



Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

## LIMITED LEAD-BASED PAINT INSPECTION REPORT

Conducted at:

ROWLAND ELEMENTARY SCHOOL  
HVAC REPLACEMENT PROJECT  
1355 EAST ROWLAND AVENUE  
WEST COVINA, CALIFORNIA 91790

Prepared for:

MR. BRIAN JOHNSON  
ASSISTANT DIRECTOR OF MAINTENANCE & OPERATION, FACILITIES &  
TRANSPORTATION  
COVINA-VALLEY UNIFIED SCHOOL DISTRICT  
519 EAST BADILLO STREET  
COVINA, CALIFORNIA 91723

Prepared by:

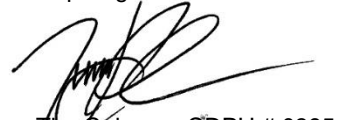
EXECUTIVE ENVIRONMENTAL  
310 EAST FOOTHILL BOULEVARD, SUITE 200  
ARCADIA, CALIFORNIA 91006

Project Number EE 23-Z0172-0077  
June 13, 2023

Report assembled by:

  
Yesenia G. Galeana  
Technical Report Writer  
Executive Environmental

Report generated/reviewed by:

  
Tim Galeana, CDPH # 0395  
Senior Project Manager  
Executive Environmental

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## LIMITED LEAD-BASED PAINT INSPECTION

**Project Number:** EE 23-Z0172-0077

**Client:** Covina-Valley Unified School District  
519 East Badillo Street  
Covina, California 91723

**Site Location:** Rowland Elementary School  
HVAC Replacement Project  
1355 East Rowland Avenue  
West Covina, California 91790

**Site Use:** School Property

**Contact Person:** Mr. Brian Johnson  
Assistant Director of Maintenance & Operations, Facilities  
and Transportation  
Phone: (626) 974-7000, ext. 800145

**Inspection Date:** May 17 thru 22, 2023

**Inspected By:** Mr. Tim Galeana  
Certified Lead Professional, CDPH # 0395

**Report Assembled By:** Ms. Yesenia G. Galeana  
Technical Report Writer

**Report Generated/Reviewed By:** Mr. Tim Galeana  
Certified Lead Professional, CDPH # 0395

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### **I. EXECUTIVE SUMMARY**

Executive Environmental (EE) provided the services of a Certified Lead Professional (CLP) to conduct a limited lead-based paint inspection of Buildings B (MPR), C, D, F, H, I, J and K at Rowland Elementary School located at 1355 East Rowland, West Covina, California. The inspection was conducted as a precursor to the upcoming HVAC Replacement Project. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Regulated lead-based paint and lead containing materials were detected during this inspection. EE's CLP conducted these services on May 17 thru 22, 2023. *This is considered to be a limited inspection. The inspection was limited to surfaces and components anticipated to be impacted by the HVAC Replacement project, as directed by the District Representative.*

### **II. SAMPLING PROTOCOL**

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard

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Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of at least 1.0 mg/cm<sup>2</sup> (milligrams per centimeter squared) by X-Ray Fluorescence (XRF) readings, or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program (CLPPP), established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 milligrams per centimeter squared (mg/cm<sup>2</sup>) by XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm<sup>2</sup> action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction Rule 29 Code of Federal Regulation (CFR) 1926.62 and California Code of Regulations Title 8, Section 1532.1 Lead (8CCR1532.1) and Title 8, Section 5198, Lead (8CCR5198). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

### III. SAMPLING METHODOLOGY

A visual inspection of Buildings B (MPR), C, D, F, H, I, J and K was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being coated with lead-based paint that may be impacted by the *HVAC Replacement project*. After identifying the materials suspected of being coated with a lead-based paint, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g., classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint or ceramic glaze was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm<sup>2</sup>). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Heuresis.

The following specifications apply to the Viken Detection XRF (formerly Heuresis):

- Ability to report Positive and Negative determination at 1.0mg lead/cm<sup>2</sup> with 2-sigma confidence with measurement time of 1-3 nominal seconds on most lead paint samples.
- Detects lead at 0.1 mg/cm<sup>2</sup> with 2-sigma confidence with a measurement time of 1 second on most samples.
- Equipped with a <sup>57</sup>Co sealed source, 5mCi (185 MBq), radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

#### IV. SAMPLE ANALYSIS

According to local, state and federal standards, the following surfaces and/or components that were analyzed with the Viken Detection XRF (formerly Heuresis) XRF instrument during this inspection are considered to be coated with lead-based paint or a lead containing material.

<b>SAMPLE ANALYSIS DATA</b> Rowland Elementary School 1355 East Rowland Avenue West Covina, California 91790				
Location	Component	Substrate	Estimated Quantity	XRF Result Mg/cm <sup>2</sup>
<b>Building B (MPR)<sup>A</sup></b>				
Mechanical mezzanine (B113B)	Handrails	Metal	28 Linear Feet	1.4
<b>Building C- Rooms K-1 and K-2 (G101 and G102)</b>				
Exterior at AC condenser unit for Room K-2 (G101)	1" Flexible conduit	Conduit	2 Linear Feet	0.8
<b>Building D - Rooms 3 thru 5 (C101 thru C103)</b>				
Exterior at AC condenser unit for Room 3 (C101) and Room 4 (C102)	1" Flexible conduit	Conduit	6 Linear Feet	0.8
<b>Building F - Rooms 8 thru 10 (D101 thru D103)</b>				
Exterior at AC condenser unit for Room 8 (D101), Room 9 (D102) and Room 10 (D103)	1" Flexible conduit	Conduit	9 Linear Feet	1.5, 0.8

*Note: This table must be used in conjunction with the entire report.*

<sup>A</sup> NOTE: 1) Wall from Mechanical (B113) continuous to Mechanical mezzanine (B113B). 2) Ladder & mechanical equipment in Mechanical (B113) & Mechanical mezzanine (B113B), not coated. 3) Vent pipe on roof above Mechanical (B113), not coated.

<b>SAMPLE ANALYSIS DATA</b> Rowland Elementary School 1355 East Rowland Avenue West Covina, California 91790				
Location	Component	Substrate	Estimated Quantity	XRF Result Mg/cm <sup>2</sup>
<b>Building H - Rooms 12 thru 14 (E101 thru E103)</b>				
Exterior at AC condenser unit for Room 12 (E101), Room 13 (E102) and Room 14 (E103)	1" Flexible conduit	Conduit	9 Linear Feet	2.4
<b>Building I - Rooms 15 thru 17 (I101 and I103)</b>				
Exterior at AC condenser unit for Room 15 (I101), Room 16 (I102) and Room 17 (I103)	1" Flexible conduit	Conduit	9 Linear Feet	2.6
<b>Building J - Rooms 18 thru 20 (J104 thru J106)</b>				
Exterior at AC condenser unit for Room 18 (J104), Room 19 (J105) and Room 20 (J106)	1" Flexible conduit	Conduit	9 Linear Feet	3.3
<b>Building K - Rooms 21 thru 23 (I107 thru I109)</b>				
Exterior at AC condenser unit for Room 21 (I107), and Room 22 (I108)	1" Flexible conduit	Conduit	6 Linear Feet	3.1

*Note: This table must be used in conjunction with the entire report.*

## V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a limited lead-based paint inspection Buildings B (MPR), C, D, F, H, I, J and K at Rowland Elementary School located at 1355 East Rowland, West Covina, California. The following conclusions and/or recommendations apply:

### **Limited Lead-Based Paint Inspection**

- Interior and exterior surfaces/components of Buildings B (MPR), C, D, F, H, I, J and K anticipated to be impacted by the HVAC Replacement Project were tested via the Viken Detection XRF for the presence of lead.
- The items listed in the previous tables were identified as being a coated with a lead-based paint or a lead containing material.
- The painted surfaces/components tested were observed to be in intact during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results.

It is recommended that all renovation, remodelling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint be performed by properly trained and qualified personnel, any identified lead containing materials be removed and disposed of properly.

## **VI. DISCLAIMER/REPORT LIMITATIONS**

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

## **APPENDIX A – XRF SUMMARY RESULTS**



Covina Valley USD  
Rowland Elementary School

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
1	5/17/23			Calibrate					1	Positive	0.7
2	5/17/23			Calibrate					1	Positive	0.7
3	5/17/23			Calibrate					0.9	Positive	0.7
4	5/17/23	Building B (MPR)	Mechanical room (B113)	Wall	Plaster	A	Intact	Beige	0.1	Negative	0.7
5	5/17/23	Building B (MPR)	Mechanical room (B113)	Wall	Plaster	B	Intact	Beige	0	Negative	0.7
6	5/17/23	Building B (MPR)	Mechanical room (B113)	Wall	Plaster	C	Intact	Beige	0	Negative	0.7
7	5/17/23	Building B (MPR)	Mechanical room (B113)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
8	5/17/23	Building B (MPR)	Mechanical room (B113)	Gas pipe	Metal	D	Intact	Beige	0.1	Negative	0.7
9	5/17/23	Building B (MPR)	Mechanical room (B113)	Conduit	Metal	D	Intact	Beige	0	Negative	0.7
10	5/17/23	Building B (MPR)	Mechanical room (B113)	Ribbed conduit	Metal	D	Intact	Beige	0.1	Negative	0.7
11	5/17/23	Building B (MPR)	Mechanical room (B113)	Ceiling beam	Metal	Upper	Intact	Red	0.1	Negative	0.7
12	5/17/23	Building B (MPR)	Mechanical room (B113)	Pipe	Metal	B	Intact	Beige	0.2	Negative	0.7
13	5/17/23	Building B (MPR)	Mechanical mezzanine (B113B)	Ceiling	Plaster	Upper	Intact	Beige	0	Negative	0.7
<b>14</b>	<b>5/17/23</b>	<b>Building B (MPR)</b>	<b>Mechanical mezzanine (B113B)</b>	<b>Hand rail</b>	<b>Metal</b>	<b>A</b>	<b>Intact</b>	<b>Red</b>	<b>1.4</b>	<b>Positive</b>	<b>0.7</b>
15	5/17/23	Building B (MPR)	Mechanical mezzanine (B113B)	Floor beam	Metal	Lower	Intact	Red	0	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
16	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Wood	A	Intact	Grey	0.2	Negative	0.7
17	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Plaster	A	Intact	Grey	0	Negative	0.7
18	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Wood	B	Intact	Grey	0.1	Negative	0.7
19	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Wood	C	Intact	Grey	0.1	Negative	0.7
20	5/17/23			Calibrate					0.7	Positive	0.7
21	5/17/23			Calibrate					0.9	Positive	0.7
22	5/17/23			Calibrate					0.9	Positive	0.7
23	5/17/23			Calibrate					0.9	Positive	0.7
24	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Plaster	C	Intact	Grey	0.1	Negative	0.7
25	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Wall	Plaster	D	Intact	Grey	0.1	Negative	0.7
26	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Vent	Metal	D	Intact	Grey	0.2	Negative	0.7
27	5/17/23	Building B (MPR)	Multi-purpose room (B101)	Vent	Metal	B	Intact	Grey	0.3	Negative	0.7
28	5/17/23	Building B (MPR)	Exterior	Wall	Stucco	A	Intact	Beige	0	Negative	0.7
29	5/17/23	Building B (MPR)	Exterior	Wall	Stucco	B	Intact	Beige	0	Negative	0.7
30	5/17/23	Building B (MPR)	Exterior	Wall	Stucco	C	Intact	Beige	0	Negative	0.7
31	5/17/23	Building B (MPR)	Exterior	Wall	Stucco	D	Intact	Beige	0	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
32	5/17/23	Building B (MPR)	Exterior at mechanical room	Vent	Metal	D	Intact	Beige	0.2	Negative	0.7
33	5/17/23	Building B (MPR)	Exterior above mechanical room	Roof	Roofing material	Roof	Intact	Grey	0.3	Negative	0.7
34	5/17/23	Building B (MPR)	Exterior above mechanical room	Vent pipe flashing	Metal	Roof	Intact	Grey	0.3	Negative	0.7
35	5/17/23	Building C	Room K-2 (G101)	Wall	Concrete	A	Intact	White	0.2	Negative	0.7
36	5/17/23	Building C	Room K-2 (G101)	Wall	Plaster	B	Intact	White	0	Negative	0.7
37	5/17/23	Building C	Room K-2 (G101)	Wall	Plaster	C	Intact	Tan	0	Negative	0.7
38	5/17/23	Building C	Room K-2 (G101)	Wall	Concrete	C	Intact	White	0	Negative	0.7
39	5/17/23	Building C	Room K-2 (G101)	Wall	Plaster	D	Intact	White	0.1	Negative	0.7
40	5/17/23	Building C	Room K-2 (G101)	Thermostat conduit	Metal	C	Intact	Tan	0.2	Negative	0.7
41	5/17/23	Building C	Room K-2 (G101)	Thermostat box	Metal	C	Intact	Tan	0.2	Negative	0.7
42	5/17/23	Building C	Room K-2 (G101)	Window panel	Wood	C	Intact	Beige	0.1	Negative	0.7
43	5/17/23	Building C	Room K-2 (G101)	Window frame	Metal	C	Intact	Beige	0.3	Negative	0.7
44	5/17/23	Building C	Room K-2 (G101)	Vent box	Metal	C	Intact	Beige	0.1	Negative	0.7
45	5/17/23	Building C	Room K-2 (G101)	Electrical box	Metal	C	Intact	Beige	0.2	Negative	0.7
46	5/17/23	Building C	Room K-2 (G101)	Ribbed conduit	Metal	C	Intact	Beige	0.4	Negative	0.7
47	5/17/23	Building C	Room K-2 (G101)	Pipe covering	Tape material	C	Intact	Beige	0.1	Negative	0.7
48	5/17/23	Building C	Room K-2 (G101)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
49	5/17/23	Building C	Room K-2 (G101)	12" ceiling tile	Acoustic tile	Upper	Intact	White	0.1	Negative	0.7
50	5/17/23	Building C	Room K-1 (G102)	Wall	Concrete	A	Intact	White	0.2	Negative	0.7
51	5/17/23	Building C	Room K-1 (G102)	Wall	Plaster	B	Intact	White	0	Negative	0.7
52	5/17/23	Building C	Room K-1 (G102)	Wall	Concrete	C	Intact	White	0.2	Negative	0.7
53	5/17/23	Building C	Room K-1 (G102)	Wall	Plaster	D	Intact	White	0	Negative	0.7
54	5/17/23	Building C	Room K-1 (G102)	Window panel	Wood	C	Intact	Beige	0	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
55	5/17/23	Building C	Room K-1 (G102)	Window frame	Metal	C	Intact	Beige	0.3	Negative	0.7
56	5/17/23	Building C	Room K-1 (G102)	Vent duct	Metal	C	Intact	Beige	0.1	Negative	0.7
57	5/17/23	Building C	Room K-1 (G102)	Electrical box	Metal	C	Intact	Black	0.2	Negative	0.7
58	5/17/23	Building C	Room K-1 (G102)	Ribbed conduit	Metal	C	Intact	Black	0.2	Negative	0.7
59	5/17/23	Building C	Room K-1 (G102)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
60	5/17/23	Building C	Room K-1 (G102)	12" ceiling tile	Acoustic tile	Upper	Intact	White	0.1	Negative	0.7
61	5/17/23	Building C	Exterior	Wall	Texture coat on concrete	A	Intact	Blue	0.2	Negative	0.7
62	5/17/23	Building C	Exterior	Wall	Stucco	B	Intact	Beige	0	Negative	0.7
63	5/17/23	Building C	Exterior	Wall	Texture coat on concrete	C	Intact	Beige	0.3	Negative	0.7
64	5/17/23	Building C	Exterior	Wall	Stucco	D	Intact	Beige	0	Negative	0.7
65	5/17/23	Building C	Exterior at AC condenser	Conduit	Metal	C	Intact	Beige	0.1	Negative	0.7
66	5/17/23	Building C	Exterior at AC condenser	Condensation line	Metal	C	Intact	Beige	0	Negative	0.7
67	5/17/23	Building C	Exterior at AC condenser	Conduit bracket	Metal	C	Intact	Beige	0.1	Negative	0.7
68	5/17/23			Calibrate					1	Positive	0.7
69	5/17/23			Calibrate					1	Positive	0.7
70	5/17/23			Calibrate					1	Positive	0.7
72	5/18/23			Calibrate					0.9	Positive	0.7
73	5/18/23			Calibrate					1	Positive	0.7
74	5/18/23			Calibrate					0.9	Positive	0.7
76	5/18/23	Building C	Exterior at AC condenser	Conduit cover	Metal	C	Intact	Beige	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
77	5/18/23	Building C	Exterior at AC condenser	Window panel	Wood	C	Intact	Beige	0.1	Negative	0.7
78	5/18/23	Building C	Exterior at AC condenser	Window frame	Metal	C	Intact	Beige	0.4	Negative	0.7
79	5/18/23	Building C	Exterior at AC condenser	Vent cover	Metal	C	Intact	Beige	0.1	Negative	0.7
<b>80</b>	<b>5/18/23</b>	<b>Building C</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>C</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>0.8</b>	<b>Positive</b>	<b>0.7</b>
81	5/18/23	Building C	Exterior at AC condenser	1" Flexible conduit	Conduit	C	Intact	Grey (not painted)	0.2	Negative	0.7
82	5/18/23	Building C	Exterior	Roof	Roofing material	C	Intact	Grey	0.1	Negative	0.7
83	5/18/23	Building D	Room 3 (C101)	Wall	Concrete	A	Intact	Beige	0.1	Negative	0.7
84	5/18/23	Building D	Room 3 (C101)	Wall	Plaster	B	Intact	Beige	0.1	Negative	0.7
85	5/18/23	Building D	Room 3 (C101)	Wall	Concrete	C	Intact	Beige	0.1	Negative	0.7
86	5/18/23	Building D	Room 3 (C101)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
87	5/18/23	Building D	Room 3 (C101)	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
88	5/18/23	Building D	Room 3 (C101)	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
89	5/18/23	Building D	Room 3 (C101)	Condensation line	Tape material	A	Intact	Beige	0.1	Negative	0.7
90	5/18/23	Building D	Room 3 (C101)	Freon line	Foam over metal	A	Intact	Beige	0	Negative	0.7
91	5/18/23	Building D	Room 3 (C101)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
92	5/18/23	Building D	Room 3 (C101)	Ribbed conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
93	5/18/23	Building D	Room 3 (C101)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
94	5/18/23	Building D	Room 3 (C101)	12" ceiling tile	Acoustic tile	Upper	Intact	White	0.1	Negative	0.7
95	5/18/23	Building D	Room 4 (C102)	Wall	Concrete	A	Intact	Beige	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
96	5/18/23	Building D	Room 4 (C102)	Wall	Plaster	B	Intact	Beige	0.1	Negative	0.7
97	5/18/23	Building D	Room 4 (C102)	Wall	Concrete	C	Intact	Beige	0.3	Negative	0.7
98	5/18/23	Building D	Room 4 (C102)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
99	5/18/23	Building D	Room 4 (C102)	Thermostat conduit	Metal	D	Intact	Beige	0.3	Negative	0.7
100	5/18/23	Building D	Room 4 (C102)	Thermostat box	Metal	D	Intact	Beige	0	Negative	0.7
101	5/18/23	Building D	Room 4 (C102)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
102	5/18/23	Building D	Room 4 (C102)	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
103	5/18/23	Building D	Room 4 (C102)	Condensation line	Metal	A	Intact	Beige	0.3	Negative	0.7
104	5/18/23	Building D	Room 4 (C102)	Condensation line	Tape material on metal	A	Intact	Beige	0.2	Negative	0.7
105	5/18/23	Building D	Room 4 (C102)	Freon line	Foam over metal	A	Intact	Beige	0	Negative	0.7
106	5/18/23	Building D	Room 4 (C102)	Vent duct	Foam over metal	A	Intact	Beige	0	Negative	0.7
107	5/18/23	Building D	Room 4 (C102)	Ribbed conduit	Metal	A	Intact	Beige	0.3	Negative	0.7
108	5/18/23	Building D	Room 4 (C102)	Box above AC unit	Metal	Upper	Intact	White	0.1	Negative	0.7
109	5/18/23	Building D	Room 4 (C102)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7
110	5/18/23	Building D	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.2	Negative	0.7
111	5/18/23	Building D	Exterior	Wall	Stucco	B	Intact	Beige	0	Negative	0.7
112	5/18/23	Building D	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.4	Negative	0.7
113	5/18/23	Building D	Exterior	Wall	Stucco	D	Intact	Beige	0	Negative	0.7
114	5/18/23	Building D	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
115	5/18/23	Building D	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0	Negative	0.7
116	5/18/23	Building D	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0.1	Negative	0.7
117	5/18/23	Building D	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.1	Negative	0.7
118	5/18/23	Building D	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
119	5/18/23	Building D	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
120	5/18/23	Building D	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0.1	Negative	0.7
<b>121</b>	<b>5/18/23</b>	<b>Building D</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>A</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>0.8</b>	<b>Positive</b>	<b>0.7</b>
122	5/18/23	Building D	Exterior at AC condenser	1" Flexible conduit	Conduit	A	Intact	Grey (not painted)	0.2	Negative	0.7
123	5/18/23	Building D	Exterior at AC condenser	Cage frame	Metal	A	Intact	White	0.2	Negative	0.7
124	5/18/23	Building D	Exterior at AC condenser	Cage panel	Metal	A	Intact	White	0.1	Negative	0.7
125	5/18/23	Building D	Exterior	Roof	Roofing material	Roof	Intact	Grey	0.2	Negative	0.7
126	5/18/23	Building C	Exterior at AC condenser	Cage frame	Metal	C	Intact	White	0.3	Negative	0.7
127	5/18/23	Building C	Exterior at AC condenser	Cage panel	Metal	C	Intact	White	0.1	Negative	0.7
128	5/18/23	Building C	Exterior at AC condenser	Cage panel	Metal	C	Intact	White	0.3	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
129	5/18/23	Building F	Room 9 (D102)	Wall	Concrete	A	Intact	Beige	0.2	Negative	0.7
130	5/18/23	Building F	Room 9 (D102)	Wall	Plaster	B	Intact	Beige	0	Negative	0.7
131	5/18/23	Building F	Room 9 (D102)	Wall	Concrete	C	Intact	Beige	0.3	Negative	0.7
132	5/18/23	Building F	Room 9 (D102)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
133	5/18/23	Building F	Room 9 (D102)	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
134	5/18/23	Building F	Room 9 (D102)	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
135	5/18/23	Building F	Room 9 (D102)	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
136	5/18/23	Building F	Room 9 (D102)	Condensation line	Tape material on metal	A	Intact	Beige	0.2	Negative	0.7
137	5/18/23	Building F	Room 9 (D102)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
138	5/18/23	Building F	Room 9 (D102)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
139	5/18/23	Building F	Room 9 (D102)	Ribbed conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
140	5/18/23	Building F	Room 9 (D102)	Box above AC unit	Metal	Upper	Intact	White	0.2	Negative	0.7
141	5/18/23	Building F	Room 9 (D102)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.2	Negative	0.7
142	5/18/23	Building F	Room 10 (D103)	Wall	Concrete	A	Intact	Beige	0.3	Negative	0.7
143	5/18/23	Building F	Room 10 (D103)	Wall	Plaster	B	Intact	Beige	0.1	Negative	0.7
144	5/18/23	Building F	Room 10 (D103)	Wall	Concrete	C	Intact	Beige	0.1	Negative	0.7
145	5/18/23	Building F	Room 10 (D103)	Wall	Plaster	D	Intact	Beige	0.1	Negative	0.7
146	5/18/23	Building F	Room 10 (D103)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
147	5/18/23	Building F	Room 10 (D103)	Window frame	Metal	A	Intact	Beige	0.3	Negative	0.7
148	5/18/23	Building F	Room 10 (D103)	Condensation line	Metal	A	Intact	Beige	0.2	Negative	0.7
149	5/18/23	Building F	Room 10 (D103)	Condensation line	Tape material on metal	A	Intact	Beige	0.1	Negative	0.7
150	5/18/23	Building F	Room 10 (D103)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
151	5/18/23	Building F	Room 10 (D103)	Vent duct	Metal	A	Intact	Beige	0.2	Negative	0.7



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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
152	5/18/23	Building F	Room 10 (D103)	Ribbed conduit	Metal	A	Intact	Beige	0.1	Negative	0.7
153	5/18/23	Building F	Room 10 (D103)	Box above AC unit	Metal	Upper	Intact	White	0.2	Negative	0.7
154	5/18/23	Building F	Room 10 (D103)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.2	Negative	0.7
155	5/18/23	Building F	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.3	Negative	0.7
156	5/18/23	Building F	Exterior	Wall	Stucco	B	Intact	Beige	0.2	Negative	0.7
157	5/18/23	Building F	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.3	Negative	0.7
158	5/18/23	Building F	Exterior	Wall	Texture coat on concrete	D	Intact	Blue	0.1	Negative	0.7
159	5/18/23	Building F	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
160	5/18/23	Building F	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.1	Negative	0.7
161	5/18/23	Building F	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0.1	Negative	0.7
162	5/18/23	Building F	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
163	5/18/23	Building F	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0.1	Negative	0.7
164	5/18/23	Building F	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
165	5/18/23	Building F	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
166	5/18/23	Building F	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
168	5/18/23	Building F	Exterior at AC condenser	1" Flexible conduit	Conduit	A	Intact	Grey (not painted)	1.5	Positive	0.7
170	5/18/23	Building F	Exterior at AC condenser	1" Flexible conduit	Conduit	A	Intact	Grey (not painted)	0.8	Positive	0.7
171	5/18/23	Building F	Exterior at AC condenser	Cage frame	Metal	A	Intact	Grey	0.4	Negative	0.7
172	5/18/23	Building F	Exterior at AC condenser	Cage panel	Metal	A	Intact	Grey	0.3	Negative	0.7
173	5/18/23	Building F	Exterior at AC condenser	Cage panel	Metal	A	Intact	Grey	0.1	Negative	0.7
174	5/18/23	Building F	Exterior	Roof	Roofing material	Roof	Intact	Grey	0.1	Negative	0.7
175	5/18/23	Building D	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0.1	Negative	0.7
176	5/18/23			Calibrate					0.9	Positive	0.7
177	5/18/23			Calibrate					0.9	Positive	0.7
178	5/18/23			Calibrate					0.9	Positive	0.7
179	5/19/23			Calibrate					0.9	Positive	0.7
180	5/19/23			Calibrate					0.9	Positive	0.7
181	5/19/23			Calibrate					0.9	Positive	0.7
182	5/19/23	Building H	Room 13 (E102)	Wall	Concrete	A	Intact	Beige	0.1	Negative	0.7
183	5/19/23	Building H	Room 13 (E102)	Wall	Plaster	B	Intact	Blue	0	Negative	0.7
184	5/19/23	Building H	Room 13 (E102)	Wall	Concrete	C	Intact	Beige	0.2	Negative	0.7
185	5/19/23	Building H	Room 13 (E102)	Wall	Plaster	D	Intact	Blue	0	Negative	0.7
186	5/19/23	Building H	Room 13 (E102)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
187	5/19/23	Building H	Room 13 (E102)	Window frame	Metal	A	Intact	Beige	0.2	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
188	5/19/23	Building H	Room 13 (E102)	Condensation line	Tape material over metal	A	Intact	Beige	0.1	Negative	0.7
189	5/19/23	Building H	Room 13 (E102)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
190	5/19/23	Building H	Room 13 (E102)	Freon line	Metal	A	Intact	Beige	0.2	Negative	0.7
191	5/19/23	Building H	Room 13 (E102)	Vent duct	Metal	A	Intact	Beige	0.2	Negative	0.7
192	5/19/23	Building H	Room 13 (E102)	Ribbed conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
193	5/19/23	Building H	Room 13 (E102)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
194	5/19/23	Building H	Room 13 (E102)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7
195	5/19/23	Building H	Room 12 (E101)	Wall	Concrete	A	Intact	Blue	0.2	Negative	0.7
196	5/19/23	Building H	Room 12 (E101)	Wall	Plaster	B	Intact	Beige	0	Negative	0.7
197	5/19/23	Building H	Room 12 (E101)	Wall	Concrete	C	Intact	Beige	0	Negative	0.7
198	5/19/23	Building H	Room 12 (E101)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
199	5/19/23	Building H	Room 12 (E101)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
200	5/19/23	Building H	Room 12 (E101)	Window frame	Metal	A	Intact	Beige	0.2	Negative	0.7
201	5/19/23	Building H	Room 12 (E101)	Condensation line	Tape material over metal	A	Intact	Beige	0	Negative	0.7
202	5/19/23	Building H	Room 12 (E101)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
203	5/19/23	Building H	Room 12 (E101)	Freon line	Metal	A	Intact	Beige	0	Negative	0.7
204	5/19/23	Building H	Room 12 (E101)	Vent duct	Metal	A	Intact	Beige	0.2	Negative	0.7
205	5/19/23	Building H	Room 12 (E101)	Ribbed conduit	Metal	A	Intact	Beige	0.3	Negative	0.7
206	5/19/23	Building H	Room 12 (E101)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
207	5/19/23	Building H	Room 12 (E101)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.2	Negative	0.7
208	5/19/23	Building H	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.3	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
209	5/19/23	Building H	Exterior	Wall	Stucco	B	Intact	Beige	0.1	Negative	0.7
210	5/19/23	Building H	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.2	Negative	0.7
211	5/19/23	Building H	Exterior	Wall	Stucco	D	Intact	Beige	0.1	Negative	0.7
212	5/19/23	Building H	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0.1	Negative	0.7
213	5/19/23	Building H	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
214	5/19/23	Building H	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.1	Negative	0.7
215	5/19/23	Building H	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
216	5/19/23	Building H	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0.1	Negative	0.7
217	5/19/23	Building H	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
218	5/19/23	Building H	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
219	5/19/23	Building H	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0.1	Negative	0.7
<b>220</b>	<b>5/19/23</b>	<b>Building H</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>A</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>2.4</b>	<b>Positive</b>	<b>0.7</b>
221	5/19/23	Building H	Exterior at AC condenser	1/2" Flexible ribbed conduit	Conduit	A	Intact	Grey (not painted)	0	Negative	0.7
222	5/19/23	Building H	Exterior at AC condenser	Cage panel	Conduit	A	Intact	White	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
223	5/19/23	Building H	Exterior at AC condenser	Cage frame	Conduit	A	Intact	White	0	Negative	0.7
224	5/19/23	Building H	Exterior	Roof	Roofing material	Roof	Intact	Grey	0.1	Negative	0.7
225	5/19/23	Building F	Exterior at AC condenser	1/2" Flexible ribbed conduit	Conduit	A	Intact	Grey (not painted)	0.1	Negative	0.7
226	5/19/23	Building D	Exterior at AC condenser	1/2" Flexible ribbed conduit	Conduit	A	Intact	Grey (not painted)	0.2	Negative	0.7
227	5/19/23			Calibrate					0.9	Positive	0.7
228	5/19/23			Calibrate					0.9	Positive	0.7
229	5/19/23			Calibrate					0.9	Positive	0.7
230	5/22/23			Calibrate					0.9	Positive	0.7
231	5/22/23			Calibrate					1	Positive	0.7
232	5/22/23			Calibrate					0.9	Positive	0.7
233	5/22/23	Building I	Room 16 (I102)	Wall	Concrete	A	Intact	White	0.1	Negative	0.7
234	5/22/23	Building I	Room 16 (I102)	Wall	Plaster	B	Intact	White	0	Negative	0.7
235	5/22/23	Building I	Room 16 (I102)	Wall	Concrete	C	Intact	White	0.1	Negative	0.7
236	5/22/23	Building I	Room 16 (I102)	Wall	Plaster	D	Intact	White	0	Negative	0.7
237	5/22/23	Building I	Room 16 (I102)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
238	5/22/23	Building I	Room 16 (I102)	Window frame	Metal	A	Intact	Beige	0.2	Negative	0.7
239	5/22/23	Building I	Room 16 (I102)	Condensation line	Tape material over metal	A	Intact	Beige	0.1	Negative	0.7
240	5/22/23	Building I	Room 16 (I102)	Freon line	Foam over metal	A	Intact	Beige	0	Negative	0.7
241	5/22/23	Building I	Room 16 (I102)	Freon line	Metal	A	Intact	Beige	0.2	Negative	0.7
242	5/22/23	Building I	Room 16 (I102)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
243	5/22/23	Building I	Room 16 (I102)	Ribbed conduit	Metal	A	Intact	Beige	0.3	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
244	5/22/23	Building I	Room 16 (I102)	Box above AC unit	Metal	Upper	Intact	Beige	0	Negative	0.7
245	5/22/23	Building I	Room 16 (I102)	12" Ceiling tile	Acoustic	Upper	Intact	White	0	Negative	0.7
246	5/22/23	Building I	Room 17 (I103)	Wall	Concrete	A	Intact	Beige	0.1	Negative	0.7
247	5/22/23	Building I	Room 17 (I103)	Wall	Plaster	B	Intact	Beige	0.2	Negative	0.7
248	5/22/23	Building I	Room 17 (I103)	Wall	Concrete	C	Intact	Beige	0.1	Negative	0.7
249	5/22/23	Building I	Room 17 (I103)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
250	5/22/23	Building I	Room 17 (I103)	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
251	5/22/23	Building I	Room 17 (I103)	Window frame	Metal	A	Intact	Beige	0.3	Negative	0.7
252	5/22/23	Building I	Room 17 (I103)	Condensation line	Tape material over metal	A	Intact	Beige	0.1	Negative	0.7
253	5/22/23	Building I	Room 17 (I103)	Condensation line	Metal	A	Intact	Beige	0.2	Negative	0.7
254	5/22/23	Building I	Room 17 (I103)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
255	5/22/23	Building I	Room 17 (I103)	Freon line	Metal	A	Intact	Beige	0.1	Negative	0.7
256	5/22/23	Building I	Room 17 (I103)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
257	5/22/23	Building I	Room 17 (I103)	Ribbed conduit	Metal	A	Intact	Beige	0.3	Negative	0.7
258	5/22/23	Building I	Room 17 (I103)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
259	5/22/23	Building I	Room 17 (I103)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7
260	5/22/23	Building I	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.3	Negative	0.7
261	5/22/23	Building I	Exterior	Wall	Stucco	B	Intact	Beige	0	Negative	0.7
262	5/22/23	Building I	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.3	Negative	0.7
263	5/22/23	Building I	Exterior	Wall	Stucco	D	Intact	Beige	0.1	Negative	0.7
264	5/22/23	Building I	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.1	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
265	5/22/23	Building I	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.2	Negative	0.7
266	5/22/23	Building I	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0.1	Negative	0.7
267	5/22/23	Building I	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
268	5/22/23	Building I	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0	Negative	0.7
269	5/22/23	Building I	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
270	5/22/23	Building I	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0.2	Negative	0.7
271	5/22/23	Building I	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0	Negative	0.7
<b>272</b>	<b>5/22/23</b>	<b>Building I</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>A</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>2.6</b>	<b>Positive</b>	<b>0.7</b>
273	5/22/23	Building I	Exterior at AC condenser	Cage frame	Metal	A	Intact	Grey	0.3	Negative	0.7
274	5/22/23	Building I	Exterior at AC condenser	Cage panel	Metal	A	Intact	Grey	0.1	Negative	0.7
275	5/22/23	Building I	Exterior	Roof	Roofing material	Roof	Intact	Grey	0.2	Negative	0.7
276	5/22/23	Building J	Room 18 (J104)	Wall	Concrete	A	Intact	Grey	0.2	Negative	0.7
277	5/22/23	Building J	Room 18 (J104)	Wall	Plaster	B	Intact	Grey	0.1	Negative	0.7
278	5/22/23	Building J	Room 18 (J104)	Wall	Concrete	C	Intact	Grey	0.3	Negative	0.7
279	5/22/23	Building J	Room 18 (J104)	Wall	Plaster	D	Intact	Grey	0	Negative	0.7
280	5/22/23	Building J	Room 18 (J104)	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
281	5/22/23	Building J	Room 18 (J104)	Window frame	Metal	A	Intact	Beige	0.3	Negative	0.7
282	5/22/23	Building J	Room 18 (J104)	Condensation line	Metal	A	Intact	Beige	0	Negative	0.7

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Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
283	5/22/23	Building J	Room 18 (J104)	Condensation line	Tape material over metal	A	Intact	Beige	0	Negative	0.7
284	5/22/23	Building J	Room 18 (J104)	Freon line	Foam over metal	A	Intact	Beige	0.1	Negative	0.7
285	5/22/23	Building J	Room 18 (J104)	Freon line	Metal	A	Intact	Beige	0.1	Negative	0.7
286	5/22/23	Building J	Room 18 (J104)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
287	5/22/23	Building J	Room 18 (J104)	Ribbed conduit	Metal	A	Intact	Beige	0.4	Negative	0.7
288	5/22/23	Building J	Room 18 (J104)	Box above AC unit	Metal	Upper	Intact	White	0.1	Negative	0.7
289	5/22/23	Building J	Room 18 (J104)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7
290	5/22/23	Building J	Room 20 (J106)	Wall	Concrete	A	Intact	Beige	0.3	Negative	0.7
291	5/22/23	Building J	Room 20 (J106)	Wall	Plaster	B	Intact	Beige	0	Negative	0.7
292	5/22/23	Building J	Room 20 (J106)	Wall	Concrete	C	Intact	Beige	0.3	Negative	0.7
293	5/22/23	Building J	Room 20 (J106)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
294	5/22/23	Building J	Room 20 (J106)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
295	5/22/23	Building J	Room 20 (J106)	Window frame	Metal	A	Intact	Beige	0.2	Negative	0.7
296	5/22/23	Building J	Room 20 (J106)	Condensation line	Metal	A	Intact	Beige	0	Negative	0.7
297	5/22/23	Building J	Room 20 (J106)	Condensation line	Tape material on metal	A	Intact	Beige	0.1	Negative	0.7
298	5/22/23	Building J	Room 20 (J106)	Freon line	Foam over metal	A	Intact	Beige	0.2	Negative	0.7
299	5/22/23	Building J	Room 20 (J106)	Freon line	Metal	A	Intact	Beige	0.1	Negative	0.7
300	5/22/23	Building J	Room 20 (J106)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
301	5/22/23	Building J	Room 20 (J106)	Ribbed conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
302	5/22/23	Building J	Room 20 (J106)	Box above AC unit	Metal	Upper	Intact	White	0.1	Negative	0.7
303	5/22/23	Building J	Room 20 (J106)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7



Covina Valley USD  
Rowland Elementary School

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
304	5/22/23	Building J	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.1	Negative	0.7
305	5/22/23	Building J	Exterior	Wall	Stucco	B	Intact	Beige	0.1	Negative	0.7
306	5/22/23	Building J	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.3	Negative	0.7
307	5/22/23	Building J	Exterior	Wall	Stucco	D	Intact	Blue	0	Negative	0.7
308	5/22/23	Building J	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
309	5/22/23	Building J	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.2	Negative	0.7
310	5/22/23	Building J	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0.1	Negative	0.7
311	5/22/23	Building J	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
312	5/22/23	Building J	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0.1	Negative	0.7
313	5/22/23	Building J	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
314	5/22/23	Building J	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0	Negative	0.7
315	5/22/23	Building J	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0	Negative	0.7
<b>316</b>	<b>5/22/23</b>	<b>Building J</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>A</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>3.3</b>	<b>Positive</b>	<b>0.7</b>
317	5/22/23	Building J	Exterior at AC condenser	Cage frame	Metal	A	Intact	Grey	0.2	Negative	0.7

Covina Valley USD  
Rowland Elementary School

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
318	5/22/23	Building J	Exterior at AC condenser	Cage panel	Metal	A	Intact	Grey	0.2	Negative	0.7
319	5/22/23	Building J	Exterior	Roof	Roofing material	Roof	Intact	Grey	0.2	Negative	0.7
320	5/22/23	Building K	Room 21	Wall	Concrete	A	Intact	Blue	0.2	Negative	0.7
321	5/22/23	Building K	Room 21	Wall	Plaster	B	Intact	Beige	0	Negative	0.7
322	5/22/23	Building K	Room 21	Wall	Concrete	C	Intact	Blue	0.3	Negative	0.7
323	5/22/23	Building K	Room 21	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
324	5/22/23	Building K	Room 21 (I107)	Window panel	Wood	A	Intact	Beige	0	Negative	0.7
325	5/22/23	Building K	Room 21 (I107)	Window frame	Metal	A	Intact	Blue	0.3	Negative	0.7
326	5/22/23	Building K	Room 21 (I107)	Condensation line	Metal	A	Intact	Beige	0.2	Negative	0.7
327	5/22/23	Building K	Room 21 (I107)	Condensation line	Tape material on metal	A	Intact	Beige	0.1	Negative	0.7
328	5/22/23	Building K	Room 21 (I107)	Freon line	Foam over metal	A	Intact	Beige	0.2	Negative	0.7
329	5/22/23	Building K	Room 21 (I107)	Freon line	Metal	A	Intact	Beige	0.1	Negative	0.7
330	5/22/23	Building K	Room 21 (I107)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
331	5/22/23	Building K	Room 21 (I107)	Ribbed conduit	Metal	A	Intact	Beige	0.2	Negative	0.7
332	5/22/23	Building K	Room 21 (I107)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
333	5/22/23	Building K	Room 21 (I107)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.2	Negative	0.7
334	5/22/23	Building K	Room 22 (I108)	Wall	Concrete	A	Intact	Beige	0.1	Negative	0.7
335	5/22/23	Building K	Room 22 (I108)	Wall	Plaster	B	Intact	Beige	0.1	Negative	0.7
336	5/22/23	Building K	Room 22 (I108)	Wall	Concrete	C	Intact	Beige	0.4	Negative	0.7
337	5/22/23	Building K	Room 22 (I108)	Wall	Plaster	D	Intact	Beige	0	Negative	0.7
338	5/22/23	Building K	Room 22 (I108)	Window panel	Wood	A	Intact	Beige	0.1	Negative	0.7
339	5/22/23	Building K	Room 22 (I108)	Window frame	Metal	A	Intact	Beige	0.3	Negative	0.7
340	5/22/23	Building K	Room 22 (I108)	Vent duct	Metal	A	Intact	Beige	0.1	Negative	0.7
341	5/22/23	Building K	Room 22 (I108)	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7

Covina Valley USD  
Rowland Elementary School

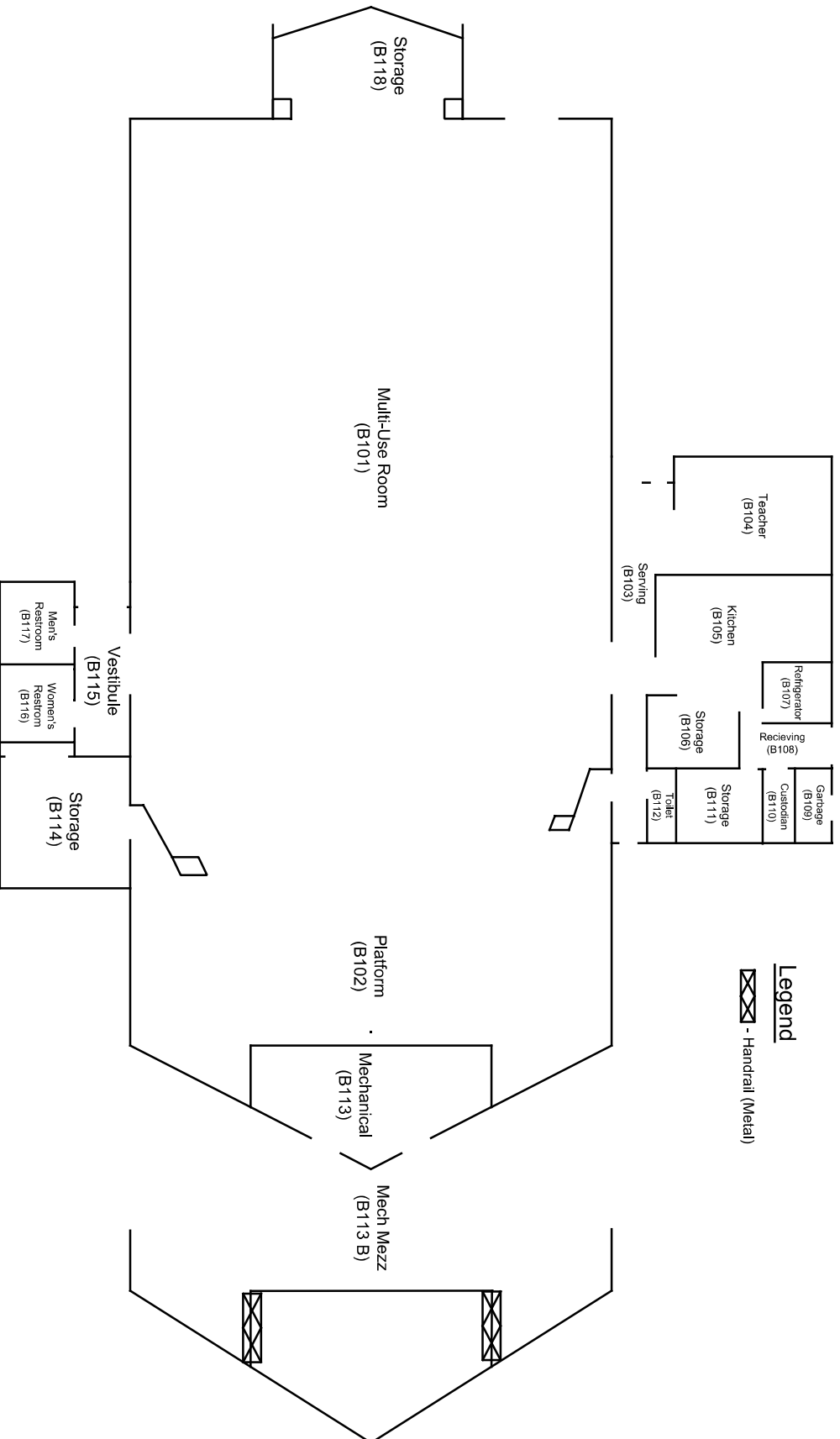
Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
342	5/22/23	Building K	Room 22 (1108)	Condensation line	Tape material on metal	A	Intact	Beige	0.2	Negative	0.7
343	5/22/23	Building K	Room 22 (1108)	Freon line	Foam over metal	A	Intact	Beige	0.2	Negative	0.7
344	5/22/23	Building K	Room 22 (1108)	Freon line	Metal	A	Intact	Beige	0.2	Negative	0.7
345	5/22/23	Building K	Room 22 (1108)	Ribbed conduit	Metal	A	Intact	Beige	0.3	Negative	0.7
346	5/22/23	Building K	Room 22 (1108)	Box above AC unit	Metal	Upper	Intact	Beige	0.1	Negative	0.7
347	5/22/23	Building K	Room 22 (1108)	12" Ceiling tile	Acoustic	Upper	Intact	White	0.1	Negative	0.7
348	5/22/23	Building K	Exterior	Wall	Texture coat on concrete	A	Intact	Beige	0.3	Negative	0.7
349	5/22/23	Building K	Exterior	Wall	Stucco	B	Intact	Beige	0	Negative	0.7
350	5/22/23	Building K	Exterior	Wall	Texture coat on concrete	C	Intact	Blue	0.3	Negative	0.7
351	5/22/23	Building K	Exterior	Wall	Stucco	D	Intact	Blue	0.1	Negative	0.7
352	5/22/23	Building K	Exterior at AC condenser	Conduit	Metal	A	Intact	Beige	0.4	Negative	0.7
353	5/22/23	Building K	Exterior at AC condenser	Conduit bracket	Metal	A	Intact	Beige	0.1	Negative	0.7
354	5/22/23	Building K	Exterior at AC condenser	Electrical box	Metal	A	Intact	Beige	0	Negative	0.7
355	5/22/23	Building K	Exterior at AC condenser	Condensation line	Metal	A	Intact	Beige	0.1	Negative	0.7
356	5/22/23	Building K	Exterior at AC condenser	Conduit cover	Metal	A	Intact	Beige	0.1	Negative	0.7
357	5/22/23	Building K	Exterior at AC condenser	Window panel	Wood	A	Intact	Beige	0	Negative	0.7

Covina Valley USD  
Rowland Elementary School

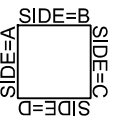
Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Color	Concentration	Result	Action Level
358	5/22/23	Building K	Exterior at AC condenser	Window frame	Metal	A	Intact	Beige	0.4	Negative	0.7
359	5/22/23	Building K	Exterior at AC condenser	Vent cover	Metal	A	Intact	Beige	0	Negative	0.7
<b>360</b>	<b>5/22/23</b>	<b>Building K</b>	<b>Exterior at AC condenser</b>	<b>1" Flexible conduit</b>	<b>Conduit</b>	<b>A</b>	<b>Intact</b>	<b>Grey (not painted)</b>	<b>3.1</b>	<b>Positive</b>	<b>0.7</b>
361	5/22/23	Building K	Exterior at AC condenser	1" Flexible conduit	Conduit	A	Intact	Grey (not painted)	0	Negative	0.7
362	5/22/23	Building K	Exterior at AC condenser	Cage panel	Metal	A	Intact	Grey	0.1	Negative	0.7
363	5/22/23	Building K	Exterior at AC condenser	Cage frame	Metal	A	Intact	Grey	0.3	Negative	0.7
364	5/22/23	Building K	Exterior at AC condenser	Roof	Roofing material	Roof	Intact	Grey	0.2	Negative	0.7
365	5/22/23			Calibrate					1	Positive	0.7
366	5/22/23			Calibrate					0.9	Positive	0.7
367	5/22/23			Calibrate					1	Positive	0.7

**APPENDIX B – SITE DRAWING**

# Building B Interior



**Legend**  
 - Handrail (Metal)

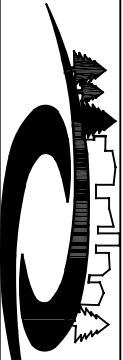


**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Based Paint Identified

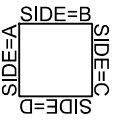
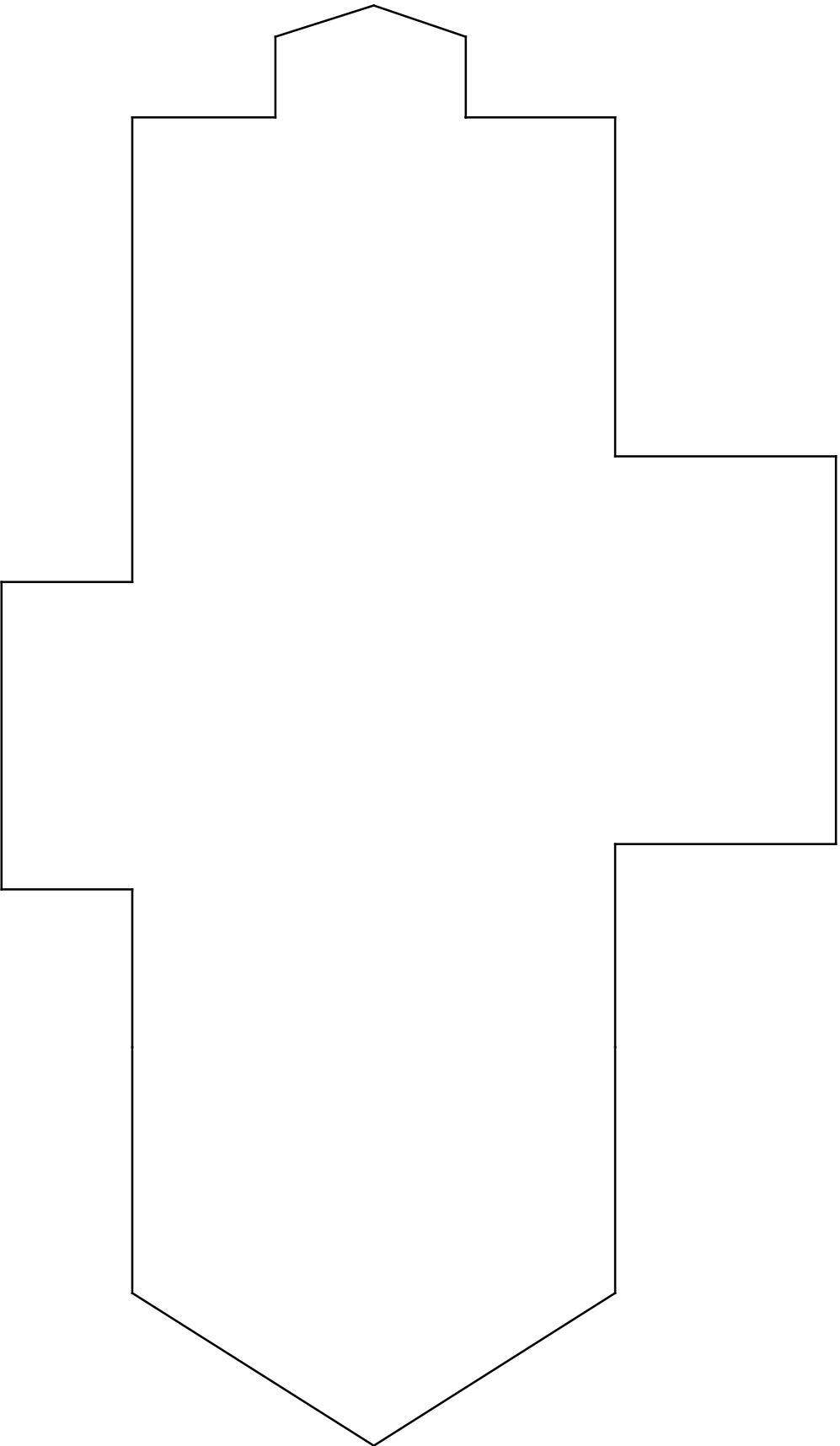
**EXECUTIVE ENVIRONMENTAL**  
 HEALTH & SAFETY SIMPLIFIED



**Site:** Rowland Elementary School  
 1355 East Rowland Avenue  
 West Covina, California 91722

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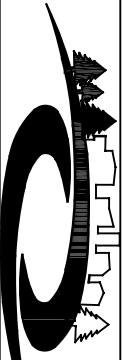
Building B  
Roof



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



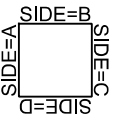
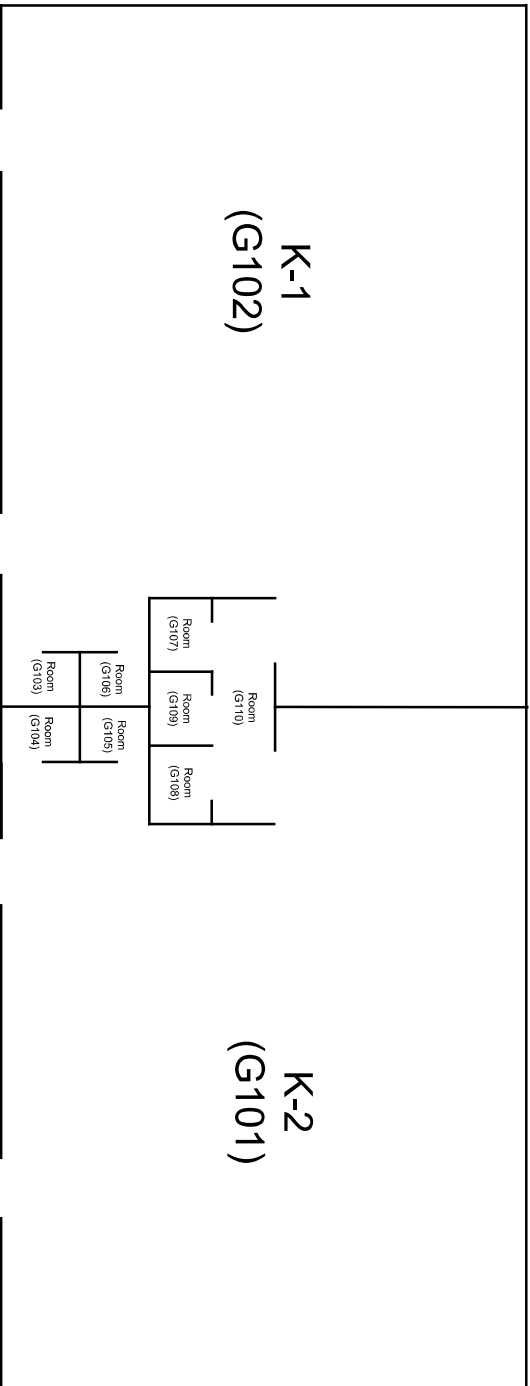
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale © 2012

# Building C Interior



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

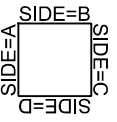
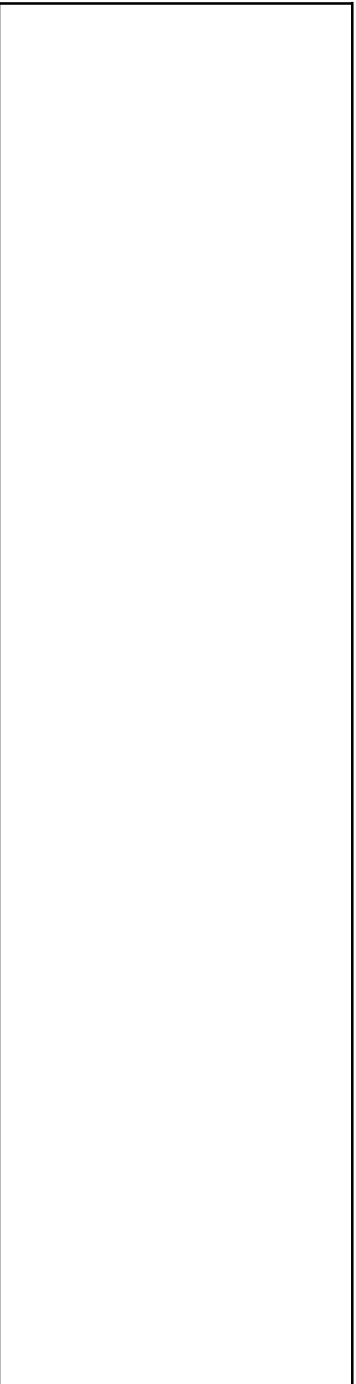
**Info:** No Lead-Based Materials Identified

**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722



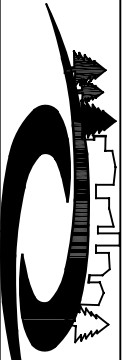
Building C  
Attic



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Material Identified



**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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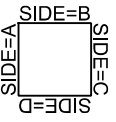
# Building C Roof



### Legend

 -AC Condensers

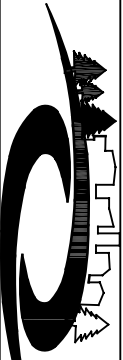
 N-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified

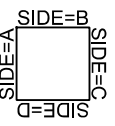
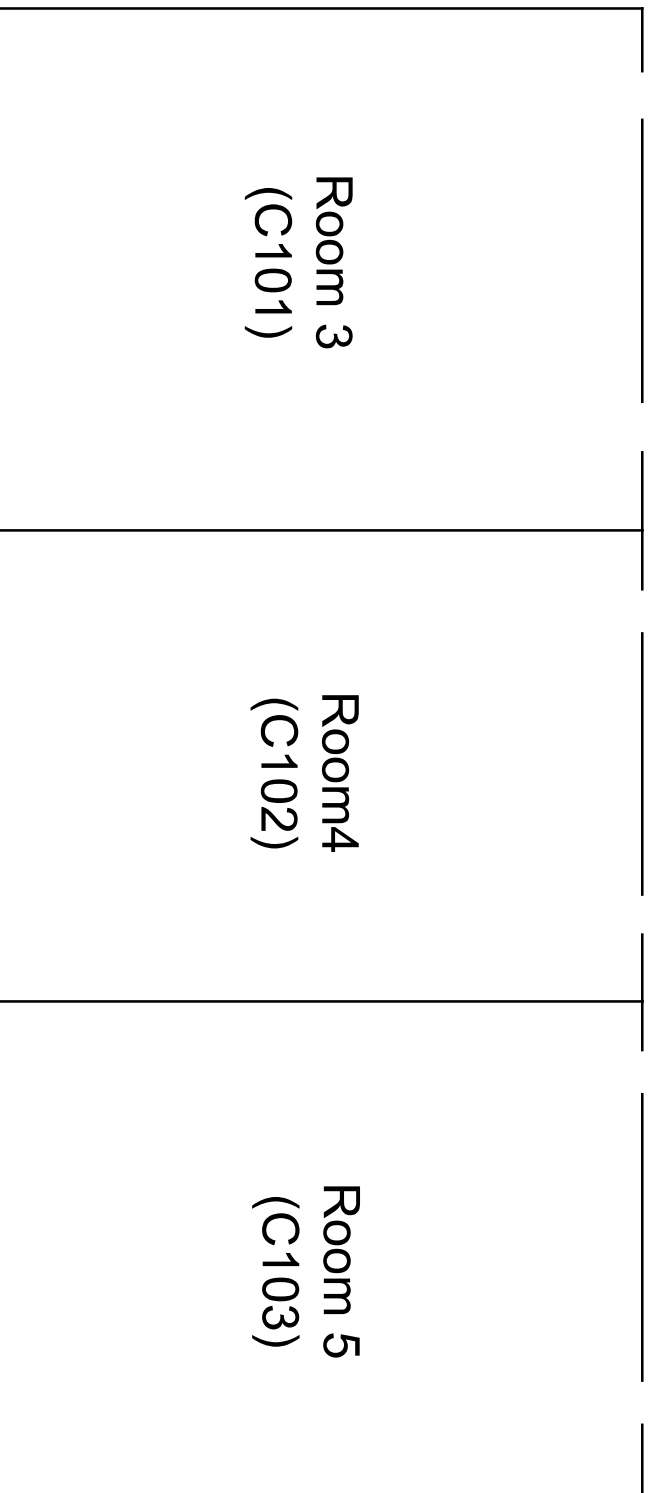


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site Address:** Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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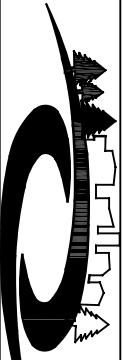
Building D  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



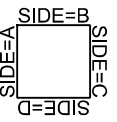
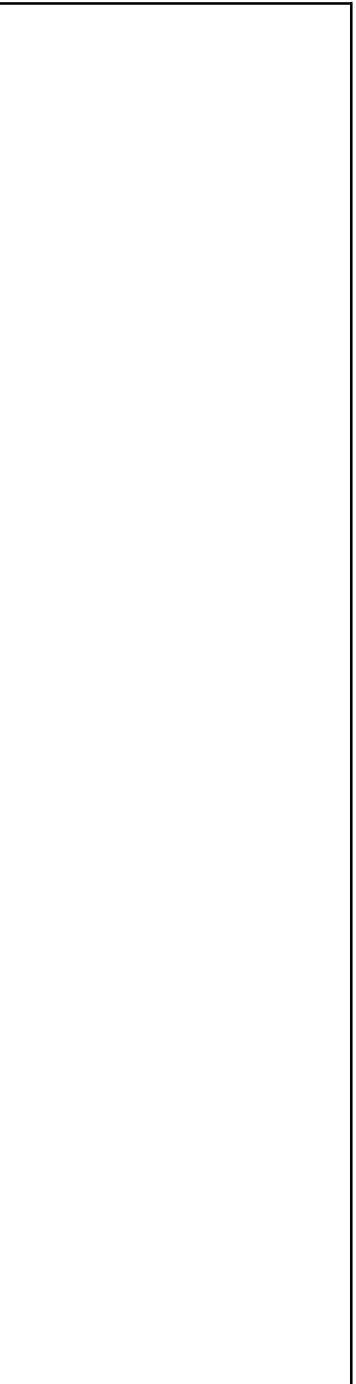
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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Building D  
Attic



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified

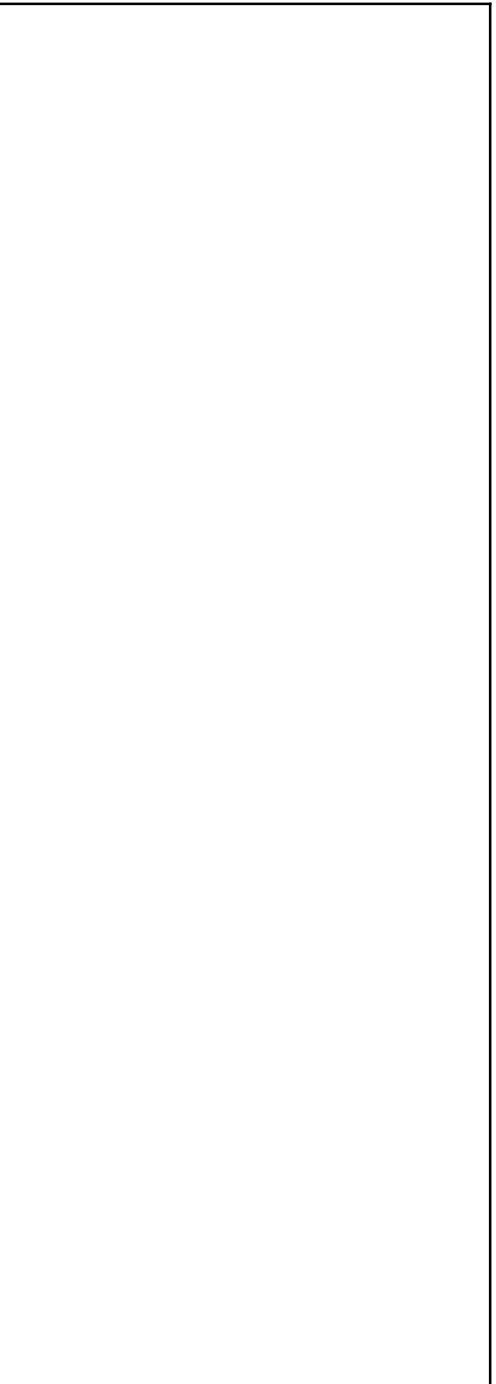


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722

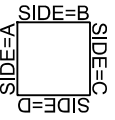
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# Building D Exterior



Legend

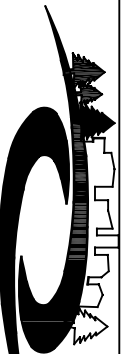
-  - AC Condensers
-  - 1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified



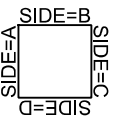
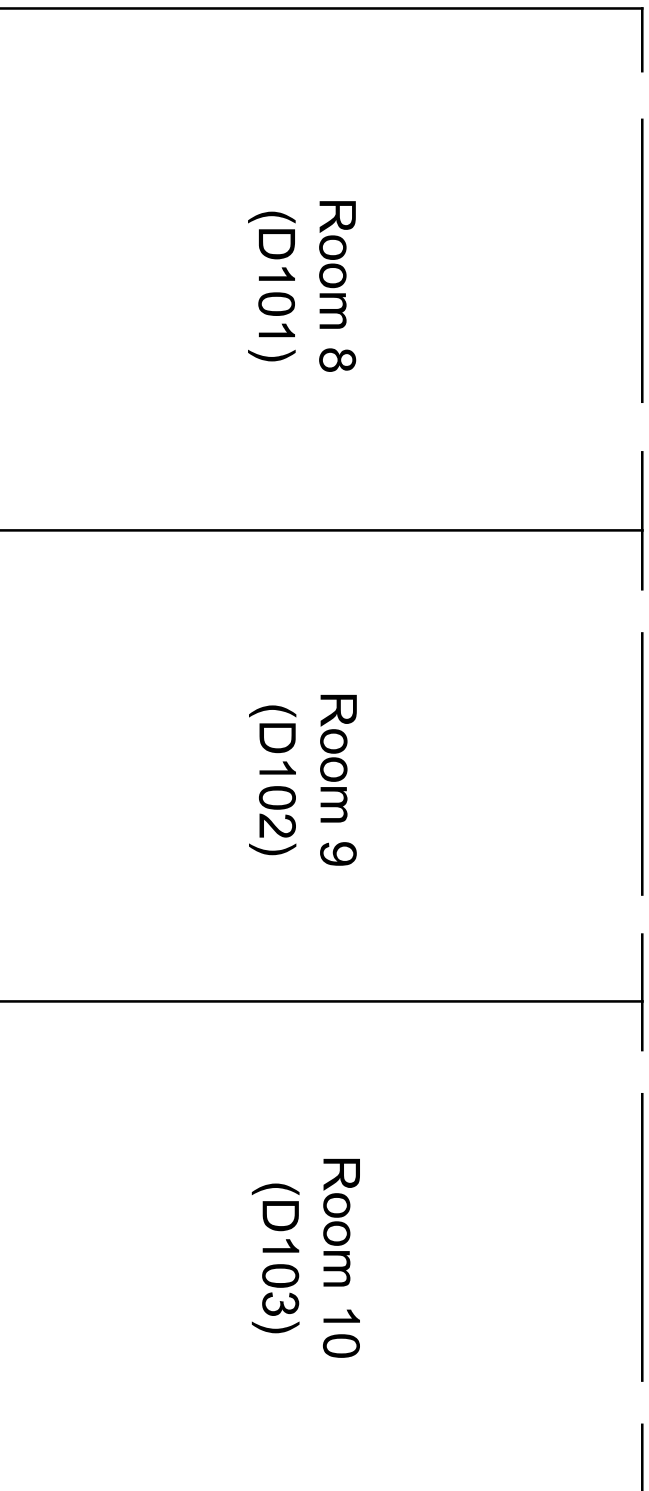
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

Building F  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



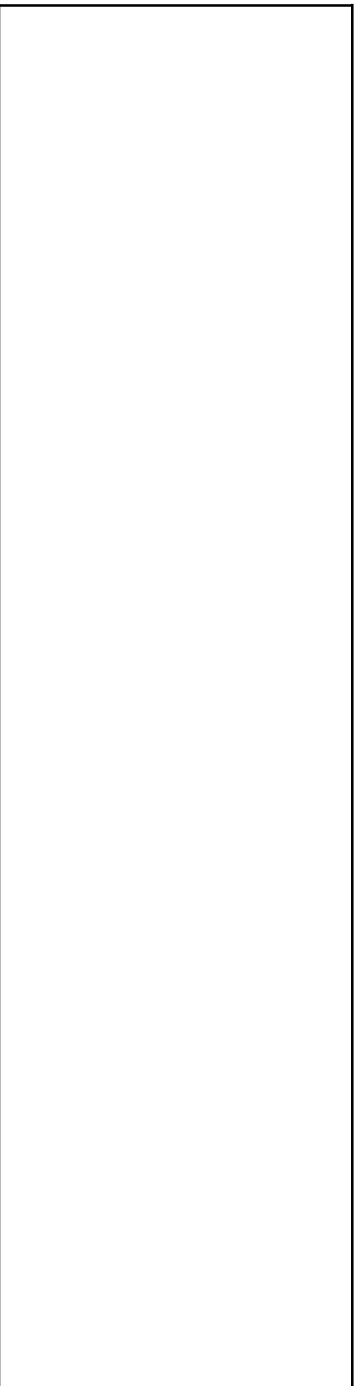
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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Building F  
Attic



SIDE=C  
SIDE=B  
SIDE=D  
SIDE=A



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



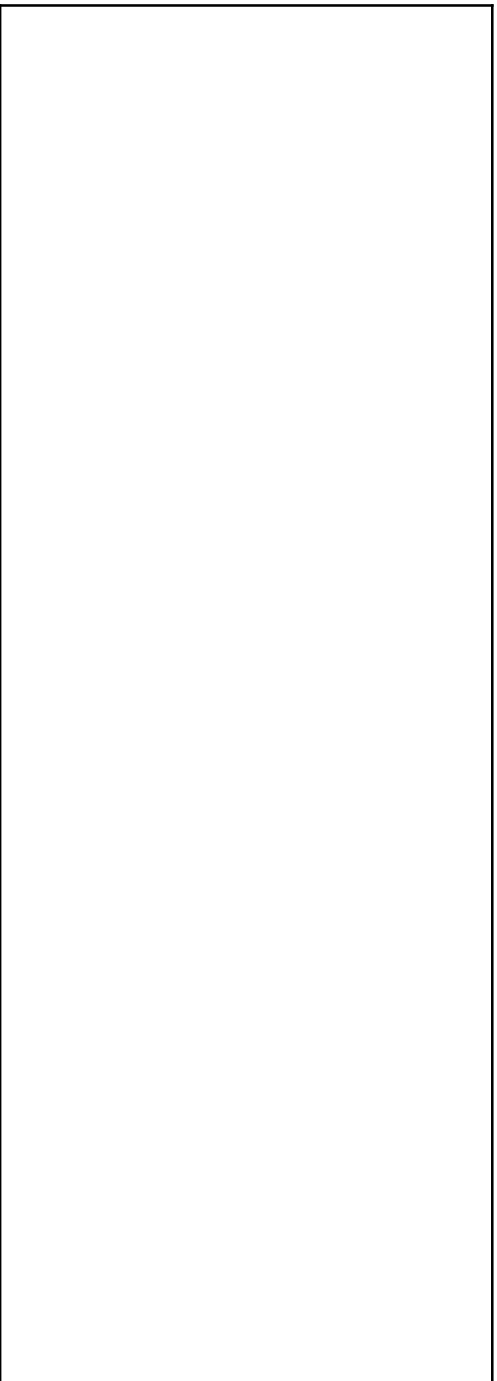
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

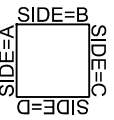
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Building F  
Exterior/Roof



Legend

-  -AC Condensers
-  N-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified

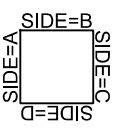
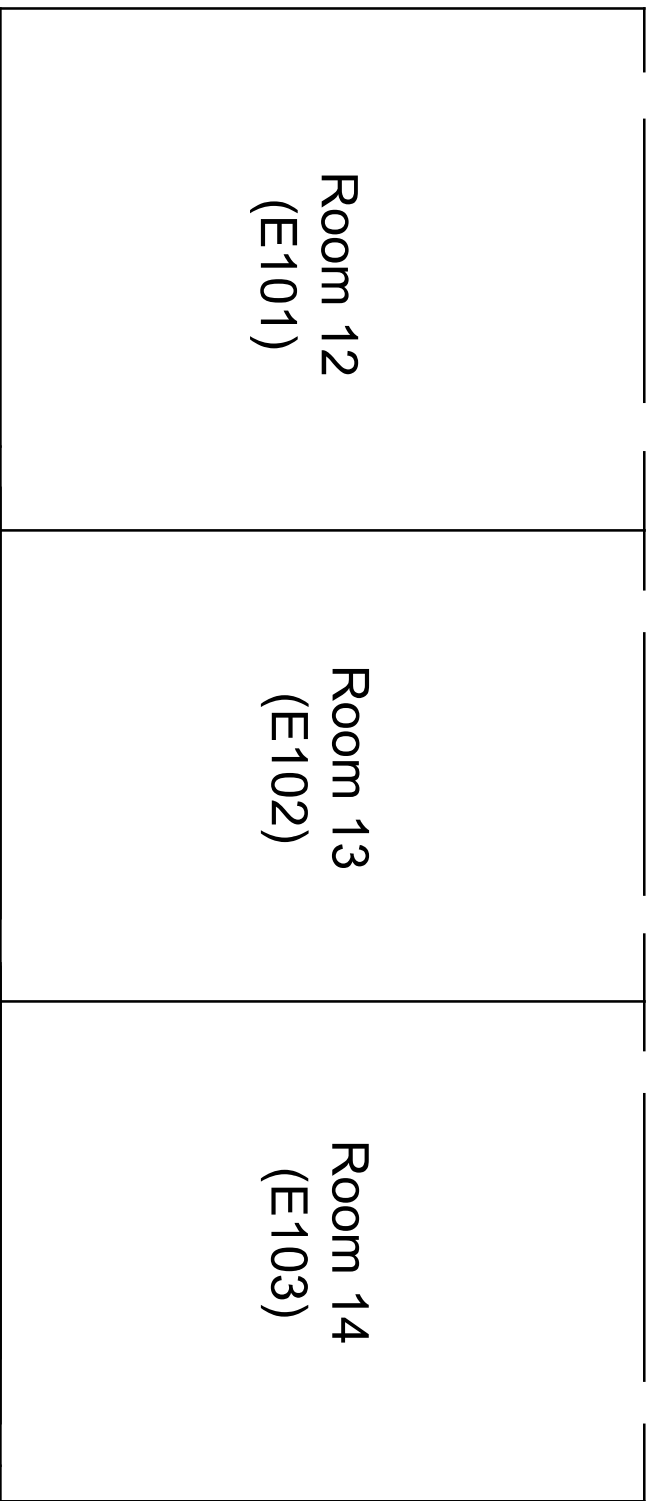


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722



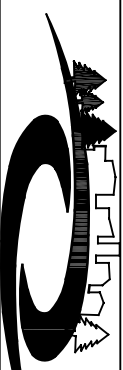
Building H  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Material Identified



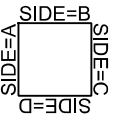
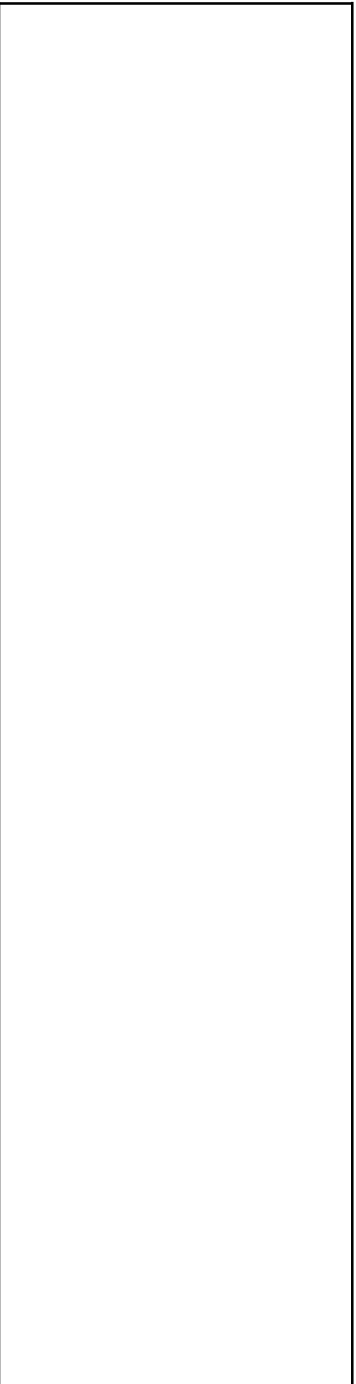
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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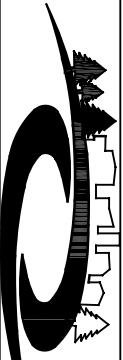
Building H  
Attic



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



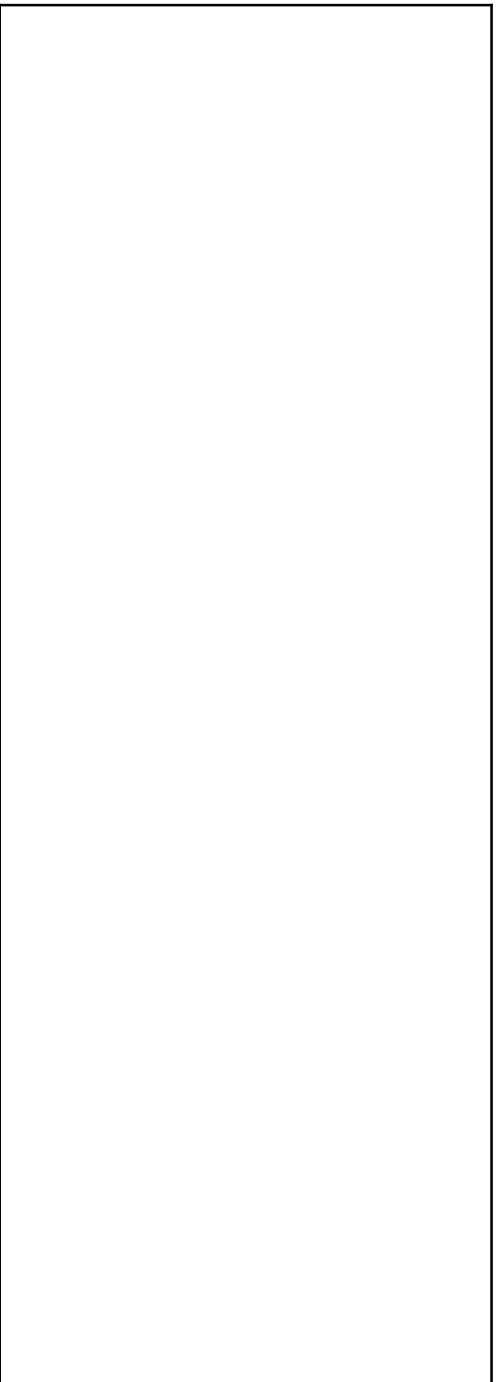
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Grovecenter Elementary School  
775 North Lark Ellen Avenue  
West Covina, CA 91791

Drawing Not to Scale - © 2012

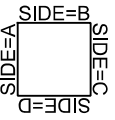
# Building H Exterior/Roof



Legend

 -AC Condensers

 N-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

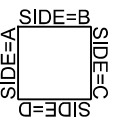
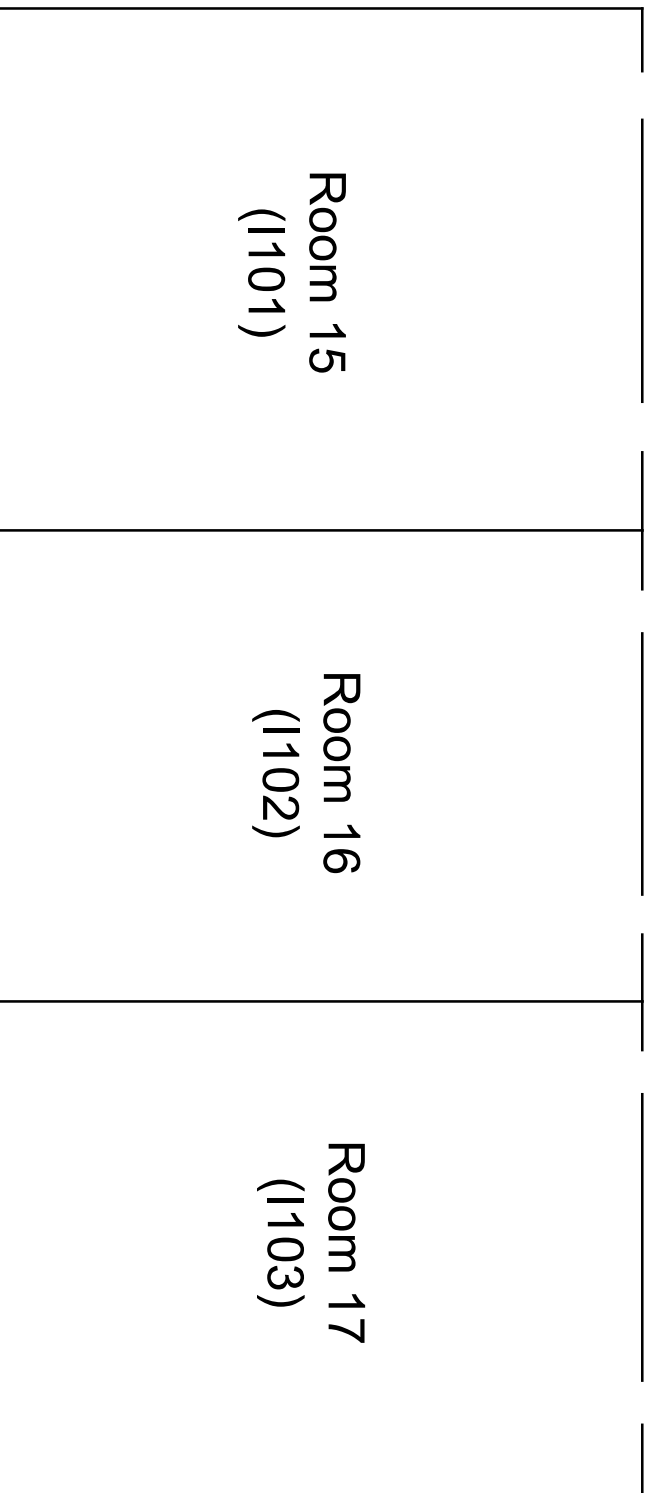
**Info:** Lead-Containing Materials Identified



**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722

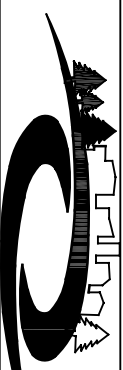
Building I  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



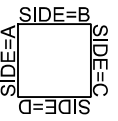
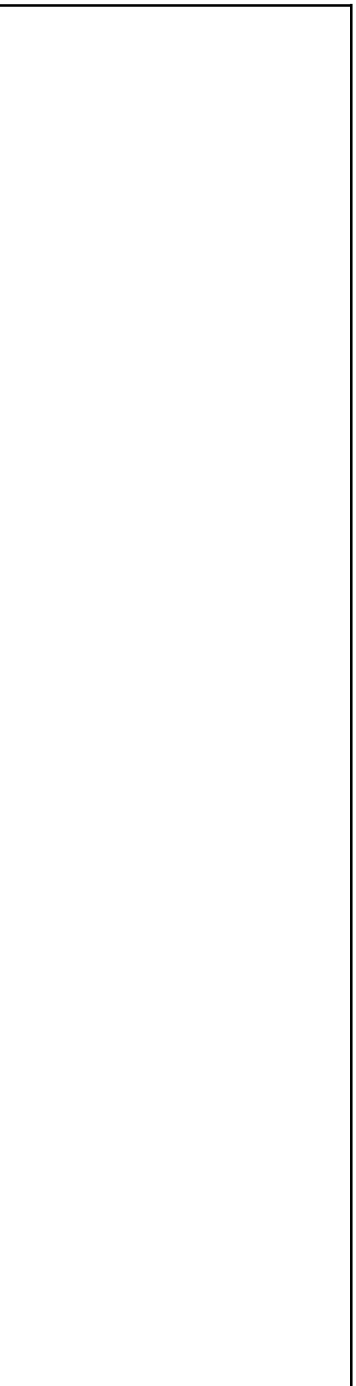
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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Building I  
Attic



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



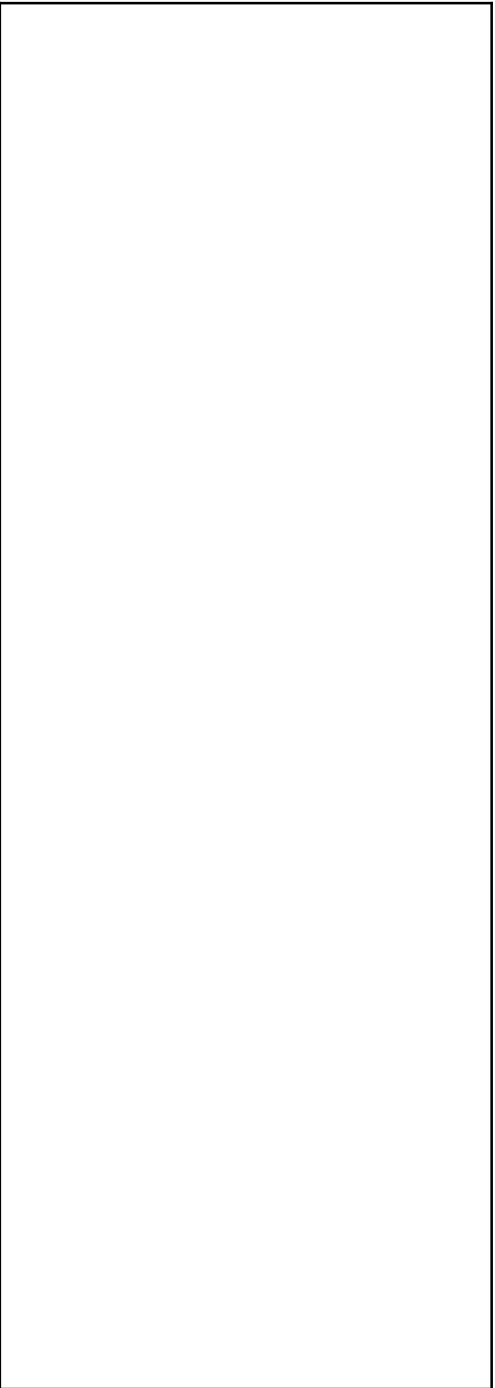
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

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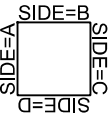
# Building I Exterior/Roof



Legend

-AC Condensers

-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified

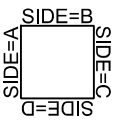
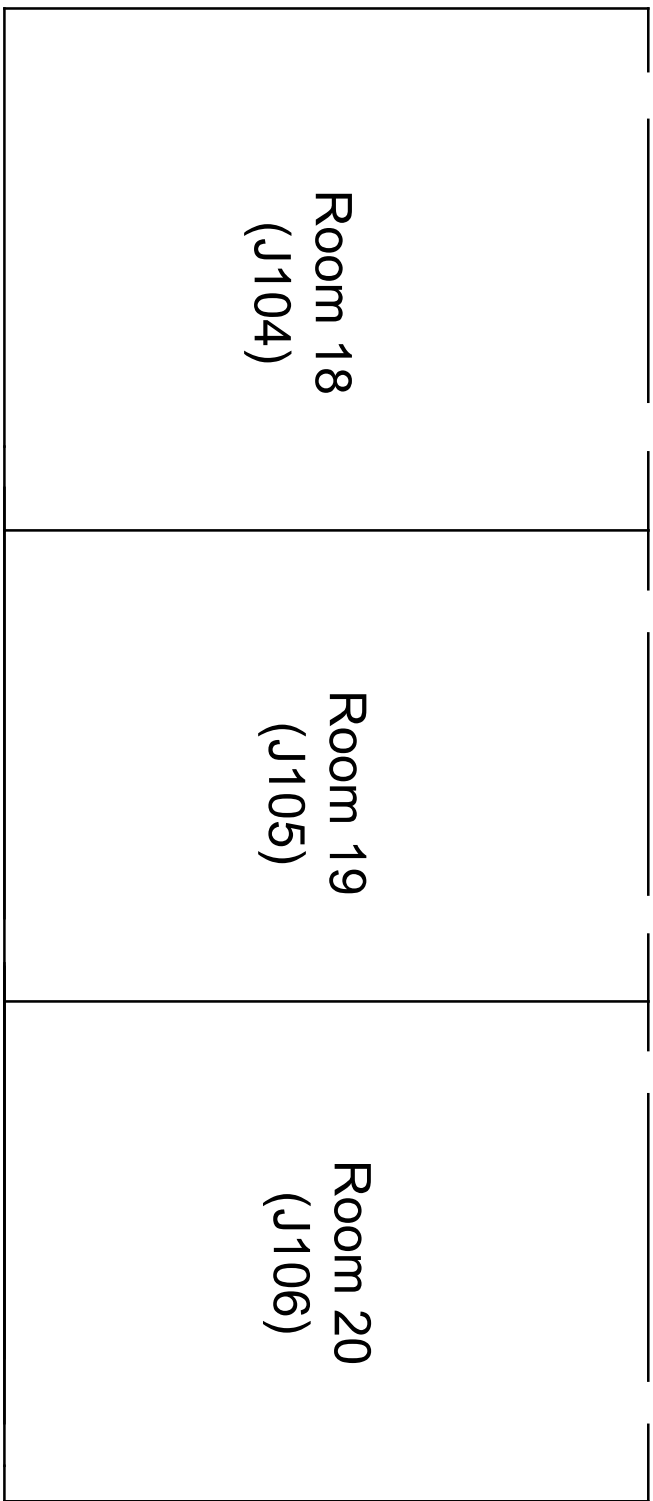


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

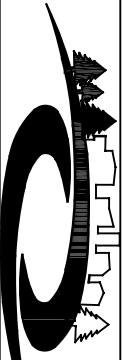
Building J  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



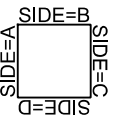
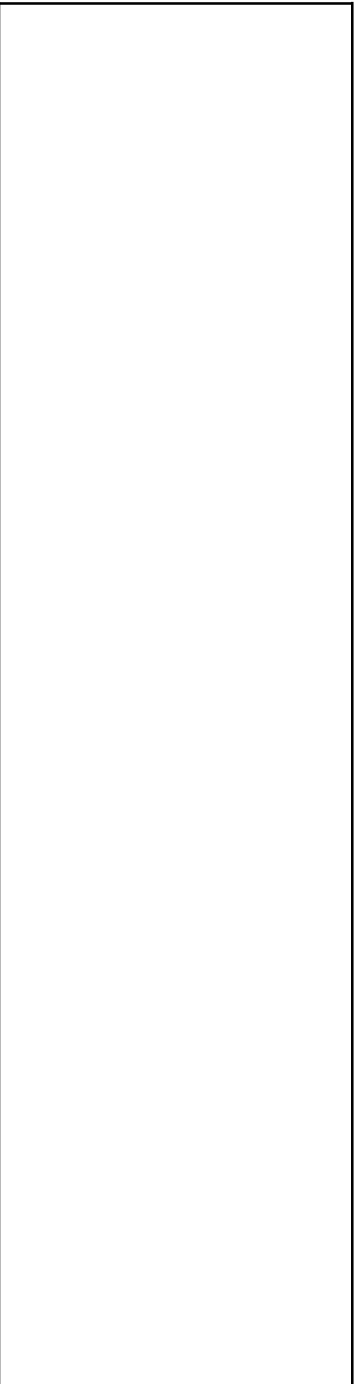
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

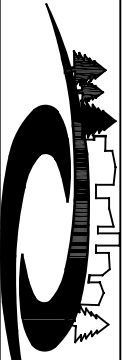
Building J  
Attic



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified



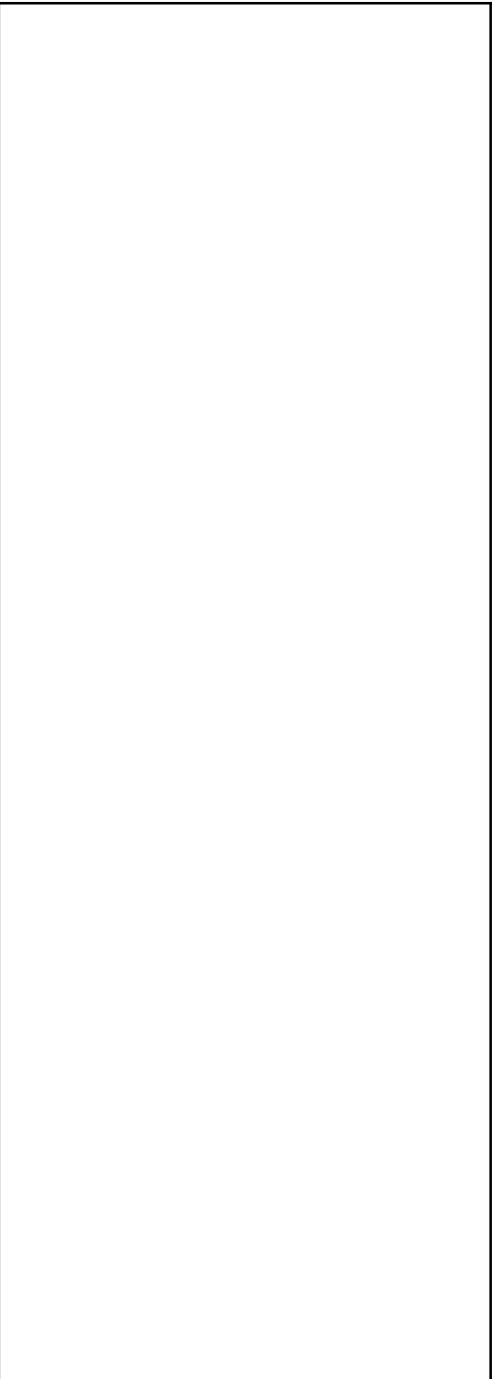
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site Address:** Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012



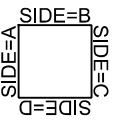
Building J  
Exterior/Roof



Legend

 -AC Condensers

 N-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified



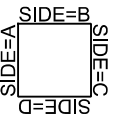
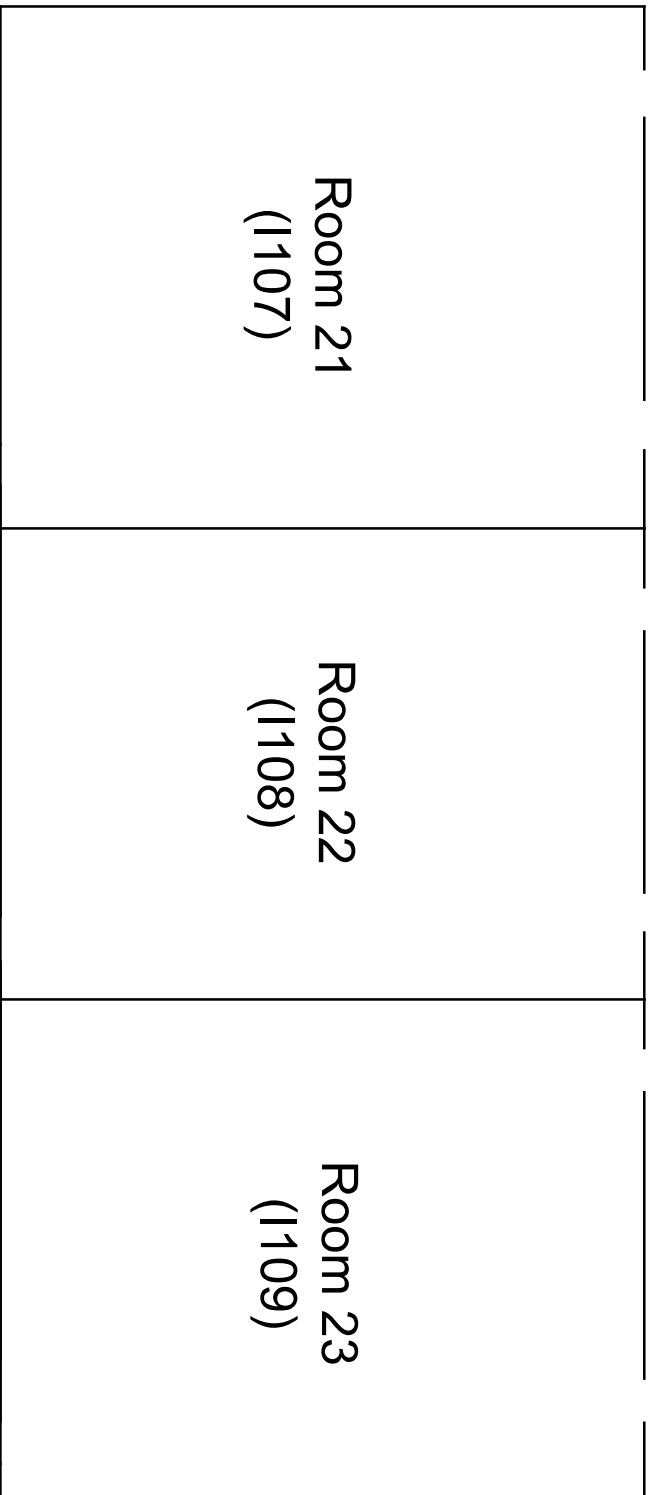
**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

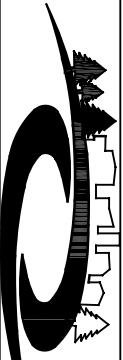
Building K  
Interior



**Client:** Covina Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified

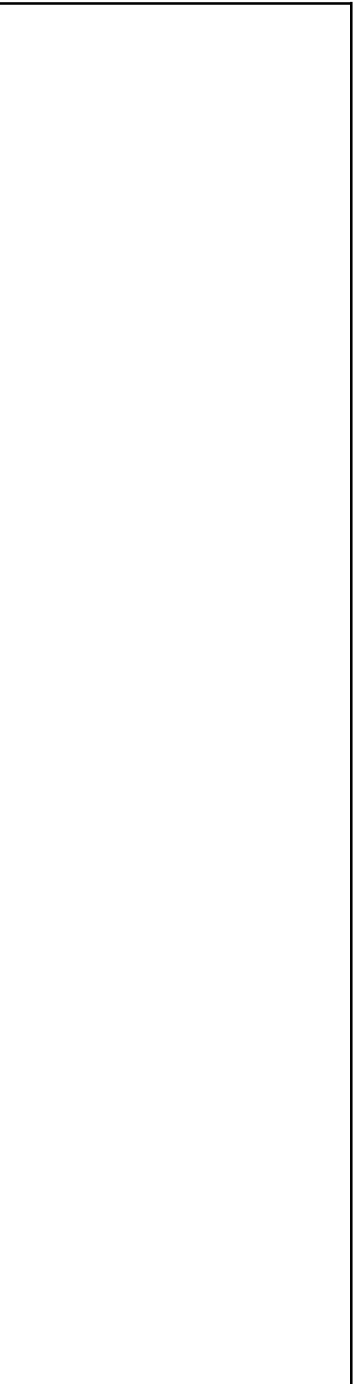


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

Building K  
Attic



SIDE=C  
SIDE=B  
SIDE=D  
A=3D1S



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** No Lead-Based Materials Identified

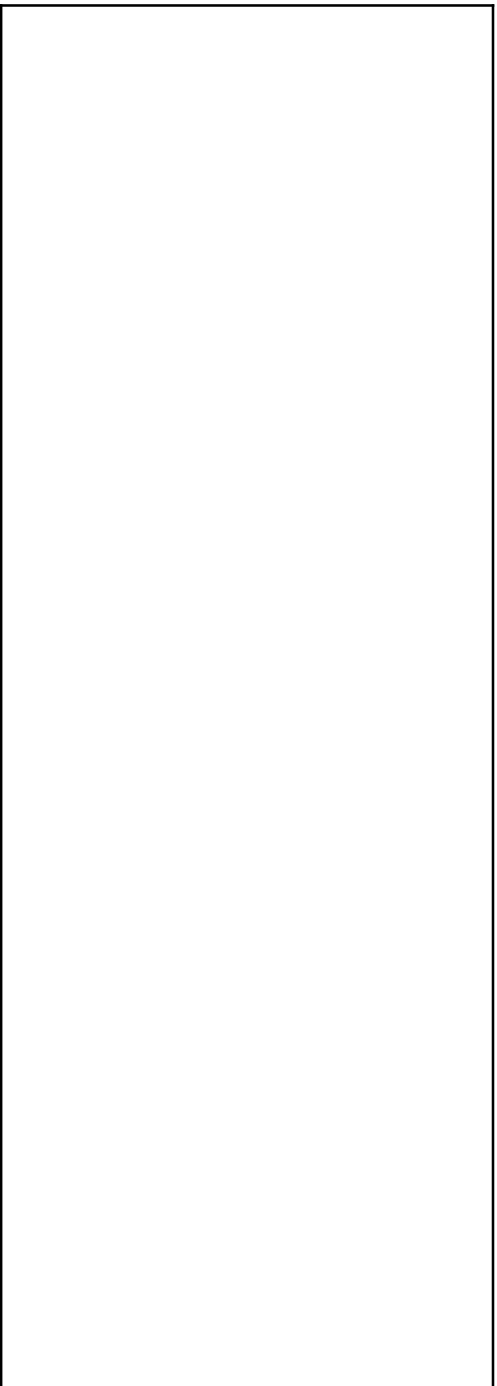


**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:** Rowland Elementary School  
**Address:** 1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

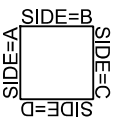
# Building K Exterior/Roof



Legend

-AC Condensers

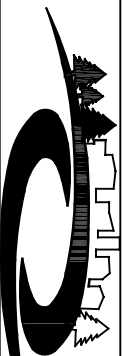
N-1" Flexible Conduit



**Client:** Covina-Valley USD

**Project #:** 23-Z0172-0077

**Info:** Lead-Containing Materials Identified



**EXECUTIVE ENVIRONMENTAL**  
HEALTH & SAFETY SIMPLIFIED

**Site:**  
**Address:**

Rowland Elementary School  
1355 East Rowland Avenue  
West Covina, California 91722

Drawing Not to Scale - © 2012

**APPENDIX C – LEAD HAZARD EVALUATION REPORT**

## LEAD HAZARD EVALUATION REPORT

**Section 1 – Date of Lead Hazard Evaluation** \_\_\_\_\_

**Section 2 – Type of Lead Hazard Evaluation (Check one box only)**

Lead Inspection     Risk assessment     Clearance Inspection     Other (specify) \_\_\_\_\_

**Section 3 – Structure Where Lead Hazard Evaluation Was Conducted**

Address [number, street, apartment (if applicable)]		City	County	Zip Code
Construction date (year) of structure	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other _____	Children living in structure? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know		


**Section 4 – Owner of Structure (if business/agency, list contact person)**

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code

**Section 5 – Results of Lead Hazard Evaluation (check all that apply)**

No lead-based paint detected   
  Intact lead-based paint detected   
  Deteriorated lead-based paint detected  
 No lead hazards detected   
  Lead-contaminated dust found   
  Lead-contaminated soil found   
  Other \_\_\_\_\_

**Section 6 – Individual Conducting Lead Hazard Evaluation**

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code
CDPH certification number	Signature 		Date	

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

**Section 7 – Attachments**

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector  
 Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:  
 California Department of Public Health  
 Childhood Lead Poisoning Prevention Branch Reports  
 850 Marina Bay Parkway, Building P, Third Floor  
 Richmond, CA 94804-6403  
 Fax: (510) 620-5656

**APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET**

## Performance Characteristic Sheet

**EFFECTIVE DATE:** December 1, 2015

**MANUFACTURER AND MODEL:**

Make: *Heuresis*  
Models: *Model Pb200i*  
Source: *<sup>57</sup>Co, 5 mCi (nominal – new source)*

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Action Level mode

**XRF CALIBRATION CHECK LIMITS:**

0.8 to 1.2 mg/cm <sup>2</sup> (inclusive)
-------------------------------------------

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

<b>ACTION LEVEL MODE READING DESCRIPTION</b>	<b>SUBSTRATE</b>	<b>THRESHOLD (mg/cm<sup>2</sup>)</b>
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0



## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

### OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

**TESTING TIMES:**

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm<sup>2</sup>. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

<b>Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level</b>		
<b>Reading (mg/cm<sup>2</sup>)</b>	<b>Mean Reading Time (seconds)</b>	<b>Standard Deviation (seconds)</b>
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

**CLASSIFICATION OF RESULTS:**

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm<sup>2</sup>), and *negative* if they are *less than* the threshold.

**DOCUMENTATION:**

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.