

ASBESTECH  
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**Client:**  
 Entek Consulting Group, Inc.  
 4200 Rocklin Rd., Suite 7  
 Rocklin, CA 95677

**Job:**  
 23-6621 Sacramento City USD  
 Oak Ridge Elementary, 4501 Martin Luther King Jr. Blvd.  
 Sacramento , Ca

**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-24  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-64A	Gray speckled sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 1	NONE DETECTED	Vinyl Calcite
	Gray mastic	NONE DETECTED	Synthetics
65A	Gray vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 1	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
66A	Gray stone pattern sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 1 child restroom	NONE DETECTED	Vinyl Cellulose
	Yellow mastic	NONE DETECTED	Synthetics
66B	Gray stone pattern sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 2 child restroom	NONE DETECTED	Vinyl Calcite
	Yellow mastic	NONE DETECTED	Synthetics
66C	Gray stone pattern sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 3 child restroom	NONE DETECTED	Vinyl Calcite
	Yellow mastic	NONE DETECTED	Synthetics

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A), THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-25  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-67A	Gray vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 1 child restroom	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
68A	Gray stone pattern sheet vinyl flooring (bottom layer), bldg. w/ rooms 1-4 room 2 child restroom	NONE DETECTED	Vinyl Cellulose
	Yellow mastic 1	NONE DETECTED	Synthetics
	White vinyl sheet flooring	15-20 CHRYSOTILE	Vinyl Cellulose
	Yellow mastic 2	NONE DETECTED	Synthetics
69A	Gray pebble pattern sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 2	NONE DETECTED	Vinyl Cellulose
	Yellow mastic	NONE DETECTED	Synthetics
69B	Gray pebble pattern sheet vinyl flooring (top layer), bldg. w/ rooms 1-4 room 4 child restroom	NONE DETECTED	Vinyl Calcite
	Yellow mastic	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-26  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-70A	Gray vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 2	1-2 CHRYSOTILE	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
71A	Gray mottled 12" vinyl floor tile (top layer), bldg. w/ rooms 1-4 room 2	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
71B	Gray mottled vinyl floor tile (top layer), bldg. w/ rooms 1-4 room 3	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
71C	Gray mottled vinyl floor tile (top layer), bldg. w/ rooms 1-4 room 1	NONE DETECTED	Vinyl Cellulose
	Yellow mastic	NONE DETECTED	Synthetics
72A	Beige vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 2	1-2 CHRYSOTILE	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics

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### **BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-27  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-73A	Green 9" vinyl floor tile , bldg. w/ rooms 1-4 room 2	1-5 CHRYSOTILE	Calcite
	Black mastic	1-5 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
74A	Gray vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 3	NONE DETECTED	Calcite
	Tan mastic	NONE DETECTED	Synthetics
	Yellow mastic	NONE DETECTED	Synthetics
75A	Yellow carpet mastic bldg. w/ rooms 1-4 room 4	NONE DETECTED	Calcite
76A	Light brown streaked 9" vinyl floor tile , bldg. w/ rooms 1-4 room <b>Room 4</b>	1-2 CHRYSOTILE	Calcite
	Black mastic	1-5 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
76B	NOT ANALYZED		

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-28  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-77A	Gray vinyl floor tile (bottom layer), bldg. w/ rooms 1-4 room 1	1-2 CHRYSOTILE	Calcite
	Black mastic	1-5 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
78A	Gray 4" vinyl base cove, bldg. w/ rooms 1-4 room 1	NONE DETECTED	Calcite Opagues
	Yellow mastic	NONE DETECTED	Calcite
79A	Black 4" vinyl base cove, bldg. w/ rooms 1-4 room 2	NONE DETECTED	Calcite Opagues
	Brown mastic	NONE DETECTED	Synthetics
80A	Gray 4" vinyl base cove, bldg. w/ rooms 1-4 room 2	NONE DETECTED	Calcite Opagues
	Yellow mastic	NONE DETECTED	Calcite
81A	Gray 4" vinyl base cove, bldg. w/ rooms 1-4 room 3	NONE DETECTED	Calcite Opagues
	Yellow mastic	NONE DETECTED	Calcite
	Tan mastic	NONE DETECTED	Opagues
	Brown mastic	<1 FIBROUS TREMOLITE	Synthetics Talc

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-29  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-82A	Gray 4" vinyl base cove, bldg. w/ rooms 1-4 room 4	NONE DETECTED	Calcite Opagues
	Tan mastic	NONE DETECTED	Opagues
83A	White plaster, bldg. w/ rooms 1-4 room 4	NONE DETECTED	Granular Mins.
	Tan plaster	NONE DETECTED	Granular Mins.
83B	White plaster, bldg. w/ rooms 1-4 room 3	NONE DETECTED	Granular Mins.
	Tan plaster	NONE DETECTED	Granular Mins.
83C	White plaster, bldg. w/ rooms 1-4 room 2	NONE DETECTED	Granular Mins.
	Tan plaster	NONE DETECTED	Granular Mins.
83D	White plaster, bldg. w/ rooms 1-4 room 1	NONE DETECTED	Granular Mins.
	Tan plaster	NONE DETECTED	Granular Mins.
83E	White plaster, bldg. w/ rooms 1-4 room 1	NONE DETECTED	Granular Mins.
	Tan plaster	NONE DETECTED	Granular Mins.

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-30  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-84A	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 1-4 room 4	NONE DETECTED	Cellulose
84B	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 1-4 room 1	NONE DETECTED	Cellulose
85A	Brown/black ceiling insulation paper, bldg. w/ rooms 1-4 room 4	NONE DETECTED	Cellulose Tar Binder
85B	Brown/black ceiling insulation paper, bldg. w/ rooms 1-4 room 1	NONE DETECTED	Cellulose Tar Binder
86A	Gray stucco, bldg. w/ rooms 1-4 exterior SW area	NONE DETECTED	Granular Mins.
	Green stucco	NONE DETECTED	Granular Mins.
86B	Gray stucco, bldg. w/ rooms 1-4 exterior NW area	NONE DETECTED	Granular Mins.
	Green stucco	NONE DETECTED	Granular Mins.
86C	Gray stucco, bldg. w/ rooms 1-4 exterior NE area	NONE DETECTED	Granular Mins.
	Green stucco	NONE DETECTED	Granular Mins.

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-31  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-87A	Black composition asphalt rolled roofing, bldg. w/ rooms 1-4 upper roof	NONE DETECTED	Tar Binder Fibrous Glass
	Black felt	20-30 CHRYSOTILE	Tar Binder
87B	Black composition asphalt rolled roofing, bldg. w/ rooms 1-4 lower roof	NONE DETECTED	Tar Binder Fibrous Glass
	Gray roofing	NONE DETECTED	Cellulose Pumice
88A	Black roof jack mastic, bldg. w/ rooms 1-4 roof	NONE DETECTED	Tar Binder Cellulose
	Silver paint	NONE DETECTED	Opagues
89A	Gray stone patter sheet vinyl flooring, south restroom bldg. student restrooms	NONE DETECTED	Vinyl Cellulose
	Yellow mastic	NONE DETECTED	Synthetics
90A	Light blue/gray speckle sheet vinyl flooring, south restroom bldg. staff restrooms	NONE DETECTED	Vinyl Calcite
	Yellow mastic	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-32  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-91A	Gray 6" vinyl base cove, south restroom bldg. staff restroom	NONE DETECTED	Opagues Calcite
	White mastic	NONE DETECTED	Calcite
92A	White drywall, south restroom bldg. ceilings	NONE DETECTED	Gypsum Fibrous Glass
	White joint compound 1	<1 CHRYSOTILE	Calcite
	White joint compound 2	<1 CHRYSOTILE	Calcite
	Composite	<1 CHRYSOTILE	Gypsum Fibrous Glass Calcite
93A	Gray cementitious wall panel, south restroom bldg. exterior	NONE DETECTED	Calcite Cellulose
93B	Gray cementitious wall panel, south restroom bldg. exterior	NONE DETECTED	Calcite Cellulose
94A	Black composition asphalt rolled roofing, south restroom bldg. roof	NONE DETECTED	Tar Binder Fibrous Glass
	Brown roofing	NONE DETECTED	Cellulose
95A	Black roof jack mastic, south restroom bldg. roof	NONE DETECTED	Tar Binder Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-33  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-96A	Black composition asphalt rolled roofing , shed near south restroom bldg. roof	NONE DETECTED	Tar Binder Fibrous Glass
97A	Gray cementitious wall panel , shed near south restroom bldg. exterior	NONE DETECTED	Calcite Cellulose
97B	Gray cementitious wall panel , shed near south restroom bldg. exterior	NONE DETECTED	Calcite Cellulose
98A	Yellow carpet mastic, bldg. w/ rooms 9-15 room 9	NONE DETECTED	Synthetics
99A	Gray mottled 12" vinyl floor tile, bldg. w/ rooms 9-15 room 9	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
99B	Gray mottled 12" vinyl floor tile <b>Room 10</b>	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
	Black mastic	NONE DETECTED	Tar Binder
100A	Brown, gray 4" vinyl base cove mastic, bldg. w/ rooms 9-15 room 9	NONE DETECTED	Synthetics
	White mastic	NONE DETECTED	Calcite

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A), THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.



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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-34  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-100B	Gray 4" vinyl base cove mastic, bldg. w/ rooms 9-15 room 11	NONE DETECTED	Calcite Opaques
	White mastic	NONE DETECTED	Calcite
101A	White drywall , bldg. w/ rooms 9-15 room 9 at HVAC closet	NONE DETECTED	Gypsum Fibrous Glass
	White joint compound 1	NONE DETECTED	Calcite
	White joint compound 2	NONE DETECTED	Calcite
101B	White drywall , bldg. w/ rooms 9-15 room 15 at HVAC closet	NONE DETECTED	Gypsum Fibrous Glass
102A	Gray vinyl floor tile , bldg. w/ rooms 9-15 room 10 beneath carpet	NONE DETECTED	Calcite
	Black mastic	1-2 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
103A	Gray pebble sheet vinyl flooring (top layer), bldg. w/ rooms 9-15 room 11	NONE DETECTED	Vinyl Cellulose
	Yellow mastic	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-35  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-104A	Light brown vinyl floor tile (bottom layer), bldg. w/ rooms 9-15 room 11	1-5 CHRYSOTILE	Calcite
	Black mastic	1-5 CHRYSOTILE	Tar Binder
105A	Light brown 9" vinyl floor tile, bldg. w/ rooms 9-15 room 11	1-5 CHRYSOTILE	Calcite
	Black mastic	1-2 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
105B	Light brown 9" vinyl floor tile, bldg. w/ rooms 9-15 room 13	1-5 CHRYSOTILE	Calcite
	Black mastic	NONE DETECTED	Tar Binder Cellulose
106A	Light brown 9" vinyl floor tile, bldg. w/ rooms 9-15 room 12 beneath carpet	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
107A	Dark brown 4" vinyl base cove, bldg. w/ rooms 9-15 room 13	NONE DETECTED	Calcite Opagues
	Brown mastic	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-36  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-108A	Brown streaked 12" vinyl floor tile, bldg. w/ rooms 9-15 room 14	1-2 CHRYSOTILE	Calcite
	Black mastic	1-5 CHRYSOTILE	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
109A	Black 4" vinyl base cove, bldg. w/ rooms 9-15 room 14	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite
	White joint compound	NONE DETECTED	Calcite
110A	Gray vinyl floor tile, bldg. w/ rooms 9-15 room 15 beneath carpet	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder Polyethylene
	Yellow mastic	NONE DETECTED	Synthetics
111A	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 9-15 room 9	NONE DETECTED	Cellulose
111B	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 9-15 room 12	NONE DETECTED	Cellulose
111C	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 9-15 room 15	NONE DETECTED	Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-37  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-112A	White HVAC duct seam tape, bldg. w/ rooms 9-15 room 15 at HVAC closet	NONE DETECTED	Cellulose Granular Mins.
113A	Gray ramp concrete , bldg. w/ rooms 9-15 exterior of room 15	NONE DETECTED	Granular Mins.
114A	Gray cementitious panels , bldg. w/ rooms 9-15 exterior west area	NONE DETECTED	Calcite Cellulose
114B	Gray cementitious panels , bldg. w/ rooms 9-15 exterior north area	NONE DETECTED	Calcite Cellulose
114C	Gray cementitious panels , bldg. w/ rooms 9-15 exterior east area	NONE DETECTED	Calcite Cellulose
115A	Black composition asphalt roiled roofing , bldg. w/rooms 9-15 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Gray caulk	NONE DETECTED	Opagues Cellulose
115B	Black composition asphalt roiled roofing , bldg. w/rooms 9-15 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Gray caulk	NONE DETECTED	Opagues Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-38  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-116A	Black roof jack mastic , bldg. w/rooms 9-15 roof	NONE DETECTED	Tar Binder Cellulose
	White caulk	NONE DETECTED	Opagues
116B	Black roof jack mastic , bldg. w/rooms 9-15 roof	NONE DETECTED	Tar Binder Cellulose
	White caulk	NONE DETECTED	Opagues
117A	Yellow carpet mastic, portables 16-18 portable 16	NONE DETECTED	Synthetics
118A	Gray mottled 12" vinyl floor tile (top layer), portables 16-18 portable 16	NONE DETECTED	Calcite
118B	Gray mottled 12" vinyl floor tile (top layer), portables 16-18 portable 17	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
	Black mastic	NONE DETECTED	Tar Binder
119A	Gray vinyl floor tile (bottom layer), portables 16-18 portable 16	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
	Black mastic	NONE DETECTED	Tar Binder

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-39  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-119B	Gray vinyl floor tile (bottom layer), portables 16-18 portable 17	NONE DETECTED	Calcite
	Black mastic 1	NONE DETECTED	Tar Binder
	Black mastic 2	NONE DETECTED	Tar Binder
120A	Dark gray 4" vinyl base cove, portables 16-18 portable 16	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite
121A	White drywall (no joint compound ), portables 16-18 portable 16 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
121B	White drywall (no joint compound ), portables 16-18 portable 18 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
122A	Gray 2'x4' ceiling panel, portables 16-18 portable 16 ceiling	NONE DETECTED	Cellulose Pumice
123A	White single ply membrane roofing, portables 16-18 portable 16 roof	NONE DETECTED	Opagues
124A	White metal roof mastic, portables 16-18 portable 17	NONE DETECTED	Calcite

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-40  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-124B	Gray metal roof mastic, portables 16-18 portable 18	NONE DETECTED	Opagues Polyethylene
125A	Yellow carpet mastic, portables 19-20 portable 19	NONE DETECTED	Synthetics
126A	Gray mottled 12" vinyl floor tile, portables 19-20 portable 19	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
127A	Gray 4" vinyl base cove, portables 19-20 portable 19	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite
128A	White drywall (no joint compound ), portables 19-20 portable 20 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
129A	Gray metal roof mastic, portables 19-20 roof	NONE DETECTED	Opagues Polyethylene
130A	Gray concrete ramp, portables 19-20 exterior access ramp	NONE DETECTED	Granular Mins.
131A	Yellow carpet mastic, portable 21	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-41  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-132A	Gray mottled 12" vinyl floor tile (top layer), portable 21	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
133A	Gray vinyl floor tile (bottom layer), portable 21	NONE DETECTED	Calcite
	Black mastic 1	NONE DETECTED	Tar Binder
	Black mastic 2	NONE DETECTED	Tar Binder
134A	Dark gray 4" vinyl base cove, portable 21	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite
135A	White drywall (no joint compound ), portable 21 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
136A	Gray metal roof mastic, portable 21 roof	NONE DETECTED	Opagues Polyethylene
137A	Yellow carpet mastic, portable 22	NONE DETECTED	Synthetics

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-42  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-138A	Light gray mottled 12" vinyl floor tile (top layer), portable 22	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
139A	Gray vinyl floor tile (bottom layer), portable 22	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
140A	Gray 4" vinyl base cove, portable 22	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite
141A	Gray/white 2'x4' ceiling panel, portable 22 ceiling	NONE DETECTED	Cellulose Pumice
142A	White drywall (no joint compound ), portable 22 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
143A	Gray metal roof mastic, portable 22 roof	NONE DETECTED	Opagues Polyethylene

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-43  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-144A	Yellow carpet mastic, portables 23-25 portable 24	NONE DETECTED	Synthetics
144B	Yellow carpet mastic, portables 23-25 portable 25	NONE DETECTED	Synthetics
145A	Brown vinyl floor tile, portables 23-25 portable 23 beneath carpet	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
	Yellow mastic	NONE DETECTED	Synthetics
146A	Gray mottled 12" vinyl floor tile, portables 23-25 portable 23 entry	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
146B	Gray mottled 12" vinyl floor tile, portables 23-25 portable 25	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
147A	Gray 4" vinyl base cove, portables 23-25 portable 23	NONE DETECTED	Calcite Opaques
	White mastic	NONE DETECTED	Calcite

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISIO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A), THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

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**Client:**  
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 4200 Rocklin Rd., Suite 7  
 Rocklin, CA 95677

**Job:**  
 23-6621 Sacramento City USD  
 Oak Ridge Elementary, 4501 Martin Luther King Jr. Blvd.  
 Sacramento , Ca

**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-44  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-147B	Gray 4" vinyl base cove	NONE DETECTED	Calcite Opaques
	White mastic	NONE DETECTED	Calcite
148A	Brown mottled 12" vinyl floor tile, portables 23-25 portable 24	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder Polyethylene
148B	Brown mottled 12" vinyl floor tile, portables 23-25 portable 24	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder Polyethylene
	Yellow mastic	NONE DETECTED	Synthetics
149A	Tan vinyl wall covering, portables 23-25 portable 25	NONE DETECTED	Vinyl Cellulose
	Yellow glue	NONE DETECTED	Synthetics
150A	Gray 2'x4' ceiling panel, portables 23-25 portable 24	NONE DETECTED	Cellulose Fibrous Glass
150B	Gray 2'x4' ceiling panel, portables 23-25 portable 25	NONE DETECTED	Cellulose Fibrous Glass

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-45  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-151A	White/brown fibrous wall panel, portables 23-25 exterior walls	NONE DETECTED	Opaques Fibrous Glass
151B	White/brown fibrous wall panel, portables 23-25 exterior walls	NONE DETECTED	Opaques Fibrous Glass
151C	White/brown fibrous wall panel, portables 23-25 exterior walls	NONE DETECTED	Cellulose Granular Mins.
152A	White HVAC duct seam tape , portables 23-25 portable 25 at HVAC closet	NONE DETECTED	Cellulose Granular Mins.
153A	Black composition asphalt rolled roofing, portables 23-25 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Gray roofing	NONE DETECTED	Cellulose Pumice
153B	Black composition asphalt rolled roofing, portables 23-25 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Gray roofing	NONE DETECTED	Cellulose Pumice
154A	Black roof jack mastic , portables 23-25 roof	NONE DETECTED	Tar Binder Cellulose
	Silver paint	NONE DETECTED	Opaques

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-46  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<u>Sample No.</u>	<u>Color/Description</u>	<u>% Type Asbestos</u>	<u>Other Materials</u>
ECG-23-6621-155A	Yellow carpet mastic, portables 26-28 portable 26	NONE DETECTED	Synthetics
155B	Yellow carpet mastic, portables 26-28 portable 27	NONE DETECTED	Synthetics
156A	Gray mottled 12" vinyl floor tile, portables 26-28 portable 26	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
156B	Gray mottled 12" vinyl floor tile, portables 26-28 portable 28	NONE DETECTED	Calcite
	Yellow mastic	NONE DETECTED	Synthetics
157A	Gray 4" vinyl base cove, portables 26-28 portable 26	NONE DETECTED	Calcite Opagues
	Yellow mastic	NONE DETECTED	Synthetics
157B	Gray 4" vinyl base cove, portables 26-28 portable 27	NONE DETECTED	Calcite Opagues
	Yellow mastic	NONE DETECTED	Synthetics
158A	White drywall (no joint compound ), portables 26-28 portable 27 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A), THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-47  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-158B	White drywall (no joint compound ), portables 26-28 portable 28 beneath fiberboard wall panels	NONE DETECTED	Gypsum Cellulose
159A	Gray metal roof mastic, portables 26-28 portable 26 at roof	NONE DETECTED	Opagues Polyethylene
159B	Gray metal roof mastic, portables 26-28 portable 28 at roof	NONE DETECTED	Opagues Polyethylene
160A	Yellow carpet mastic, bldg. w/rooms 29-30 room 29	NONE DETECTED	Synthetics
161A	Gray mottled 12" vinyl floor tile, bldg. w/rooms 29-30 room 29	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
161B	Gray mottled 12" vinyl floor tile, bldg. w/rooms 29-30 room 30	NONE DETECTED	Calcite
	Black mastic	NONE DETECTED	Tar Binder
162A	Black 4" vinyl base cove, bldg. w/rooms 29-30 room 29	NONE DETECTED	Calcite Opagues
	White mastic	NONE DETECTED	Calcite

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-48  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-163A	Yellow carpet mastic, bldg. w/rooms 29-30 room 30	NONE DETECTED	Synthetics
164A	Gray 4" vinyl base cove, bldg. w/rooms 29-30 room 30	NONE DETECTED	Calcite Opaques
	White mastic	NONE DETECTED	Calcite
165A	White drywall , bldg. w/rooms 29-30 room 29	NONE DETECTED	Gypsum Fibrous Glass
	White joint compound 1	NONE DETECTED	Calcite
	White joint compound 2	NONE DETECTED	Calcite
166A	White HVAC duct seam tape , bldg. w/rooms 29-30 room 29 at HVAC closet	NONE DETECTED	Cellulose Granular Mins.
167A	Brown/white 12" acoustic ceiling tile (nailed on), bldg. w/ rooms 29-30 room 29	NONE DETECTED	Cellulose
168A	Gray cementitious panels , bldg. w/ rooms 29-30 exterior	NONE DETECTED	Calcite Cellulose
168B	Gray cementitious panels , bldg. w/ rooms 29-30 exterior	NONE DETECTED	Calcite Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-49  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-168C	Gray cementitious panels , bldg. w/ rooms 29-30 exterior	NONE DETECTED	Calcite Cellulose
169A	Gray concrete ramp, bldg. w/ rooms 29-30 exterior access ramp	NONE DETECTED	Granular Mins.
170A	Black composition asphalt rolled roofing, bldg. w/ rooms 29-30 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Brown roofing	NONE DETECTED	Cellulose
170B	Black composition asphalt rolled roofing, bldg. w/ rooms 29-30 roof	NONE DETECTED	Tar Binder Fibrous Glass
	Brown roofing	NONE DETECTED	Cellulose
171A	Black roof jack mastic , bldg. w/ rooms 29-30 roof	NONE DETECTED	Tar Binder Cellulose
	Silver paint	NONE DETECTED	Opagues
172A	Gray CMU block, ball wall near bldg. w/ rooms 29-30	NONE DETECTED	Granular Mins.
	Gray mortar	NONE DETECTED	Granular Mins.

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**Job:**  
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 Sacramento , Ca

**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-50  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-173A	White single ply membrane roofing, east restroom /storage bldg. roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
	Black felt	NONE DETECTED	Tar Binder Cellulose
173B	White single ply membrane roofing, bldg. w/ rooms 5-8 upper roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
	Black felt	NONE DETECTED	Tar Binder Cellulose
173C	White single ply membrane roofing, bldg. w/ rooms 5-8 lower covered walkway roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
	Black felt	NONE DETECTED	Tar Binder Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-51  
 Date/Time Collected: 4/5-6/23  
 Date Received: 4/10/23

NVLAP Lab Code 101442-0  
 CDPH # 1153  
 Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-173D	White single ply membrane roofing, bldg. w/ rooms 31-34 lower covered walkway roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
	Black felt	NONE DETECTED	Tar Binder Cellulose
173E	White single ply membrane roofing, bldg. w/ rooms 31-34 upper roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
173F	White single ply membrane roofing, Admin/MPR bldg. north lower roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
173G	White single ply membrane roofing, Admin/MPR bldg. south lower roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass
	Black felt	NONE DETECTED	Tar Binder Cellulose

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**BULK ASBESTOS ANALYSIS REPORT**

LAB JOB # 70323-52  
Date/Time Collected: 4/5-6/23  
Date Received: 4/10/23

NVLAP Lab Code 101442-0  
CDPH # 1153  
Date Analyzed: 4/19/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-173H	White single ply membrane roofing, Admin/MPR bldg. MPR upper roof	NONE DETECTED	Rubber
	White roofing	NONE DETECTED	Gypsum Fibrous Glass

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70323

### BULK ASBESTOS MATERIAL *Analysis Request*

**ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7  
ROCKLIN, CA 95677  
(916) 632-6800 PHONE  
(916) 632-6812 FAX  
mainoffice@entekgroup.com

**Date of Sampling:** April 5-6, 2023

**Lab:** Asbestech

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** Friday, 4-21-23 by 5:00 pm

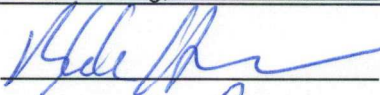
**Site Address:** Oak Ridge Elementary School  
4501 Martin Luther King Jr. Blvd  
Sacramento, CA 95820

**ANALYSIS REQUESTED:** Asbestos by PLM with Dispersion Staining

**Special Instruction:** Stop Analysis upon first positive result (>1%) for sample in a series. Also stop analysis upon first positive result (>1%) in the joint compound for sample series.

Please e-mail results at mainoffice@entekgroup.com as soon as available and include copy of submittal with those results.

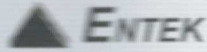
SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-01A	Black/Yellow Carpet Mastic - MPR/Admin Building, Northwest Admin Office
ECG-23-6621-01B	Black/Yellow Carpet Mastic - MPR/Admin Building, East Admin Area
ECG-23-6621-01C	Black/Yellow Carpet Mastic - MPR/Admin Building, Central Admin Area
ECG-23-6621-02A	Blue/Gray Mottled 12" Vinyl Floor Tile & Mastic - MPR/Admin Building, Admin Storage Room
ECG-23-6621-02B	Blue/Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - MPR/Admin Building, Admin Storage Room
ECG-23-6621-03A	Gray 12" Vinyl Floor Tile (Bottom Layer) & Mastic - MPR/Admin Building, Admin Storage Room
ECG-23-6621-04A	Blue/Gray 12" Vinyl Floor Tile & Mastic - MPR/Admin Building, Admin Entry Area
ECG-23-6621-04B	Blue/Gray 12" Vinyl Floor Tile (Top Layer) & Mastic - MPR/Admin Building, Admin Entry Area
ECG-23-6621-05A	Blue 12" Vinyl Floor Tile (Bottom Layer) & Mastic - MPR/Admin Building, Admin Entry Area
ECG-23-6621-06A	Dark Gray Speckled Sheet Vinyl Flooring (Top Layer) & Mastic - MPR/Admin Building, Women's Staff Restroom
ECG-23-6621-06B	Dark Gray Speckled Sheet Vinyl Flooring (Top Layer) & Mastic - MPR/Admin Building, Unisex Staff Restroom

**Delivered by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 **AM**

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70323



**BULK ASBESTOS MATERIAL** *Analysis Request*

**ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7  
ROCKLIN, CA 95677  
(916) 632-6800 PHONE  
(916) 632-6812 FAX  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** April 5-6, 2023

**Lab:** Asbestech

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** Friday, 4-21-23 by 5:00 pm

**Site Address:** Oak Ridge Elementary School  
4501 Martin Luther King Jr. Blvd  
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**ANALYSIS REQUESTED:** Asbestos by PLM with Dispersion Staining

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-07A	Beige Sheet Vinyl Flooring (Bottom Layer) & Mastic - MPR/Admin Building, Women's Staff Restroom
ECG-23-6621-07B	Beige Sheet Vinyl Flooring (Bottom Layer) & Mastic - MPR/Admin Building, Unisex Staff Restroom
ECG-23-6621-08A	Brown Mottled 12" Vinyl Floor Tile & Mastic - MPR/Admin Building, Main Hallway
ECG-23-6621-08B	Brown Mottled 12" Vinyl Floor Tile & Mastic - MPR/Admin Building, Main Hallway
ECG-23-6621-09A	Gray Speckled Sheet Vinyl Flooring & Mastic - MPR/Admin Building, Main MPR West Storage Room
ECG-23-6621-09B	Gray Speckled Sheet Vinyl Flooring & Mastic - MPR/Admin Building, Main MPR West Storage Room
ECG-23-6621-10A	Leveling Compound & Concrete Slab - MPR/Admin Building, Plant Manager Office
ECG-23-6621-11A	Gray Mottled 12" Vinyl Floor Tile & Mastic - MPR/Admin Building, Plant Manager Office
ECG-23-6621-12A	Dark Brown Vinyl Tile & Mastic - MPR/Admin Building, Stage Area Steps
ECG-23-6621-13A	Red 6" Clay Floor Tile, Grout, & Mortar - MPR/Admin Building, Kitchen

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-13B	Red 6" Clay Floor Tile, Grout, & Mortar - MPR/Admin Building, Kitchen Addition
ECG-23-6621-14A	Dark Brown 4" Vinyl Base Cove & Mastic - MPR/Admin Building, Stage Area Steps
ECG-23-6621-15A	Gray 4" Vinyl Base Cove & Mastic - MPR/Admin Building, Northwest Admin Office
ECG-23-6621-15B	Gray 4" Vinyl Base Cove & Mastic - MPR/Admin Building, Southwest Admin Office
ECG-23-6621-16A	Black 4" Vinyl Base Cove & Mastic - MPR/Admin Building, Northwest Admin Office Beneath Gray Cove
ECG-23-6621-17A	Concrete - MPR/Admin Building, Pipe Chase Tunnel
ECG-23-6621-17B	Concrete - MPR/Admin Building, Pipe Chase Tunnel
ECG-23-6621-18A	Plaster - MPR/Admin Building, Unisex Staff Restroom
ECG-23-6621-18B	Plaster - MPR/Admin Building, Northwest Admin Office
ECG-23-6621-18C	Plaster - MPR/Admin Building, Main Hallway Southeast Area
ECG-23-6621-18D	Plaster - MPR/Admin Building, Main Hallway North Area
ECG-23-6621-18E	Plaster - MPR/Admin Building, Main MPR Area
ECG-23-6621-18F	Plaster - MPR/Admin Building, Kitchen Area

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-18G	Plaster - MPR/Admin Building, Stage Area
ECG-23-6621-18H	Plaster - MPR/Admin Building, Old Boiler Room
ECG-23-6621-18I	Plaster - MPR/Admin Building, Old Boiler Room
ECG-23-6621-19A	Plasterboard Lath - MPR/Admin Building, Main Hallway Attic Space
ECG-23-6621-19B	Plasterboard Lath - MPR/Admin Building, Main Hallway Attic Space
ECG-23-6621-19C	Plasterboard Lath - MPR/Admin Building, Main Hallway Attic Space
ECG-23-6621-20A	Drywall & Joint Compound - MPR/Admin Building, Women's Staff Restroom
ECG-23-6621-20B	Drywall & Joint Compound - MPR/Admin Building, Unisex Staff Restroom
ECG-23-6621-21A	Drywall & Joint Compound - MPR/Admin Building, Main MPR Ceiling & Plenum
ECG-23-6621-21B	Drywall & Joint Compound - MPR/Admin Building, Main MPR Ceiling & Plenum
ECG-23-6621-21C	Drywall & Joint Compound - MPR/Admin Building, Main MPR Ceiling & Plenum
ECG-23-6621-22A	12" Acoustic Ceiling Tile & Tan Mastic Tab - MPR/Admin Building, Main MPR Ceiling
ECG-23-6621-22B	12" Acoustic Ceiling Tile & Tan Mastic Tab - MPR/Admin Building, Main MPR Ceiling

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-22C	12" Acoustic Ceiling Tile & Tan Mastic Tab - MPR/Admin Building, Main MPR Ceiling
ECG-23-6621-23A	HVAC Duct Seam Tape - MPR/Admin Building, Old Boiler Room
ECG-23-6621-23B	HVAC Duct Seam Tape - MPR/Admin Building, Old Boiler Room
ECG-23-6621-24A	Roofing Debris - MPR/Admin Building, Attic Space Over Main Hallway
ECG-23-6621-24B	Roofing Debris - MPR/Admin Building, Attic Space Over Main Hallway
ECG-23-6621-24C	Roofing Debris - MPR/Admin Building, Attic Space Over Main Hallway
ECG-23-6621-24D	Roofing Debris - MPR/Admin Building, Attic Space Over Main Hallway
ECG-23-6621-24E	Roofing Debris - MPR/Admin Building, Attic Space Over Main Hallway
ECG-23-6621-25A	Yellow Carpet Mastic - Building with Rooms 5-8, Room 5 (Library)
ECG-23-6621-26A	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 5 (Library)
ECG-23-6621-26B	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 6
ECG-23-6621-26C	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 7
ECG-23-6621-27A	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 5-8, Room 5 (Library)
ECG-23-6621-27B	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 5-8, Room 6

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-27C	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 5-8, Room 7
ECG-23-6621-28A	Slab Concrete - Building with Rooms 5-8, Room 7
ECG-23-6621-29A	Beige with Brown & White Streaks 9" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 8
ECG-23-6621-30A	Beige with Brown & White Streaks 12" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 8
ECG-23-6621-30B	Beige with Brown & White Streaks 12" Vinyl Floor Tile & Mastic - Building with Rooms 5-8, Room 8
ECG-23-6621-31A	Dark Brown 4" Vinyl Base Cove & Mastic - Building with Rooms 5-8, Room 8
ECG-23-6621-32A	Plaster - Building with Rooms 5-8, Room 5 (Library)
ECG-23-6621-32B	Plaster - Building with Rooms 5-8, Room 6
ECG-23-6621-32C	Plaster - Building with Rooms 5-8, Room 7
ECG-23-6621-33A	Plasterboard Lath - Building with Rooms 5-8, Room 7
ECG-23-6621-34A	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 5-8, Room 6
ECG-23-6621-34B	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 5-8, Room 8
ECG-23-6621-35A	Ceiling Insulation Paper - Building with Rooms 5-8, Room 6
ECG-23-6621-35B	Ceiling Insulation Paper - Building with Rooms 5-8, Room 8

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-36A	Roofing Debris - Building with Rooms 5-8, Room 5 (Library) Attic Space
ECG-23-6621-36B	Roofing Debris - Building with Rooms 5-8, Room 6 Attic Space
ECG-23-6621-36C	Roofing Debris - Building with Rooms 5-8, Room 7 Attic Space
ECG-23-6621-37A	Slab Concrete - East Restroom/Storage Building, South Small Storage Room
ECG-23-6621-38A	Gray/Blue Pebble Sheet Vinyl Flooring & Mastic - East Restroom/Storage Building, Boy's Restroom
ECG-23-6621-38B	Gray/Blue Pebble Sheet Vinyl Flooring & Mastic - East Restroom/Storage Building, Boy's Restroom
ECG-23-6621-39A	Light Brown Streaked 12" Vinyl Floor Tile & Mastic - East Restroom/Storage Building, South Large Storage Room
ECG-23-6621-39B	Light Brown Streaked 12" Vinyl Floor Tile & Mastic - East Restroom/Storage Building, South Large Storage Room Restroom
ECG-23-6621-40A	Dark Brown Mottled 12" Vinyl Floor Tile & Mastic - East Restroom/Storage Building, North Storage Room
ECG-23-6621-40B	Dark Brown Mottled 12" Vinyl Floor Tile & Mastic - East Restroom/Storage Building, North Storage Room
ECG-23-6621-41A	Yellow Pebble Sheet Vinyl Flooring & Mastic - East Restroom/Storage Building, North Storage Room Restroom

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-42A	Light Blue Speckled Sheet Vinyl Flooring & Mastic - East Restroom/Storage Building, Girl's Restroom
ECG-23-6621-42B	Light Blue Speckled Sheet Vinyl Flooring & Mastic - East Restroom/Storage Building, Girl's Restroom
ECG-23-6621-43A	Gray 6" Vinyl Base Cove & Mastic - East Restroom/Storage Building, Girl's Restroom
ECG-23-6621-44A	Gray 4" Vinyl Base Cove & Mastic - East Restroom/Storage Building, North Storage Room
ECG-23-6621-45A	Black 4" Vinyl Base Cove & Mastic - East Restroom/Storage Building, South Large Storage Room
ECG-23-6621-46A	Gray 6" Vinyl Base Cove & Mastic - East Restroom/Storage Building, Boy's Restroom
ECG-23-6621-47A	Plaster - East Restroom/Storage Building, Boy's Restroom
ECG-23-6621-47B	Plaster - East Restroom/Storage Building, Custodial Closet
ECG-23-6621-47C	Plaster - East Restroom/Storage Building, North Storage Room
ECG-23-6621-48A	Plasterboard Lath - East Restroom/Storage Building, Boy's Restroom
ECG-23-6621-49A	Roofing Debris - East Restroom/Storage Building, North Storage Room Attic Space

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-49B	Roofing Debris - East Restroom/Storage Building, North Storage Room Attic Space
ECG-23-6621-50A	Carpet Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-50B	Carpet Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-51A	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 31-34, Room 31
ECG-23-6621-51B	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 31-34, Room 32
ECG-23-6621-51C	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 31-34, Room 33
ECG-23-6621-52A	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 31-34, Room 31
ECG-23-6621-53A	Gray Pebble Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-53B	Gray Pebble Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-54A	Green 9" Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-54B	Green 9" Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-55A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 31-34, Room 34
ECG-23-6621-56A	Plaster - Building with Rooms 31-34, Room 32

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-56B	Plaster - Building with Rooms 31-34, Room 33
ECG-23-6621-56C	Plaster - Building with Rooms 31-34, Room 34
ECG-23-6621-57A	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 31-34, Room 32
ECG-23-6621-57B	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 31-34, Room 34
ECG-23-6621-58A	Ceiling Insulation Paper - Building with Rooms 31-34, Room 32
ECG-23-6621-58B	Ceiling Insulation Paper - Building with Rooms 31-34, Room 34
ECG-23-6621-59A	Roofing Debris - Building with Rooms 31-34, Room 32 Attic Space
ECG-23-6621-59B	Roofing Debris - Building with Rooms 31-34, Room 34 Attic Space
ECG-23-6621-60A	Tan 2" Ceramic Floor Tile & Grout - Building with Rooms 31-34, Staff Restrooms
ECG-23-6621-61A	White 4" Ceramic Wall Tile & Grout - Building with Rooms 31-34, Staff Restrooms
ECG-23-6621-62A	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, East Area
ECG-23-6621-62B	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, East Area
ECG-23-6621-62C	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, North Area

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-62D	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, Northwest Area
ECG-23-6621-62E	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, Southwest Area
ECG-23-6621-62F	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, South Area
ECG-23-6621-62G	Stucco - Admin/MPR, Classrooms 5-8, East Restroom/Storage, & Classrooms 31-34 Buildings Exterior, Central Area
ECG-23-6621-63A	Window Glazing Putty - Building with Rooms 31-34, Exterior North Side
ECG-23-6621-63B	Window Glazing Putty - Building with Rooms 31-34, Exterior North Side
ECG-23-6621-63C	Window Glazing Putty - Building with Rooms 31-34, Exterior North Side
ECG-23-6621-63D	Window Glazing Putty - Building with Rooms 31-34, Exterior South Side
ECG-23-6621-63E	Window Glazing Putty - Building with Rooms 31-34, Exterior South Side
ECG-23-6621-63F	Window Glazing Putty - MPR/Admin Building, Exterior West Side
ECG-23-6621-63G	Window Glazing Putty - MPR/Admin Building, Exterior West Side
ECG-23-6621-64A	Gray Speckled Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 1

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**BULK ASBESTOS MATERIAL** *Analysis Request*

**ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7  
ROCKLIN, CA 95677  
(916) 632-6800 PHONE  
(916) 632-6812 FAX  
mainoffice@entekgroup.com

**Date of Sampling:** April 5-6, 2023

**Lab:** Asbestech

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** Friday, 4-21-23 by 5:00 pm

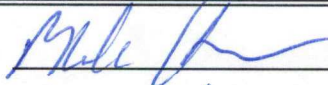
**Site Address:** Oak Ridge Elementary School  
4501 Martin Luther King Jr. Blvd  
Sacramento, CA 95820

**ANALYSIS REQUESTED:** Asbestos by PLM with Dispersion Staining

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-65A	Gray Vinyl Floor Tile (Bottom Layer) & Black mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-66A	Gray Stone Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 1 Child Restroom
ECG-23-6621-66B	Gray Stone Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 2 Child Restroom
ECG-23-6621-66C	Gray Stone Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 3 Child Restroom
ECG-23-6621-67A	Gray Vinyl Floor Tile (Bottom Layer) & Black mastic - Building with Rooms 1-4, Room 1 Child Restroom
ECG-23-6621-68A	Gray Sheet Vinyl Flooring (Bottom Layer) & Mastic - Building with Rooms 1-4, Room 2 Child Restroom
ECG-23-6621-69A	Gray Pebble Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 2
ECG-23-6621-69B	Gray Pebble Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 1-4, Room 4 Child Restroom
ECG-23-6621-70A	Gray Vinyl Floor Tile (Bottom Layer) & Black mastic - Building with Rooms 1-4, Room 2
ECG-23-6621-71A	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Building with Rooms 1-4, Room 2

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-71B	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Building with Rooms 1-4, Room 3
ECG-23-6621-71C	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-72A	Beige Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 1-4, Room 2
ECG-23-6621-73A	Green 9" Vinyl Floor Tile & Mastic - Building with Rooms 1-4, Room 2
ECG-23-6621-74A	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 1-4, Room 3
ECG-23-6621-75A	Carpet Mastic - Building with Rooms 1-4, Room 4
ECG-23-6621-76A	Light Brown Streaked 9" Vinyl Floor Tile & Mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-76B	Light Brown Streaked 9" Vinyl Floor Tile & Mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-77A	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-78A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 1-4, Room 1
ECG-23-6621-79A	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 1-4, Room 2

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-80A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 1-4, Room 2
ECG-23-6621-81A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 1-4, Room 3
ECG-23-6621-82A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 1-4, Room 4
ECG-23-6621-83A	Plaster - Building with Rooms 1-4, Room 4
ECG-23-6621-83B	Plaster - Building with Rooms 1-4, Room 3
ECG-23-6621-83C	Plaster - Building with Rooms 1-4, Room 2
ECG-23-6621-83D	Plaster - Building with Rooms 1-4, Room 1
ECG-23-6621-83E	Plaster - Building with Rooms 1-4, Room 1
ECG-23-6621-84A	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 1-4, Room 4
ECG-23-6621-84B	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 1-4, Room 1
ECG-23-6621-85A	Ceiling Insulation Paper - Building with Rooms 1-4, Room 4
ECG-23-6621-85B	Ceiling Insulation Paper - Building with Rooms 1-4, Room 1
ECG-23-6621-86A	Stucco - Building with Rooms 1-4, Exterior Southwest Area
ECG-23-6621-86B	Stucco - Building with Rooms 1-4, Exterior Northwest Area
ECG-23-6621-86C	Stucco - Building with Rooms 1-4, Exterior Northeast Area

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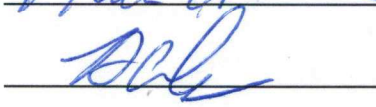
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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-87A	Composition Asphalt Rolled Roofing - Building with Rooms 1-4, Upper Roof
ECG-23-6621-87B	Composition Asphalt Rolled Roofing - Building with Rooms 1-4, Lower Roof
ECG-23-6621-88A	Roof Jack Mastic - Building with Rooms 1-4, Roof
ECG-23-6621-89A	Gray Stone Pattern Sheet Vinyl Flooring & Mastic - South Restroom Building, Student Restrooms
ECG-23-6621-90A	Light Blue/Gray Speckle Sheet Vinyl Flooring & Mastic - South Restroom Building, Staff Restrooms
ECG-23-6621-91A	Gray 6" Vinyl Base Cove & Mastic - South Restroom Building, Staff Restroom
ECG-23-6621-92A	Drywall & Joint Compound - South Restroom Building, Ceilings
ECG-23-6621-93A	Cementitious Wall Panel - South Restroom Building, Exterior
ECG-23-6621-93B	Cementitious Wall Panel - South Restroom Building, Exterior
ECG-23-6621-94A	Composition Asphalt Rolled Roofing - South Restroom Building, Roof
ECG-23-6621-95A	Roof Jack Mastic - South Restroom Building, Roof
ECG-23-6621-96A	Composition Asphalt Rolled Roofing - Shed Near South Restroom Building, Roof
ECG-23-6621-97A	Cementitious Wall Panel - Shed Near South Restroom Building, Exterior
ECG-23-6621-97B	Cementitious Wall Panel - Shed Near South Restroom Building, Exterior

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-98A	Carpet Mastic - Building with Rooms 9-15, Room 9
ECG-23-6621-99A	Gray Mottled 12" Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 9
ECG-23-6621-100A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 9-15, Room 9
ECG-23-6621-100B	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 9-15, Room 11
ECG-23-6621-101A	Drywall & Joint Compound - Building with Rooms 9-15, Room 9 at HVAC Closet
ECG-23-6621-101B	Drywall & Joint Compound - Building with Rooms 9-15, Room 15 at HVAC Closet
ECG-23-6621-102A	Gray Vinyl Floor Tile & Black Mastic - Building with Rooms 9-15, Room 10 Beneath Carpet
ECG-23-6621-103A	Gray Pebble Pattern Sheet Vinyl Flooring (Top Layer) & Mastic - Building with Rooms 9-15, Room 11
ECG-23-6621-104A	Light Brown Vinyl Floor Tile (Bottom Layer) & Mastic - Building with Rooms 9-15, Room 11
ECG-23-6621-105A	Light Brown 9" Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 11
ECG-23-6621-105B	Light Brown 9" Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 13
ECG-23-6621-106A	Light Brown Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 12 Beneath Carpet

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-107A	Dark Brown 4" Vinyl Base Cove & Mastic - Building with Rooms 9-15, Room 13
ECG-23-6621-108A	Brown Streaked 12" Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 14
ECG-23-6621-109A	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 9-15, Room 14
ECG-23-6621-110A	Gray Vinyl Floor Tile & Mastic - Building with Rooms 9-15, Room 15 Beneath Carpet
ECG-23-6621-111A	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 9-15, Room 9
ECG-23-6621-111B	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 9-15, Room 12
ECG-23-6621-111C	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 9-15, Room 15
ECG-23-6621-112A	HVAC Duct Seam Tape - Building with Rooms 9-15, Room 15 at HVAC Closet
ECG-23-6621-113A	Ramp Concrete - Building with Rooms 9-15, Exterior of Room 15
ECG-23-6621-114A	Cementitious Panels - Building with Rooms 9-15, Exterior West Area
ECG-23-6621-114B	Cementitious Panels - Building with Rooms 9-15, Exterior North Area
ECG-23-6621-114C	Cementitious Panels - Building with Rooms 9-15, Exterior East Area
ECG-23-6621-115A	Composition Asphalt Rolled Roofing - Building with Rooms 9-15, Roof
ECG-23-6621-115B	Composition Asphalt Rolled Roofing - Building with Rooms 9-15, Roof

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-116A	Roof Jack Mastic - Building with Rooms 9-15, Roof
ECG-23-6621-116B	Roof Jack Mastic - Building with Rooms 9-15, Roof
ECG-23-6621-117A	Carpet Mastic - Portables 16-18, Portable 16
ECG-23-6621-118A	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Portables 16-18, Portable 16
ECG-23-6621-118B	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Portables 16-18, Portable 17
ECG-23-6621-119A	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Portables 16-18, Portable 16
ECG-23-6621-119B	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Portables 16-18, Portable 17
ECG-23-6621-120A	Dark Gray 4" Vinyl Base Cove & Mastic - Portables 16-18, Portable 16
ECG-23-6621-121A	Drywall (No Joint Compound) - Portables 16-18, Portable 16 Beneath Fiberboard Wall Panels
ECG-23-6621-121B	Drywall (No Joint Compound) - Portables 16-18, Portable 18 Beneath Fiberboard Wall Panels
ECG-23-6621-122A	2'x4' Ceiling Panel - Portables 16-18, Portable 16 Ceiling
ECG-23-6621-123A	Single Ply Membrane Roofing - Portables 16-18, Portable 16 Roof
ECG-23-6621-124A	Metal Roof Mastic - Portables 16-18, Portable 17

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-124B	Metal Roof Mastic - Portables 16-18, Portable 18
ECG-23-6621-125A	Carpet Mastic - Portables 19-20, Portable 19
ECG-23-6621-126A	Gray Mottled 12" Vinyl Floor Tile & Mastic - Portables 19-20, Portable 19
ECG-23-6621-127A	Gray 4" Vinyl Base Cove & Mastic - Portables 19-20, Portable 19
ECG-23-6621-128A	Drywall (No Joint Compound) - Portables 19-20, Portable 20 Beneath Fiberboard Wall Panels
ECG-23-6621-129A	Metal Roof Mastic - Portables 19-20, Roof
ECG-23-6621-130A	Concrete Ramp - Portables 19-20, Exterior Access Ramp
ECG-23-6621-131A	Carpet Mastic - Portable 21
ECG-23-6621-132A	Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Portable 21
ECG-23-6621-133A	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Portable 21
ECG-23-6621-134A	Dark Gray 4" Vinyl Base Cove & Mastic - Portable 21
ECG-23-6621-135A	Drywall (No Joint Compound) - Portable 21 Beneath Fiberboard Wall Panels
ECG-23-6621-136A	Metal Roof Mastic - Portables 21, Roof
ECG-23-6621-137A	Carpet Mastic - Portable 22
ECG-23-6621-138A	Light Gray Mottled 12" Vinyl Floor Tile (Top Layer) & Mastic - Portable 22

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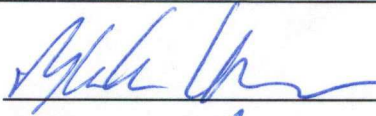
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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-139A	Gray Vinyl Floor Tile (Bottom Layer) & Mastic - Portable 22
ECG-23-6621-140A	Gray 4" Vinyl Base Cove & Mastic - Portable 22
ECG-23-6621-141A	2'x4' Ceiling Panel - Portable 22, Ceiling
ECG-23-6621-142A	Drywall (No Joint Compound) - Portable 22 Beneath Fiberboard Wall Panels
ECG-23-6621-143A	Metal Roof Mastic - Portables 22, Roof
ECG-23-6621-144A	Carpet Mastic - Portables 23-25, Portable 24
ECG-23-6621-144B	Carpet Mastic - Portables 23-25, Portable 25
ECG-23-6621-145A	Brown Vinyl Floor Tile & Mastic - Portables 23-25, Portable 23 Beneath Carpet
ECG-23-6621-146A	Gray Mottled 12" Vinyl Floor Tile & Mastic - Portables 23-25, Portable 23 Entry
ECG-23-6621-146B	Gray Mottled 12" Vinyl Floor Tile & Mastic - Portables 23-25, Portable 25
ECG-23-6621-147A	Gray 4" Vinyl Base Cove & Mastic - Portables 23-25, Portable 23
ECG-23-6621-148A	Brown Mottled 12" Vinyl Floor Tile & Mastic - Portables 23-25, Portable 24
ECG-23-6621-148B	Brown Mottled 12" Vinyl Floor Tile & Mastic - Portables 23-25, Portable 24
ECG-23-6621-149A	Vinyl Wall Covering - Portables 23-25, Portable 25
ECG-23-6621-150A	2'x4' Ceiling Panel - Portables 23-25, Portable 24

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-150B	2'x4' Ceiling Panel - Portables 23-25, Portable 25
ECG-23-6621-151A	Fibrous Wall Panel - Portables 23-25, Exterior Walls
ECG-23-6621-151B	Fibrous Wall Panel - Portables 23-25, Exterior Walls
ECG-23-6621-151C	Fibrous Wall Panel - Portables 23-25, Exterior Walls
ECG-23-6621-152A	HVAC Duct Seam Tape - Portables 23-25, Portable 25 at HVAC Closet
ECG-23-6621-153A	Composition Asphalt Rolled Roofing - Portables 23-25, Roof
ECG-23-6621-153B	Composition Asphalt Rolled Roofing - Portables 23-25, Roof
ECG-23-6621-154A	Roof Jack Mastic - Portables 23-25, Roof
ECG-23-6621-155A	Carpet Mastic - Portables 26-28, Portable 26
ECG-23-6621-155B	Carpet Mastic - Portables 26-28, Portable 27
ECG-23-6621-156A	Gray Mottled 12" Vinyl Floor Tile & Mastic - Portables 26-28, Portable 26
ECG-23-6621-156B	Gray Mottled 12" Vinyl Floor Tile & Mastic - Portables 26-28, Portable 28
ECG-23-6621-157A	Gray 4" Vinyl Base Cove - Portables 26-28, Portable 26
ECG-23-6621-157B	Gray 4" Vinyl Base Cove - Portables 26-28, Portable 27
ECG-23-6621-158A	Drywall (No Joint Compound) - Portables 26-28, Portable 27 Beneath Fiberboard Wall Panels

**Delivered by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 **AM**

**Received by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 **AM**





70323

### BULK ASBESTOS MATERIAL *Analysis Request*

**ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7  
ROCKLIN, CA 95677  
(916) 632-6800 PHONE  
(916) 632-6812 FAX  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** April 5-6, 2023

**Lab:** Asbestech

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** Friday, 4-21-23 by 5:00 pm

**Site Address:** Oak Ridge Elementary School  
4501 Martin Luther King Jr. Blvd  
Sacramento, CA 95820

**ANALYSIS REQUESTED:** Asbestos by PLM with Dispersion Staining

**Special Instruction:** *Stop Analysis upon first positive result (>1%) for sample in a series. Also stop analysis upon first positive result (>1%) in the joint compound for sample series.*

Please e-mail results at [mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com) as soon as available and include copy of submittal with those results.

SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-158B	Drywall (No Joint Compound) - Portables 26-28, Portable 28 Beneath Fiberboard Wall Panels
ECG-23-6621-159A	Metal Roof Mastic - Portables 26-28, Portable 26 at Roof
ECG-23-6621-159B	Metal Roof Mastic - Portables 26-28, Portable 28 at Roof
ECG-23-6621-160A	Carpet Mastic - Building with Rooms 29-30, Room 29
ECG-23-6621-161A	Gray Mottled 12" Vinyl Floor Tile & Mastic - Building with Rooms 29-30, Room 29
ECG-23-6621-161B	Gray Mottled 12" Vinyl Floor Tile & Mastic - Building with Rooms 29-30, Room 30
ECG-23-6621-162A	Black 4" Vinyl Base Cove & Mastic - Building with Rooms 29-30, Room 29
ECG-23-6621-163A	Carpet Mastic - Building with Rooms 29-30, Room 30
ECG-23-6621-164A	Gray 4" Vinyl Base Cove & Mastic - Building with Rooms 29-30, Room 30
ECG-23-6621-165A	Drywall & Joint Compound - Building with Rooms 29-30, Room 29
ECG-23-6621-166A	HVAC Duct Seam Tape - Building with Rooms 29-30, Room 29 at HVAC Closet
ECG-23-6621-167A	12" Acoustic Ceiling Tile (Nailed On) - Building with Rooms 29-30, Room 29
ECG-23-6621-168A	Cementitious Panels - Building with Rooms 29-30, Exterior

**Delivered by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 AM

**Received by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 AM



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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-168B	Cementitious Panels - Building with Rooms 29-30, Exterior
ECG-23-6621-168C	Cementitious Panels - Building with Rooms 29-30, Exterior
ECG-23-6621-169A	Concrete Ramp - Building with Rooms 29-30, Exterior Access Ramp
ECG-23-6621-170A	Composition Asphalt Rolled Roofing - Building with Rooms 29-30, Roof
ECG-23-6621-170B	Composition Asphalt Rolled Roofing - Building with Rooms 29-30, Roof
ECG-23-6621-171A	Roof Jack Mastic - Building with Rooms 29-30, Roof
ECG-23-6621-172A	CMU Block & Mortar - Ball Wall Near Building with Rooms 29-30
ECG-23-6621-173A	Single Ply Membrane Roofing - East Restroom/Storage Building, Roof
ECG-23-6621-173B	Single Ply Membrane Roofing - Building with Rooms 5-8, Upper Roof
ECG-23-6621-173C	Single Ply Membrane Roofing - Building with Rooms 5-8, Lower Covered Walkway Roof
ECG-23-6621-173D	Single Ply Membrane Roofing - Building with Rooms 31-34, Lower Covered Walkway Roof
ECG-23-6621-173E	Single Ply Membrane Roofing - Building with Rooms 31-34, Upper Roof
ECG-23-6621-173F	Single Ply Membrane Roofing - Admin/MPR Building, North Lower Roof
ECG-23-6621-173G	Single Ply Membrane Roofing - Admin/MPR Building, South Lower Roof

**Delivered by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 **AM**

**Received by:**  **Date:** 4 / 10 / 23 **Time:** 11:40 **AM**





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# BULK ASBESTOS MATERIAL *Analysis Request*

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(916) 632-6800 PHONE  
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mainoffice@entekgroup.com

**Date of Sampling:** April 5-6, 2023

**Lab:** Asbestech

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** Friday, 4-21-23 by 5:00 pm

**Site Address:** Oak Ridge Elementary School  
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Sacramento, CA 95820

**ANALYSIS REQUESTED:** Asbestos by PLM with Dispersion Staining


**Special Instruction:** Stop Analysis upon first positive result (>1%) for sample in a series. Also stop analysis upon first positive result (>1%) in the joint compound for sample series.

Please e-mail results at mainoffice@entekgroup.com as soon as available and include copy of submittal with those results.

SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-173H	Single Ply Membrane Roofing - Admin/MPR Building, MPR Upper Roof

C:\Users\lhowes\Entek Consulting Group, Inc\Entekgroup - Documents\Clients\Sacramento City USD\23-6621 Oak Ridge ES - AsbPb\Bulk Asb\Bulk Request 04-06-23.wpd

Delivered by:  Date: 4 / 10 / 23 Time: 11:40 AM

Received by:  Date: 4 / 10 / 23 Time: 11:40 AM

ASBESTECH  
11151 Sun Center Drive, Suite B  
Rancho Cordova, CA 95670  
Tel.(916) 481-8902 asbestech@sbcglobal.net

**Client:**

Entek Consulting Group, Inc.  
4200 Rocklin Rd., Suite 7  
Rocklin, CA 95677

**Job:**

23-6621 Sacramento City USD  
Oak Ridge Elementary, 4501 Martin Luther King Jr. Blvd.  
Sacramento, Ca

**BULK ASBESTOS ANALYSIS REPORT**

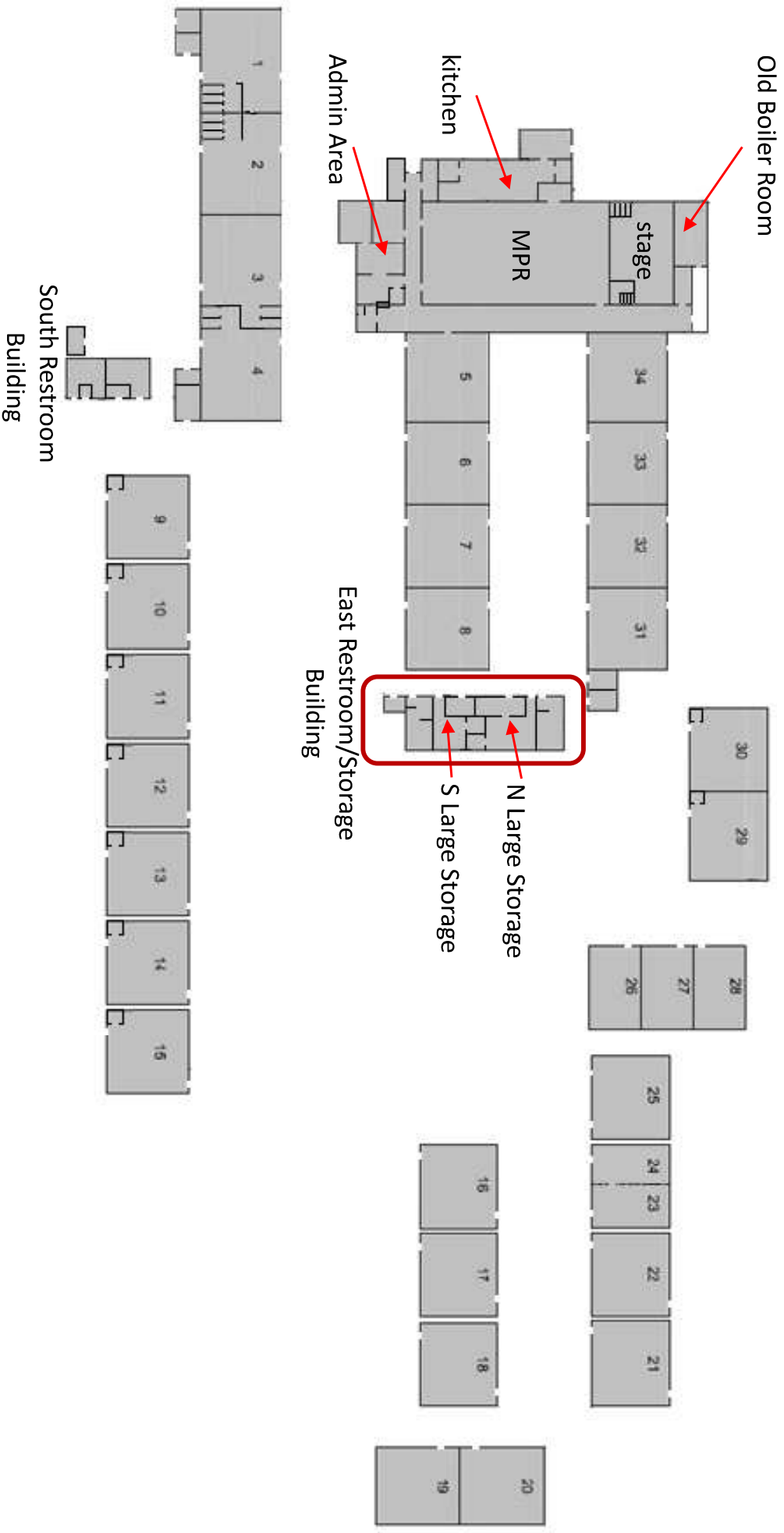
LAB JOB # 70351  
Date/Time Collected: 4/5-6/23  
Date Received: 4/10/23

NVLAP Lab Code 101442-0  
CDPH # 1153  
Date Analyzed: 4/20/23

<i>Sample No.</i>	<i>Color/Description</i>	<i>% Type Asbestos</i>	<i>Other Materials</i>
ECG-23-6621-92A	White drywall/joint compound composite south restroom bldg, ceilings	TRACE CHRYSOTILE	Gypsum Fibrous Glass Calcite

NOTE: This sample was analyzed by quantitative Point Counting using a Chalkley Point Array over 400 non-empty points.

THE ANALYSIS USES POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING FOLLOWING E.P.A. METHOD 600/R-93/116. NON-FRIABLE MATERIALS WERE ANALYZED APPLYING THE SAME METHOD. THE LOWER DETECTION LIMIT IS <1 % WITH THE PROVISIO THAT PLM MAY NOT DETECT FIBERS <0.25 MICRONS IN DIAMETER THAT MAY BE PRESENT IN SAMPLES SUCH AS FLOOR TILES. IN ACCORDANCE WITH TITLE 22, CCR, SECTION 66261.24(a)(2)(A), THE MCL IS 1 %. SAMPLES WERE NOT COLLECTED BY ASBESTECH. THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF ASBESTECH. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY N.V.L.A.P. OR ANY AGENCY OF THE U.S. GOVERNMENT. ASBESTECH ACCEPTS TECHNICAL RESPONSIBILITY FOR THIS REPORT AND DATE OF ISSUE.

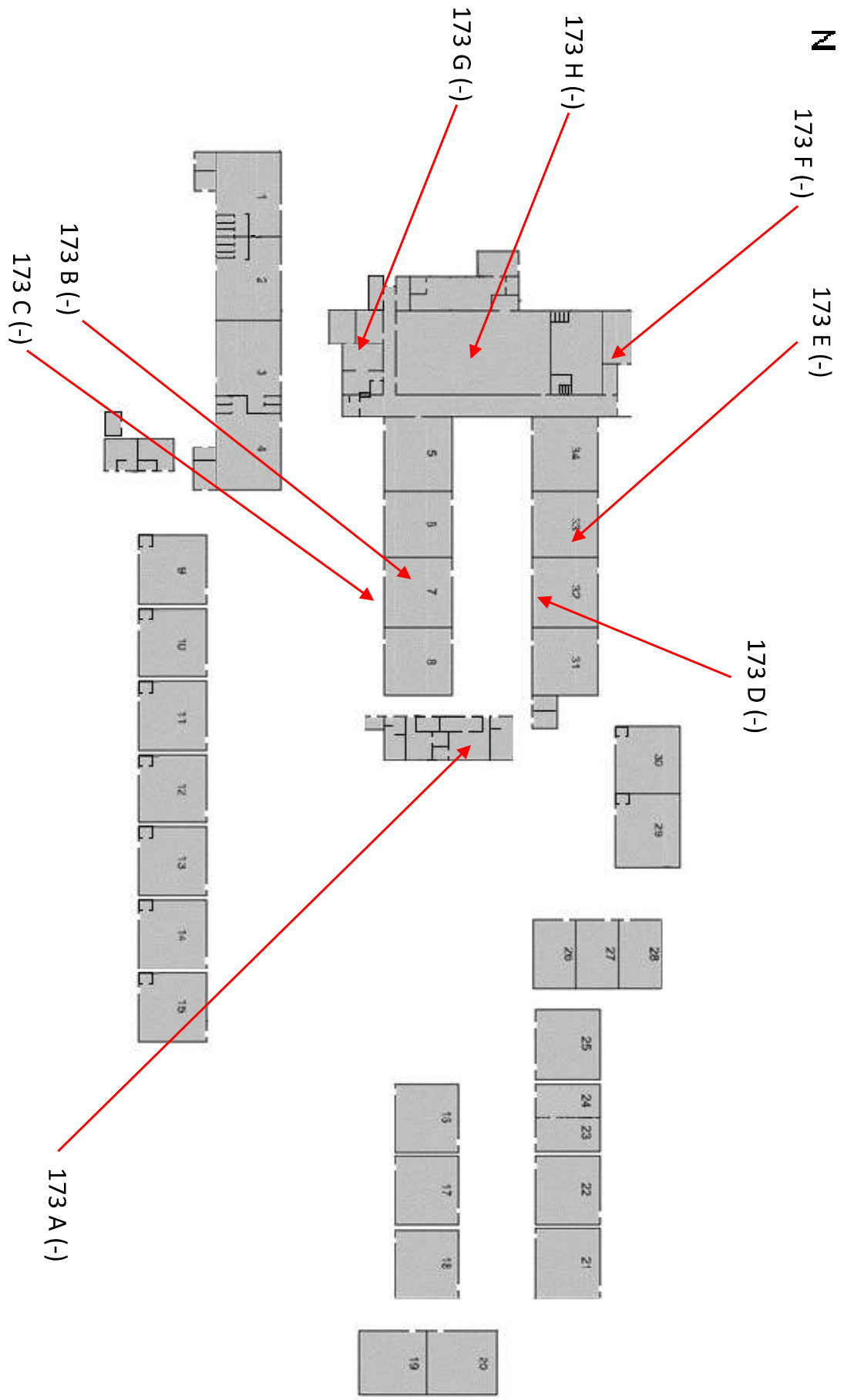
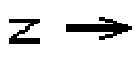


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Map Not to Scale

Asbestos Bulk Sample Locations  
Collected by Blake Howes  
On April 5-6, 2023  
Project Number 23-6621

# Site Plan



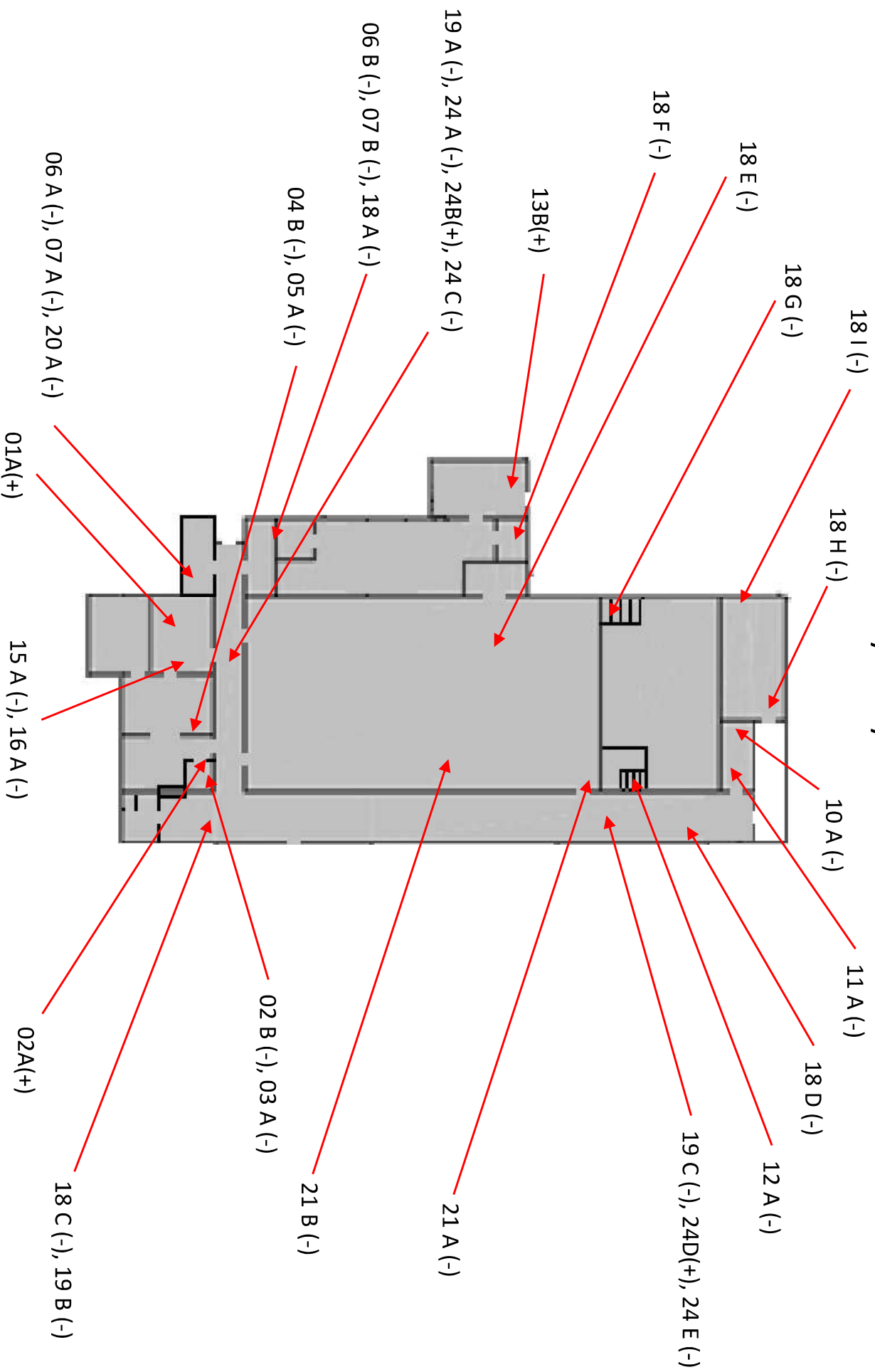
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# Admin/MPR/Kitchen

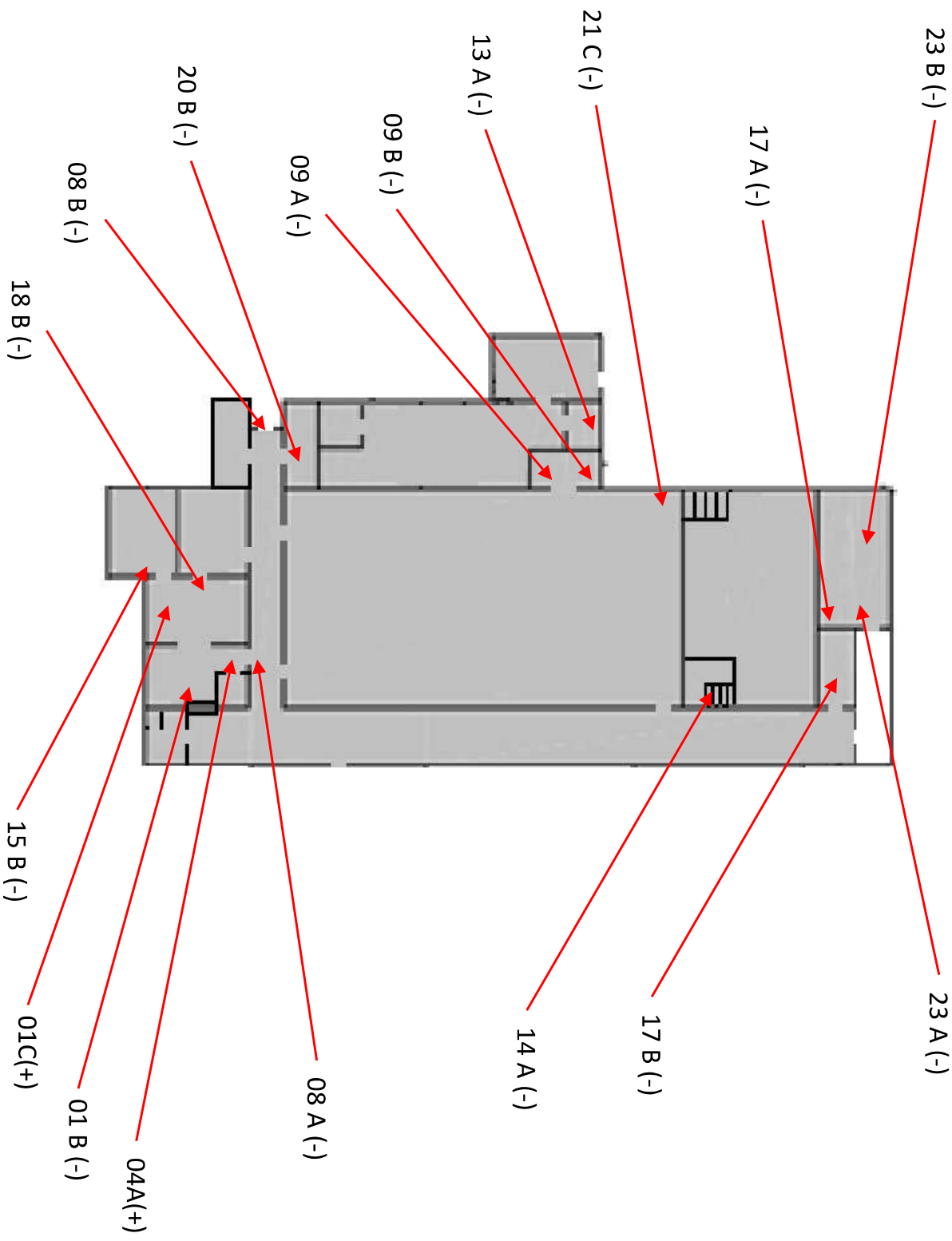


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Project Number 23-6621

# Admin/MPR/Kitchen



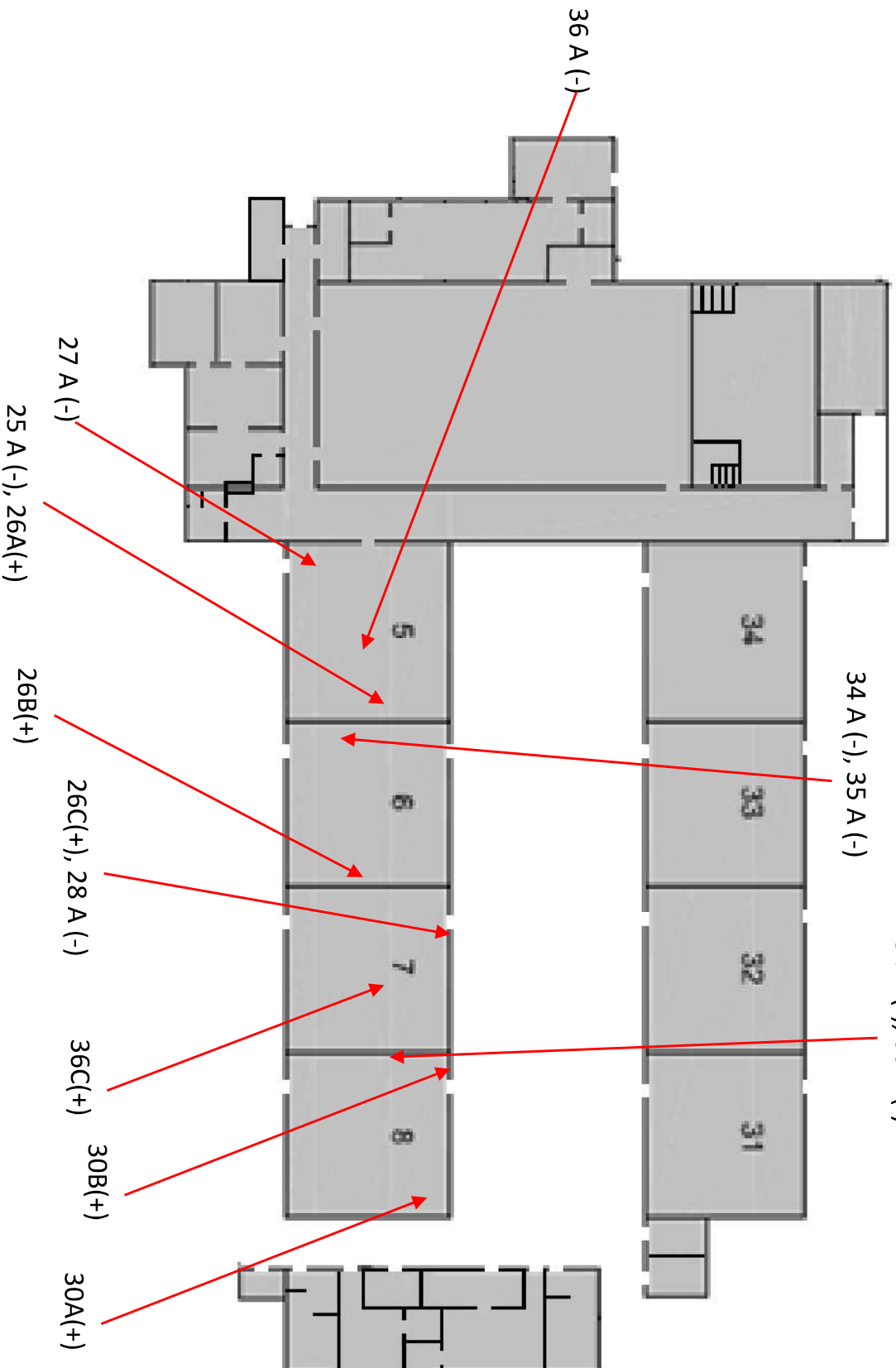
Sacramento City Unified School District  
Oak Ridge Elementary School  
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# Admin/MPR/Kitchen, Rooms 5-8, Rooms 31-34, East Storage/RR Building

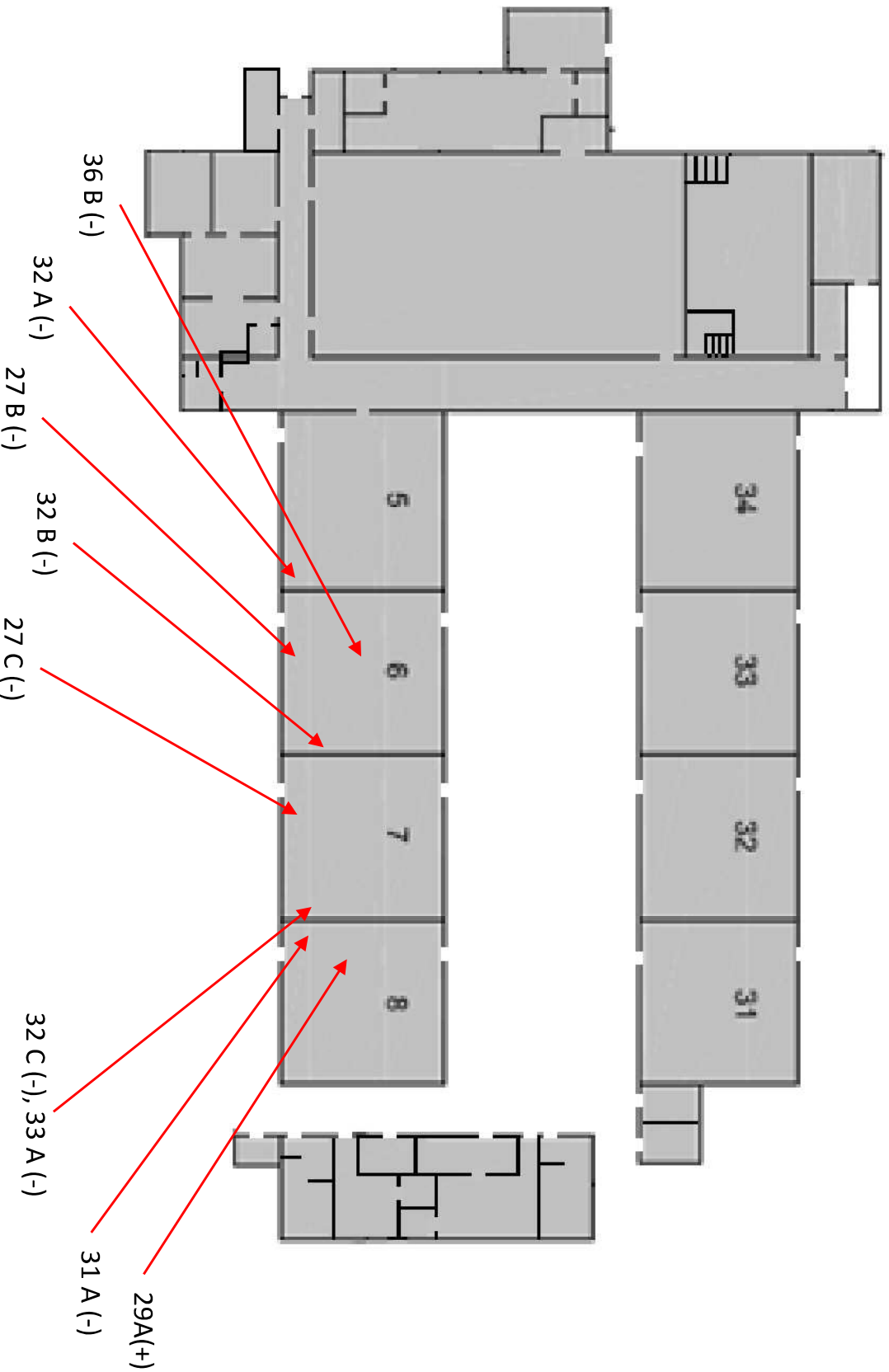


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# Admin/MPR/Kitchen, Rooms 5-8, Rooms 31-34, East Storage/RR Building

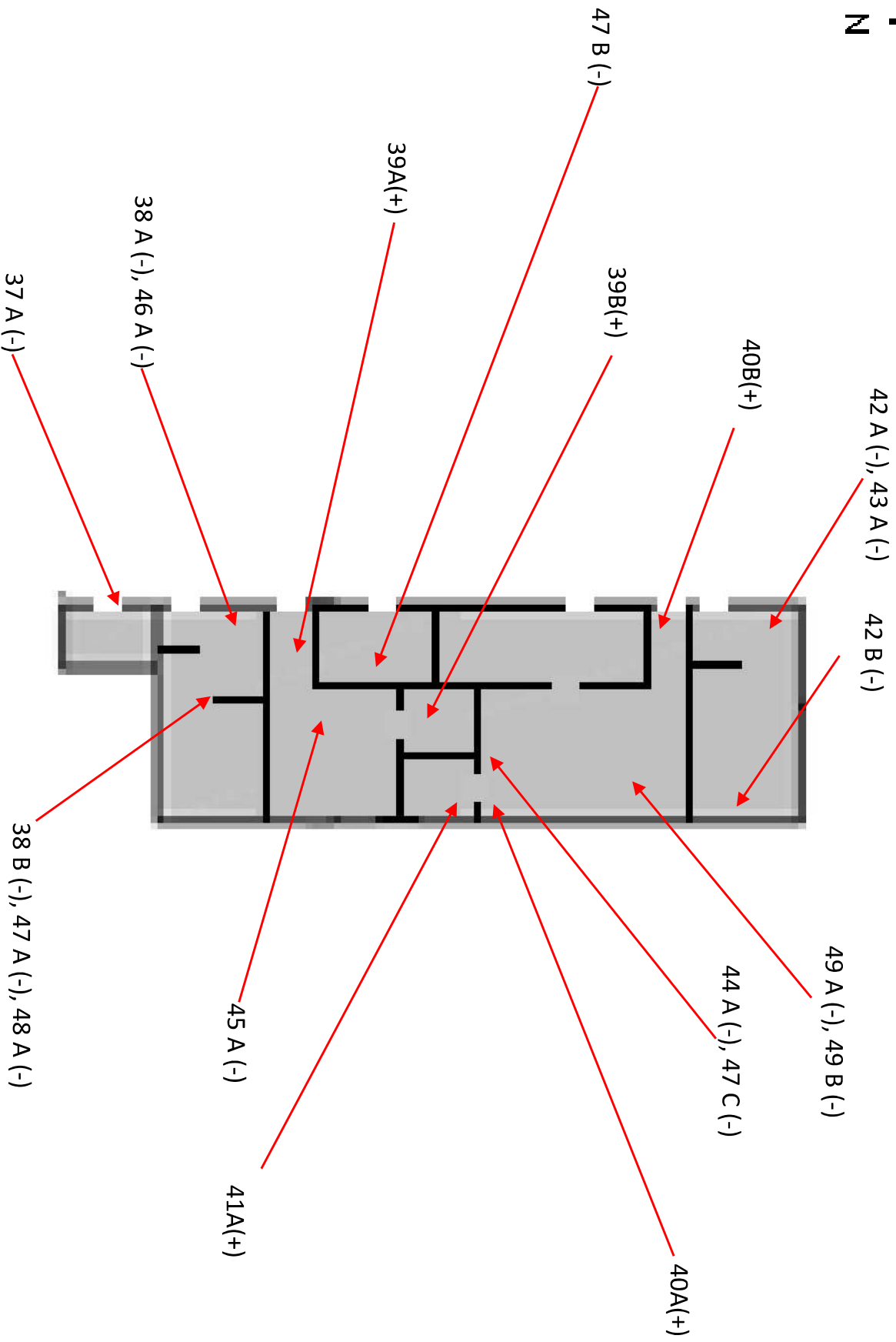


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# East Restroom/Storage Building



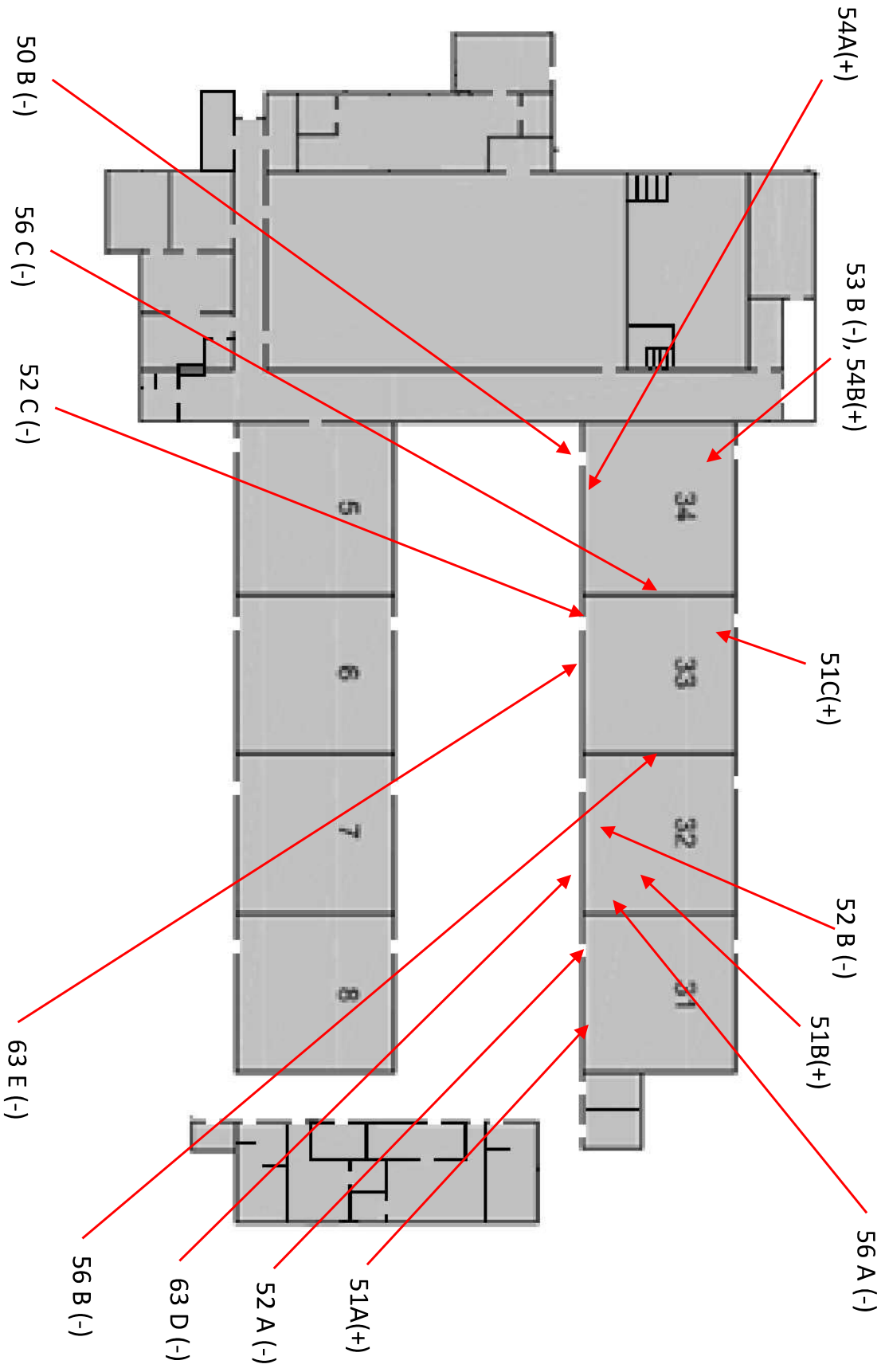
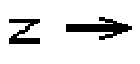
Sacramento City Unified School District  
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# Admin/MPR/Kitchen, Rooms 5-8, Rooms 31-34, East Storage/RR Building

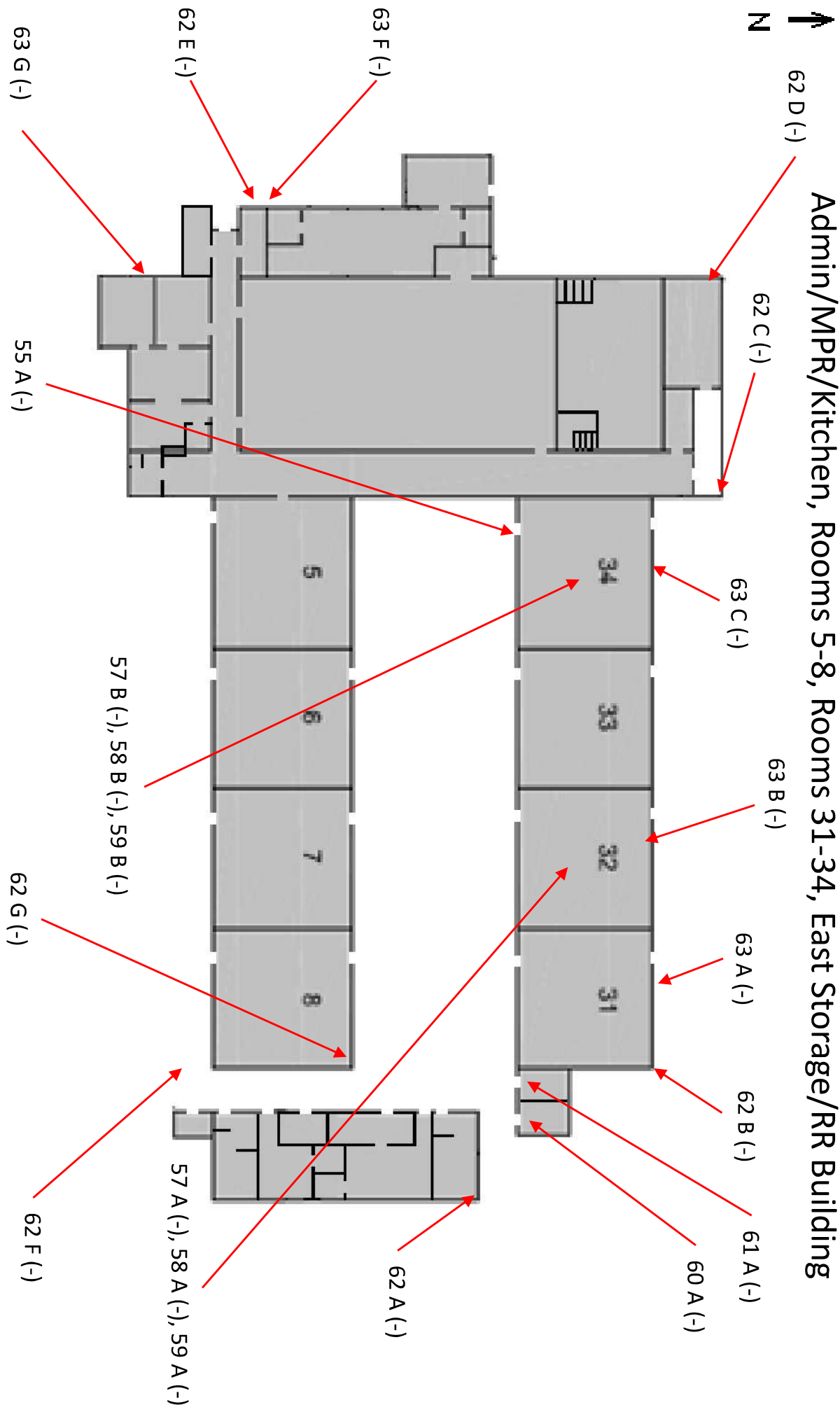


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# Admin/MPPR/Kitchen, Rooms 5-8, Rooms 31-34, East Storage/RR Building

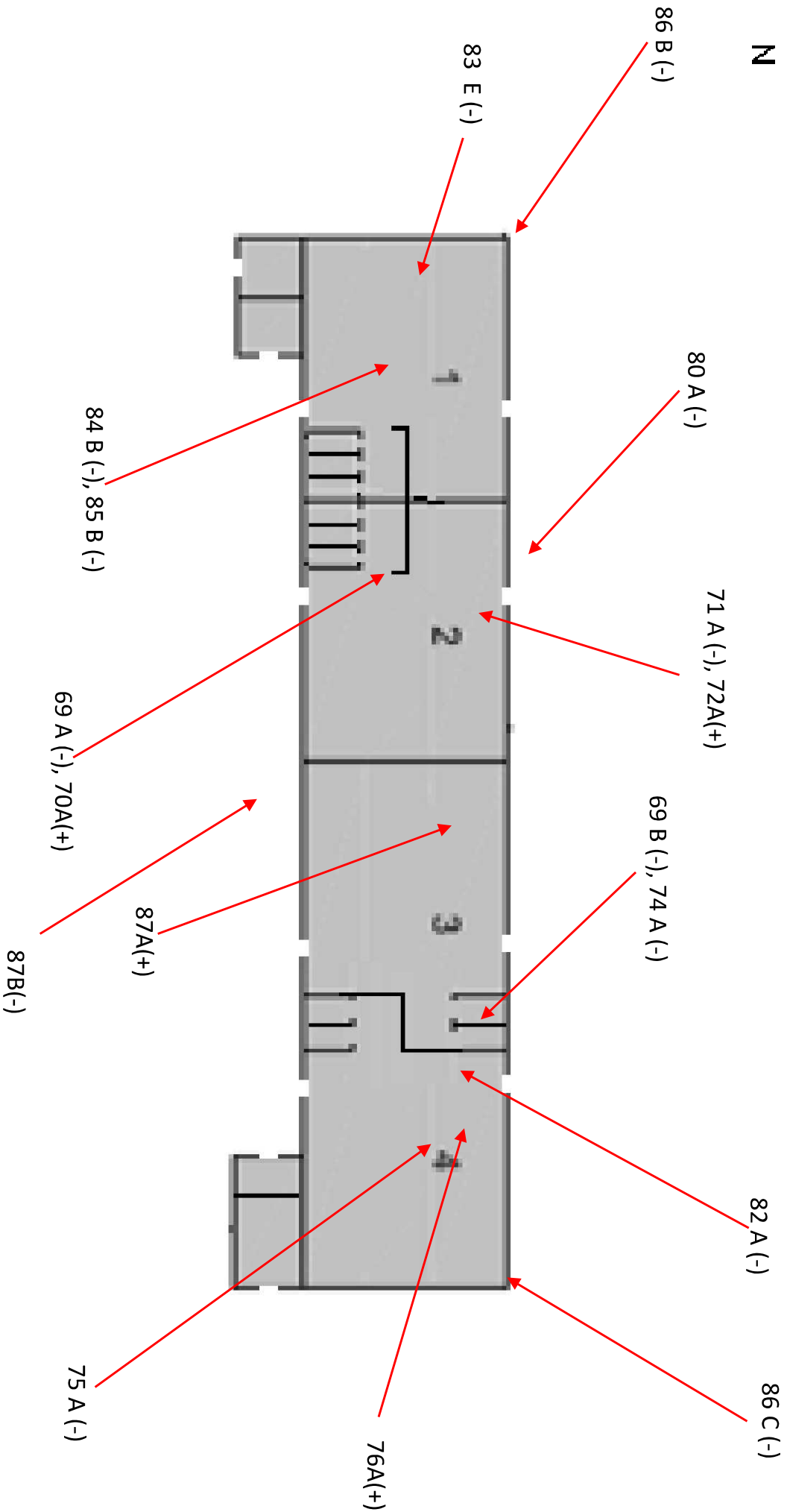


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# Kindergarten Rooms 1-4



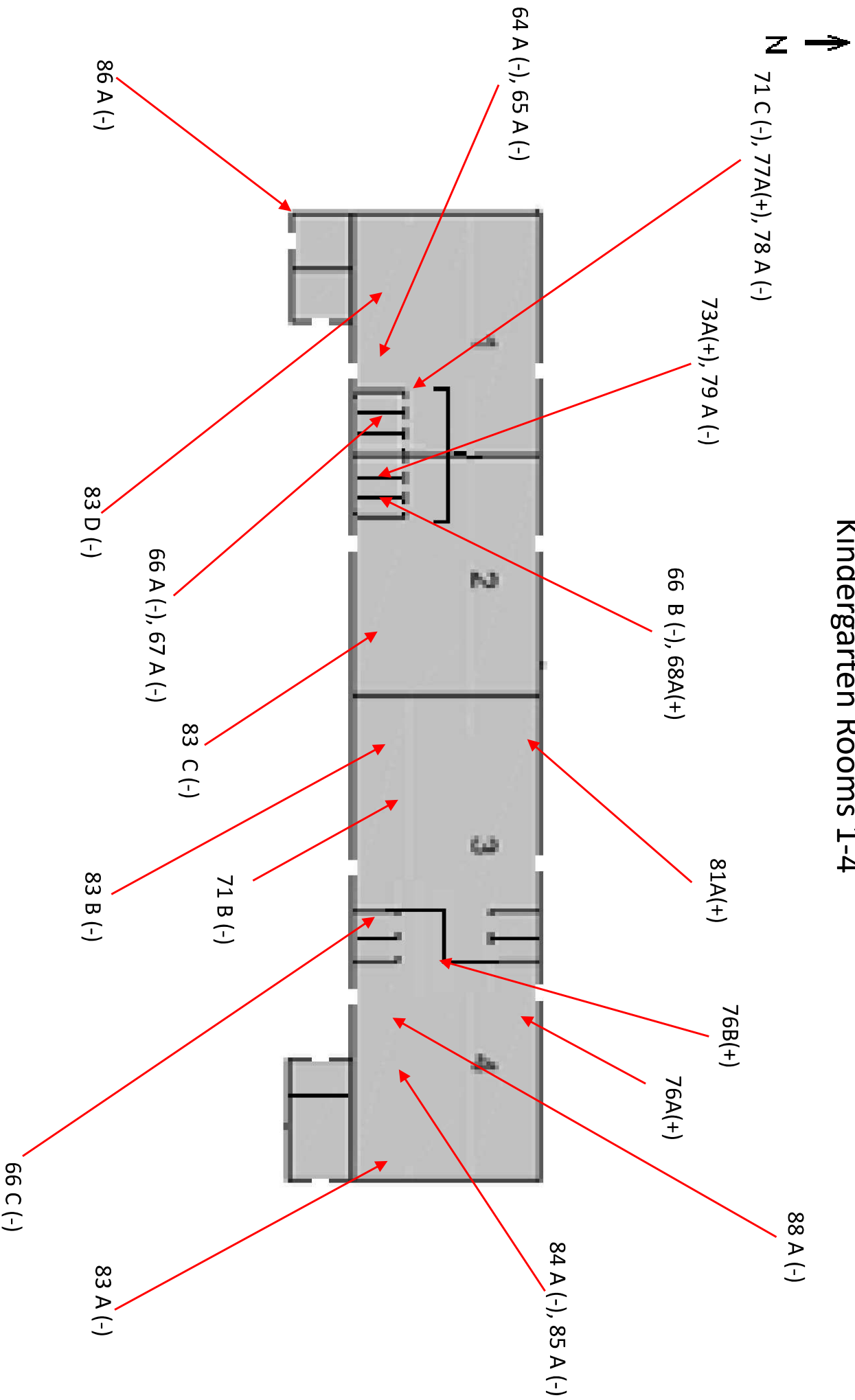
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# Kindergarten Rooms 1-4

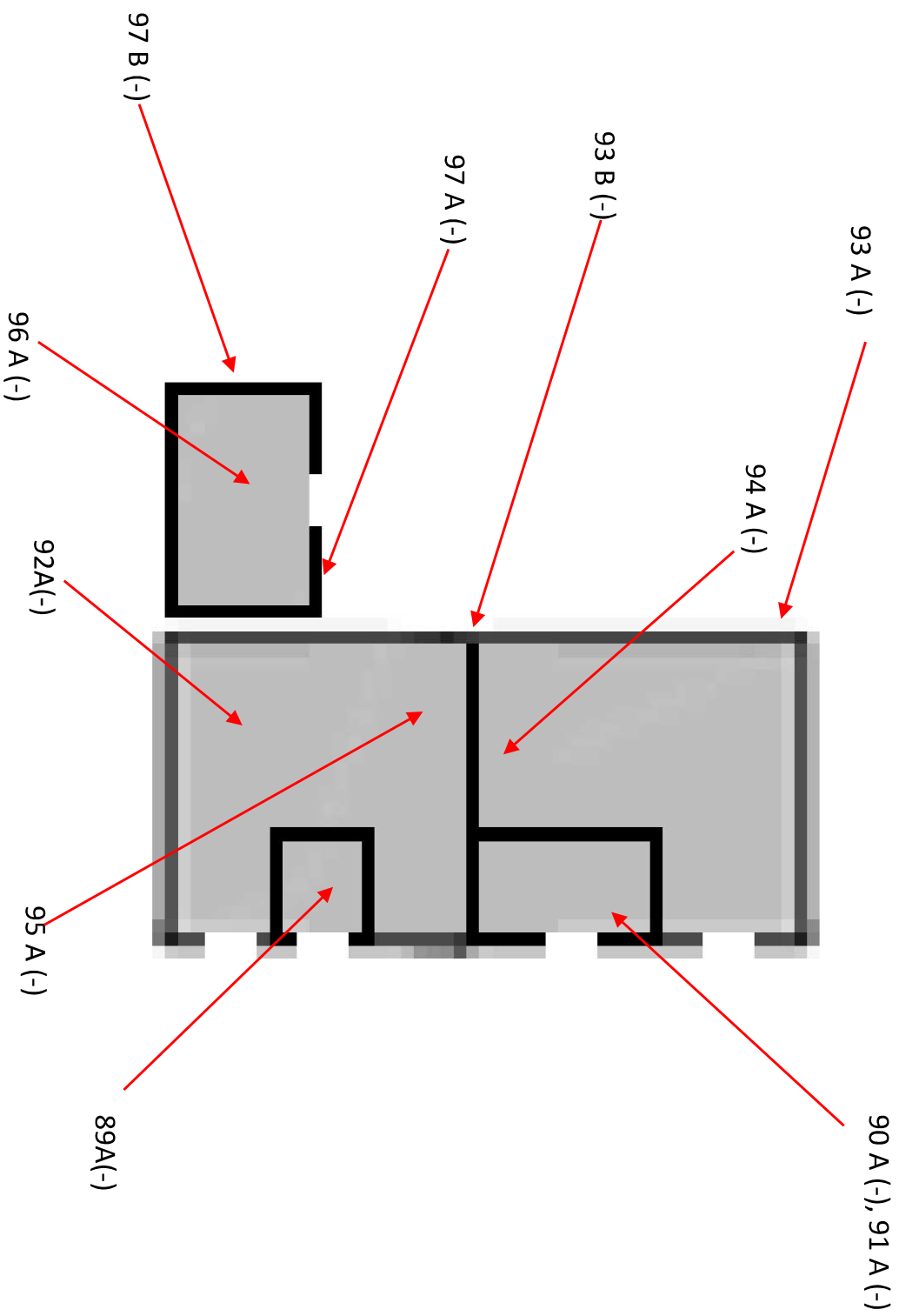


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# South Restroom Building

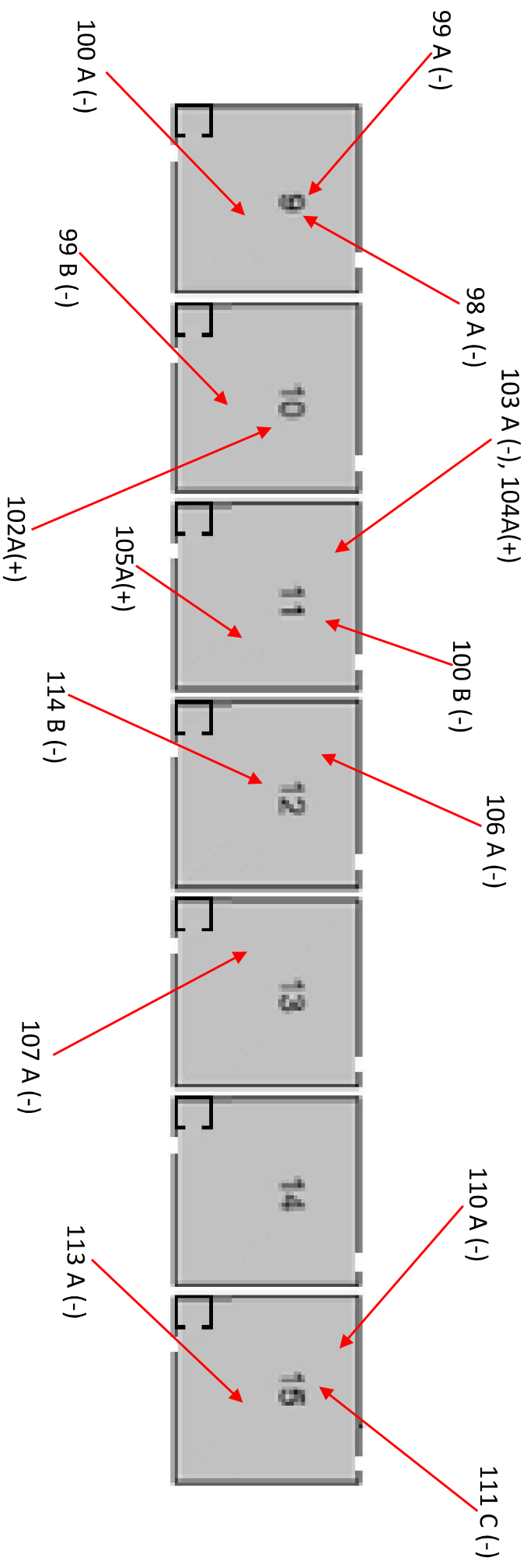


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# Rooms 9-15



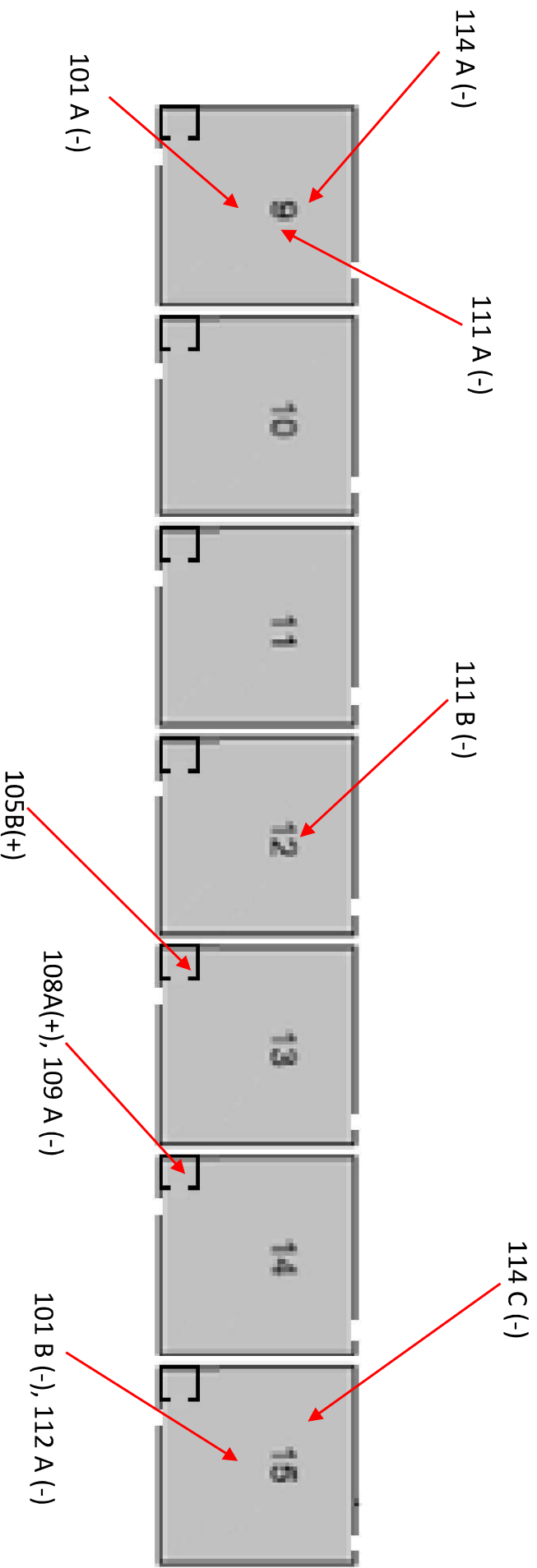
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# Rooms 9-15

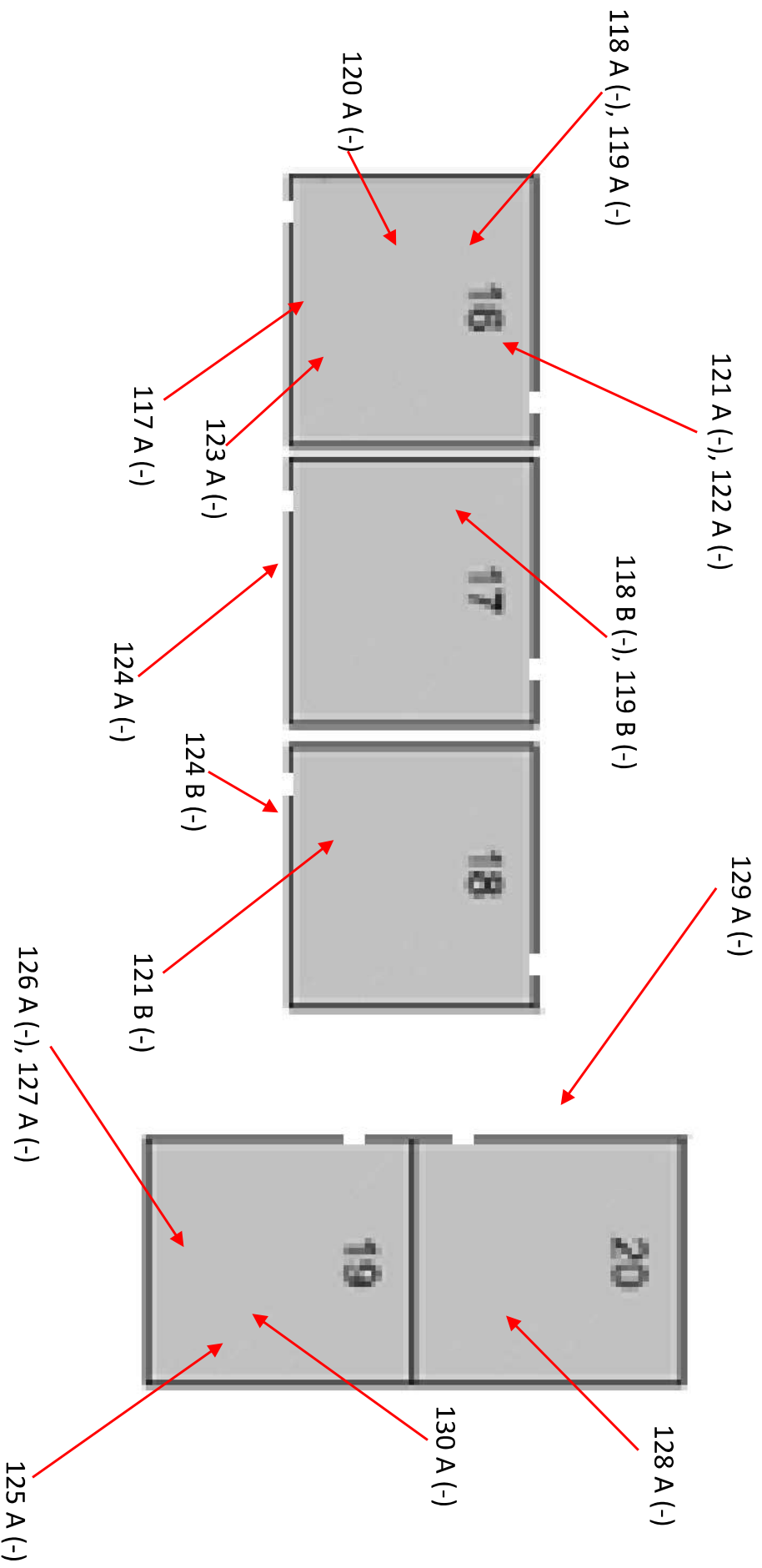


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On April 5-6, 2023  
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# Portables 16-20

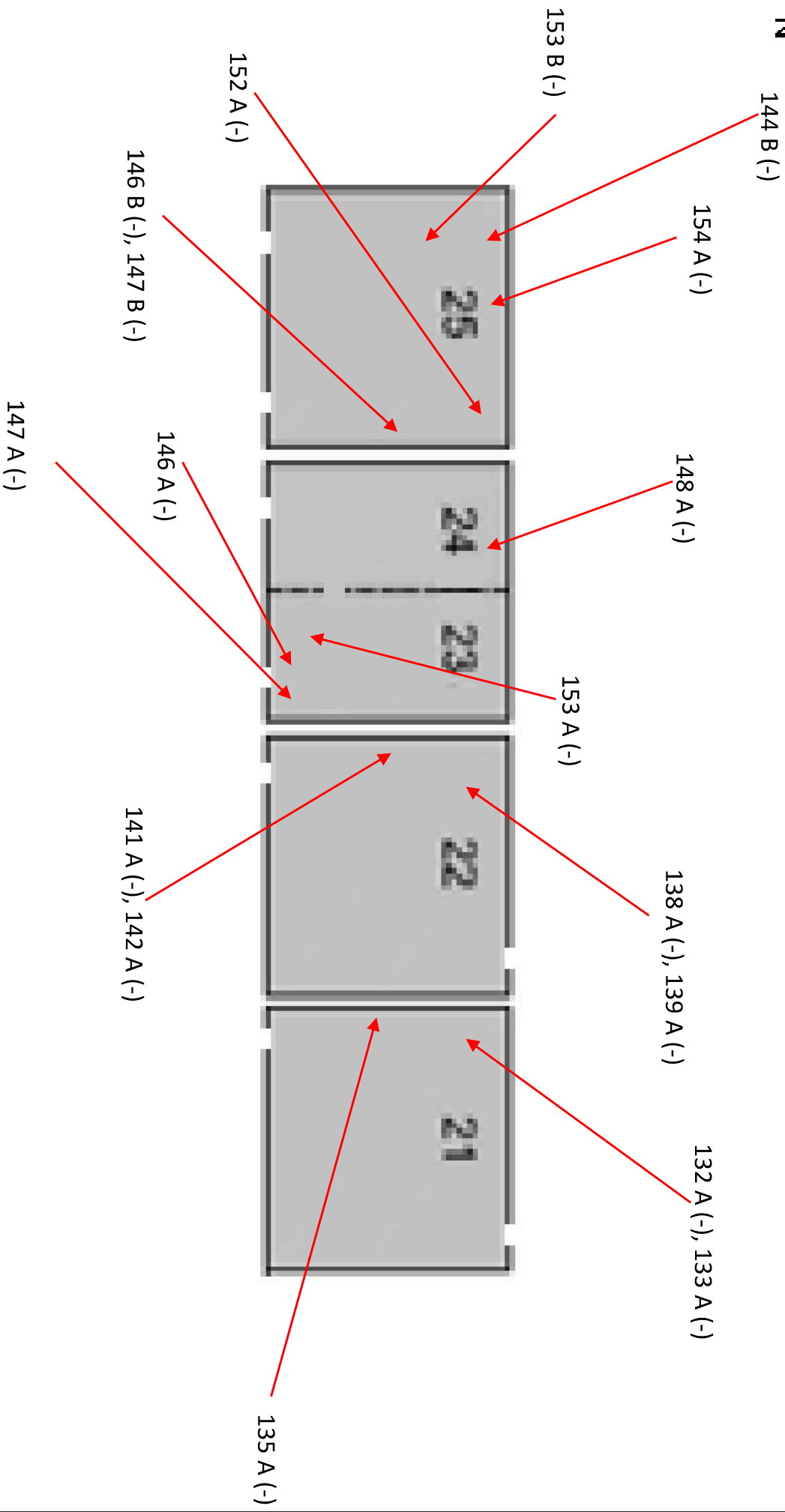


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# Portables 21-25

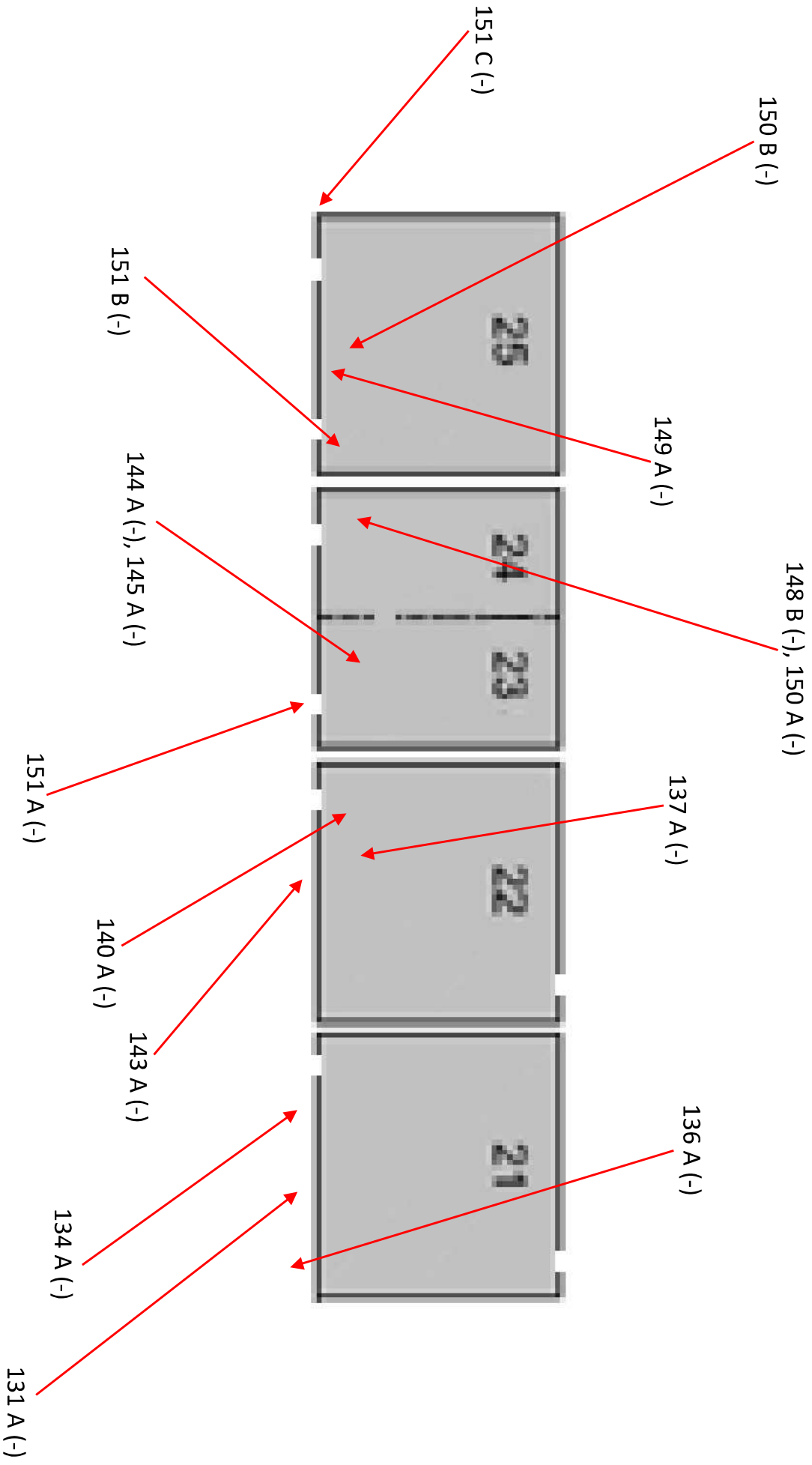


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# Portables 21-25



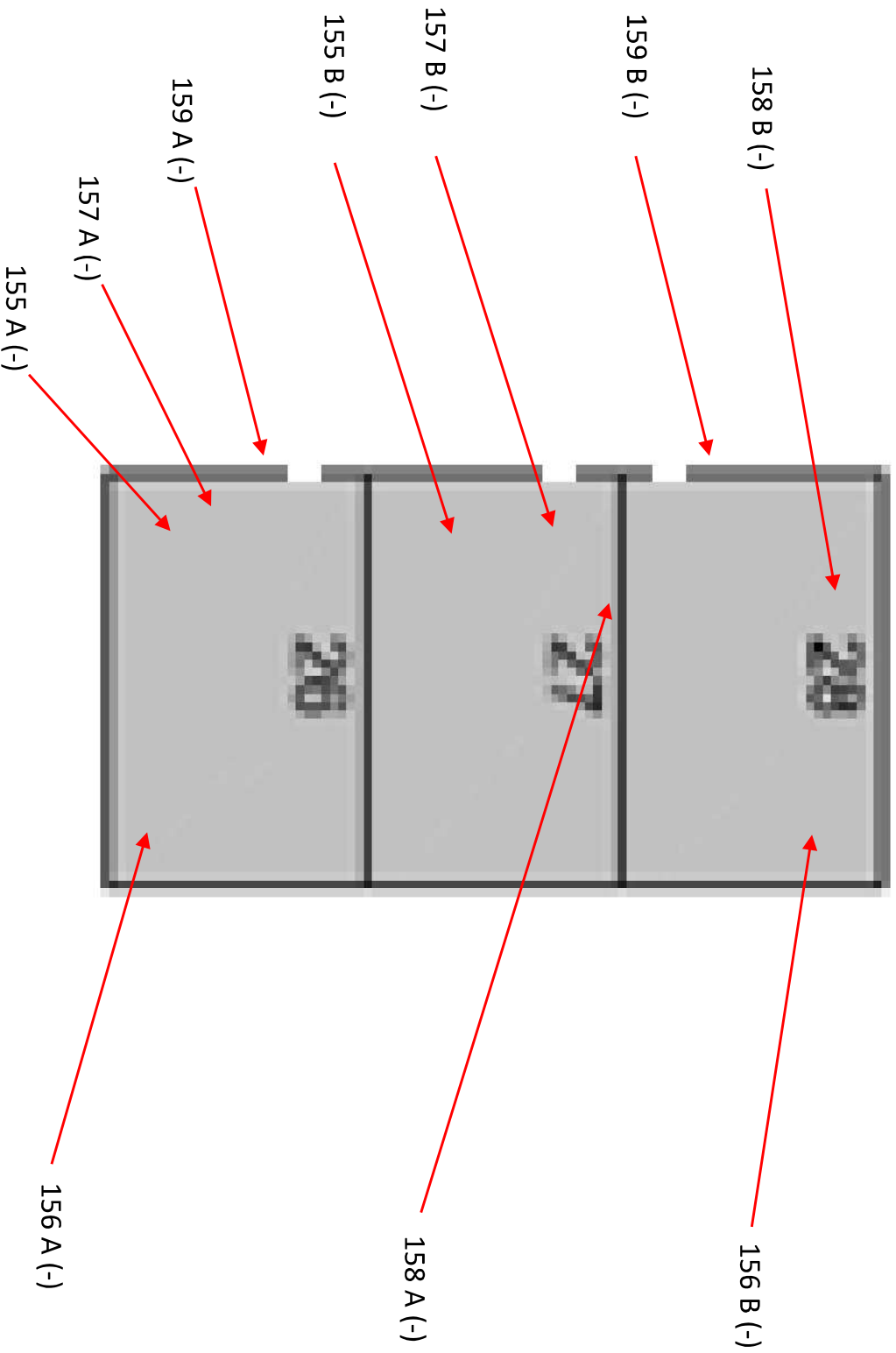
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# Portables 26-28

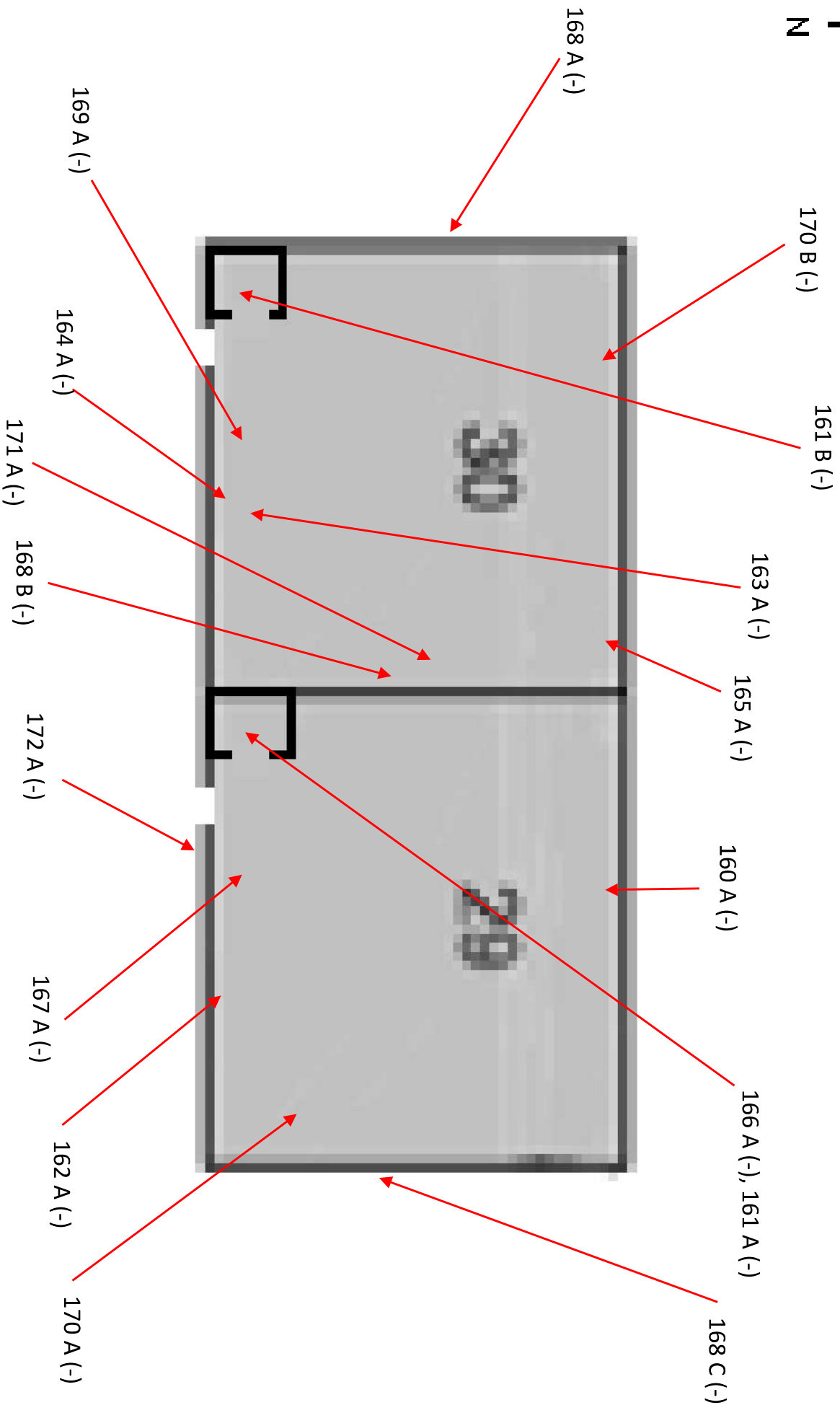


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# Rooms 29-30



Sacramento City Unified School District  
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Collected by Blake Howes  
On April 5-6, 2023  
Project Number 23-6621



# Asbestos Survey Form

(See Instructions)

777 12<sup>th</sup> Street, 3<sup>rd</sup> Floor  
 Sacramento, CA 95814  
 Office (916) 874-4800  
 Fax (916) 874-4899  
 Email:  
[asbestos@airquality.org](mailto:asbestos@airquality.org)

<b>1. Purpose of Survey</b>		<input type="checkbox"/> Renovation		<input checked="" type="checkbox"/> Demolition		
<b>2. Facility Information</b>						
Project Area(s) Description      Oak Ridge Elementary - Full Campus						
Address      4501 Martin Luther King Jr. Blvd			City      Sacramento		# of Structures      10	
<b>3. Owner Information</b>						
Name      Sacramento City Unified School District						
Address      5735 47 <sup>th</sup> Street			City/State      Sacramento California		Zip      95824	
Contact	Phone	Fax	Email			
Brendin Swanson	916-559-0616		brendin-swanson@scusd.edu			
<b>4. Consultant Information</b>		Survey Date(s):      April 5-6, 2023				
Company Name      Entek Consulting Group, Inc.						
Name      Blake Howes				DOSH #      13-5015		
Address      4200 Rocklin Road, Suite 7			City/State      Rocklin, California		Zip      95677	
Phone (916) 632-6800	Fax (916) 632-6812	Email <a href="mailto:bhowes@entekgroup.com">bhowes@entekgroup.com</a>	Signature 			
<b>5. Client Information (If different than owner)</b>						
<input type="checkbox"/> Architect		<input type="checkbox"/> General Contractor		<input type="checkbox"/> Insurance Company		
<input type="checkbox"/> Property Manager		<input type="checkbox"/> Other _____				
Name						
Address			City/State		Zip	
Contact	Phone	Fax	Email			
<b>6. Have all of the suspect materials that will be disturbed been sampled?</b>					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If no, explain why:						
<b>7. Summary of Total Asbestos Containing Material (ACM) Findings</b>						
<b>Regulated Asbestos Containing Material (RACM)</b> (Includes materials subject to known mechanical removal and fire damaged materials)			<b>Category II</b>		<b>Category I</b>	
Square Ft.	Linear Ft.	Cubic Ft.	Square Ft.	Linear Ft.	Square Ft.	Linear Ft.
90	0	0	200	0	48,000	0
<b>To receive future SMAQMD Rule updates and changes affecting your industry (check one box):</b>						
<input type="checkbox"/> Please send e-mail notices to			<input type="checkbox"/> I will sign up myself at <a href="http://www.airquality.org/listserve/">www.airquality.org/listserve/</a> to receive emailed notices.			
<input checked="" type="checkbox"/> I am already subscribed.		<input type="checkbox"/> I want the District to mail notices to the address on this application:			<input type="checkbox"/> Owner	<input type="checkbox"/> Consultant



# Asbestos Renovation/Demolition Notification Form

777 12<sup>th</sup> Street, 3<sup>rd</sup> Floor  
Sacramento, CA 95814  
Office (916) 874-4800  
Fax (916) 874-4899  
Asbestos@airquality.org

<b>1</b>	Building Department Permit Application # (if known) : _____	<input type="checkbox"/> Renovation (Do not complete Section 5) <input checked="" type="checkbox"/> Demolition (Complete all sections) <input type="checkbox"/> Ordered Demo - Attach ordered demo letter <input type="checkbox"/> Emergency Demo - SMAQMD Emergency #. _____
----------	---	--

<b>2</b>	Contractor	Owner	Sacramento City Unified School District
	Address	Address	5735 47 <sup>th</sup> Street
	City, State / Zip	City, State / Zip	Sacramento California 95824
	Email	Email	Brendin-swanson@scusd.edu
	Telephone	Telephone	916-559-0616

<b>3</b>	Structure Name	Oak Ridge Elementary	Renovation Area	Full Campus	# of Floors	1
	Project Address	4501 Martin Luther King Jr. Blvd	City / Zip	Sacramento 95820	Year Built	1960's

<b>4</b>	Preference for return of form	<input type="checkbox"/> E-mail	<input type="checkbox"/> Other :
----------	-------------------------------	---------------------------------	----------------------------------

*DEMOLITIONS ONLY - Start date must be at least 10 working days from the day of your postmark or hand delivery of this form.*

<b>5</b>		Revision # 1 2 3 4 5 6 7 8 9 (circle)		
	Start Date	____/____/____	New Start Date	____/____/____
	Completion Date	____/____/____	New Completion Date	____/____/____
	Method of Demo: (Check Applicable): <input type="checkbox"/> Manual/Hand Tools <input type="checkbox"/> Mechanical/Heavy Equipment <input type="checkbox"/> Other			
	Procedure to be followed if RACM is found or Category II material becomes friable:			

***I have read and understand the directions. The information on this form is true and accurate. I certify that the asbestos survey conducted represents the facility as built.***

<b>6</b>	Application Name (Print)	<input type="checkbox"/> Owner <input type="checkbox"/> Rep / Agent <input type="checkbox"/> Contractor	Permit may be issued on:
	Phone Number		
	Application Signature	Date	

***Have DOSH Consultant complete and sign below OR attach completed Asbestos Survey Form and Consultant's report.***

<b>CONSULTANT USE ONLY</b>	Company Name	Entek Consulting Group, Inc.	Telephone	(916) 632-6800
	Surveyor Name	Blake Howes	DOSH #	13-5015
	Analytical Method	PLM by Dispersion Staining	Pt Count Materials <10%	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Declined by Client
	Amount of RACM	Square Feet 90	Linear Feet	0
			Cubic Feet	0
	Amount of Category I	48,000 Sq.	Amount of Category II	200
	Project Address	4501 Martin Luther King Jr. Blvd	City	Sacramento
			Zip	95820
Suspect Materials Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Consultant's Signature	<i>Blake Howes</i>	

**SMAQMD USE ONLY**

Date Received / Date Postmark \_\_\_\_\_ Date Approved & Returned \_\_\_\_\_  
 Project # \_\_\_\_\_ Check # \_\_\_\_\_ Receipt # \_\_\_\_\_ Amount Paid \_\_\_\_\_ Staff \_\_\_\_\_





## **APPENDIX B**

### **LEAD RELATED DOCUMENTATION**

- Bulk Lead Analysis Report From MicroTest
- Bulk Lead Material Analysis Request Form for Entek
- Lead Bulk Sample Location Drawing
- CDPH Form 8552



**MicroTest Laboratories, Inc. | AIHA ELPAT #160934**  
 3110 Gold Canal Dr, Ste. A, Rancho Cordova, CA 95670  
 PH 916.567.9808 | FX 916.404.0302  
 www.microtestlabsinc.com | service@microtestlabsinc.com

\*\*\*for office use only\*\*\*

**Project ID**  
**L32271-88**

**CLIENT INFORMATION**

**Company** Entek Consulting Group, Inc  
**Name** Ryan Metzen  
**Address** 4200 Rocklin Road, Suite 7  
 Rocklin, CA 95677  
**Phone** 916.632.6800  
**Email** mainoffice@entekgroup.com  
 rmetzen@entekgroup.com

**SAMPLE**  
**Date** Thursday, April 6, 2023  
**Time**

**MicroTest Laboratories**

Analytical Data

**JOB SITE INFORMATION**

**Sampler** Blake Howes  
**Project** Sacramento City Unified School District  
**Site** Oak Ridge Elementary School  
**Address** 4501 Martin Luther King Jr. Blvd  
 Sacramento, CA 95820  
**Job #** 23-6621

**EPA METHOD 7420/7000B**

Client	Laboratory	Client	Reporting	Results	Units	Results	Units
Sample ID	Sample ID	Sample Location / Description	Matrix	Results	Units	Limits	Comments
ECG-23-6621-01Pb	L32271	Beige Colored Paint - Metal Window Frame, Exterior of Building with Rooms 31-34	Paint	8.39%	Wt %	0.01%	83863 PPM
ECG-23-6621-02Pb	L32272	Blue Colored Paint - Wood Fascia, Exterior of Building with Rooms 31-34	Paint	0.08%	Wt %	0.01%	775 PPM
ECG-23-6621-03Pb	L32273	Blue Colored Paint - Metal Gutter, Exterior of MPR Building	Paint	<0.01%	Wt %	0.01%	<100 PPM
ECG-23-6621-04Pb	L32274	Blue Colored Paint - Round Metal Column, Exterior of Building with Rooms 5-8 at Covered Walkways	Paint	5.49%	Wt %	0.01%	54852 PPM
ECG-23-6621-05Pb	L32275	Blue Colored Paint - Wood Covered Walkway Ceiling Deck & Beams, Exterior of Building with Rooms 5-8 at Covered Walkways	Paint	0.73%	Wt %	0.01%	7266 PPM
ECG-23-6621-06Pb	L32276	Beige Colored Paint - Stucco, Exterior of Administration Building	Paint	<0.01%	Wt %	0.01%	<100 PPM
ECG-23-6621-07Pb	L32277	Beige Colored Paint - Cementitious Wall Panel, Exterior of Buildings with Rooms 9-15	Paint	<0.01%	Wt %	0.01%	<100 PPM
ECG-23-6621-08Pb	L32278	Blue Colored Paint - Metal Hand Rail, Exterior of Buildings with Rooms 9-15	Paint	<0.01%	Wt %	0.01%	<100 PPM
ECG-23-6621-09Pb	L32279	White Colored Paint - Wood Wall Panel, Interior of Room 10	Paint	0.03%	Wt %	0.01%	315 PPM
ECG-23-6621-10Pb	L32280	Beige Colored Paint - Metal Frame, Exterior of Portable 25	Paint	0.02%	Wt %	0.01%	165 PPM

**Date Received:** Monday, April 10, 2023  
**Date Analyzed:** Wednesday, April 12, 2023  
**Date Reported:** Monday, April 17, 2023

Samples Received: 18  
 Samples Analyzed: 18

Analyst: Erich Bowman

Authorized Signatory:   
 Kelly Favero - Lab Manager

This report applies to the standards and procedures indicated and to the specific samples analyzed. Samples have NOT been corrected for blank values. EPA 3050B Hotblock Preparaton Method



**MicroTest Laboratories, Inc. | AIHA ELPAT #160934**  
 3110 Gold Canal Dr, Ste. A, Rancho Cordova, CA 95670  
 PH 916.567.9808 | FX 916.404.0302  
 www.microtestlabsinc.com | service@microtestlabsinc.com

\*\*\*for office use only\*\*\*

**Project ID**  
**L32271-88**

**CLIENT INFORMATION**

**Company** Entek Consulting Group, Inc  
**Name** Ryan Metzen  
**Address** 4200 Rocklin Road, Suite 7  
 Rocklin, CA 95677  
**Phone** 916.632.6800  
**Email** mainoffice@entekgroup.com  
 rmetzen@entekgroup.com

**SAMPLE**  
**Date** Thursday, April 6, 2023  
**Time**

**MicroTest Laboratories**

Analytical Data

**JOB SITE INFORMATION**

**Sampler** Blake Howes  
**Project** Sacramento City Unified School District  
**Site** Oak Ridge Elementary School  
**Address** 4501 Martin Luther King Jr. Blvd  
 Sacramento, CA 95820  
**Job #** 23-6621

**EPA METHOD 7420/7000B**

Client	Laboratory	Client	Reporting	Results	Units	Results	Units
Sample ID	Sample ID	Sample Location / Description	Limits	Matrix	Results	Comments	Units
ECG-23-6621-11Pb	L32281	Beige Colored Paint - Wood Wall Panel, Exterior of Portable 17	0.01%	Paint	<0.01%	<100	PPM
ECG-23-6621-12Pb	L32282	Blue Colored Paint - Door & Frame, Exterior of Room 32	0.01%	Paint	3.31%	33092	PPM
ECG-23-6621-13Pb	L32283	Light Blue Colored Paint - Wood Casework, Interior of Room 34	0.01%	Paint	0.56%	5552	PPM
ECG-23-6621-14Pb	L32284	Beige Colored Paint - Plaster, Interior of MPR/Administration Building, Hallway	0.01%	Paint	0.05%	503	PPM
ECG-23-6621-15Pb	L32285	Tan Colored Paint - Wood Wainscot and Trim - Interior of MPR Building Main Room	0.01%	Paint	<0.01%	<100	PPM
ECG-23-6621-16Pb	L32286	Tan Colored Paint - Plaster, Interior of MPR/Admin Building, Kitchen	0.01%	Paint	0.56%	5648	PPM
ECG-23-6621-17Pb	L32287	Blue Colored Paint - Wood Baseboard, Interior of MPR/Admin Building, Hallway	0.01%	Paint	<0.01%	<100	PPM
ECG-23-6621-18Pb	L32288	Beige Colored Paint - Wood Window Frame, Exterior of MPR/Admin Building at West Side	0.01%	Paint	4.91%	49113	PPM

**Date Received:** Monday, April 10, 2023  
**Date Analyzed:** Wednesday, April 12, 2023  
**Date Reported:** Monday, April 17, 2023

Samples Received: 18  
 Samples Analyzed: 18

Analyst: Erich Bowman

Authorized Signatory:   
 Kelly Favero - Lab Manager

This report applies to the standards and procedures indicated and to the specific samples analyzed. Samples have NOT been corrected for blank values. EPA 3050B Hotblock Preparaton Method



## BULK LEAD MATERIAL *Analysis Request*

### ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7  
 ROCKLIN, CA 95677  
 (916) 632-6800 PHONE  
 (916) 632-6812 FAX  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** April 6, 2023

**Lab:** MicroTest Laboratories

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** 5-Day

**Site Address:** Oak Ridge Elementary School  
 4501 Martin Luther King Jr. Blvd  
 Sacramento, CA 95820

**ANALYSIS REQUESTED:** Lead by Flame Atomic Absorption Spectroscopy

**Special Instruction:** *Please report result in PPM and % by weight. Please email results as soon as possible.*

SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-01Pb	Beige Colored Paint - Metal Window Frame, Exterior of Building with Rooms 31-34
ECG-23-6621-02Pb	Blue Colored Paint - Wood Fascia, Exterior of Building with Rooms 31-34
ECG-23-6621-03Pb	Blue Colored Paint - Metal Gutter, Exterior of MPR Building
ECG-23-6621-04Pb	Blue Colored Paint - Round Metal Column, Exterior of Building with Rooms 5-8 at Covered Walkways
ECG-23-6621-05Pb	Blue Colored Paint - Wood Covered Walkway Ceiling Deck & Beams, Exterior of Building with Rooms 5-8 at Covered Walkways
ECG-23-6621-06Pb	Beige Colored Paint - Stucco, Exterior of Administration Building
ECG-23-6621-07Pb	Beige Colored Paint - Cementitious Wall Panel, Exterior of Buildings with Rooms 9-15
ECG-23-6621-08Pb	Blue Colored Paint - Metal Hand Rail, Exterior of Buildings with Rooms 9-15
ECG-23-6621-09Pb	White Colored Paint - Wood Wall Panel, Interior of Room 10
ECG-23-6621-10Pb	Beige Colored Paint - Metal Frame, Exterior of Portable 25
ECG-23-6621-11Pb	Beige Colored Paint - Wood Wall Panel, Exterior of Portable 17
ECG-23-6621-12Pb	Blue Colored Paint - Door & Frame, Exterior of Room 32
ECG-23-6621-13Pb	Light Blue Colored Paint - Wood Casework, Interior of Room 34
ECG-23-6621-14Pb	Beige Colored Paint - Plaster, Interior of MPR/Administration Building, Hallway

**Delivered by:**  **Date:** 4/10/23 **Time:** 11:45 AM/PM

**Received by:**  **Date:** 4/10/23 **Time:** 11:45 AM/PM




**BULK LEAD MATERIAL** *Analysis Request*
**ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7  
 ROCKLIN, CA 95677  
 (916) 632-6800 PHONE  
 (916) 632-6812 FAX  
[mainoffice@entekgroup.com](mailto:mainoffice@entekgroup.com)

**Date of Sampling:** April 6, 2023

**Lab:** MicroTest Laboratories

**Job Number:** 23-6621

**Collected by:** Blake Howes

**Client Name:** Sacramento City Unified School District

**Turnaround Time:** 5-Day

**Site Address:** Oak Ridge Elementary School  
 4501 Martin Luther King Jr. Blvd  
 Sacramento, CA 95820

**ANALYSIS REQUESTED:** Lead by Flame Atomic Absorption Spectroscopy

**Special Instruction:** *Please report result in PPM and % by weight. Please email results as soon as possible.*

SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-23-6621-15Pb	Tan Colored Paint - Wood Wainscot and Trim - Interior of MPR Building Main Room
ECG-23-6621-16Pb	Tan Colored Paint - Plaster, Interior of MPR/Admin Building, Kitchen
ECG-23-6621-17Pb	Blue Colored Paint - Wood Baseboard, Interior of MPR/Admin Building, Hallway
ECG-23-6621-18Pb	Beige Colored Paint - Wood Window Frame, Exterior of MPR/Admin Building at West Side

C:\Users\lhowes\Entek Consulting Group, Inc\Entekgroup - Documents\Clients\Sacramento City USD\23-6621 Oak Ridge ES - AsbPbBulk Pb\Bulk Request Pb 04-06-23.wpd

**Delivered by:**
**Date:**

4/10/23

**Time:**

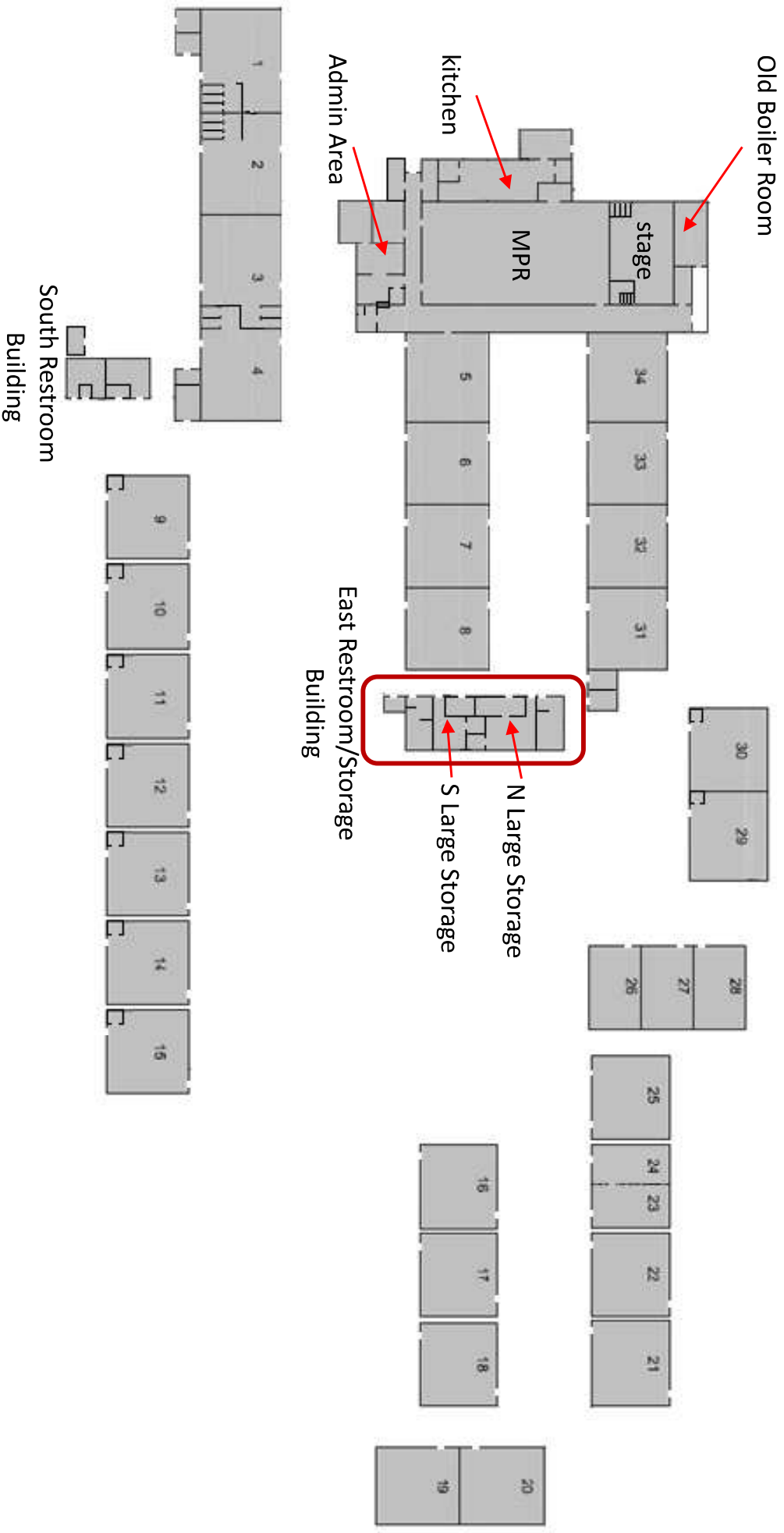
11:45 AM/PM

**Received by:**
**Date:**

4/10/23

**Time:**

11:45 AM/PM

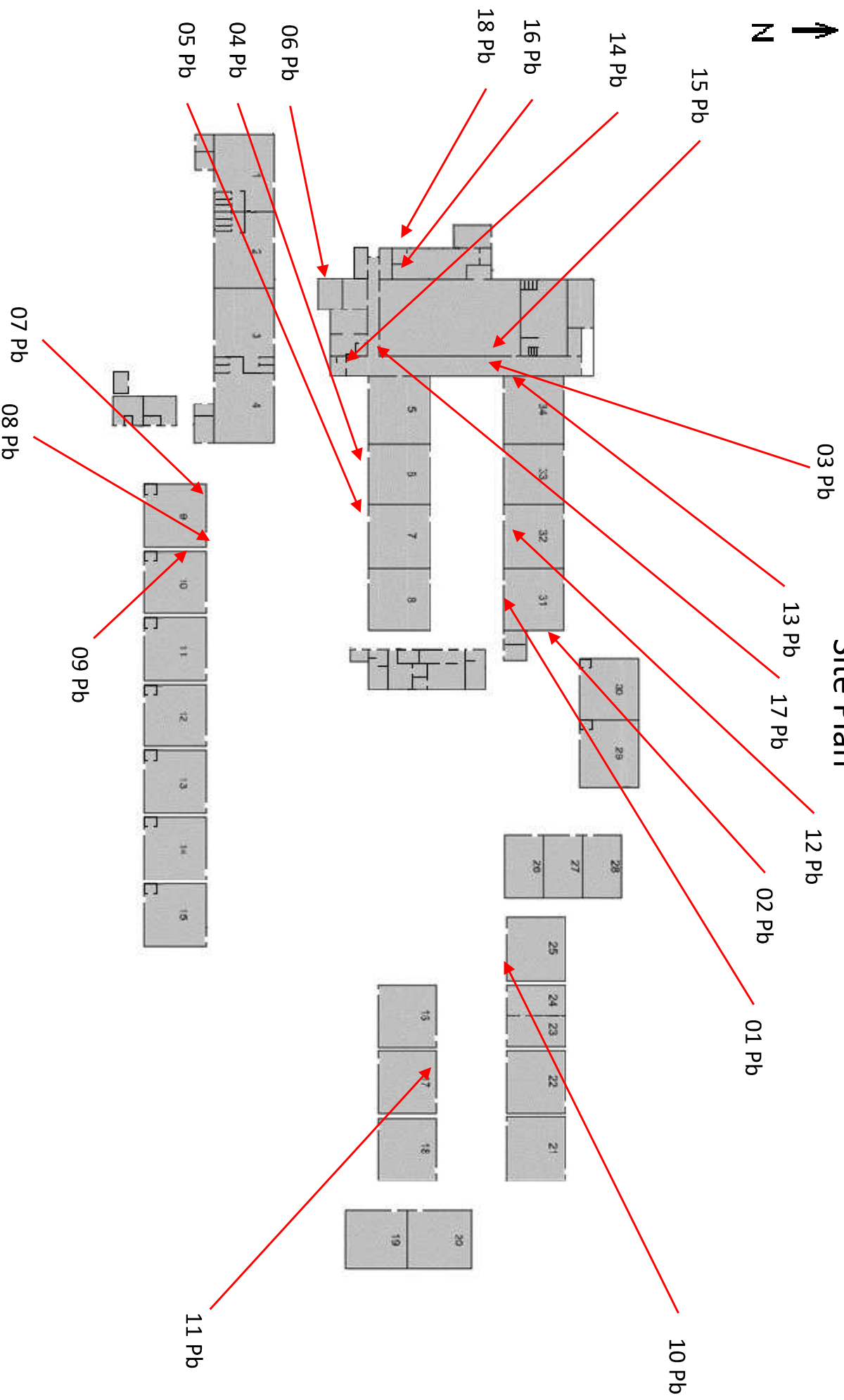


Sacramento City Unified School District  
Oak Ridge Elementary School  
4501 Martin Luther King Jr Blvd  
Sacramento, CA 95820

Entek Consulting Group, Inc.  
4200 Rocklin Road, Suite 7  
Rocklin, CA 95677  
Map Not to Scale

Asbestos Bulk Sample Locations  
Collected by Blake Howes  
On April 5-6, 2023  
Project Number 23-6621

# Site Plan



Sacramento City Unified School District  
Oak Ridge Elementary School  
4501 Martin Luther King Jr. Blvd  
Sacramento, CA 95820

Entek Consulting Group, Inc.  
4200 Rocklin Road, Suite 7  
Rocklin, CA 95677  
Map Not to Scale

Lead Bulk Sample Locations  
Collected by Blake Howes  
On April 5-6, 2023  
Project Number 23-6621

## LEAD HAZARD EVALUATION REPORT

**Section 1 — Date of Lead Hazard Evaluation** April 6, 2023

**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
4501 Martin Luther King Jr. Blvd		Sacramento	Sacramento	95820
Construction date (year) of structure	Type of structure		Children living in structure?	
1960's	<input type="checkbox"/> Multi-unit building <input checked="" type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other <span style="border: 1px solid black; padding: 2px;"> </span>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	


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

Name		Telephone number	
Sacramento City Unified School District - Mr. Brendin Swanson		(916) 519-0616	
Address [number, street, apartment (if applicable)]		City	State
5735 47th Avenue		Sacramento	California
		Zip Code	
			95824

**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	
Entek Consulting Group, Inc. - Blake Howes		(916) 632-6800	
Address [number, street, apartment (if applicable)]		City	State
4200 Rocklin Road, Suite 7		Rocklin	CA
		Zip Code	
			95677
CDPH certification number	Signature	Date	
3315		5-3-23	

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

Jose Hernandez - 10754

**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 C**

### **BACK UP DOCUMENTATION**

- Inspector Accreditations and Certifications
- Laboratory Accreditations for Asbestos Analysis

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

**Blake W Howes**

Name



Certification No. **13-5015**

Expires on **04/17/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

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



**Blake W. Howes**  
Name

Certification No. **13-5015**

Expires on **04/17/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

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

**Jose A Hernandez**

Name



Certification No. 22-6995

Expires on 01/21/24

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.





# LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:                      CERTIFICATE TYPE:



Lead Inspector/Assessor

NUMBER:

LRC-00003315

EXPIRATION DATE:

9/27/2023

Blake Howes

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb) or calling (800) 597-LEAD



# LEAD-RELATED CONSTRUCTION CERTIFICATE

**INDIVIDUAL:**



**CERTIFICATE TYPE:**

Lead Inspector/Assessor

Lead Sampling Technician

**NUMBER:**

LRC-00010754

LRC-00003446

**EXPIRATION DATE:**

1/9/2024

10/27/2023

**Jose Hernandez**

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb) or calling (800) 597-LEAD

United States Department of Commerce  
National Institute of Standards and Technology

NVLAP<sup>®</sup>



---

# Certificate of Accreditation to ISO/IEC 17025:2017

---

NVLAP LAB CODE: 101442-0

**ASBESTECH**

Rancho Cordova, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

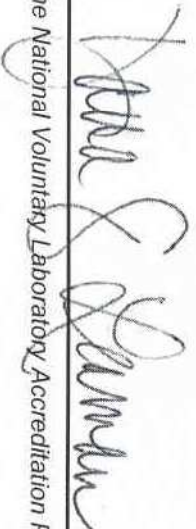
**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2022-07-01 through 2023-06-30

Effective Dates



  
For the National Voluntary Laboratory Accreditation Program

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**ASBESTECH**  
11151 Sun Center Drive, Suite B  
Rancho Cordova, CA 95670  
Mr. Tommy Conlon  
Phone: 916-481-8902 Fax: 916-481-3975  
Email: [asbestech@sbcglobal.net](mailto:asbestech@sbcglobal.net)  
<http://www.asbestechlab.com>

**ASBESTOS FIBER ANALYSIS**

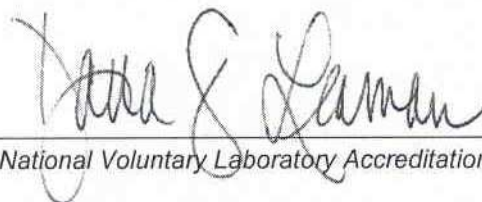
**NVLAP LAB CODE 101442-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



For the National Voluntary Laboratory Accreditation Program





STATE WATER RESOURCES CONTROL BOARD  
REGIONAL WATER QUALITY CONTROL BOARDS



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

**CERTIFICATE OF  
ENVIRONMENTAL LABORATORY ACCREDITATION**

Is hereby granted to

**MicroTest Laboratories, Inc.**

3110 Gold Canal Drive  
Rancho Cordova, CA 95670

Scope of the certificate is limited to the  
"Fields of Accreditation"  
which accompany this Certificate.

Continued accredited status depends on compliance with applicable laws and regulations,  
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2974**

Effective Date: **7/1/2022**

Expiration Date: **6/30/2024**

A handwritten signature in blue ink, appearing to read "Christine Sotelo".

Sacramento, California  
subject to forfeiture or revocation

Christine Sotelo, Program Manager  
Environmental Laboratory Accreditation Program



**CALIFORNIA STATE  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Fields of Accreditation**



**MicroTest Laboratories, Inc.**

3110 Gold Canal Drive  
Rancho Cordova, CA 95670  
Phone: 9165679808

**Certificate Number: 2974  
Expiration Date: 6/30/2024**

**Field of Accreditation:114 - Inorganic Constituents in Hazardous Waste**

114.345 002	Antimony	EPA 6020 B
114.345 003	Arsenic	EPA 6020 B
114.345 004	Barium	EPA 6020 B
114.345 005	Beryllium	EPA 6020 B
114.345 006	Cadmium	EPA 6020 B
114.345 008	Chromium	EPA 6020 B
114.345 009	Cobalt	EPA 6020 B
114.345 010	Copper	EPA 6020 B
114.345 012	Lead	EPA 6020 B
114.345 016	Nickel	EPA 6020 B
114.345 018	Selenium	EPA 6020 B
114.345 021	Thallium	EPA 6020 B
114.345 023	Zinc	EPA 6020 B
114.345 024	Molybdenum	EPA 6020 B
114.515 001	Lead	EPA 7420
114.545 001	Mercury	EPA 7471 B

**Field of Accreditation:115 - Leaching/Extraction Tests and Physical Characteristics of Hazardous Waste**

115.055 001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.085 001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311

**Field of Accreditation:121 - Bulk Asbestos Analysis of Hazardous Waste**

121.010 001	Bulk Asbestos	EPA 600/M4-82-020
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**ASBESTOS REQUIREMENTS  
TABLE OF CONTENTS**

SECTION 1. ASBESTOS BIDDING REQUIREMENTS. . . . . 1  
Part 1.1 - Site Investigations. . . . . 1  
Part 1.2 - Insurance Requirements. . . . . 1  
Part 1.3 - Licenses and Qualifications Requirements. . . . . 2

SECTION 2. ASBESTOS GENERAL REQUIREMENTS - DEFINITIONS. . . . . 2

SECTION 3. NOTIFICATIONS, SUBMISSIONS, POSTINGS. . . . . 8  
Part 3.1 - Notification. . . . . 8  
Part 3.2 - Pre-Construction Submittals. . . . . 8  
Part 3.3 - Submittals During the Work Process. . . . . 10  
Part 3.4 - On-Site/Clean-Room Area Postings and Documentation. . . . . 11  
Part 3.5 - Job Site Documents. . . . . 11  
Part 3.6 - Project Close-out Documents. . . . . 12

SECTION 4. SITE SECURITY. . . . . 12

SECTION 5. EMERGENCY PLANNING. . . . . 12

SECTION 6. PRE-CONSTRUCTION MEETING. . . . . 13

SECTION 7. MATERIALS AND EQUIPMENT. . . . . 13  
Part 7.1 - Contractor Equipment and Supplies. . . . . 13  
Part 7.2 - Rental Equipment and Supplies. . . . . 15

SECTION 8. WORK SITE FACILITIES. . . . . 15

SECTION 9. RESPIRATORY PROTECTION. . . . . 15

SECTION 10. PERSONNEL PROTECTION REQUIREMENT AND TRAINING. . . . . 18

SECTION 11. WORKER DECONTAMINATION ENCLOSURE SYSTEMS. . . . . 19

SECTION 12. WORKPLACE ENTRY AND EXIT PROCEDURES. . . . . 21

SECTION 13. DIFFERENTIAL AIR PRESSURE SYSTEMS. . . . . 21  
Part 13.1 - Negative Pressure Requirements. . . . . 21  
Part 13.2 - DOP Testing. . . . . 22  
Part 13.3 - Differential Pressure Recording Requirements. . . . . 22  
Part 13.4 - Differential Pressure System. . . . . 23

SECTION 14. EXECUTION, WORK SCHEDULE. . . . . 24  
Part 14.1 - Execution. . . . . 24  
Part 14.2 - Power Outage Procedures. . . . . 26  
Part 14.3 - Work Schedule. . . . . 27

SECTION 15. REMOVAL PROCEDURES. . . . . 27

SECTION 16. WASTE CONTAINER PASS-OUT PROCEDURES. . . . . 28

SECTION 17. CLEAN-UP PROCEDURE. . . . . 29  
Part 17.1 - Clean-up Procedure. . . . . 29  
Part 17.2 - Visual Clearance Criteria. . . . . 29

SECTION 18. CLEARANCE AIR MONITORING. . . . . 30

**ASBESTOS REQUIREMENTS  
TABLE OF CONTENTS**

SECTION 19. MONITORING. . . . . [31](#)

SECTION 20. DISPOSAL PROCEDURES. . . . . [31](#)  
 Part 20.1 - Disposal Procedures. . . . . [31](#)  
 Part 20.2 - Transportation to the Landfill. . . . . [32](#)  
 Part 20.3 - Disposal at the Landfill. . . . . [32](#)

SECTION 21. PATENTS AND PREVAILING WAGES. . . . . [33](#)  
 Part 21.1 - Patents. . . . . [33](#)  
 Part 21.2 - Prevailing Wage Requirements. . . . . [33](#)

SECTION 22. PERMITS AND FEES. . . . . [33](#)

SECTION 23. SPECIFIC PROCEDURES AND REQUIREMENTS. . . . . [33](#)  
 Part 23.1 - General Repair of Damaged Thermal System Insulation (TSI). . . . . [33](#)  
 Part 23.2 - Glove Bag Technique Requirements. . . . . [34](#)  
 Part 23.3 - Mini-Cube Enclosure Requirements. . . . . [35](#)  
 Part 23.4 - Roofing Abatement Requirements. . . . . [36](#)  
 Part 23.5 - Vinyl Floor Tile (VFT) & Associated Adhesive Abatement Requirements. . . . . [41](#)  
 Part 23.6 - Carpet Removal over Vinyl Floor Tile (VFT)/Tile Adhesive Requirements. . . . . [44](#)  
 Part 23.7 - Boiler Unit Removal Requirements. . . . . [45](#)  
 Part 23.8 - Sheetrock and Joint Compound Abatement Requirements. . . . . [45](#)  
 Part 23.9 - Impact to and Removal of Transite Pipe, Shingle, or Sheeting Materials. . . . . [47](#)  
 Part 23.10- Demolition with Selected Asbestos Containing Materials Left in Place. . . . . [48](#)  
 Part 23.11 - Contaminated Attic Space Procedures. . . . . [49](#)  
 Part 23.12 - Non-Friable, Non-Hazardous, Glazing Abatement Requirements. . . . . [51](#)  
 Part 23.13 - Subfloor Crawl Space Dirt Removal Requirements. . . . . [53](#)  
 Part 23.14 - Subfloor Enclosure Requirements. . . . . [53](#)  
 Part 23.15 - Installation of “Rat Slab” in Subfloor Crawl Space Requirements. . . . . [53](#)  
 Part 23.16 - Stucco/Texture Removal and Containment Requirements. . . . . [53](#)  
 Part 23.17 - Fireproofing Abatement Requirements. . . . . [54](#)

SECTION 24. ASBESTOS SPECIFICATIONS/PROCEDURES. . . . . [55](#)  
 Part 24.1 - Contacts. . . . . [55](#)  
 Part 24.2 - Removal Locations. . . . . [55](#)  
 Part 24.3 - Materials to be Abated. . . . . [56](#)  
 Part 24.4 - Containment and Abatement Requirements. . . . . [56](#)  
 Part 24.5 - Contractor Assist Requirements. . . . . [57](#)  
 Part 24.6 - Worker Protection. . . . . [57](#)  
 Part 24.7 - Electrical and Water Hook-Ups. . . . . [57](#)  
 Part 24.8 - Visual and Air Clearance Criteria. . . . . [57](#)  
 Part 24.9 - Owner’s Responsibility. . . . . [58](#)  
 Part 24.10 - Disposal Requirements. . . . . [58](#)  
 Part 24.11 - Work Periods. . . . . [58](#)  
 Part 24.12 - Pre-Construction Submittal List. . . . . [59](#)  
 Part 24.13 - Interim Construction Submittals. . . . . [61](#)  
 Part 24.14 - Post Construction Submittal List. . . . . [61](#)

SECTION 25. ASBESTOS RESULTS LIST. . . . . [62](#)

SECTION 26. SITE MAP. . . . . [70](#)

SECTION 27. FORMS. . . . . [71](#)



**SECTION 1. ASBESTOS BIDDING REQUIREMENTS**

**Part 1.1 - Site Investigations**

By submitting a bid for asbestos related work, the asbestos abatement contractor acknowledges that they have investigated and satisfied themselves as to: a) the conditions affecting the work, including but not limited to, physical conditions of the site which may bear upon site access, handling, and storage of tools and materials, access to water, electric, or other utilities, or otherwise affect performance of required activities; b) the character and quality of all surface and subsurface materials or obstacles to be encountered, in so far as, this information is reasonably ascertainable from an inspection of the site, including exploratory work done by the Owner or a designated consultant, as well as, information presented in drawings and specifications included with this contract. Any failure by the asbestos abatement contractor to acquaint themselves with available information will not relieve them from the responsibility for estimating properly the difficulty or cost of successfully performing the work. The Owner is not responsible for any conclusions or interpretations made by the asbestos abatement contractor on the basis of the information made available by the Owner.

**Part 1.2 - Insurance Requirements**

Successful asbestos abatement contractor shall purchase and maintain insurance that will protect them from claims that may arise out of or result from the activities under this Contract, whether those activities are performed by the asbestos abatement contractor, by any Subcontractor, or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.

Successful asbestos abatement contractor shall submit proof of coverage, as well as, Subcontractors under the Worker's Compensation insurance system of the State of California or other similar benefit acts.

Successful asbestos abatement contractor shall submit a certificate of general liability insurance protecting against liability for bodily injury and property damage arising from asbestos abatement contractor's activities under this contract.

Such certificate of insurance must contain the following provisions:

- (a) The limit of liability shall not be less than \$1,000,000.00 per occurrence for bodily injury and property damage liability combined.
- (b) The Owner, Owner's Agents, and Consultant must be named as additional insured, but only in respect to liability arising or resulting from activities under this contract.
- (c) In the event of cancellation of the insurance policy, the Owner shall be given thirty days advance written notice.
- (d) The insurance certificate must state that the insurance includes liability coverage for asbestos abatement work.

Successful asbestos abatement contractor's Subcontractors shall submit a certificate of general liability insurance protecting against liability for bodily injury and property damage arising from Contractor's activities under this contract.

Such certificates of insurance must contain the following provisions:

- (a) The limit of liability shall not be less than \$1,000,000.00 per occurrence for bodily

injury and property damage liability combined.

- (b) The Owner, Owner's Agents, and Consultant must be named as an additional insured, but only in respect to liability arising or resulting from activities under this contract.
- (c) In the event of cancellation of the insurance policy, the Owner shall be given thirty days advance written notice.

**Part 1.3 - Licenses and Qualifications Requirements**

The asbestos abatement contractor shall be duly licensed in the State of California with the Contractors State License Board (CSLB) in accordance with the provisions of Chapter 9 of Division 3 of the Business and Professions Code, as amended. This includes certification for asbestos-related work, and all other trades or work required under this contract and within these specifications.

The asbestos abatement contractor shall submit a statement, signed by an officer of the company, containing the following information:

- 1. A record of any citations issued by Federal, State, or Local regulatory agencies within the last 3 years, relating to asbestos abatement activity. Include projects, dates, and resolutions.
- 2. A list of penalties incurred through non-compliance with asbestos abatement project specifications, including liquidated damages, overruns in scheduled time limitations, and resolutions.
- 3. Situations in which an asbestos-related contract has been terminated including projects, dates, and reasons for terminations.
- 4. A list of any asbestos-related legal proceedings/claims in which the Contractor (or employees scheduled to participate in this project) has participated or is currently involved. Include descriptions or role, issue, and resolution to date.

The asbestos abatement contractor is fully and totally responsible at all times for compliance with payment of prevailing wage rates pursuant to provisions of the California Labor Code, for compliance with Division 2, Part 7, Chapter 1, California Labor Code, including but not limited to Section 1776; and for compliance with California Labor Code, Section 1777.5 for all apprentice able occupations.

**SECTION 2. ASBESTOS GENERAL REQUIREMENTS - DEFINITIONS**

**Abatement** - Procedures beyond a special operations and maintenance program to control fiber release from asbestos-containing materials. Includes removal, encapsulation, enclosure, repair.

**ACGIH** - American Conference of Governmental Industrial Hygienists, 6500 Glenway Avenue, Building D-5, Cincinnati, Ohio 45211

**AHERA** - Asbestos Hazard Emergency Response Act

**AIHA** - American Industrial Hygiene Association, 475 Wolf Ledges Parkway, Akron, Ohio 44311

**Air Filtration Device** - See "Pressure Differential Unit"

**Airlock** - A system for permitting ingress and egress with minimum air movement between a contaminated

area and an uncontaminated area, typically consisting of two curtained doorways separated by a distance of at least three (3) feet such that one passes through one doorway into the airlock, allowing the doorway sheeting to overlap and close off the opening before proceeding through the second doorway, thereby preventing flow-through contamination.

**Air Monitoring** - The process of measuring the fiber content of a known volume of air collected during a specific period of time. The procedure normally utilized for asbestos follows the NIOSH Standard Analytical Method for Asbestos in Air P&CAM 239 or Method 7400. For clearance air monitoring, electron microscopy methods may be utilized for lower detection and specific fiber identification.

**Air Sampling Professional** - The professional contracted or employed by the Owner to supervise and/or conduct air monitoring and analysis schemes. This individual may also function as the Asbestos Project Manager, if qualified. Supervision of air sampling and evaluation of results should be performed by an individual certified in the Comprehensive Practice of Industrial Hygiene (CIH) or having specialized experience in air sampling for asbestos. Other acceptable Air Sampling Professionals include Environmental Engineers, Architects, Chemists and Environmental Scientists or others with equivalent experience in asbestos air monitoring. This individual shall not be affiliated in any way other than through this contract with the contractor performing the abatement work.

**Ambient Air** - The air outside the buildings and structures or the air as it normally exists in a space prior to abatement.

**Amended Water** - Water to which a surfactant has been added.

**ANSI** - American National Standards Institute, 1430 Broadway, New York, New York, 10018

**Asbestos** - Means the asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite grunerite (amosite), anthophyllite, actinolite, and tremolite.

**Asbestos Containing Hazardous Waste** - Materials defined by the State of California to be packaged, labeled, transported, and disposed of as an asbestos hazardous waste. This includes all friable asbestos-containing material over one-percent (1%) asbestos. This also includes all asbestos-containing material containing less than one-percent asbestos for which one or more bulk samples have not been point counted and found to contain less than one-percent (1%) asbestos.

**Asbestos Containing Material (ACM)** - Cal/OSHA - Material composed of asbestos of any type and in an amount greater than one percent (1%) either alone or mixed with fibrous or non-fibrous materials.

**Asbestos Containing Construction Material (ACM)** - a manufactured construction material containing greater than 0.1% asbestos by weight by the PLM method.

**Asbestos Containing Waste** - Asbestos-containing material or asbestos-contaminated objects requiring disposal.

**Asbestos Project Manager (APM)** - (Competent Person) - An individual qualified by virtue of experience and education, designated as the Owner's representative and responsible for overseeing the asbestos abatement project.

**ASTM** - American Society for Testing and Materials, 916 Race Street, Philadelphia, PA 19103.

**Authorized Visitor** - The Owner (and any designated representative) and any representative of a regulatory or other agency having jurisdiction over the project.

**Bidder** - A duly licensed and accredited asbestos contractor who was present at the bid-walk and has submitted a bid.

**Cal/OSHA** - California Division of Occupational Safety and Health.

**Certified Asbestos Consultant (CAC)** - A certified asbestos consultant as defined by the Department of Industrial Relations (Cal/OSHA).

**Certified Industrial Hygienist (CIH)** - An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.

**Clean Room** - An uncontaminated area or room which is a part of the worker decontamination enclosure system with provisions for storage of workers' street clothes and clean protective equipment.

**Competent Person** - A person who is an accredited EPA Asbestos Contractor/Supervisor and whose accreditation is current.

**Containment** - Isolation of the work area from the rest of the building to prevent escape of asbestos fibers.

**Contract Documents** - Written contractual agreements between the Owner and the Contractor that pertain to the work on this project.

**Contractor** - The individual and/or legal entity and its subcontractors and employees of the contractor and subcontractor awarded the contract.

**Contractor/Supervisor** - A person who successfully completed an initial U.S. EPA and/or state-approved five-day AHERA accreditation course and who has maintained that training through approved annual refresher training, and possesses current and valid AHERA accreditation documentation as a AHERA accredited Contractor/Supervisor.

**Class I, II, III, or IV Work** - Work classes described in 8 CCR 1529 that describe different levels of asbestos work.

**Critical Barrier** - Critical Barriers used to restrict water and air flow. Critical Barriers are the barriers placed over openings in the walls and ceilings of a work area in order to ensure that airborne fibers cannot escape the work area via these openings. The Contractor will construct impermeable barriers at all exits or openings, including doorways, duct chases, mechanical shafts, elevator shafts, floor openings, drains, and the like, so that all possible exit or entrance routes are effectively barricaded and sealed. Unless otherwise specified in the Contract documents, critical barriers shall be constructed of at least one layer of 6-mil thick poly.

**Critical Barrier Negative Pressure Test** - Required test for negative pressure with only critical barriers and air filtration units installed. This test must be conducted prior to the installation of cleaning barriers, but may be conducted with or without the decontamination unit in place.

**Decontamination Enclosure System** - (Also known as Decon or Waste Transfer Decon) A series of connected rooms designed for the decontamination of workers and equipment that is separated from the work area and from each other by z-flapped curtained doorways. This unit shall be constructed with at least six-mil poly for the floors, walls, and ceiling. All decontamination enclosure systems used for worker entry and exit shall be equipped with a shower.

**Demolition** - The wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations.

**DOP** - Dispersed Oil Particulate which are normally used as an agent for testing the efficiency of HEPA filters.



**Dust or Debris** - Any visible dust or debris remaining in an abatement area will be considered asbestos-containing residue.

**Encapsulant** - A liquid material which can be applied to asbestos-containing material which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).

**EPA** - U.S. Environmental Protection Agency

**Equipment Room** - A contaminated area or room which is part of the worker decontamination enclosure system with provisions for storage of contaminated clothing and equipment.

**Exterior of Containment HEPA Filtered Pressure Differential Unit** - An air-purifying unit positioned outside, rather than inside the regulated work area. The face, or filter portion of the unit is integrated within the work area, and the remainder of the unit (housing, wheels, rivets, control panel, etc.) is located outside of the work area. This allows filters on the air intake to be changed from within the regulated area but access to the machine itself is available to those outside the area. Pressure differential units which pass DOP testing across the HEPA filter, but fail at rivets, control panels, wheels, etc. may be used in this fashion as long as the failure point of the unit can remain on the exterior of containment while the face of the unit and filters are inside containment.

**Facility** - Any institutional, commercial or industrial structure, installation, or building.

**Facility component** - Any pipe, duct, boiler, tank, reactor, turbine, or furnace at or in a facility or any structural member or a facility.

**Fed OSHA or OSHA** - Federal Occupational Safety and Health Administration.

**Fixed object** - A piece of equipment or furniture in the work area which cannot be removed from the work area.

**Friable asbestos** - Asbestos-containing material which can be crumbled to dust when dry, under hand pressure or by mechanical means.

**Glove Bag Technique** - A method with limited applications for removing small amounts of friable asbestos-containing materials from ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces. The glove bag is constructed of 6 mil transparent polyethylene with two inward projecting long sleeves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste.

**HVAC** - Heating, ventilation and air conditioning system.

**HEPA Filter** - A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter from an air stream with 99.97% efficiency.

**HEPA Vacuum** - A vacuum system equipped with HEPA filtration.

**Lock-down** - To mist the air and to wet surfaces with an agent designed to bind asbestos fibers together.

**Magnehelic gauge** - Instrument for measuring the static air-pressure differential across a barrier.

**Manometer** - See "Magnehelic gauge".

**Mini-Enclosure** - Mini-enclosures shall be constructed of 6 mil polyethylene (attached with tape and/or glue to walls and floors) and shall be small enough for 1-2 workers who can enter the enclosure, complete the abatement exercise, pass out the containerized debris and exit.

**Monitoring** - May include:

- a) Visual inspection for the presence of visible emissions; or
- b) Air monitoring performed in accordance with accepted methods;
- c) Core samples of encapsulated or bridged materials.
- d) Bulk sampling of soil during and following abatement.
- e) Sampling substrata following abatement.

**Movable Object** - An unattached piece of equipment or furniture in the work area which can be removed from the work area.

**NVLAP** - National Voluntary Laboratory Accreditation Program.

**NESHAP** - The National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 61, Nov. 20, 1990)

**NIOSH** - The National Institute for Occupational Safety and Health CDC-NIOSH, Building J N.E. Room 3007, Atlanta, GA 30033

**Outside Air** - The air outside buildings and structures.

**Owner** - The Owner or Owners authorized Representative.

**PCM** - Phase contrast microscopy according to NIOSH Method 7400.

**Plasticize** - See "Poly".

**Poly** - Polyethylene sheeting. Used to cover floors, walls, ceilings, create critical barriers, and seal open vents on mechanical systems, etc. Note: All poly must be flame-retardant.

**Pressure Differential Unit (PDU)** - Also called negative air units. A portable exhaust system equipped with HEPA filtration and capable of exhausting air out the asbestos work area to create a negative pressure work environment..

**Regulated Area** - means an area established by a Contractor to demarcate areas where airborne concentrations of asbestos exceed, or there is a reasonable possibility they may exceed, the permissible exposure limit. Additionally "Regulated Area" means any measure used to restrict access to an area where personnel impacting asbestos-containing materials are required to wear respiratory protection and/or protective clothing by the project specifications regardless of airborne asbestos concentration levels.

**Regulations** - shall include but not be limited to:

- a. U.S. Environmental Protection Agency Regulations for Asbestos (Title 40, Code of Federal Regulations, Part 61, Subparts A & B)
- b. U.S. Environmental Protection Agency, Office of Toxic Substances, Asbestos-Containing Materials in School Buildings, A Guidance Document, Parts 1 & 2.
- c. Title 8, Chapter 4, Subchapters 1 through 21, California Administrative Code, General Industry Safety orders, Section 5208 "Asbestos" or the applicable sections of the Federal Asbestos Regulations. Cal/OSHA Construction Safety Orders, Section 1529.

- d. "Asbestos Hazard Emergency Response Act", U. S. Environmental Protection Agency, 40 CFR, Part 763. Final Rule and Notice.
- e. Applicable local county Air Pollution Control Owners and Air Quality Management Districts.

**Removal** - The stripping of any asbestos-containing materials from surface or components of a facility.

**Renovation** - Altering in any way one or more facility components. Operations in which load-supporting structural members are wrecked or taken out are excluded.

**Shower Room** - A room between the clean room and the equipment room in the decontamination enclosure with hot and cold or warm running water controllable at the tap and suitably arranged for complete showering during decontamination. The shower room must be equipped with an overflow pan to contain water splashed, leaked or spilled out of the shower unit.

**Staging Area** - Either the holding area or some area near the waste transfer airlock where containerized asbestos waste has been placed prior to removal from the work area.

**Structural Member** - Any load-supporting member of a facility, such as beams and load-supporting walls or any non-load-supporting member, such as ceilings and non-load supporting walls.

**Submittals** - Pre, interim, and post job documents submitted by the contractor to Owner/Owner's Representative as indicated in General Requirements and Bidding Requirements.

**Surfactant** - A chemical agent added to water to improve wetting and penetration into asbestos materials.

**TEM** - Transmission Electron Microscopy according to AHERA specifications for Level II analysis.

**Visible emissions** - Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

**Waste Load-out/Transfer System** - A decontamination system utilized for transferring containerized waste from inside to outside of the work area. A series of three connected rooms used for the load-out of asbestos-containing materials that have been properly containerized. The waste load out chamber system shall normally consist of three connected chambers adjacent to the work area. Each chamber shall be constructed with six-mil thick poly for the floors, walls, and ceiling

**Wet Cleaning** - The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other utensils which have been dampened with water and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

**Work Area** - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled-access work area which has not been plasticized nor equipped with a decontamination enclosure system.

**Worker** - Contractor employee who has completed course work and passed the exam for an EPA accredited, AHERA asbestos abatement worker. Certificate must be current.





Submit copies of insurance certificates which meet requirements as outlined in Section 1, Part 1.2, of this Specification.

Submit copies of notifications to government agencies.

Submit proof satisfactory to the Owner that required permits have been acquired applicable to the project being performed and specific to the project site and location. If no city, county, or other permits for parking, waste container location, or variances for scheduled work hours are required this should be stated in writing and submitted to the Owner.

Submit Sub-contractors information or statement that Sub-contractors will not be required or used during this project. This statement should also include that if it becomes necessary to use a Sub-contractor during this project that Sub-contractor will not be allowed to perform work until all required documentation has been submitted for review by the Owner or Owner's CAC, and the Contractor receives written approval for use of the Sub-contractor on this project.

Submit a complete list of all rented equipment, or equipment expected to be rented from an outside contractor for use in "Regulated Areas", "Work Areas", or "Containments", where the equipment may be exposed to elevated levels of airborne asbestos. If no equipment is to be rented a statement should be submitted stating no equipment will be used on the project. The statement should also include that if it becomes necessary to use rented equipment that written statements from each rental company will be provided to the Owner prior to its use, indicating the rental companies acknowledgment that the equipment is provided for and may be used in areas where airborne levels of asbestos may be present.

Submit non-emergency telephone numbers, other than 911, for the appropriate Police, Sheriff, and Fire Departments. This list of numbers shall also include the Name, pager or cell phone numbers of the on-site supervisor and his immediate company supervisor.

Submit detailed written directions from the project site to the medical facility to be used in case of an emergency. Also include a map which sufficiently shows the route to be taken from the site to the designated medical facility.

Submit written emergency procedures pertinent to the work to be performed and which can be implemented by site personnel if the need arises.

Submit detailed information on preparation of work area, personal protective equipment, employee experience, training and assigned responsibilities during the project. Also list decontamination procedures for personnel, work area and equipment, abatement methods and procedures, required air monitoring program, procedures for handling and disposing of waste materials and procedures for final decontamination and cleanup.

Submit a detailed work schedule. The schedule shall have, as a minimum, the work area and the day/month for beginning and terminating work in each work area. During progress of work, it shall be the Contractor's responsibility to keep the schedule current and up to date.

Submit documentation satisfactory to the Owner that the Contractor's employees, including foremen, supervisor, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of abatement activities, have received required US EPA AHERA training.

Submit documentation from physician that all employees or agents who may be exposed to airborne asbestos in excess of background levels have been provided with an opportunity to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that personnel have received medical monitoring as required by Cal/OSHA regulations. The Contractor must be aware of and provide information to the examining physician

about unusual conditions in the workplace environment (e.g., high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

Submit documentation of respirator fit-testing for all Contractor employees and agents who must enter any work area where asbestos-containing materials may or will be impacted. This fit-testing shall be in accordance with qualitative procedures as required by OSHA regulations or be quantitative in nature. Documentation pertaining to NIOSH approvals for all respiratory protective devices utilized on site shall also be included.

Submit copy of waste transporters Department of Toxic Substances Control, Hazardous Waste Transporter Registration if hazardous asbestos-containing waste is to be removed during the project. If hazardous asbestos-containing waste will not be generated submit the name, address, and registration information for the waste hauler to be used for transporting the waste.

Submit documentation listing the name and site address of the waste facility designated to receive asbestos-containing waste generated during this project. This documentation shall also include the EPA Identification number, and a copy of the current permit authorizing the waste facility to accept and dispose of asbestos-containing waste.

Submit Safety data sheets (SDS) for any and all applicable, materials, supplies, etc. These documents must be legible and completely reveal information required to be communicated to the Contractor's employees, visitors, and Owner Representatives.

Submit manufacturers' certifications that high efficiency particulate air (HEPA) vacuums, pressure differential units and other local exhaust ventilation equipment conform to ANSI Z9.2-79.

Submit name of laboratory/person to be used for Phase Contrast Microscopy (PCM) analysis and copy of current NVLAP Certificate of Accreditation (if applicable), and most recent NIOSH Proficiency Analytical Testing Program results.

Submit a written statement that OSHA monitoring will be performed for all asbestos-related activities performed during this project. This statement must be on company letterhead, dated, include name of the site or project being worked on, and signed by an authorized agent of the company performing the asbestos-related work.

Submit manufactures documentation pertaining to the capability of waste water filters to filter particles of 1.0 micron in size.

### **Part 3.3 - Submittals During the Work Process**

Submit weekly - copies of work site entry/exit logs as well as information on worker and visitor access.

Submit weekly - copies of results of air sampling data collected during the course of the abatement including OSHA compliance air monitoring results.

Submit weekly - copies of air-differential manometer graphs and HEPA filter change logs. (see Section 13)

Submit weekly - copies of all transport manifests, trip tickets, weights and disposal receipts as applicable for all asbestos waste materials removed from the site during the abatement process.

Submit as applicable - copies of current insurance certificates, notifications, worker documentation, etc. if these items expire during the course of the project.

During abatement the Owner will upon request submit to the Contractor results of bulk material analyses and air sampling data collected during the course of the abatement. These serve only to monitor Contractor

performance during the project.

Submit upon request during or after completion of the project, documentation deemed by the Owner to be pertinent to the project.

**Part 3.4 - On-Site/Clean-Room Area Postings and Documentation**

The following items shall be posted at the entrance to “Regulated Areas”, “Work Areas”, and “Containments”, or in the possession of the Contractor’s on-site supervisor where respiratory protection or protective clothing is required by this Specification.

A Cal/OSHA Information poster and a Cal/OSHA Construction Site poster.

A copy of the CAL-OSHA and the local AQMD/APCD or EPA NESHAP Notification (if applicable).

Non-emergency telephone numbers, other than 911, for the appropriate Police, Sheriff, and Fire Departments. This list of numbers shall also include the Name, pager or cell phone numbers of the on-site supervisor and his immediate company supervisor. Detailed written directions from the project site to the medical facility to be used in case of an emergency. Also a map which sufficiently shows the route to be taken from the site to the designated medical facility.

Written emergency procedures pertinent to the work to be performed and which can be implemented by site personnel if the need arises.

Written entry/exit procedures shall be posted in the clean room and equipment room. (See Section 12)

List of persons authorized to be in restricted area. The list shall include, among others, the following names with addresses and phone numbers:

Contractor	Air-sampling Professional	Asbestos Project Manager
Testing Laboratory	Owner's representatives	Any other designated by the Owner

Entry/exit log for work performed in all “Regulated Areas”, “Work Areas”, and “Containments” where respiratory protection or protective clothing is required by this Specification. Contractor shall maintain copies of all entry/exit logs on the site during the performance of asbestos-related work.

All of the Contractor’s personnel and area air sampling results shall be posted in the clean room area or in the possession of the Contractor’s site supervisor if no decontamination unit is required for the work being performed within 72 hours of collection, and submitted to Owner’s CAC weekly unless otherwise noted.

Copies of Safety data sheets (SDS) for all materials on-site.

**Part 3.5 - Job Site Documents**

The following shall be in the possession of the Contractor’s supervisor at each job site:

1. All contract specifications to include, change orders, etc. Contractor competent person must sign a document stating he has full knowledge of all Sections included in this specification.
2. Written Injury and Illness Prevention Program.
3. Written Respiratory Protection Program
4. An updated list of all contractor employees who have worked on this job.
5. List of all US EPA AHERA competent employees (supervisors).
6. Training records
7. Medical records

- 8. Respiratory fit test records

**Part 3.6 - Project Close-out Documents**

Contractor shall submit post-construction submittals to Owner/Owner’s Representative within thirty (30) days of the completion of asbestos-related work. This documentation shall include at a minimum any and all applicable documents as outlined in Part 3.2 and Part 3.3 of this Section. In addition the Contractor should consult and submit as applicable documents identified in Section 24, Part 24.3 - Post Construction Submittal List

**SECTION 4. SITE SECURITY**

The work area is to be restricted to authorized, trained and protected personnel. A list of authorized personnel shall be established prior to job start and posted in the clean room of the work decontamination facility, or in the possession of the on-site supervisor for the Contractor.

Contractor shall report to the Owner immediately entry into the work area by unauthorized individuals.

A log book shall be maintained during the project. Anyone who enters the work areas must record name, affiliation, time in, and time out for each entry.

Access to all “Regulated Areas”, “Work Areas”, and “Containments” shall be through a designated entry point. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from these areas. The only exceptions for this rule are the waste pass out air-lock, and emergency exits in case of fire or accident.

Emergency exits shall NOT be locked, however, they shall be sealed with polyethylene sheeting and tape until needed. All emergency exits shall be clearly designated. They shall also have a razor knife permanently in place to facilitate emergency exit.

Contractor should have control of site security during abatement operations whenever possible, in order to protect work efforts and equipment. During off-hours access to the abatement area shall be restricted by a lockable entry.

Contractor will have Owner's assistance in the enforcement of restricted access by Owner's employees.

Storage of debris will be such that access to it is limited to the Contractor. Lockable bins shall be utilized and they shall be locked at all times except when loading occurs. No soft covers will be allowed for any storage containers. When a container with rolling tops is being used all access points to the interior of the container must be secured by the Contractor with locks of sufficient strength to require special effort to gain access to the interior of the waste container.

**SECTION 5. EMERGENCY PLANNING**

Emergency planning and procedures shall be developed by the Contractor and shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, and heat related injury and agreed to by Contractor and Owner prior to abatement initiation. These emergency procedures shall be established and presented to all employees and the Owner prior to the beginning of any work. A written emergency plan shall be posted or in the possession of the on-site supervisor for the Contractor regardless of the work being performed.

A copy of the Contractor’s written Injury and Illness Prevention Program shall be posted or in the possession of the on-site supervisor for the Contractor regardless of the work being performed.

Employees shall be trained in evacuation procedures in the event of workplace emergencies. Telephone numbers of all emergency response personnel shall either be in the possession of the on-site supervisor, or be prominently posted in the clean change area and equipment room, along with the locations of the nearest telephone indicated on a map or diagram.

At least two fire extinguishers shall be present on site and in close proximity to the work being performed regardless of the type of work being conducted. At least one fire extinguisher shall be present outside of any containment. Additional extinguishers shall be distributed according to Cal/OSHA requirements or as identified in this Specification.

When open abatement is being performed, an emergency blast horn (canned air horn) shall be placed inside of containment for emergency evacuation in the event of a fire or other emergency.

If noted in any other section of this Specification, a means of communication shall be established between inside and outside of containment whenever a decontamination setup is required, particularly for all open abatement projects. This requirement may be met through walkie talkies or cell phones.

During hot working conditions, such as in an attic space during summer, or in containments where live steam or hot water lines are exposed, special attention must be given to the possibility of heat stress and burns. The Owner's site representative may make recommendations for work breaks for employees, but the supervisor is ultimately responsible for his workers.

## **SECTION 6. PRE-CONSTRUCTION MEETING**

A pre-construction meeting will be held at a time and location to be determined by the Owner. The successful Bidder, his on-site supervisory personnel, and Air Sampling Professional (if applicable), representatives of the Owner, Owner's Representative, and other individuals as necessary shall be present at this meeting.

At this meeting the Contractor shall provide all required submittals, as indicated above in Section 3, Part 3.2. The Contractor should use the Pre-Construction Submittal List provided in Section 24, Part 24.1 to assure all required submittals are included in his submittal package.

## **SECTION 7. MATERIALS AND EQUIPMENT**

### **Part 7.1 - Contractor Equipment and Supplies**

Deliver all consumable materials in the original packages, containers or bundles bearing the name of the manufacturer and brand name (where applicable). These must be approved by the Owner. Polyethylene (Poly) sheeting, of appropriate thicknesses for walls, floors, and ceilings, (4 mil's thick for walls, 10 mil's thick for lining of waste containers, 6 mil's thick for floors and all other uses), shall be provided in widths selected to minimize the frequency of joints.

All poly shall be flame-retardant (fire-rated) regardless of its designated use inside or outside any building.

Poly sheeting utilized for worker decontamination enclosure shall be opaque white or black in color and each layer shall be a minimum of 6 mil thick. Modesty barriers are to be erected whenever and wherever the Owner's CAC determines one is needed.

Disposal bags shall be constructed of 6 mil poly with labels required by OSHA, CDPH, Toxic Substance Control regulations. Disposal drums shall be metal or fiber board with locking ring tops to be used only if required and/or allowed by selected waste facility.

Stick-on labels as per DTSC, DOT and OSHA requirements for disposal drums shall be provided.



Warning signs as required by OSHA shall be provided and posted per regulations.

Surfactant (wetting agent) shall be a 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, or equivalent, mixed in a proportion of one (1) fluid ounce to five (5) gallons of water or as specified by manufacturer. If amphibole asbestos is present in the materials being removed, the Contractor shall use a surfactant that is designed to wet the materials. This information shall be submitted to the Owner's CAC before the start of the project.

A sufficient quantity of pressure differential units equipped with HEPA filtration and operated in accordance with ANSI Z9.2-79 and EPA guidance document EPA 560/5-83-002 Guidance for Controlling Friable Asbestos-Containing Materials in Buildings, Appendix F: Recommended Specifications and Operating Procedures for the Use of Negative Pressure Systems for Asbestos Abatement, shall be utilized so as to meet the requirements of Section 12.

An adequate number of respirators for the work force shall be on hand. These respirators will include, when specified:

- a. Type "C" air-supplied respirators in positive pressure or pressure demand mode with full face pieces and HEPA-filtered disconnects.
- b. Full-face powered-air respirators with HEPA-filters.
- c. Half-face or full face respirators with HEPA filters.

All respirators shall be NIOSH-approved and be equipped with supplies for immediate replacement of defective parts.

Full body disposable protective clothing, including head, body, and foot coverings consisting of material impenetrable by asbestos fibers shall be provided to all workers and authorized visitors in sizes adequate to accommodate movement without tearing.

Additional safety equipment such as hard hats, eye protection, safety shoes, disposable PVC gloves, etc., as necessary shall be provided to all workers and authorized visitors.

Non-skid footwear shall be provided to all abatement workers.

If launderable clothing is to be worn underneath disposable protective clothing, it shall be provided by the Contractor to all abatement workers. Laundering must occur in accordance with applicable OSHA requirements.

A sufficient supply of scaffolds, ladders, lifts and hand tools (e.g., scrapers, wire cutters, brushes, utility knives, wire saws, etc.) shall be provided as needed.

Rubber dustpans and rubber squeegees shall be provided for cleanup.

A sufficient supply of HEPA-filtered vacuums and HEPA filtered negative air units shall be provided to meet the specifications.

All HEPA equipment to be used on the project must be delivered to the site empty of all debris, clean, free of dust, and in full operating condition. All HEPA equipment to be used shall be DOP tested onsite by a third party at the start of the project before being used on the project. This DOP certification must be verified by Owner's CAC prior to its use.

DOP certification testing shall be observed and witnessed by an Owner's CAC. Copies of DOP test results and certification must be submitted to Owner's CAC within 24 hours of the testing being performed.

No product or material will be used on the project unless the product data sheets and all SDS's have been submitted, reviewed, and approved by the Owner for use. Any product or material found on the project which has a product data sheet and/or SDS available and has not been approved will be removed from the site by the Contractor until review and approval has been completed by the Owner.

**Part 7.2 - Rental Equipment and Supplies**

Any equipment rented and delivered to the site for the purpose of conducts asbestos abatement work must be accompanied with documentation verifying that the rental agency has been notified, and acknowledges receipt of notification that the equipment being rented will be used for asbestos abatement work. This documentation must be submitted to the Owner's CAC prior to the equipment being delivered to the job site. Rental equipment, including scaffolding, will be held to the same standard of cleanliness as all other equipment on this project.

All rented equipment must be inspected and accepted by Owner's CAC as it arrives onsite. Any equipment covered with dust (no matter the source of dust), plaster debris, multiple layers of encapsulant and/or spray glue, or any other debris will not be accepted. Delays caused by a lack of clean equipment will not extend Contractor's schedule. Equipment rejected due to a lack of cleanliness must be removed from Owner's grounds in order to be cleaned. Dirty equipment wrapped in plastic will not be acceptable.

The Owners' agent/site representative must be informed 24 hours prior to the delivery of any rental equipment.

The decision of the Owner or its representative on all rental equipment and supplies shall be final.

**SECTION 8. WORK SITE FACILITIES**

The Owner shall provide sanitary facilities for abatement personnel outside of the enclosed work area. To use these facilities all workers shall wear street clothes, not bathing suits or disposable coverall while using the facilities.

The Owner shall provide water for construction purposes. Contractor shall connect to existing Owner system.

The Owner shall provide the electrical source.

The Owner or its representative shall specify the waste water discharge location and location of waste containers.

The Owner shall specify on-site parking areas, if available, and access to the site.

**SECTION 9. RESPIRATORY PROTECTION**

All respiratory protection shall be provided to workers in accordance with the submitted written respiratory protection program, which includes all items as required by OSHA. This program shall be posted in the clean room of the worker decontamination enclosure system or adjacent to the clean room.

The Contractor shall ensure that all workers entering the regulated area wear appropriate respiratory protection. Respiratory protection provided workers shall be in accordance with 8 CCR 1529, and 8 CCR 5144 and the respiratory protection program submitted by the Contractor. This program shall be available at the project site.

The Owner or their representative may deny access to a regulated area to anyone who, in the final judgement of the Owner or their representative, is not properly wearing adequate respiratory protection for the project conditions. This includes but is not limited to those wearing unidentified respirators, those with improperly

sealed respirators, those wearing respirators in an improper manner such as over their protective suit hood, or in any other fashion judged by the Owner or their representative to be improper or inadequate to protect the individual from the airborne asbestos at the project site.

The Contractor shall provide each worker needing respiratory protection with his or her own, individually identified, NIOSH-approved respirator. At a minimum, these respirators will be equipped with a P-100 series HEPA filter. The Contractor shall provide additional filter types if that becomes necessary for specific hazards discovered on the job site or if required in the contract documents.

The Contractor shall ensure that all workers use the respirator in compliance with the manufacturer's instructions for proper use and care of that product.

Workers must perform positive and negative respirator seal checks each time a respirator is put on, provided the respirator design so permits.

The Contractor shall ensure that those workers wearing powered air purifying respirators test the air flow rate according to the frequency and methods specified by the manufacturer.

Workers shall be given, at least, a qualitative fit test in accordance with procedures detailed in the Cal/OSHA requirements for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.

The Contractor shall ensure and provide written records to the Owner's CAC that all workers wearing tight-fitting respirators have been appropriately fit tested in accordance with the requirements of 8 CCR 5144.

The Contractor shall ensure that nothing interferes with the seal of the respirator to the face of the worker. This includes but is not limited to facial hair, clothing, protective clothing, equipment or anything else that comes between the respirator and the face of the worker.

Use of any respirator must be in compliance with the manufacturer's instructions for proper use and care of that product.

The Contractor shall ensure that workers wear respirators underneath protective clothing.

Workers conducts any work that may create an airborne release of asbestos must wear appropriate respiratory protection. This includes, but is not limited to the pre-cleaning of asbestos contamination off of furniture, equipment and floors, and the set-up of contaminated work areas.

The judgement of the Owner's CAC shall be final if there is a disagreement between the Owner and the Contractor regarding the need for wearing or the type of personal protection required..

In no event will a negative exposure assessment be allowed to lower respiratory protection, from that listed in the Scope of Work or required by regulation in the absence of an NEA, prior to the start of a project. Air samples used for negative exposure assessments created after the project has started must be from work conducted under this contract.

Minimum Respiratory Protection for OSHA Class I Work

All Class I asbestos work will require tight-fitting, full-face powered-air purifying respirators pursuant to Title 8 1529.

Unless stated otherwise in the contract documents, for the purposes of respiratory protection, Class I work will include the removal of materials such as gypsum board surfaces that are covered with a texturing or skim coat material that contains >1% asbestos.

Minimum Respiratory Protection for Class II and III Work Practices

Unless specified differently in the contract documents, the Contractor’s employees conducts Class II or III work will wear a minimum of half-face air-purifying respirators. Contract documents may require additional respiratory protection, such as the use of full face air-purifying respirators or powered air purifying respirators.

After work has begun, if a Contractor wishes to lower respiratory protection requirements, he or she must demonstrate to the Owner’s CAC that personal air sampling results from that project prove that airborne fibers levels are below the limit of quantification for the phase contrast microscopy method. The Owner’s CAC will normally require sampling results used for this purpose to include several days of sampling taken during the work expected to generate the highest expected airborne levels. The Owner’s CAC will have final authority regarding whether or not the respiratory protection may be reduced or eliminated. For example, the Owner’s CAC may require personal samples be analyzed by TEM before determining that asbestos does not pose an airborne health risk.

All Class I work shall require full-face powered air purifying respirators and are not subject to a reduced level of respiratory protection regardless of the air sample results.

The Owner’s CAC has full authority to raise the level of respiratory protection required for access to the regulated area if in his or her judgement additional respiratory protection is required. For example, if personal air sample results collected by either the Contractor or Owner’s CAC indicate higher than expected levels, the Owner’s CAC is authorized to increase the level of required respiratory protection. The Owner’s CAC will determine if the increased respiratory protection is due to new, unexpected developments such as the discovery of new materials, or if the increase is due to the Contractor failing to follow good work practices. The judgement on this matter by the Owner’s CAC will be final.

The Owner is not responsible for increased costs or delays resulting from the need to increase respiratory protection should the reason for the increased respiratory protection be due to the Contractor’s failure to adequately utilize good engineering controls and work practices and/or the prompt cleanup of debris.

The Contractor may only implement respiratory protection changes after receiving written approval for the change from the Owner’s CAC.

Powered-air purifying respirators must be worn if waste containers spill, break, or in any other fashion require a Class I work cleanup be performed.

The Contractor shall comply with the respiratory protection requirements in 8 CCR 5144 includes assigned protection factors for all respirators. The following list of respirators and their assigned "protection factors" shall be the criteria for the selection of respiratory protection.

<u>Respirator Selection</u>	<u>Protection Factor</u>
Half-face or full-face air purifying respirator equipped with HEPA filter.	10
Full-face air purifying respirator equipped with HEPA filter with quantitative fit test.	50
Full-face Type C continuous flow supplied air.	1000
Full-face, powered air purifying respirator equipped with HEPA filter.	1000
Full-face supplied air respirator operated in pressure demand mode.	1000

**Respirator Selection**

**Protection Factor**

Full-face supplied air respirator operated in pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus.

1000

Workers shall be provided respirators equipped with HEPA filters approved by NIOSH to be worn in the designated work area and/or whenever a potential exposure to asbestos exists. Owner or its representative may refuse entry to the work area to a worker with inappropriate respiratory protection.

Sufficient filters shall be provided for replacement as required by the workers or applicable regulations. Disposable respirators shall not be used.

Whenever type C respirator protection is used, compressed air systems shall be designed to provide air volumes and pressures to accommodate respirator manufacturer specifications. The compressed air system shall have a reservoir of adequate capacity to allow the escape of all respirator wearers from contaminated areas in the event of compressor failure.

Compressors must meet the requirements of 29 CFR 1910.134(d). Location of compressors must be approved by Owner for exhaust and noise considerations. Location of compressors must be approved by Owner for exhaust and noise considerations.

Compressors must have an in-line carbon monoxide monitor and periodic inspection of carbon monoxide monitors must be documented. Documentation of adequacy of compressed air systems/respiratory protection systems must be retained on site. This documentation will include a list of compatible components with the maximum number and type of respirators that may be used with the system. Periodic testing of compressed air shall insure that systems provide air of sufficient quality (Grade D breathing air). Documentation of this testing, including a description of the process used to perform the test and results of each test must be submitted to the Owner's CAC weekly.

Whenever powered air-purifying respirators are required, a sufficient supply of replacement batteries and HEPA filter cartridges shall be provided to the workers. Spare fully charged batteries must be available on-site for replacement. The flow rate delivered to the face piece shall be checked and recorded by the Contractor on the sheet provided by the Owner's CAC each time a worker dons the respirator. Written respiratory protection program must detail how this testing is to be performed by each employee or the onsite supervisor. The Contractor shall ensure that the flow rate for PAPRs meets the requirements listed in 8 CCR 1544 regarding tight and loose fitting respirators as appropriate. The Contractors shall also ensure that PAPRs are worn, checked and maintained according to the directions of the manufacturer.

During encapsulation operations or usage of other organic base aerosols (e.g. spray glue, expanding foam, etc.) workers shall be provided with combination organic vapor/HEPA filter respirator cartridges.

**SECTION 10. PERSONNEL PROTECTION REQUIREMENT AND TRAINING**

Prior to commencement of abatement activities all personnel who will be required to enter the work area or handle containerized asbestos containing materials must have received adequate training in accordance with the OSHA, EPA AHERA, EPA NESHAP and DTSC regulations.

All personnel performing asbestos related work shall possess a current accreditation certificate as an asbestos worker or contractor/supervisor as described in 40 CFR Part 763, Appendix C to subpart E, Asbestos Model Accreditation Plan.



Special on-site training on equipment and procedures unique to this job site shall be performed by the Contractor as required or recommended by the equipment manufacturer.

The Contractor shall provide training in emergency response and evacuation procedures.

Disposable clothing, including head, foot and full body protection, shall be provided in sufficient quantities and adequate sizes for all workers and authorized visitors. Damaged coveralls shall be immediately repaired or replaced.

Hard hats, protective eye-wear, safety shoes, proper protective gloves, rubber boots and/or other footwear shall be provided by the Contractor as required for workers and authorized visitors.

Contractor personnel shall not wear street clothes or clothes of any type underneath the protective disposable clothing during any Class I work where showering is required. Upon exiting the work area, no items worn in the work area, such as clothing, personal protective gear, footwear, or hair coverings will be allowed to be worn past the shower of the decontamination unit. Contractor workers have the option of wearing disposable undergarments or a bathing suit underneath protective disposable clothing.

Each time the worker(s) enter the work area they will don new disposable clothing. Street clothes, including but not limited to, underwear and street shoes shall not be allowed inside the work area, except during visual clearance activities.

The Owner's CAC may use personal judgement to allow authorized personal to wear street clothes under protective clothing during the construction of final visual or other short-duration visits into the regulated area during times which asbestos is not being disturbed and gross debris is not present.

## **SECTION 11. WORKER DECONTAMINATION ENCLOSURE SYSTEMS**

Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. Enclosure systems may be constructed out of metal, wood or plastic support as appropriate. Plans for construction, including materials and layout, shall be submitted as shop drawings and approved, in writing, by the Owner or its representative prior to work initiation. Detailed descriptions of portable, prefabricated units, if used, must be submitted for the Owner's approval. The worker decontamination enclosure system shall consist of at least a clean room, a shower room, and an equipment room and shall be constructed with at least 6 mil fire rated plastic sheeting.

All decontamination units and pressure differential units located outside the building shall be enclosed with a 2"x 4" wood studs and ½" plywood enclosure for security. Pressure differential units shall be secured as necessary to the building or ground. Exhaust openings shall have metal grates to prevent objects from being put into the exhaust openings. Pressure differential exhaust shall be exhausted to an area acceptable to the Owner or Owner's CAC.

Entry and exit from the worker decontamination enclosure system shall be through doorways designed to restrict air movement between chambers when not in use by either means of overlapping plastic or by means of zippers. In all hospital settings, only zippered doors are acceptable between all decontamination chambers or anterooms. The dirty side shall have an extra layer of 6 mil poly sheeting on the floor as a "boat layer" and it shall be replaced at least daily.

The clean room shall be designed and sized and equipped to adequately accommodate the size of the work crew for their change of clothes, cleaning supplies and respiratory protection equipment. Lighting, heat and electricity shall be provided as necessary for comfort. The clean room space shall not be used for storage of tools, equipment or materials or as office space.

A shower is required on any project that involves removal of greater than 25 linear feet of asbestos containing TSI or greater than 10 square feet of asbestos containing surfacing material. In addition, if the scope of works dictates a shower these provisions shall also apply. The shower room shall contain one or more showers as necessary to adequately accommodate workers. The shower enclosure shall be constructed to ensure against leakage of any kind. In addition, the shower shall be a separate unit from the decontamination unit walls. The shower unit cannot be made from poly. Metal or hard plastic is acceptable. An adequate supply of soap, shampoo and towels shall be supplied by the Contractor and available at all times for use by employees. Shower water shall be drained, collected and filtered through a system with at least 5.0 micron particle size collection capability.

The shower pan in the shower chamber shall be, at least, 3' x 3' in size. The shower chamber shall be constructed so that no water from the shower can spray out of the chamber, nor any water run down the sides of the poly and miss the pan. The shower chamber dimensions shall be determined by the size of the shower pan but are not to be smaller than 3' wide by 3' long by 6' tall.

Multiple showers are required if the number of asbestos workers exceeds ten per Title 8 3366 Washing Facilities. When there are less than five employees, the same shower may be used by both sexes if the shower room can be locked from the inside. A minimum of two showers will be required for more than 10 workers.

Each decontamination chamber shall have, at least, a 4" lip of poly from the floor up the wall to prevent possible transfer of water and debris between chambers. Excess poly at the corners of this floor is to be fitted to the sides of the chamber by folding poly and taping, as opposed to cutting away excess poly and taping seams. In addition to this 4" lip of poly, the shower chamber shall have an overflow pan, in which the shower unit sits inside, that is capable of holding sufficient water in the event of an overflow. The filter system and any hose connections transferring contaminated water shall be located in a secondary containment, such as a metal pan. Any water leakage shall be collected and either filtered or placed into waste bags with other asbestos waste debris.

Unless otherwise specified in the scope of work, the minimum size of the decontamination chambers shall be the following:

Clean Room	3' x 3'
Shower	3' x 3'
Dirty Room	3' x 3'

Abatement work will be stopped if decontamination unit is not kept in acceptable condition.

Storage or consumption of food and/or beverages shall not be permitted inside the containment or within any of the decontamination chambers. Food or drink consumption within containment will result in the dismissal of the worker from the site.

Whenever and wherever possible, the Contractor shall enclose multiple rooms within a building or wing into a single containment. Where rooms are joined by a common interior hallway or have a common exterior walkway, multiple spaces shall be joined together creating one containment using poly enclosures. When multiple rooms in a building do not have a common interior hallway, multiple rooms shall be joined using a common work chamber built by the Contractor. The common work chamber shall be constructed of wood studs and plywood sheeting for security purposes, and shall be part of the decontamination chamber. Decontamination units and joined "common areas" outside of a building shall have lockable doors or gates created with temporary fencing for security during off-hours.

**SECTION 12. WORKPLACE ENTRY AND EXIT PROCEDURES**

All workers and authorized personnel shall enter the work area through the worker decontamination enclosure system.

All personnel who enter the work area must sign the entry log, located in the clean room. This log shall have space for the workers name, time in, time out, and be identified with the project name, date, and containment location.

All personnel, before entering the work area, shall read and be familiar with all posted regulations, personal protection requirements, workplace entry and exit procedures, and emergency procedures.

For Class I work, the worker shall proceed first to the clean room and remove all street clothes and don appropriate respiratory protection and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be worn, as appropriate. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the work area. There shall be a location for storage of the street clothes in the clean room.

Personnel wearing designated personal protective equipment shall proceed from the clean room through the shower room and equipment room to the main work area.

Before leaving the work area all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing and/or wet-wiping procedures. HEPA vacuums with brush attachments may be utilized for this purpose.

The worker shall proceed into equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into an appropriately labeled container for disposal.

Reusable, contaminated footwear such as rubber boots shall be stored in the equipment room when not in use in the work area. This footwear shall be cleaned prior to being removed from the work area. Placing footwear in two sealed 6 mil poly bags is sufficient for moving from one containment to another, but not for moving from one site to another.

Still wearing respirators, personnel shall proceed into the shower area, clean the outside of the respirators and the exposed face area under running water prior to removal of respirator, then shower and shampoo to remove residual asbestos contamination. Various types of respirators will require slight modification of these procedures.

After showering, proceed to the clean room to dry and put on the street clothes.

**SECTION 13. DIFFERENTIAL AIR PRESSURE SYSTEMS**

**Part 13.1 - Negative Pressure Requirements**

Negative pressure shall be maintained at 0.030" water differential at all times during abatement activities, including entry/exit and bag out procedures. Contractor shall assign crew members to determine cause of loss of pressure any time containment's negative pressure drops below 0.030" water differential. All work will be stopped in any containment for which the negative pressure drops below 0.025" water differential, until problem is resolved and pressure returns to 0.030" water differential or better.

In the event that containment cannot be brought up to 0.030" water differential, abatement contractor must increase number of negative pressure differential units until a calculated 10 air changes per hour is taking place. The Owner's CAC will assist and review possible remedies to the negative pressure requirement.