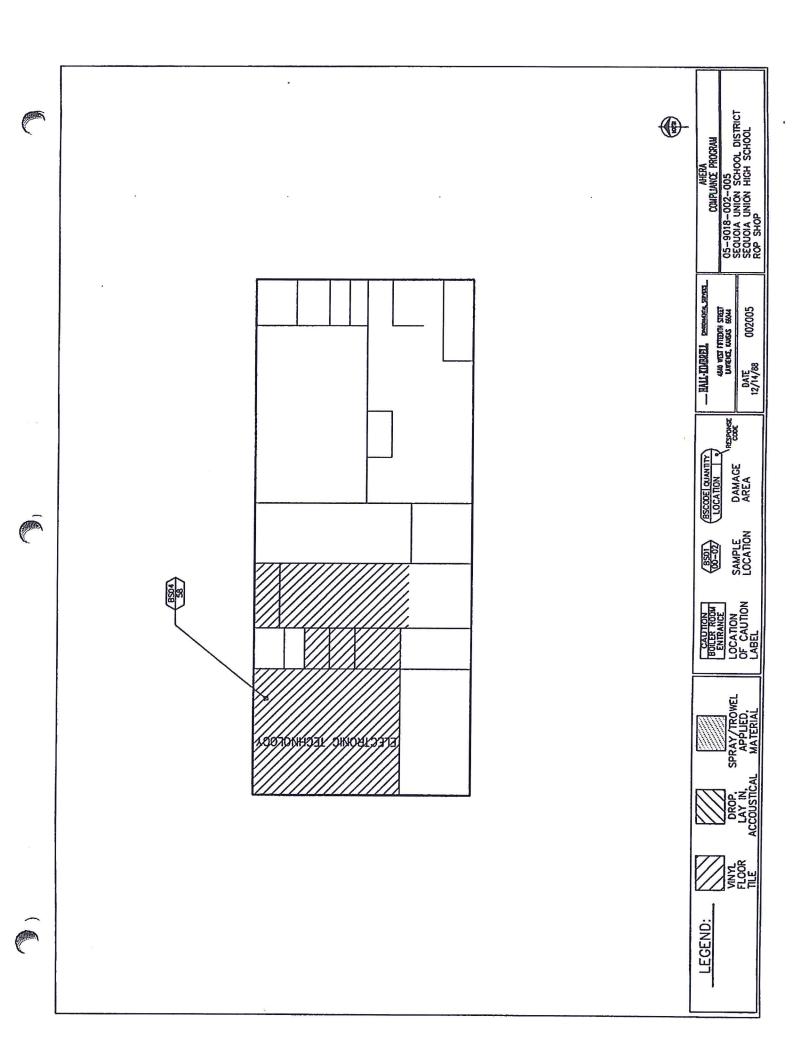
Spray Applied Material

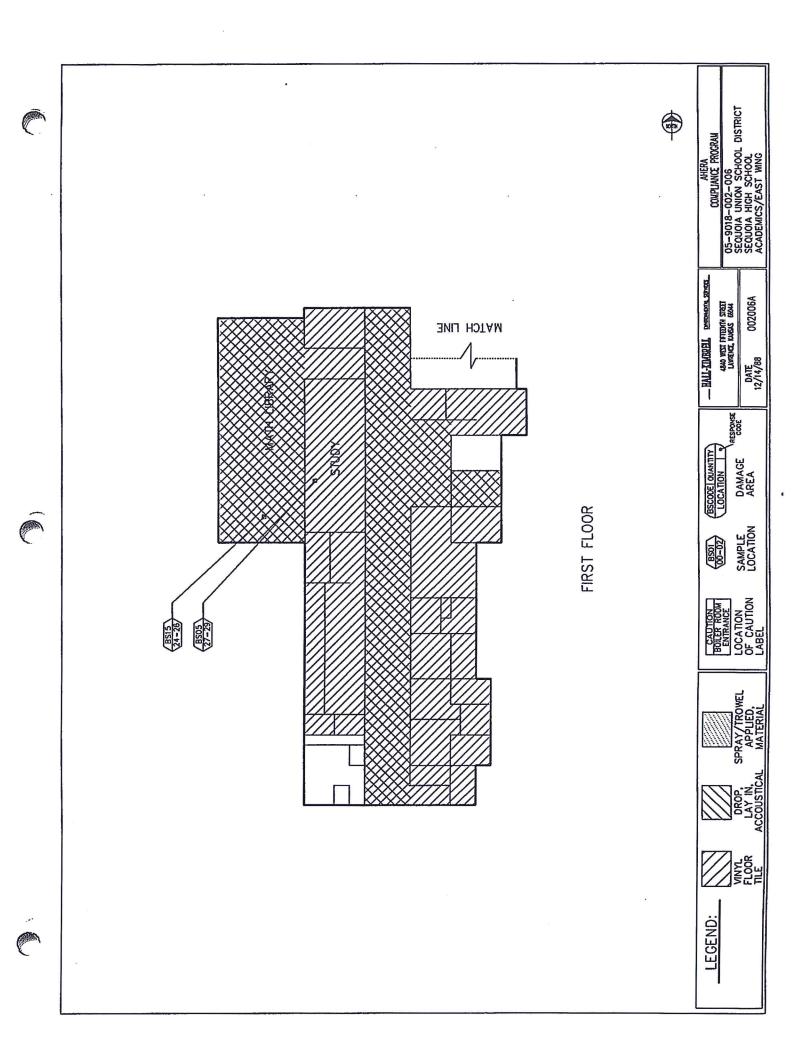


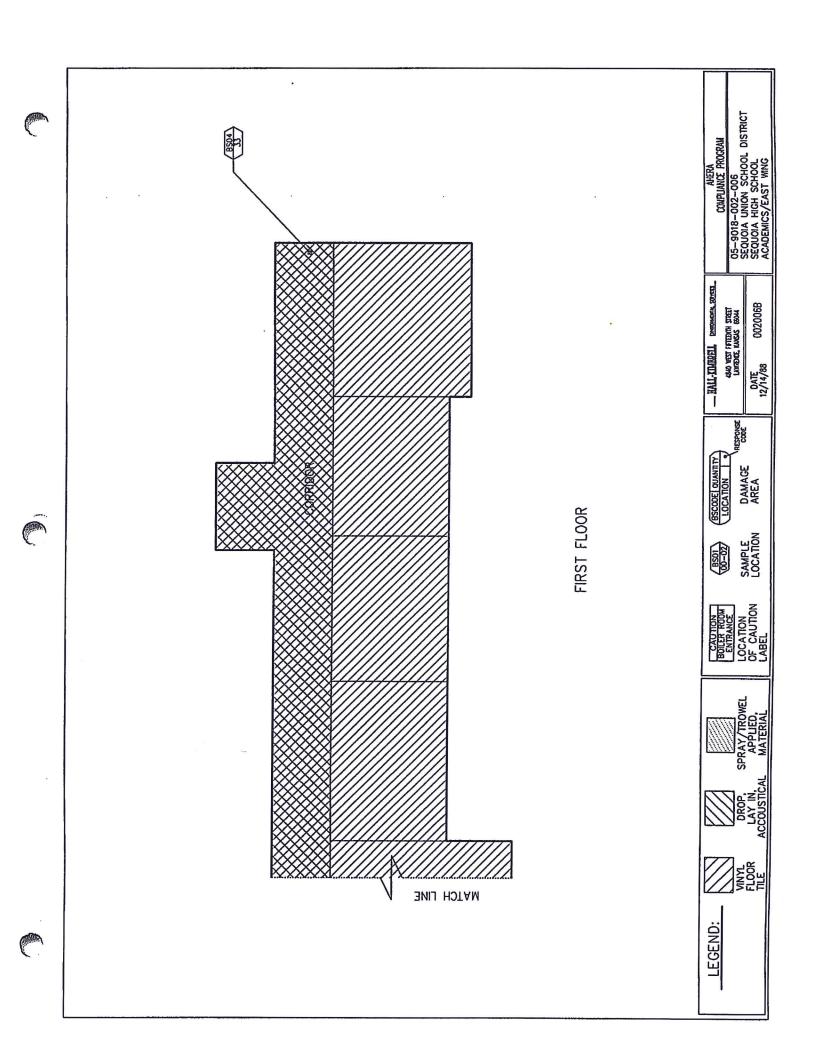


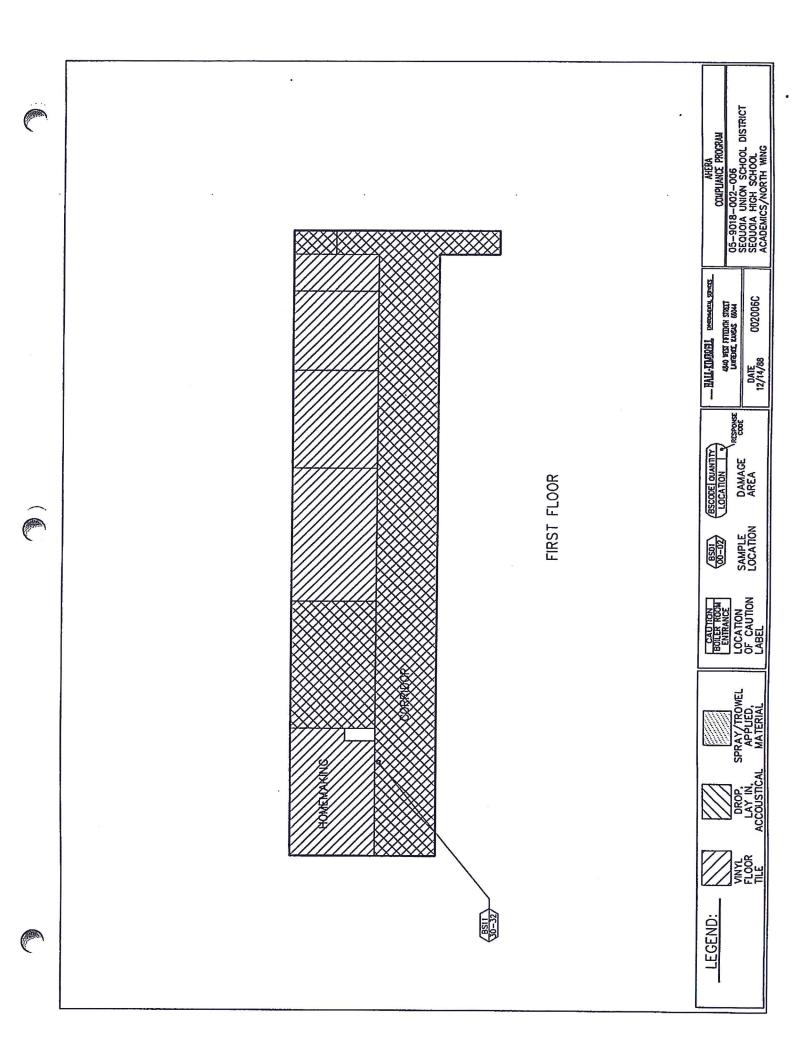
HALL-TOARDEL PARTAGEN SPACE AUTO SHOP 4840 WEST FFTEDRIN STREET LAWEDICE, KANSAS 66044 STORAGE TOILET

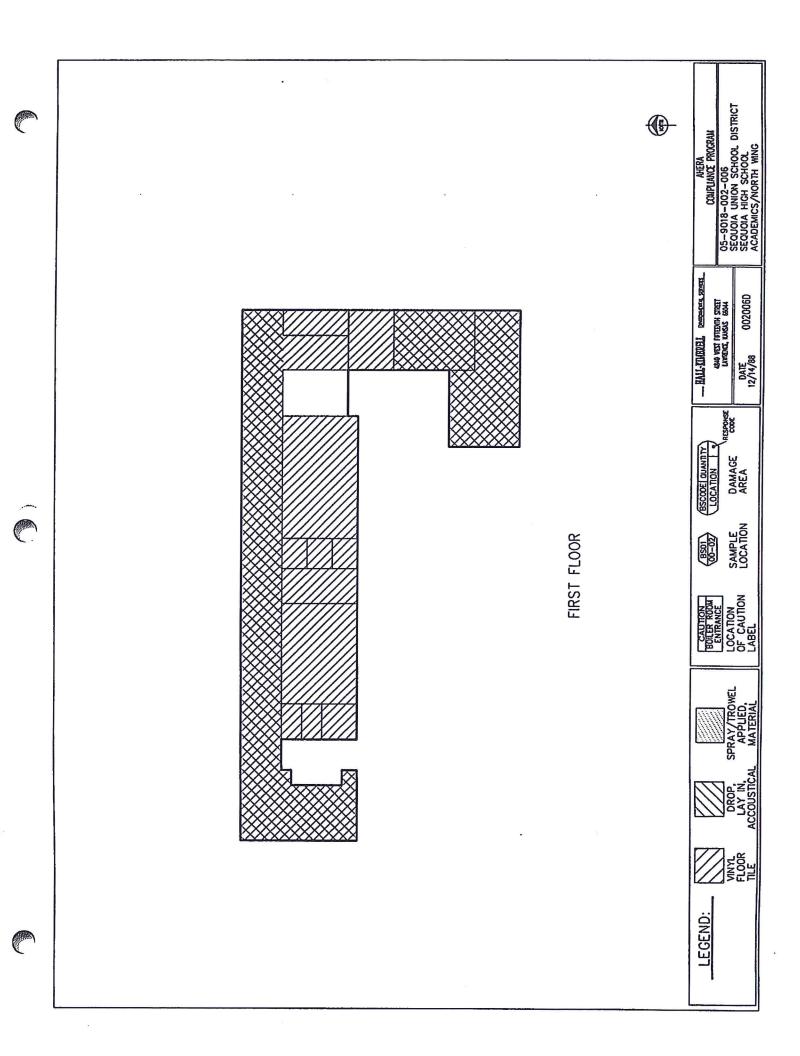


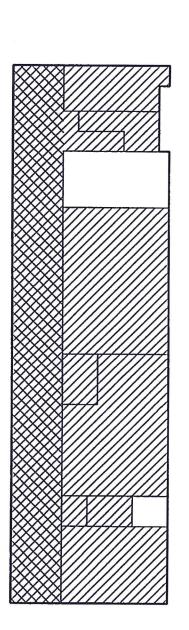












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