RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

ADDENDUM NO. 01

Bid #1478 Exterior Improvements
at
Centennial Education Center

Address: 2900 West Edinger Avenue, Santa Ana, CA 92706

Project ID #2914.1

August 22, 2025

Owner:
Rancho Santiago Community College District
2323 North Broadway, Room 112
Santa Ana, California 92706

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON BID FORM WHEN SUBMITTED

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named on the previous page and all other conditions shall remain the same. The Bidders shall be responsible for transmitting this information to all affected Subcontractors and Suppliers, prior to the closing of Bids. Prospective Bidders shall acknowledge receipt of all Addenda in the space provided on the Bid Proposal Form by the number (list every addenda). Failure to do so shall deem the Bid Proposal as non-responsive and subject the Bidder to disqualification.

Item No. AD 1-1 Changes to Scope of Work

- Any and all scope of work associated with **Building B** is deleted in its entirety.
- No work is required on the existing chain link fencing, except for removing the chain link slots in the rear of Building E and installing vinyl heavy-duty wind screen.
- Siding Repair Revisions: 1) Remove and replace all damaged siding indicated in the plans. Install new weather-resistant paper barrier at locations where siding is to be removed and replaced. 2) Replacement siding shall match the T1-11 plywood panels in dimension, material, and finish. Reinstall new siding using the existing fastener method. Notify the District Project Manager of any structural concerns discovered during the removal and replacement of the siding. Don't modify or remove any structural components.

Item No. AD 1-2 Additional Specification

- Vinyl Wind Screen

Item No. AD1-3 Lead Paint Survey Report & Abatement Plan

Item No. AD 1-4 Responses to Questions

The following provides a response to the Bidder's Request for Pre-Bid Information submitted on the Pre-Bid Clarification Form. See attached for a total of (3) RFI Response(s).

Enclosed:

- RFI Responses #001 - #003
- Attachment B (Specification)
- Attachment C (Lead Paint Survey Report & Abatement Plan

This is the end of Addendum No. 1

AD 1-2

Vinyl Wind Screen Specification

1. Scope
Provide and install vinyl wind screen on existing chain link fence in the rear of Building E (see photo attached). The wind screen shall be durable, weather-resistant, and suitable for outdoor use in commercial/educational environments.

2. Material

- **Fabric:** High-density polyethylene (HDPE) or vinyl-coated polyester.
- **Weight:** Minimum 9 oz/yd².
- **Color:** Blue
- **UV Protection:** 90% or higher UV blockage to prevent fading and degradation.
- **Perforation:** 1–3% to 5% open area for wind resistance, unless specified otherwise.

3. Dimensions

- Width and length to match existing chain link fence openings.
- Edges shall be hemmed with reinforced stitching.
- Grommets spaced at maximum 12-inch intervals along top, bottom, and sides for secure attachment.

4. Installation

- Remove existing chain link wood slots as required.
- Attach wind screen to chain link fence using durable metal or UV-resistant zip ties, hooks, or other approved fasteners.
- Ensure wind screen is taut and secure without sagging.

5. Performance

- Wind screens shall withstand wind loads per local code requirements.
- Material shall resist mildew, tearing, and fading for at least 5 years.

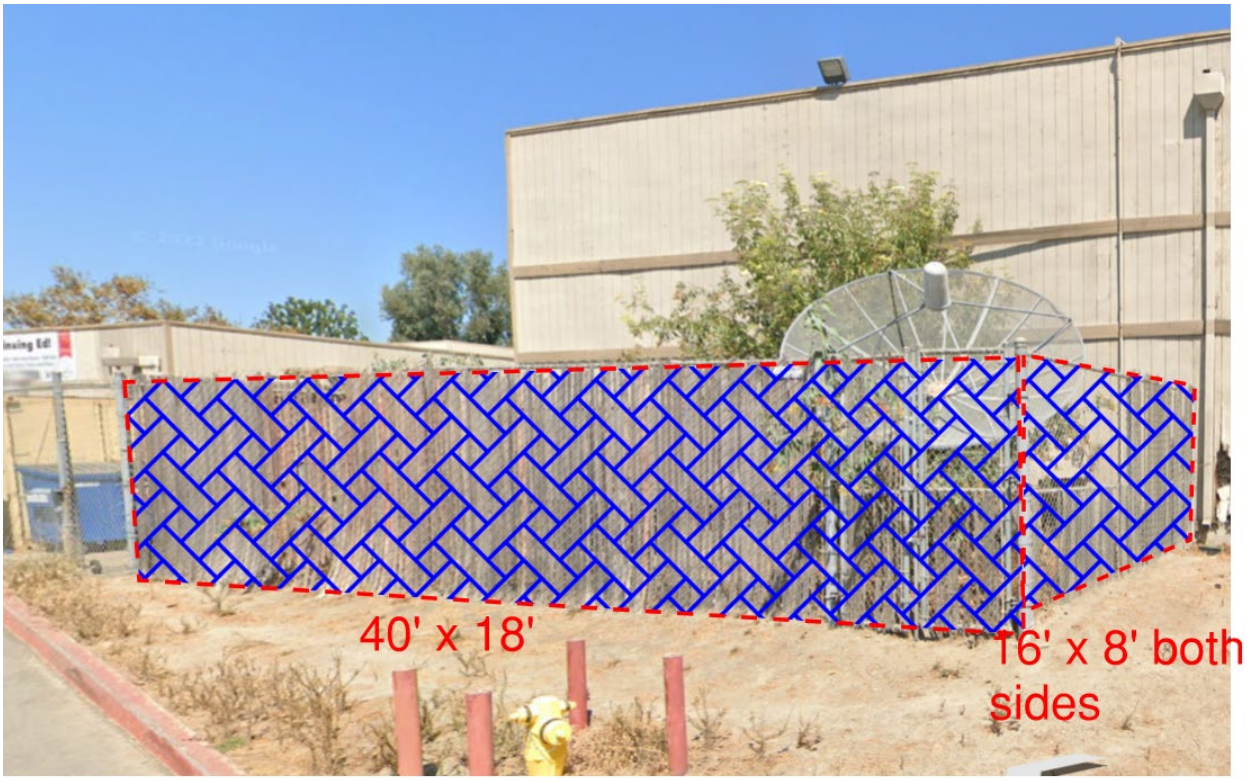
6. Warranty

- Manufacturer shall provide a minimum 5-year warranty against material defects and UV degradation.

7. References

- ASTM D4595 – Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.

- ASTM D5035 – Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method).



Building E

PRE-BID CLARIFICATION FORM

(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Exterior Improvements Project at Centennial Education Center		
PROJECT NUMBER:	2914.1	BID NUMBER:	1478
EMAIL TO: facilitiesbid@rsccd.edu			
DATE:	08/13/2025		
FROM:	Ankor Associates Inc.	EMAIL:	Noah@ankorassociates.com
SPEC SECTION:		DRAWING NUMBER:	Building A & G; Chain Link Fence

REQUESTED CLARIFICATION:

1) During the job walk, the Project Manager mentioned Signage painting located in Building A. However I have noticed damages to the signage in Building G. Would you like us to quote for that as well?

RESPONSE TO CLARIFICATION:

Signage associated with Building G is excluded from the scope of work.
Responded by the District 8/21/25

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Exterior Improvements Project at Centennial Education Center		
PROJECT NUMBER:	2914.1	BID NUMBER:	1478
EMAIL TO: facilitiesbid@rsccd.edu			
DATE:	08/13/2025		
FROM:	Ankor Associates Inc.	EMAIL:	Noah@ankorassociates.com
SPEC SECTION:		DRAWING NUMBER:	Building A & G; Chain Link Fence

REQUESTED CLARIFICATION:

It is mentioned in the spec sheet that we will be doing work on the window fence and Wrought iron fence. Will there be any work done on the existing Chain Link Fence?

RESPONSE TO CLARIFICATION:

No work is required on the existing chain link fence, except for removing the chain link slots at the rear of Building E and installing vinyl heavy-duty wind screen. Work on the window fence and wrought iron fence remains as specified. Refer to the attached specifications for the vinyl wind screen.
Responded by the District 8/21/25.

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

PRE-BID CLARIFICATION FORM

(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)

PROJECT NAME:	Exterior Improvements Project at Centennial Education Center		
PROJECT NUMBER:	2914.1	BID NUMBER:	1478
EMAIL TO: facilitiesbid@rsccd.edu			
DATE:	08/13/2025		
FROM:	Ankor Associates Inc.	EMAIL:	Noah@ankorassociates.com
SPEC SECTION:		DRAWING NUMBER:	Building A & G; Chain Link Fence

REQUESTED CLARIFICATION:

Please advise the Engineer Estimate for this Project.

RESPONSE TO CLARIFICATION:

Engineer's Estimate range for the project is between $200,000 to $300,000.
Responded by the District 8/21/25

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

Limited Lead Paint Survey Report

Santa Ana College
School of Continuing Education at Centennial Education Center
Exterior Improvements Project
2900 West Edinger Avenue
Santa Ana, California 92704

Prepared For:

Ms. Ava Hill, Facilities Project Manager
Rancho Santiago Community College District
2323 North Broadway, Suite 112
Santa Ana, California 92706

Prepared By:

CES Environmental Consultants, Inc.
6741 Friends Avenue, Suite B
Whittier, California 90601
(323) 899-2488

CES Project Number: 25-RSCCD.02

July 30, 2025

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1.0 INTRODUCTION AND BACKGROUND

At the request of the Rancho Santiago Community College District, CES Environmental Consultants, Inc. (CES) conducted lead in paint sampling throughout the exterior of buildings at the Santa Ana College School of Continuing Education at Centennial Education Center (CEC).

The scope of the survey was limited to the areas anticipated to be impacted for the upcoming exterior improvements project.

If other suspect materials/paints are found during the project in the project areas that were not included in our survey, or if the scope of work is expanded beyond the areas surveyed during this project, the contractor must stop work until the materials/paints are properly sampled, assessed, and analyzed for lead content.

2.0 METHODOLOGY

The survey included the following:

- Survey of suspect painted surfaces.
- Physical assessment of painted surfaces.
- Collection of representative bulk paint samples.
- Submission of bulk samples collected to an accredited laboratory for lead analysis.
- Preparation of a survey report with results, recommendations, conclusions and limitations.

2.1 Survey

On July 25, 2025, CES representative, Mr. Fabian Ruvalcaba, a State of California, Department of Public Health (CDPH) Certified Lead Inspector Assessor conducted the limited sampling.

CES conducted the survey by collecting paint chip samples and using a portable X-Ray Fluorescence (XRF) lead-paint analyzer to collect readings of representative painted surfaces.

2.2 XRF Testing and Analysis

Portable XRF spectrum analyzer (Thermo Niton XLp 300) was used to collected readings of representative painted surfaces. Field calibration checks were performed prior, during and after each XRF lead inspection to determine that the device was functioning within acceptable limits (tolerance) determined by the manufacturer. Three readings of a red 1.04 mg/cm² Standard Reference Material (SRM) paint film, developed by the ThermoFisher Scientific were collected. The XRF unit was determined to be functioning within proper operating parameters for this project.

2.3 Bulk Sampling Protocol

Paint chip samples were collected to determine the weight percent concentration in the painted surfaces for construction safety as defined by Title 8 California Code of Regulations (CCR) Section 1532.1. Paint chip samples analysis was conducted as per the Environmental Protection Agency (EPA) Method SW846/7420 by a laboratory accredited by the Environmental Laboratory Accreditation Program.

For the purpose of this survey and inspection, lead in paint is defined as described below:

- **Lead-Based Paint (LBP),** according to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8), US Environmental Protection Agency (EPA), and US Department of Housing and Urban Development (HUD) is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm^2 of surface area using X-Ray Fluorescence (XRF) testing or 5,000 parts per million (ppm) (0.5 percent by weight) by paint chip analysis. The County of Los Angeles Department of Public Health Services, Childhood Lead Poisoning Prevention Program, has defined "dangerous levels of lead-bearing substances" as paint or other surface coating with lead content greater than 0.7 mg/cm^2 (Los Angeles County). Lead related work impacting LBP is subject to the requirements of all the above-mentioned regulations, furthermore, when disturbed for construction purposes, the work is also subject to the State of California, Occupational Safety and Health Administration (CAL-OSHA) *Title 8 CCR, Section 1532.1(d) requirements.*

- **Lead-Containing Paints (LCP)** according to Cal-OSHA *Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis, this may include lead paint samples reported by the laboratory below the laboratory "Reporting Limit" (RL). When disturbed for construction purposes, the work is subject to the CAL-OSHA *Title 8 CCR, Section 1532.1(d) requirements.*

3.0 RESULTS

Table I- XRF Lead Testing Results

Sample No.	Color	Substrate	Component	Location	Result (mg/cm2)	Condition
All collected samples were reported below 1.0 mg/cm2. Refer to Appendix A "XRF Data Sheet" for a complete list of all components tested.						

Table II- Lead Paint Chip Analytical Results

Sample No.	Color	Substrate	Component	Location	Result (mg/kg)	Condition
PC-1	Beige	CM	Wall	Building A- Exterior	<200	Damaged 450 Square Feet (SF)
PC-2	Brown	CM	Wall	Building A- Exterior	<200	Intact
PC-3	Beige	Metal	Downspout	Building A- Exterior (Gutter and downspout)	<200	Intact
PC-4	Brown	Metal	Window Casing	Building A- Exterior	<200	Intact
PC-5	Beige	Wood	Window Trim	Building A- Exterior	<200	Intact
PC-6	Beige	Metal	Window Sill	Building A- Exterior	<200	Intact
PC-7	Beige	Metal	Door	Building A- Exterior	<200	Intact
PC-8	Brown	Metal	Door Casing	Building A- Exterior	<200	Intact
PC-9	Beige	Wood	Siding	Building A- Exterior	<200	Intact
PC-10	Beige	Wood	Trim	Building A- Exterior	<200	Intact
PC-11	Brown	Metal	Support Post	Building A- Exterior	<200	Intact
PC-12	**Brown**	**Metal**	**Gate**	**Building A- Exterior**	**977**	**Intact**

Sample No.	Color	Substrate	Component	Location	Result (mg/kg)	Condition
PC-13	Brown	Metal	Awning	Building A- Exterior	<200	Damaged 10 SF
PC-14	Beige	Wood	Door	Building A- Exterior	<200	Intact
PC-15	Brown	Metal	Flashing	Building A- Exterior	<200	Intact
PC-16	**Beige**	**Metal**	**Gate**	**Building B- Exterior**	**335**	**Damaged 10 SF**
PC-17	Beige	Wood	Wall	Building B- Exterior	<200	Damaged 450 SF
PC-18	Brown	Wood	Trim	Building B- Exterior	<200	Damaged 100 SF
PC-19	**Brown**	**Metal**	**Window Casing**	**Building B- Exterior**	**542**	**Intact**
PC-20	Brown	Metal	Window Sill	Building B- Exterior	<200	Intact
PC-21	Beige	Metal	Downspout	Building B- Exterior	<200	Intact
PC-22	Beige	Concrete	Foundation	Building B- Exterior	<200	Intact
PC-23	Beige	Metal	Conduit	Building B- Exterior	<200	Intact
PC-24	Beige	Wood	Door	Building B- Exterior	<200	Intact
PC-25	Brown	Metal	Door Casing	Building B- Exterior	<200	Intact
PC-26	Brown	Metal	Awning	Building B- Exterior	<200	Damaged 50 SF
PC-27	Brown	Metal	Flashing	Building B- Exterior	<200	Intact
PC-28	Brown	Metal	Support Post	Building B- Exterior	<200	Intact
PC-29	Beige	Wood	Wall	Building E, F, G- Exterior	<200	Damaged 1,200 SF
PC-30	Brown	Wood	Trim	Building E, F, G- Exterior	<200	Damaged 600 SF
PC-31	Beige	Metal	Door	Building E, F, G- Exterior	<200	Intact
PC-32	Brown	Metal	Door Casing	Building E, F, G- Exterior	<200	Intact
PC-33	Beige	Metal	Downspout	Building E, F, G- Exterior (Downspout and gutters)	<200	Damaged 100 SF
PC-34	Beige	Concrete	Foundation	Building E, F, G- Exterior	<200	Damaged 100 SF
PC-35	Brown	Metal	Awning	Building E, F, G- Exterior	<200	Damaged 250 SF
PC-36	Brown	Metal	Flashing	Building E, F, G- Exterior	<200	Damaged 60 SF
PC-37	Brown	Metal	Window Casing	Building E, F, G- Exterior	<200	Intact
PC-38	**Brown**	**Metal**	**Window Sill**	**Building E, F, G- Exterior**	**377**	**Damaged 60 SF**
PC-39	Brown	Metal	Post	Building E, F, G- Exterior	<200	Intact
PC-40	Brown	Metal	Handrail	Building E, F, G- Exterior	<200	Intact
PC-41	Beige	Wood	Door	Building E, F, G- Exterior	<200	Intact
PC-41A	Beige	Metal	Column	Building E, F, G- Exterior	<200	Intact
PC-42	Brown	Metal	Beam	Building E, F, G- Exterior	<200	Intact

Sample No.	Color	Substrate	Component	Location	Result (mg/kg)	Condition
PC-43	Beige	Metal	Gate	Perimeter gates by Building E, F, G	<400	Damaged 100 SF
PC-44	Beige	CM	Column	Exterior walkway between Building A and F	<200	Intact
PC-45	Beige	Metal	Downspout	Exterior walkway between Building A and F	<300	Intact
PC-46	Beige	Metal	Flashing	Exterior walkway between Building A and F	<200	Intact
PC-47	Beige	Wood	Ceiling	Exterior walkway between Building A and F	<200	Intact
PC-48	Brown	Wood	Beam	Exterior walkway between Building A and F	<200	Intact
PC-49	**Brown**	**Metal**	**Support Bracket**	**Exterior walkway between Building A and F**	**12,756**	**Intact**
PC-50	Brown	Wood	Column	Patio- Exterior	<200	Intact
PC-51	Brown	Wood	Beam	Patio- Exterior	<400	Intact
PC-52	Brown	Wood	Ceiling	Patio- Exterior	<200	Intact
PC-53	Brown	Metal	Downspout	Patio- Exterior (Gutter and downspout)	<300	Intact
PC-54	Brown	Wood	Flashing	Patio- Exterior	<400	Intact
C-1	Beige/brown	Metal	Downspout	Building C- Exterior	<200	Damaged 30 SF
C-2	Beige	Metal	Column	Building C- Exterior	<200	Intact
C-3	Brown	Metal	Beam	Building C- Exterior	<200	Intact
C-4	Beige	Wood	Wall	Building C- Exterior	<200	Damaged 300 SF
C-5	Brown	Wood	Wall Trim	Building C- Exterior	<200	Damaged 300 SF
C-6	Brown	Metal	Door Casing	Building C- Exterior	<200	Intact
C-7	Beige	Metal	Door	Building C- Exterior	<200	Intact
C-8	**Beige**	**Metal**	**Handrail**	**Building C- Exterior**	**254**	**Intact**
C-9	Beige	Metal	Flashing	Building C- Exterior	<200	Intact
C-10	Brown	Wood	Post	Building C- Exterior	<200	Intact
C-11	Brown	Wood	Beam	Building C- Exterior	<200	Intact
C-12	Brown	Wood	Ceiling/ joist	Building C- Exterior	<100	Intact
C-13	**Brown**	**Metal**	**Window Sill**	**Building C- Exterior (Windows and sills)**	**399**	**Damaged 10 SF**
D-1	Beige	Wood	Wall	Building D- Exterior	<200	Damaged 100 SF
D-2	Brown	Wood	Trim	Building D- Exterior	<200	Damaged 100 SF
D-3	Brown	Metal	Door	Building D- Exterior	<200	Intact
D-4	Brown	Metal	Door Casing	Building D- Exterior	<200	Intact
D-5	Brown	Metal	Awning	Building D- Exterior	<200	Damaged 8 SF
D-6	Beige	Concrete	Foundation	Building D- Exterior	<200	Damaged 10 SF

Sample No.	Color	Substrate	Component	Location	Result (mg/kg)	Condition
D-7	Brown	Metal	Window	Building D- Exterior	<200	Damaged 10 SF
D-8	Brown	Metal	Gate	Building D- Exterior	<200	Damaged 100 SF
D-9	Beige	Metal	Downspout	Building D- Exterior (Gutter and downspout)	<200	Damaged 40 SF
D-10	Beige	Metal	Column	Building D- Exterior	<200	Intact
D-11	Brown	Metal	Beam	Building D- Exterior	<200	Intact
D-12	Brown	Metal	Flashing	Building D- Exterior	<200	Intact

CMW- Cement Masonry

- **Highlighted and bolded paints are defined as LBP.**
- **Bolded paints are defined as LCP.**

4.0 RECOMMENDATIONS

Lead-Based Paint (LBP) and Lead-Containing Paint (LCP) was reported in the samples/readings collected. Removal of LBP is subject to the California Department of Public Health requirements. For construction purposes, removal of both LBP and LCP is subject to Cal/OSHA Title 8 CCR, Section 1532.1(d), worker exposure requirements All lead waste must also be properly characterized, profiled, and disposed of in an approved waste disposal facility.

CES recommends that engineering controls, respiratory protection and personal protective equipment be used at the start of any project that disturbs painted surfaces until compliance with 1532.1 can be documented through the use of representative air sampling data.

The laboratory results included in Appendix A in this report supersede the results listed in Table II . CES recommends that the user of this report reviews and understands the results, conclusions and recommendations prior to conducting any work which may disturb painted surfaces.

5.0 CONCLUSIONS AND LIMITATIONS

The survey was conducted with the standard of care ordinarily exercised by qualified and reputable members of the environmental/industrial hygiene profession based on conditions and practices observed at the property and information provided to CES related to the project and/or purpose of the survey at the time of the investigation.

Concealed and inaccessible suspect lead paints that were not visible during the survey may be present in walls and ceiling void spaces. If another suspect lead paint that was previously concealed and inaccessible is discovered, CES recommends that work stops until those paints are sampled by analyzed for lead content by an accredited laboratory.

CES will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report, expressed or implied.

CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

This report was based on the conditions observed on the day the field survey was completed. If changes have occurred, including but not limited to; The use of the property, additional relevant information is discovered that was not available for review in preparation for this survey, or if regulatory changes have occurred, the results and recommendations included in this report may not be valid. CES recommends that prior to conducting any new work activity that may disturb a suspect lead paint, that the paint be sampled by a qualified individual and analyzed for lead content by an accredited laboratory.

Material quantities included in this report are of observed material and provided as a best estimate for information only and shall not be used as a reliable quantity by any contractor for preparing removal bids. The contractor shall be solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid.

The owner is responsible for the distribution of information regarding lead in paint to co-owners, tenants, employees, contract workers, or others who may contact the painted surfaces.

If you have any questions or concerns, feel free to contact the undersigned at (323) 899-2488.

This report was prepared by:

Elmer Ivan Castro
CDPH Lead Inspector/Assessor
CES Environmental Consultants, Inc.

APPENDIX A:

LEAD ANALYTICAL DATA/CHAIN OF CUSTODY FORM

6741 Friends Avenue,
Suite B
Whittier, California 90601
562-693-3055
cesenviron.com

2516053

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	RSCCD	Project Name:	CEG - Santa Ana Campus	Technician:	Fabian Rovalcaba
Location:	2900 W. Edinger Ave Santa Ana, CA	Project Number:		Date:	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
PC-1	Beige	CMU	Wall	Bldg A - Exterior - N/E	Bldg A - Exterior	Damaged	450 sq ft (Large Cracks and Flaking)
-2	Brown	CMU	Wall	- N/E		Intact	—
-3	Beige	Metal	Downspout	- N/W	(Gutter; Downspout)		—
-4	Brown	Metal	Window Case	- N/E			—
-5	Beige	Wood	Window Trim	- N/E			—
-6	Beige	Metal	Window Sill	- W/E			—
-7	Beige	Metal	Door	- W/E			—
-8	Brown	Metal	Door Casing	- W/E			—
-9	Beige	Wood	Siding	- W/E			—
-10	Beige	Wood	Trim	- W/E			—
-11	Brown	Metal	Support Post	- N/E			—
-12	Brown	Metal	Gate	- N/E			—
-13	Brown	Metal	Awning	- E/W		Damaged	10 sqft
-14	Beige	Wood	Door	- "		Intact	—
-15	Brown	Metal	Flashing	- S/W		"	—

Analysis Requested:	Flame AA	Turnaround Time:	3 day
Relinquished By:	Fabian Rovalcaba	Date & Time:	7-25-2025 1155
Received By:	Chuck Hashimoto	Date & Time:	07/28/25 12:00PM

6741 Friends Avenue.
Suite B
Whittier, California 90601
562-693-3055
cesenviron.com

2516053

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	RSCCD	Project Name:	CEG - Santa Ana Campus	Technician:	Fabian Rincon
Location:	2900 W. Edinger Ave Santa Ana, CA	Project Number:		Date:	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
RC-16	Beige	Metal	Gate	Bldg B - Exter - N/E	Bldg B	Damaged	10 sq ft
-17	↓	Wood	Wall	- N/E		Damaged	450 sq ft
-18	Brown	Wood	Trim	- N/E		Damaged	100 sq ft
-19	Brown	Metal	Window Case	- N/W		Partially Intact	—
-20	↓	↓	+ Sill	- N/W		↓	
-21	Beige	Metal	Downspout	- N/E			—
-22	Beige	Concrete	Foundation	- N/W			—
-23	Beige	Metal	Conduit	- N/W			—
-24	↓	Wood	Door	- W/S			—
-25	Brown	Metal	Door Case	- W/S			—
-26	↓	↓	Awning	- W/S		Damage	50 sq ft
-27	↓	↓	Flashing	- W/S		Intact	—
-28	Brown	Metal	Support Post	↓ - E/S	↓		

Analysis Requested:	Flame AA	Turnaround Time:	5 day
Relinquished By:	Fabian Rincon	Date & Time:	7-25-2025 1155
Received By:	Chase Hashimoto	Date & Time:	07/25/25 12:00pm

6741 Friends Avenue,
Suite B
Whittier, California 90601
562-693-3055
cesenviron.com

2516053

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	RSCCD	**Project Name:**	CEG - Santa Ana Campus	**Technician:**	Fabian Ruvalcaba
Location:	2900 W. Edinger Ave Santa Ana, Ca	**Project Number:**		**Date:**	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
C-1	Beige/Brown	Metal	Downspout	Bldg C2 - N/E	C Bldgs	Damaged	50 sqft
-2	Beige	Metal	Column	Bldg C2 - N/E		Intact	—
-3	Brown	"	Beam	" - "		"	—
-4	Beige	wood	wall	Bldg C1 - E/C		Damaged	300 sqft
-5	Brown	wood	wall Trim	" - "		"	"
-6	"	Metal	Door Case	" - "		Intact	—
-7	Beige	Metal	Door	" - "		"	—
-8	Beige	Metal	Handrail	Bldg C3 - W/C		Intact	—
-9	Beige	Metal	flashing	" - W/C			—
-10	Brown	wood	Post	Bldg C1 - S/E			—
-11	"	wood	Beam	" - S/C			—
-12	"	"	Ceiling/Joist	" - "			—
-13	Brown	Metal	Window Sills	" - "	Windows Sills	Damaged	10 sqft

Analysis Requested:	Flame AA	**Turnaround Time:**	3 day
Relinquished By:	Fabian Ruvalcaba	**Date & Time:**	7-25-2025 1155
Received By:	Chem Hashimoto	**Date & Time:**	07/25/25 12:40PM

2556 W Woodland Dr Anaheim, CA 92801 I Tel:(562) 860-2201 I www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 22900 West Edinger Avenue, Santa Ana, CA, USA

Report Status: Final Report
Lab Batch #: 2516053
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 41
Samples Analyzed: 41
Bench Run No: 61276

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
251605301	PC-1	0.1158	0.02	<200	<0.02
251605302	PC-2	0.1272	0.02	<200	<0.02
251605303	PC-3	0.1011	0.02	<200	<0.02
251605304	PC-4	0.1218	0.02	<200	<0.02
251605305	PC-5	0.1033	0.02	<200	<0.02
251605306	PC-6	0.0800	0.03	<300	<0.03
251605307	PC-7	0.1180	0.02	<200	<0.02
251605308	PC-8	0.1145	0.02	<200	<0.02
251605309	PC-9	0.1179	0.02	<200	<0.02
251605310	PC-10	0.1148	0.02	<200	<0.02
251605311	PC-11	0.1041	0.02	<200	<0.02
251605312	PC-12	0.0901	0.02	977	0.10
251605313	PC-13	0.1008	0.02	<200	<0.02
251605314	PC-14	0.1036	0.02	<200	<0.02
251605315	PC-15	0.1250	0.02	<200	<0.02
251605316	PC-16	0.1045	0.02	335	0.03
251605317	PC-17	0.1065	0.02	<200	<0.02
251605318	PC-18	0.1020	0.02	<200	<0.02
251605319	PC-19	0.1096	0.02	542	0.05
251605320	PC-20	0.1088	0.02	<200	<0.02
251605321	PC-21	0.1093	0.02	<200	<0.02
251605322	PC-22	0.1197	0.02	<200	<0.02

Lab Notes at Page 3

2556 W Woodland Dr Anaheim, CA 92801 I Tel:(562) 860-2201 I www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 22900 West Edinger Avenue, Santa Ana, CA, USA

Report Status: Final Report
Lab Batch #: 2516053
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 41
Samples Analyzed: 41
Bench Run No: 61276

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
251605323	PC-23	0.1042	0.02	<200	<0.02
251605324	PC-24	0.1226	0.02	<200	<0.02
251605325	PC-25	0.1182	0.02	<200	<0.02
251605326	PC-26	0.1157	0.02	<200	<0.02
251605327	PC-27	0.1009	0.02	<200	<0.02
251605328	PC-28	0.1199	0.02	<200	<0.02
251605329	C-1	0.1075	0.02	<200	<0.02
251605330	C-2	0.1212	0.02	<200	<0.02
251605331	C-3	0.1146	0.02	<200	<0.02
251605332	C-4	0.1126	0.02	<200	<0.02
251605333	C-5	0.1002	0.02	<200	<0.02
251605334	C-6	0.0810	0.02	<200	<0.02
251605335	C-7	0.1281	0.02	<200	<0.02
251605336	C-8	0.1038	0.02	254	0.03
251605337	C-9	0.1142	0.02	<200	<0.02
251605338	C-10	0.1080	0.02	<200	<0.02
251605339	C-11	0.1126	0.02	<200	<0.02
251605340	C-12	0.1390	0.01	<100	<0.01
251605341	C-13	0.1359	0.01	399	0.04

Lab Notes at Page 3

2556 W Woodland Dr Anaheim, CA 92801 I Tel:(562) 860-2201 I www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 22900 West Edinger Avenue, Santa Ana, CA, USA

Report Status: Final Report
Lab Batch #: 2516053
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 41
Samples Analyzed: 41
Bench Run No: 61276

Sampled By: Client

Analyzed by: Raydrew Chau **Signature:** **Date:** 07-25-2025

Reviewed by: Minh Phung **Signature:** **Date:** 07-25-2025

Notes:
Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000
RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm
Samples were prepared in accordance with EPA 3050B and analyzed with **EPA 7420** unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.
CA ELAP, Certification# 3070

2516055

562-693-3055
cesenviron.com

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	RSCCD	**Project Name:**	CEC - Santa Ana Campus	**Technician:**	Fabian Rosales
Location:	2900 W. Edinger Ave. Santa Ana, Ca	**Project Number:**		**Date:**	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
PC-29	Beige	Wood	Wall	Bldg E - N/E	Bldg E, F, G	Damaged	1200 sqft
-30	Brown	↓	Trim	↓ - N/W		↓	600 sqft
-31	Beige	Metal	Door	Bldg E - W/W		Intact	—
-32	Brown	↓	Frame	↓ - ↓		↓	
-33	Beige	L	Downspout	Bldg F - E/W	(Downspout/Gutters)	Damaged	100 sqft
-34	Beige	Concrete	Foundation	↓ - E/W		↓	100 sqft
-35	Brown	Metal	Awning	↓ - S/E		Damaged	250 sqft
-36	↓	↓	Flashing	Bldg G - N/W		Damaged	60 sqft
-37	Brown	Metal	Window Cover	Bldg F - S/E		Intact	
-38			↓ Sill	↓ - ↓		Damaged	60 sqft
-39	↓	↓	Post	↓ - S/C		Intact	—
-40	Brown	Metal	Handrail	Bldg F - E/W			—
-41	Beige	Wood	Door	Bldg E - N/W			—
-41A	↓	Metal	Column	Bldg G - N/E	(Bldg G)		—
-42	Brown	Metal	Beam	↓ - ↓	↓	↓	—

Analysis Requested:	Flame AA	**Turnaround Time:**	3 Day
Relinquished By:	Fabian Rosales	**Date & Time:**	7-25-2025 1155
Received By:	Audrey Aquino	**Date & Time:**	7-25-25 12:00

2516055

CES ENVIRONMENTAL CONSULTANTS
Whittier, California 90601
562-693-3055
cesenviron.com

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	LSCCD	**Project Name:**	CEC - Santa Ana Campus	**Technician:**	Fabian Ruvalcaba
Location:	2900 W. Edinger Ave Santa Ana, Ca	**Project Number:**		**Date:**	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
PC-43	Beige	Metal	Gate	By Bldg G - N/W	Perimeter Gates by Bldg E, F, G	Damaged	100 sq/ft
PC-44	Beige	CMU	Column	Walkway - N/W	Enter walk Way Between Bldg A & F	Intact	—
-45	Beige	Metal	Downspout	- N/W			—
-46	↓	↓	Flashing	- W/ctr			—
-47	Beige	Wood	Ceiling	- ctr			—
-48	Brown	Wood	Beam	- S/E			—
-49	Brown	Metal	Support Bracket	- S/E			—
-50		Wood	Column	Patio - W/ctr	Patio		—
-51			Beam	- ↓			—
-52		↓	Ceiling	- ctr			—
-53		Metal	Downspout	- N/W	(Gutter/Downspout)		—
-54			Flashing	- N/W			

Analysis Requested:	Flame AA	**Turnaround Time:**	3 day
Relinquished By:	Fabian Ruvalcaba	**Date & Time:**	7-25-2025 1155
Received By:	Audrey Aquino	**Date & Time:**	7-25-25 12:00

2556 W Woodland Dr Anaheim, CA 92801 I Tel:(562) 860-2201 I www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 2960 West Edinger Avenue, Santa Ana, CA 92704

Report Status: Final Report
Lab Batch #: 2516055
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 27
Samples Analyzed: 27
Bench Run No: 61282

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
251605501	PC-29	0.1082	0.02	<200	<0.02
251605502	PC-30	0.1020	0.02	<200	<0.02
251605503	PC-31	0.1104	0.02	<200	<0.02
251605504	PC-32	0.1019	0.02	<200	<0.02
251605505	PC-33	0.1075	0.02	<200	<0.02
251605506	PC-34	0.1059	0.02	<200	<0.02
251605507	PC-35	0.1089	0.02	<200	<0.02
251605508	PC-36	0.1021	0.02	<200	<0.02
251605509	PC-37	0.1047	0.02	<200	<0.02
251605510	PC-38	0.1114	0.02	377	0.04
251605511	PC-39	0.1142	0.02	<200	<0.02
251605512	PC-40	0.1031	0.02	<200	<0.02
251605513	PC-41	0.1145	0.02	<200	<0.02
251605514	PC-41A	0.1089	0.02	<200	<0.02
251605515	PC-42	0.1130	0.02	<200	<0.02
251605516	PC-43	0.0568	0.04	<400	<0.04
251605517	PC-44	0.1038	0.02	<200	<0.02
251605518	PC-45	0.0772	0.03	<300	<0.03
251605519	PC-46	0.0808	0.02	<200	<0.02
251605520	PC-47	0.1078	0.02	<200	<0.02
251605521	PC-48	0.1031	0.02	<200	<0.02
251605522	PC-49	0.1016	0.10	12756	1.28

Lab Notes at Page 2

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Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 2960 West Edinger Avenue, Santa Ana, CA 92704

Report Status: Final Report
Lab Batch #: 2516055
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 27
Samples Analyzed: 27
Bench Run No: 61282

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
251605523	PC-50	0.1082	0.02	<200	<0.02
251605524	PC-51	0.0520	0.04	<400	<0.04
251605525	PC-52	0.0841	0.02	<200	<0.02
251605526	PC-53	0.0665	0.03	<300	<0.03
251605527	PC-54	0.0482	0.04	<400	<0.04

Sampled By: Client

Analyzed by: Raydrew Chau **Signature:** **Date:** 07-28-2025

Reviewed by: Minh Phung **Signature:** **Date:** 07-28-2025

Notes:
Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000
RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm
Samples were prepared in accordance with EPA 3050B and analyzed with **EPA 7420** unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.
CA ELAP, Certification# 3070

Lab Notes at Page 2

2516054

562-693-3055
cesenviron.com

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	RSCCD	**Project Name:**	CEC - Santa Ana Campus	**Technician:**	Fabian Ruvalcaba
Location:	2900 W. Edinger Ave Santa Ana, Ca	**Project Number:**		**Date:**	7-25-2025

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
D-1	Beige	Wood	Wall	Bldg D - N/A	D - Bldgs	Damaged	100 sqft
-2	Brown	"	Trim	"	"	"	"
-3	Beige	Metal	Door	"	"	Intact	—
-4	Brown	"	Door Case	"	"	"	—
-5	Brown	"	Awning	" - N/A	"	Damaged	8 sqft
-6	Beige	Concrete	Foundation	" - N/W	"	"	10 sqft
-7	Brown	Metal	Window	" - N/W	"	Damaged	10 sqft
-8	Brown	Metal	Gate	" - N/E	"	Damaged	100 sqft
-9	Beige	Metal	Downspout	D-110 - N/W	(Gutter/Downspout)	Damaged	40 sqft
-10	Beige	Metal	Column	"	"	Intact	—
-11	Brown	Metal	Beam	"	"	"	—
-12	"	"	Flashing	"	"	"	—

Analysis Requested:	Flame AA	**Turnaround Time:**	24 hr
Relinquished By:	Fabian Ruvalcaba	**Date & Time:**	7-25-25 1155
Received By:	Audrey Aquino	**Date & Time:**	7-25-25 12:00

2556 W Woodland Dr Anaheim, CA 92801 I Tel:(562) 860-2201 I www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: 2900 West Edinger Avenue, Santa Ana, CA 92704

Report Status: Final Report
Lab Batch #: 2516054
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 12
Samples Analyzed: 12
Bench Run No: 61278

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
251605401	D-1	0.1211	0.02	<200	<0.02
251605402	D-2	0.1221	0.02	<200	<0.02
251605403	D-3	0.1031	0.02	<200	<0.02
251605404	D-4	0.1099	0.02	<200	<0.02
251605405	D-5	0.0875	0.02	<200	<0.02
251605406	D-6	0.1251	0.02	<200	<0.02
251605407	D-7	0.1221	0.02	<200	<0.02
251605408	D-8	0.1111	0.02	<200	<0.02
251605409	D-9	0.1119	0.02	<200	<0.02
251605410	D-10	0.1042	0.02	<200	<0.02
251605411	D-11	0.1044	0.02	<200	<0.02
251605412	D-12	0.1158	0.02	<200	<0.02

Sampled By: Client

Analyzed by: Minh Phung **Signature:** **Date:** 07-28-2025

Reviewed by: Zubair Ahmed **Signature:** **Date:** 07-28-2025

Notes:
Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000
RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm
Samples were prepared in accordance with EPA 3050B and analyzed with **EPA 7420** unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.
CA ELAP, Certification# 3070

APPENDIX B:

XRF FIELD DATA FORM/CDPH FORM 8552

ENVIRONMENTAL CONSULTANTS

XRF DATA SHEET

Client:	RSECD	**Project Name:**	Central Ed Center	**Technician:**	Fabian Rovalcaba
Location:	2900 W. Edinger Ave Santa Ana, Ca	**Project Number:**		**Date:**	7-25-2025

	Sample No.	Sample Location - Room Description	Color	Substrate (1)	Component	Side A,B,C,D	Paint Condition	Sample Results (mg/cm2)
PC-1	4	Bldg A	Beige	CMU	Wall	A	I	0.02
PC-2	5		Brown	CMU	Wall	A	I	0.01
PC-3	6		Beige	Metal	Gutter	A	I	0.00
PC-4	7		Brown	Metal	Window	A	I	0.04
PC-5	8		Beige	Wood	Trim window	A	I	0.00
PC-6	9		L	Metal	window sill	A	I	0.04
	10		Beige	CMU	Wall	B	I	0.01
PC-7	11		Beigh	Metal	Door	D	I	0.04
PC-8	12		Brown	Metal	Door casing	D	I	0.01
PC-9	13		Beigh	Wood	Siding	D	I	0.00
PC-10	14		Beigh	Wood	Trim	D	I	0.01
PC-11	15		Brown	Metal	Support post	B	I	0.01
	16		Brown	Metal	Gate	B	I	0.02
	17		Brown	Metal	Awning	B	I D	0.03
	18		Beige	Wood	Door	B	I	0.01
	19		Brown	Wood	Door casing	B	I	0.03
	20		Brown	Metal	Flashing	C	I	0.00
	21	Bldg B	Beige	Metal	Gate	A	I	0.05
	22		Beige	Wood	Wall	A	I	0.02
	23		Brown	Wood	Trim	A	I D	0.01
	24		Beige	Metal	Downspout	A	I	0.05
	25		Brown	Metal	Window	A	I	0.01
	26		Brown	Metal	window sill	A	I	0.01
	27		Beige	Concrete	Foundation	A	I	0.01
	28		Beige	Metal	Conduit	A	I	0.02
	29		Beigh	Wood	Door	D	I	0.00
	30		Brown	Metal	Door casing	D	I	0.00

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Fabian Rovalcaba			7-25-2025
Print Name	Signature	CDPH No.	Date

CALIBRATION				CALIBRATION				CALIBRATION			
#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)
1	1.0										
2	0.4										
3	0.9										

Calibration results used on NIST Standard Reference Material SRM 2573, measuring 1.04 mg/cm2 film.

XRF DATA SHEET

Client:	RSCCD	**Project Name:**	CEC - Santa Ana Campus	**Technician:**	Fabian Rundeck
Location:	2900 W. Edinger Ave Santa Ana, CA	**Project Number:**		**Date:**	7-25-2025

Sample No.	Sample Location - Room Description	Color	Substrate (1)	Component	Side A,B,C,D	Paint Condition	Sample Results (mg/cm2)
31	Bldg. B	Brown	Metal	Awning	D	D	0.06
32		Brown	Metal	Flashing	D	I	0.01
33		Brown	Metal	Support post	C	I	0.01
34	Bldg. C2	Beige	Metal	Downspout	A	I	0.00
35		Beige	Metal	Column	B	I	0.01
36		Brown	Metal	Beam	B	I	0.01
37		Beige	Wood	Wall	B	I	0.01
38		Brown	Wood	Wall Trim	B	I	0.01
39		Beige	Metal	Door	B	I	0.02
40		Brown	Metal	Door casing	B	I	0.02
41		Beige	Metal	Hand rail	B	I	0.06
42	Bldg. C4	Beige	Wood	Siding	C	I	0.01
43		Brown	Wood	Trim	C	I	0.01
44		Brown	Metal	Flashing	C	I	0.00
45	Bldg. C3	Beige	Metal	Wall	D	I	0.00
46		Brown	Wood	Wall trim	D	I	0.00
47		Beige	Metal	Door	D	I	0.00
48		Brown	Metal	Door casing	D	I	0.00
49		Beige	Metal	Column	D	I	0.00
50		Brown	Metal	Beams	D	I	0.01
51		Beige	Metal	Downspout	D	I	0.02
52	Bldg. C1 - Patio	Brown	Wood	Post	B	I	0.07
53		Brown	Wood	Beam	B	I	0.02
54		Brown	Wood	Joist	B	I	0.01
55		Brown	Metal	Downspout	B	I	0.01
56		Beige	Wood	Wall	B	I	0.01
57		Brown	Wood	Wall trim	B	I	0.06

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Fabian Rundeck			7-25-2025
Print Name	Signature	CDPH No.	Date

CALIBRATION				CALIBRATION				CALIBRATION			
#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)

Calibration results used on NIST Standard Reference Material SRM 2573, measuring 1.04 mg/cm2 film.

CES
ENVIRONMENTAL CONSULTANTS

XRF DATA SHEET

Client:	RSCCD	**Project Name:**	CEC-Santa Ana Campus	**Technician:**	Fabian Rivalcaba
Location:	2900 W. Edinger Ave Santa Ana, CA	**Project Number:**		**Date:**	7-25-2025

Sample No.	Sample Location - Room Description	Color	Substrate (1)	Component	Side A,B,C,D	Paint Condition	Sample Results (mg/cm2)
58	Bldg. C1	Beige	metal	Door	B	I	0.01
59		Brown	metal	Door casing	B	I	0.01
60		Brown	metal	window	B	I	0.00
61		Brown	metal	window sill	B	I	0.03
62		Brown	metal	siding	B	I	0.01
63		Brown	metal	Awning	B	I	0.00
64	Bldg. D1	Beige	Wood	Wall	A	I	0.00
65		Brown	"	wall trim	A	I	0.00
66		Brown	Metal	window	D	I	0.00
67		"	"	windowsill	D	I	0.00
68		Beige	Metal	Doorsport	D	I	0.01
69		Beige	Metal	Door	A	I	0.00
70		Brown	Metal	Door casing	A	I	0.00
71		Brown	"	Awning	A	I	0.01
72	Bldg. D-106	Beige	metal	Beam	A	I	0.00
73	Bldg	Brown		Column	A	I	0.00
74		Brown		Flashing	A	I	0.00
75	Bldg. D-110	Beige	Wood	Wall	A	I	0.00
76		Brown	Wood	wall trim	A	I	0.00
77		Beige	Metal	Door	A	I	0.00
78		Brown	Metal	Door casing	A	I	0.00
79	Bldg. E	Beige	Wood	Wall	B	I	0.00
80		Brown	Wood	Wall trim	B	I	0.00
81		Beige	Metal	Door	B	I	0.00
82		Brown	Metal	Door casing	B	I	0.01
83		Brown	Metal	Awning	B	I	0.00
84		Beige	Metal	Doorsport	B	I	0.01

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Fabian Rivalcaba			7-25-2025
Print Name	Signature	CDPH No.	Date

CALIBRATION				CALIBRATION				CALIBRATION			
#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)

Calibration results used on NIST Standard Reference Material SRM 2573, measuring 1.04 mg/cm2 film.

CES ENVIRONMENTAL CONSULTANTS

XRF DATA SHEET

Client:	RSCCD	Project Name:	CEC. Santa Ana Campus	Technician:	Fabian Revalcaba
Location:	2900 W. Edinger Ave Santa Ana, Ca	Project Number:		Date:	7-25-2025

Sample No.	Sample Location - Room Description	Color	Substrate (1)	Component	Side A,B,C,D	Paint Condition	Sample Results (mg/cm2)
95	Bldg. E	Beige	Concrete	Foundation	B	I	0.01
96		Brown	Metal	Window	A	I	0.00
97		Brown	Metal	Window sill	A	I	0.01
98		Brown	Metal	support post	A	I	0.05
99	Bldg. F	Beige	wood	wall	B	I	0.06
100		Brown	wood	wall trim	B	I	0.00
101		Beige	Metal	Door	B	I	0.00
102		Brown	metal	Door casing	B	I	0.00
103		Brown	Metal	Awning	B	I	0.00
104		Beige	concrete	Foundation	B	I	0.06
105		Brown	metal	window	B	I	0.00
106		Brown	metal	window sill	B	I	0.00
107		Brown	metal	support post	B	I	0.00
108		Brown	metal	hand rail	B	I	0-06
109		Brown	metal	Downspout	A	I	0.00
100		Beige	wood	Door	A	I	0.00
101	Bldg. G	Beige	wood	wall	A	I	0.00
102		Brown	wood	wall trim	A	I	0.00
103		Beige	metal	Door	A	I	0.00
104		Brown	metal	door casing	A	I	0.00
105		Beige	metal	Column	B	I	0.00
106		Brown	metal	Beam	B	I	0.00
107		Beige	metal	Downspout	A	I	0.00
108		Beige	metal	Handrail	B	I	0.00
109		Brown	metal	Flashing	B	I	0.00

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Fabian Revalcaba			7-25-2025
Print Name	Signature	CDPH No.	Date

CALIBRATION				CALIBRATION				CALIBRATION			
#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)	#	Result	Average	Acceptable (+/-0.06)
110	1.1	0.96									
111	0.9										
112	0.9										

Calibration results used on NIST Standard Reference Material SRM 2573, measuring 1.04 mg/cm2 film.

1.1
+0.1
0.9

State of California—Health and Human Services Agency

California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 7/25/2025

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

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☑ Other (specify) for construction purposes

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
2900 W Edinger Ave	Santa Ana	Orange	92704

Construction date (year) of structure	Type of structure	Children living in structure?
	☐ Multi-unit building ☐ School or daycare ☐ Single family dwelling ☒ Other Comm. College	☐ Yes ☑ No ☐ Don't Know

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

Name	Telephone number
Rancho Santiago Community College District	

Address [number, street, apartment (if applicable)]	City	State	Zip Code
2323 North Broadway, Suite 112	Santa Ana	Ca	92706

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
Fabian Ruvalcaba	951-448-1111

Address [number, street, apartment (if applicable)]	City	State	Zip Code
6741 Friends Avenue, Suite B	Whittier	California	90601

CDPH certification number	Signature	Date
LRC 00004100	FE RLL	7/25/25

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

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc 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

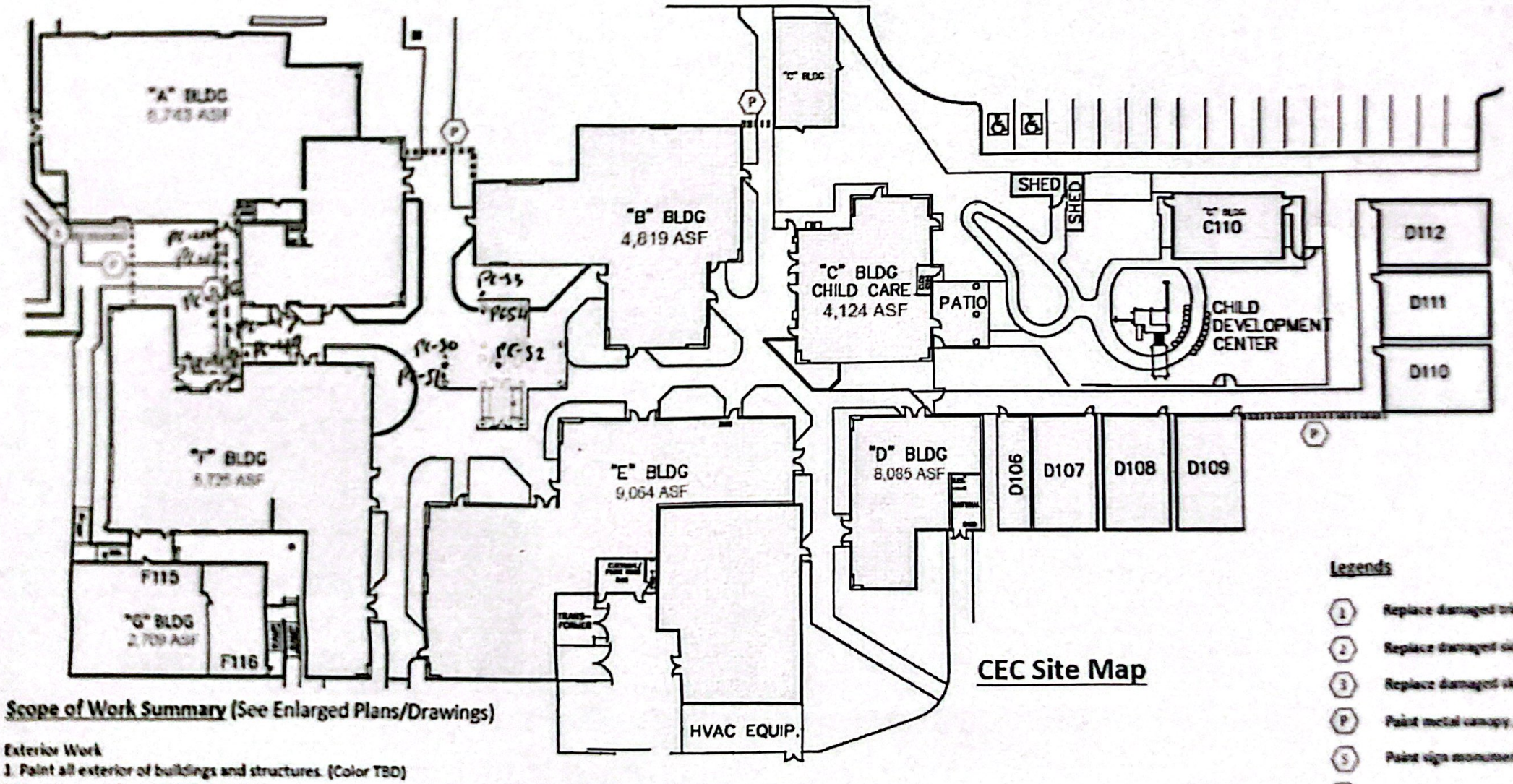
Third copy only (no attachments) mailed or faxed to:

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:

SAMPLE LOCATION MAP

Attachment C - CEC Exterior Improvement Project



CEC Site Map

Legends

1. Replace damaged trims.
2. Replace damaged sidings.
3. Replace damaged skirt trims.
P. Paint metal canopy, window fence, fence railing and gate.
5. Paint sign monument.
V. Replace damaged vent at skirt.
P. Paint all exterior walls.

Scope of Work Summary (See Enlarged Plans/Drawings)

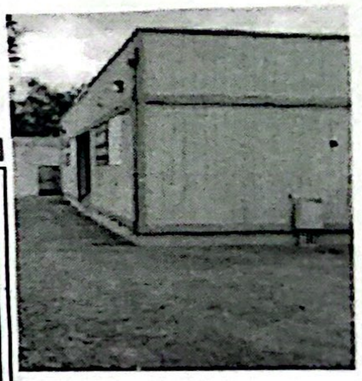
Exterior Work

1. Paint all exterior of buildings and structures. (Color TBD)
2. Paint exterior fencing. (Color TBD)
3. Replace damaged wood trim and wood siding.
4. Replace damaged skirt vents and gratings.
5. Paint sign monument.

Approximate paintable surface area: 5,754 sq. ft.
(Assumed height for exterior wall 14' x 411')

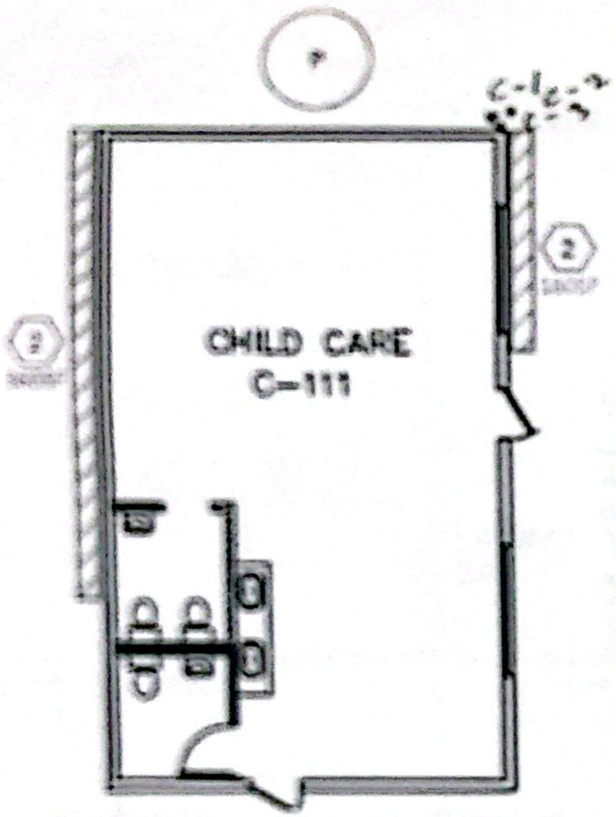
Covered Walkway between Bldgs. A & F

CEC - Building A Floor Plan
8,743 ASF

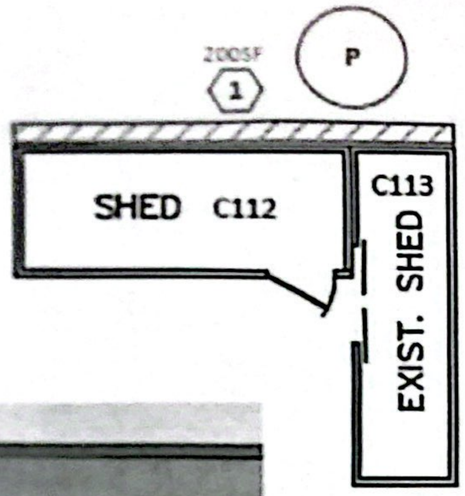


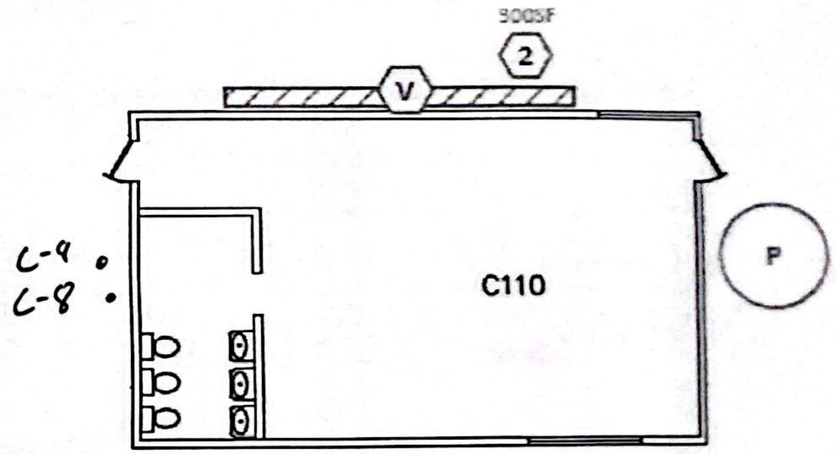
Approximate paintable surface area: 5,194 sq. ft.
(Assumed height for exterior wall: 14'x371')

CEC - Building B Floor Plan
4,819 ASF

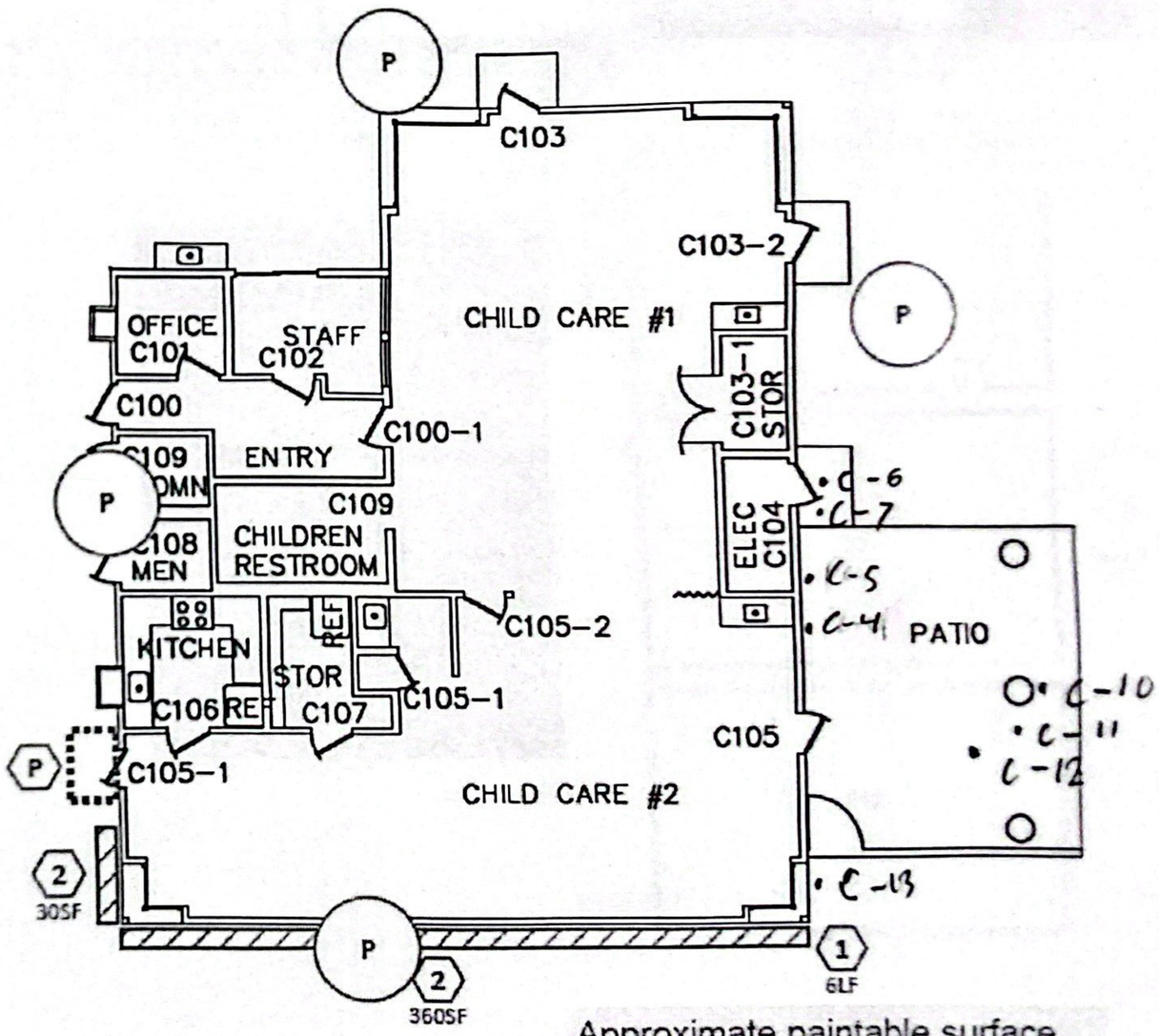


Approximate paintable surface area: 960 sq. ft.



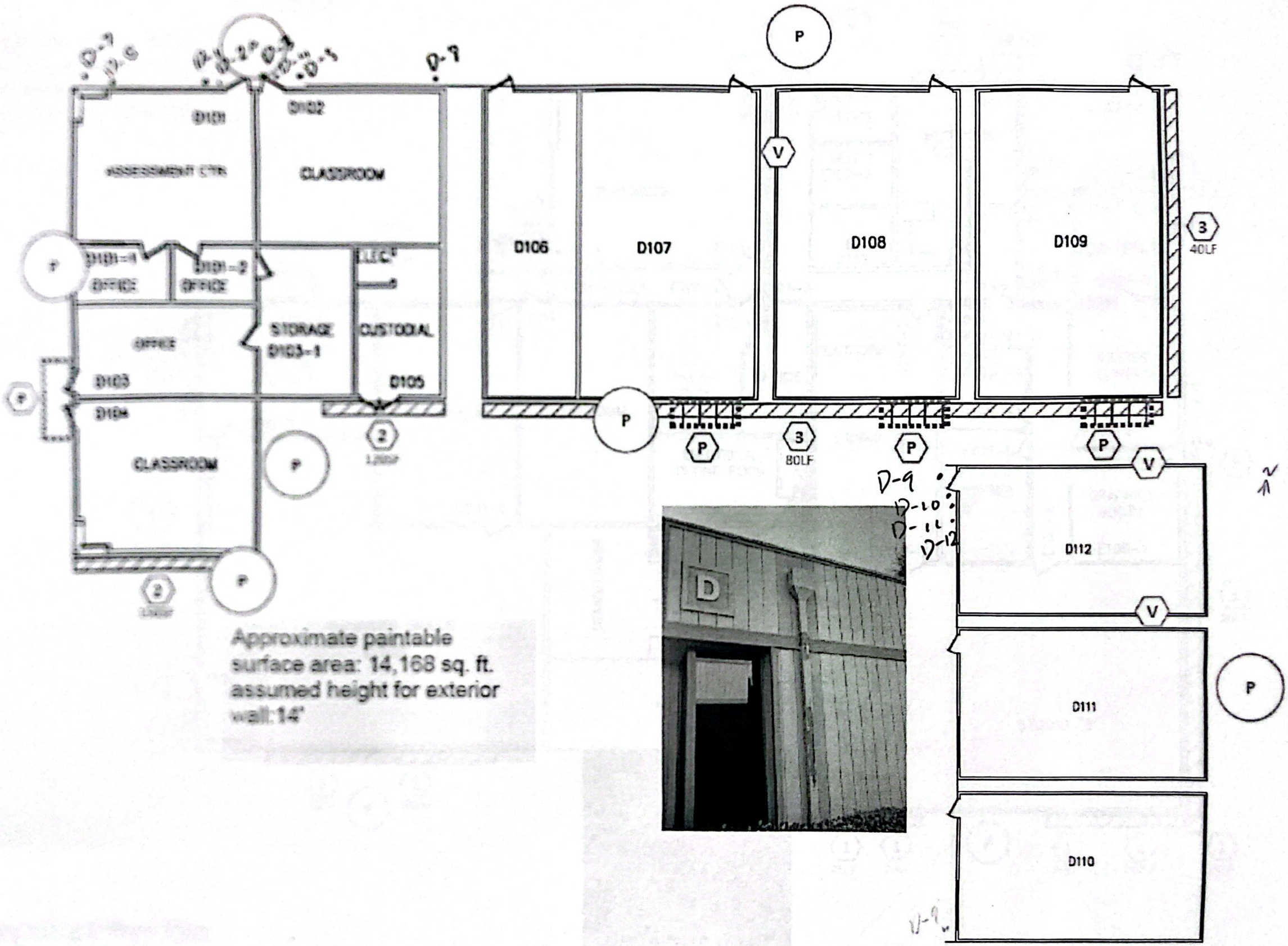


Approximate paintable surface area: 960 sq. ft.



Approximate paintable surface area: 2,926 sq. ft.
(Assumed height for exterior wall: 14'x209')

CEC - Building C Floor Plan
4,124 ASF

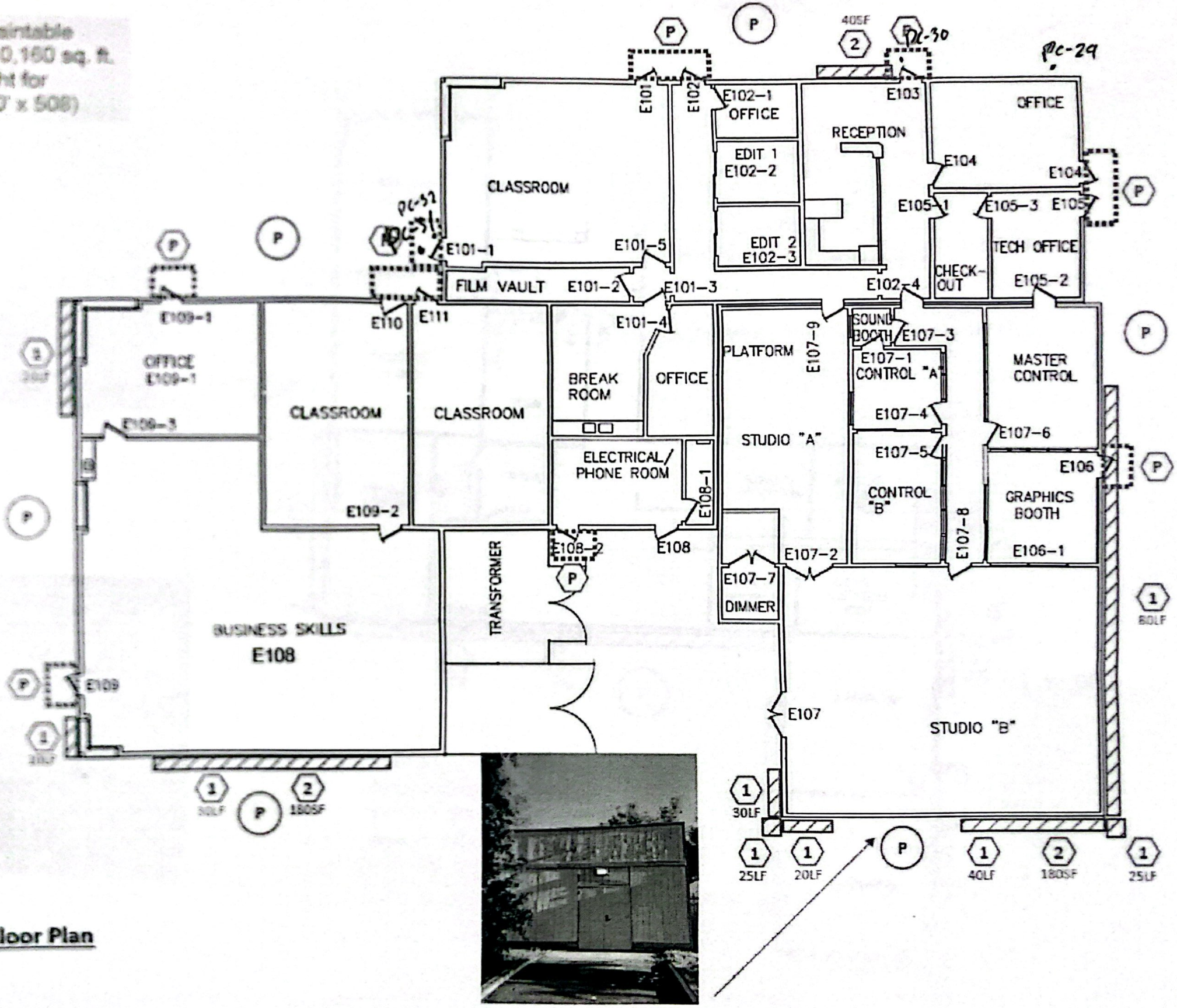


Approximate paintable surface area: 14,168 sq. ft.
assumed height for exterior wall: 14'

CEC - Building D Floor Plan

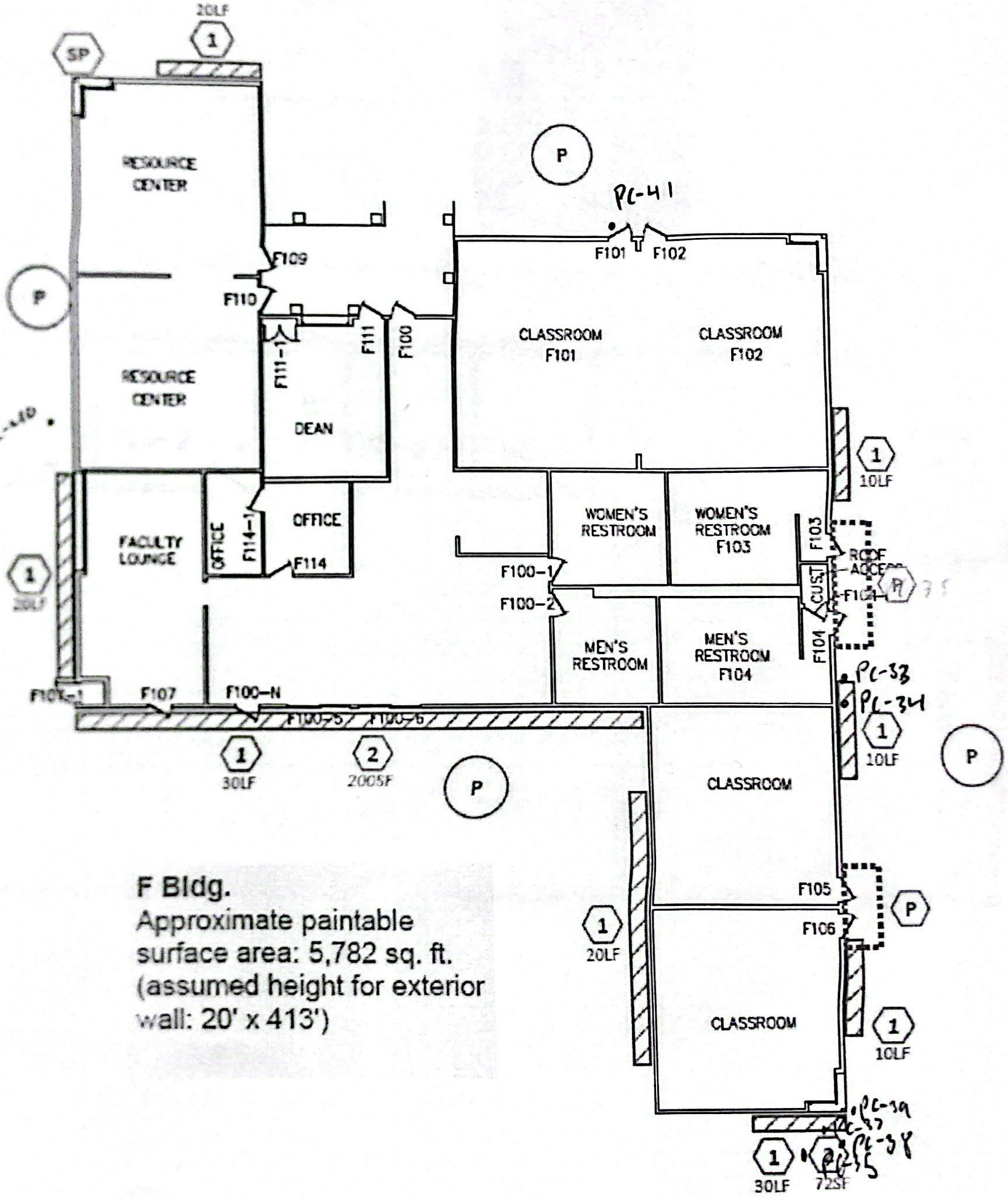
8,085 ASF

Approximate paintable surface area: 10,160 sq. ft. (assumed height for exterior wall: 20' x 508)



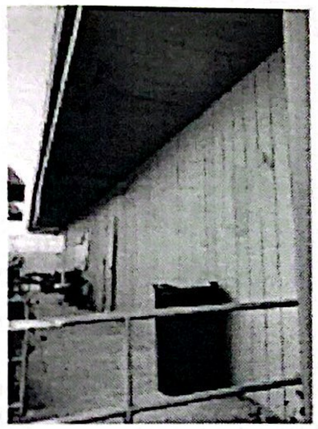
CEC - Building E Floor Plan

9,064 ASF



F Bldg.
Approximate paintable surface area: 5,782 sq. ft. (assumed height for exterior wall: 20' x 413')

CEC - Building F Floor Plan
5,725 ASF



C Bldg.
Approximate paintable surface area: 3,136 sq. ft. (assumed height for exterior wall: 14' x 224')

CEC - Building G Floor Plan

2,709 ASF

APPENDIX D:

INSPECTOR CERTIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **Fabian Rubalcaba**	Lead Inspector/Assessor	LRC-00004100	12/6/2025

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 or calling (800) 597-LEAD

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **Elmer Castro**	Lead Inspector/Assessor	LRC-00005741	4/11/2026

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 or calling (800) 597-LEAD

SECTION 02 83 33 - REMOVAL AND DISPOSAL OF LEAD CONTAINING MATERIALS SCHOOL OF CONTINUING EDUCATION AT CENTENNIAL EDUCATION CENTER, EXTERIOR IMPROVEMENTS PROJECT

CONTENTS

END OF CONTENTS

PART 1 GENERAL

1.01 SUMMARY AND SCOPE

A. Applicable provisions of Division 1 – General Requirements shall govern work under this section.

B. Perform all operations in connection with lead abatement, removal, clean-up and related work as shown on drawings, specific scopes of work, and/or specified herein.

C. Description of Work – This project involves removal of building materials with lead coatings if required by the project scope of work; this specification is for removal of the following materials:

Building Component	Paint Color	Lead Conc. (mg/kg)	Comments
Support Bracket-Metal, Exterior walkway between Building A and F	Brown	12,756	Removal, paint stabilization, or surface preparation for repainting shall be completed by lead-trained workers using proper PPE. All waste must be disposed of properly. Work is subject to CDPH and Cal-OSHA worker exposure requirements Title 8 CCR 1532.1
Gate-Metal, building A	Brown & beige	977, 335	Construction work that disturbs this paint is subject to Cal-OSHA worker exposure requirements Title 8 CCR 1532.1. All lead waste must be properly characterized and disposed of at an approved waste disposal facility
Window casing-metal, building B	Brown	542	Construction work that disturbs this paint is subject to Cal-OSHA worker exposure requirements Title 8 CCR 1532.1. All lead waste must be properly characterized and disposed of at an approved waste disposal facility
Window sill-metal, buildings E, F, G	Brown	377	Construction work that disturbs this paint is subject to Cal-OSHA worker exposure requirements Title 8 CCR 1532.1. All lead waste must be properly characterized and disposed of at an approved waste disposal facility
Handrail-metal, building C	Beige	254	Construction work that disturbs this paint is subject to Cal-OSHA worker exposure requirements Title 8 CCR 1532.1. All lead waste must be properly characterized and disposed of at an approved waste disposal facility
Window sill-metal, building C (sill and frames)	Brown	399	Construction work that disturbs this paint is subject to Cal-OSHA worker exposure requirements Title 8 CCR 1532.1. All lead waste must be properly characterized and disposed of at an approved waste disposal facility

Title 8 CCR 1532.1 (Cal/DOSH Lead) requires workers that perform either manual demolition or manual scraping or sanding of painted surfaces to undergo an exposure assessment including air monitoring of the breathing zone and be properly trained and protected per the Cal/DOSH lead regulation. Contractor shall be responsible for monitoring of worker exposure to lead during disturbance of painted and ceramic surfaces.

C. Special Precautions: Coordinate with the Owner Representative for the shutdown and isolation of all electrical circuits and air movement systems within the regulated area. Refer to Subpart entitled "3.02 LBP/Lead-containing Surface Coating Impacts and 3.03 Surface Preparation-LBP Stabilization", of this section, relative to shutdown of mechanical and electrical systems. The provision of temporary facilities and/or utilities must be arranged prior to each project as necessary and will be the responsibility of the Contractor.

D. Special Circumstances: Emergency response may be necessary during non-working hours requiring Contractor personnel to be on-site within 3 hours of notification (e.g., due to weather, vandalism, burglary, etc.).

E. Restoration: Not Applicable.

F. Related work specified elsewhere (enclosed):

Section Title	Section Number
Removal and Disposal of Asbestos Materials	02 82 13
Handling of Lighting Ballasts Containing PCBs, etc.	02 84 16

1.02 REFERENCES

A. General Reference:

All work under this contract shall be done in accordance with all applicable Federal, State, and local regulations, standards and codes governing asbestos abatement and any other trade work done in conjunction with the abatement. The most recent edition of any relevant regulation in force at the time of bid opening shall be in effect. Where conflict among the laws, rules, regulations, or with these specifications exists, the most stringent requirements shall be utilized.

B. Specific References:

Occupational Safety and Health Administration (OSHA) Title 29 Code of Federal Regulations (CFR):

1910.134 – Respiratory Protection.
1926.59 - Hazard Communication Standard; Construction Industry
1926.62 – Lead; Construction Industry

Environmental Protection Agency (EPA) Title 40 Code of Federal Regulations (CFR) Part 745 -- Lead-Based Paint Poisoning Prevention in Certain Residential Structures.

California Division of Occupational Safety and Health (Cal/DOSH):

8 CCR 5144 – Respiratory Protection Standard
8 CCR 1532.1 – Lead
22 CCR Division 4.5, Environmental Health Standards for the Management of Hazardous Waste

Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.

1.03 QUALIFICATIONS

A. The prospective Contractor shall submit to the Owner Representative the data hereinafter requested within ten (10) calendar days after Bid Opening.

B. The Contractor shall, if requested:

1. Demonstrate prior experience on lead abatement projects of similar nature and scope of that being bid, through the submission of letters of reference from building owners including the name, address, and telephone numbers of the contact persons who are specifically familiar with the referenced projects. At least three previous users of this service shall be submitted. Include descriptions of projects and records of all air monitoring data that was generated during the projects.

2. Submit a description of all major Lead Abatement Equipment owned by the prospective Contractor which is available for use on this project such as respiratory protection equipment, HEPA vacuum equipment dedicated to lead abatement, negative air pressure equipment dedicated to lead abatement, spray equipment for amended water and other coatings, equipment used for shower facilities in decontamination enclosure system.

C. Submit a list of names, work responsibilities and evidence of certification for all employees that will be assigned to this project including:

1. All removal and disturbance of LBPs and lead-containing materials shall be performed by a state-licensed contractor, using California Department of Public Health (CDPH) certified workers with at least one CDPH-certified Supervisor. All removal and disturbance of lead-containing materials (not meeting the definition of lead-based) as defined in 8 CCR 1532.1, shall be performed by a state-licensed contractor, using lead-trained workers with certification of training meeting the requirements of 8 CCR 1532.1. Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal

D. The Contractor must be licensed by the California State Contractors License Board for activities necessary to complete the projects described in this specification.

1.04 DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

Air Monitoring:

The process of measuring lead concentration of a known volume of air collected during a specific period of time shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1.

Air Sampling Professional:

The Professional contracted or employed by Owner Representative to supervise and conduct air monitoring and analysis schemes. This individual shall not be affiliated in any way other than through this contact with the Contractor performing the abatement work.

ANSI: American National Standards Institute

ASTM: American Society for Testing and Materials (now ASTM International)

Authorized Visitor:
The Building Owner (and designated representatives) and any representative of a regulatory agency having jurisdiction over the project.

California Department of Public Health (CDPH):
Certification agency for lead abatement workers, supervisors, inspector/assessors, project monitors and sampling technicians. Lead workers and supervisors must hold current certifications with this agency. CDPH is also the enforcement agency for lead abatement in child-occupied structures.

California Division of Occupational Safety and Health (Cal/DOSH):
The Occupational Safety and Health Enforcement Section aka Cal DOSH or Cal/OSHA which is a part of the California Division of Industrial Relations.

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

Competent Person:
Means one who is capable of identifying existing lead hazards in the workplace and who has the authority to take prompt corrective measures to eliminate them.

Consultant:
Means the person, persons, and/or company contracted by the Owner to provide third party oversight of the project described in these specifications. The Consultant shall have no business relationship with the Contractor.

Contractor:
Means the person, persons, and/or company contracted by the Owner to provide the services specified herein.

Decontamination Enclosure:
A decontamination system consisting of a clean room, a shower room, and an equipment room separated from each other and from the regulated area by airlocks. This system is used for all workers to enter and exit the regulated area and may also serve as equipment and waste pass out on small jobs.

Encapsulation:
The application of a bridging or penetrating liquid material to asbestos containing materials to control the release of lead dust into the air. The bridging liquid material creates a membrane over the surface and the penetrating liquid material seeps through the surface and binds all components together.

Enclosure:
The construction of an airtight, impermeable, permanent barrier around asbestos containing material to control the release of lead dust into the air.

EPA: U. S. Environmental Protection Agency

HEPA Filter:

A high efficiency particulate air filter capable of removing particles 0.3 microns in diameter with 99.97% efficiency.

HEPA Vacuum:

A vacuum system equipped with HEPA filtration.

Lead-Based Paint:

Paint or other surface coatings that contain lead equal to or in excess of 1.0 milligrams per square centimeter or more than 5,000 parts per million.

Lead Containing Material (LCM):

Material containing lead of any type and in an amount greater than the detection limit of the analytical method.

Lead Containing Waste Material:

Lead containing material or lead contaminated materials requiring disposal in an EPA approved landfill.

OSHA:

The Occupational Safety and Health Administration; may also be referenced instead of Cal/DOSH or Cal/OSHA equivalent regulations.

Owner:

Means the owner of the properties in which the activities described in these specifications are to be performed for. The Owner will also be the employer of the personnel working in the affected building.

(designated) Owner Representative:

Means the person, persons, or company who monitors the work specified in this document with the Owner's interests as a priority. Compliance with these specifications will be monitored by the Owner's Representative. The Consultant and the Owner's Representative will be the same unless otherwise specified.

Permissible Exposure Limits (PELs):

No personnel associated with lead abatement work shall be exposed to an airborne concentration of lead in excess of the following limits, as determined by the method prescribed in OSHA 29 CFR 1926.62, and 8 CCR 1532.1 or by an equivalent method:

PEL is 50 micrograms per cubic meter ($\mu g/M^3$) of air as an eight (8) hour time-weighted average (TWA).

Action Level is 30 $\mu g/M^3$ as an eight (8) - hour TWA.

Regulated Area:

An area identified by specific boundaries where airborne concentrations of asbestos exceed, or can reasonably be expected to exceed, the PEL and/or Excursion Limit. The regulated area may take the form of a temporary negative-pressure enclosure, or an area specifically identified and segregated in any manner that minimizes the number of employees exposed to lead dust.

Soluble Threshold Limit Concentration (STLC):
Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

South Coast Air Quality Management District (SCAQMD):
The SCAQMD is the local enforcement and notification agency within Orange, and populated portions of Los Angeles, San Bernardino and Riverside Counties in the State of California.

Surfactant: A chemical wetting agent added to water to improve penetration.

Toxicity Characteristic Leaching Procedure (TCLP):
Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Total Threshold Limit Concentration (TTLC):
Laboratory test to be conducted on waste to determine if it meets the definition of hazardous waste.

Visible Emissions:
Any emissions containing particulate material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

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

1.05 SUBMITTALS AND NOTICES

A. No later than 14 calendar days prior to commencement of work, Contractor shall submit in electronic format or PDF files to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Current Copies of licenses and registrations required by Article 1.03, Qualifications (include copies of subcontractor’s licenses).

2. Notify the Cal/DOSH at least 24 hours prior to commencement of <u>any</u> lead-related work, per the requirements of 8 CCR 1532.1.

3. Current proof of insurance coverage required by Article 1.10 Insurance Requirements (include proof of insurance for subcontractors).

4. Current proof that required permits, site location and arrangements for transport and disposal of asbestos materials have been made.

5. Current proof of legal right to use patented equipment or processes.

6. Current Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79 and have been permitted by the SCAQMD.

7. Current documentation showing that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to lead or who may be responsible for any aspects of lead abatement activities, have received training as required by 29 CFR 1926.1101 and 8 CCR 1529.

8. Current documentation from Physician (signed by an M.D.) showing that all employees or agents who may be exposed to lead dust in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. 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.

   Evidence of blood lead level testing of workers assigned to the project as well as medical clearance for the work to be performed and clearance to don respirators including fit testing records.

9. Current documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be conducted annually and in accordance with procedures as required by 29 CFR 1910.134 and 8 CCR 5144.

10. An emergency preparedness plan as required by Article 1.07 - Emergency Planning.

11. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

12. A site-specific work plan based on scope of work. Include a diagram showing containment set-up, decontamination unit(s), locations of negative air machines and exhaust placement.

13. The name, address and telephone number of the transporter and disposal facility must be provided to the Owner.

B. During abatement activities, Contractor shall submit to the Owner Representative and/or Consultant documentation that includes, without limitation, the following:

1. Copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.

2. Copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.

3. Copies of Safety Data Sheets (SDS) for solvents, encapsulants, wetting agents, replacement materials, and other substances brought by Contractor to the Project Site. SDSs shall be available the first day that subject materials/substances are present on the project site.

4. Results of all required Cal/DOSH compliance air monitoring. Results shall be available prior to the start of the following shift and within 24 hours of completion of the last shift.

5. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.

6. Copies of daily work logs indicating location(s) worked, type of materials removed, quantity of materials removed and number of personnel conducting the aforementioned activities.

7. Contractor shall provide unit costs for the preparation of regulated work areas, abatement, waste storage and disposal for lead encountered during abatement and or renovation of

the buildings located at the property. Rates for labor of appropriately trained workers, supervisors and management shall be included in the listing of unit rates.

8. Copies of all transport manifests, trip tickets and disposal receipts for all lead waste materials removed from the work area shall be provided. Copies shall be emailed to the Owner's Representative.

9. A Close out Report will be generated by the Environmental Consultant at the conclusion of the abatement activities. Documents referenced in the section shall be provided to the Environmental Consultant for inclusion in the Close out Report.

C. For any new lead abatement employee hired, who has not been previously reported, complete data must be submitted, consisting of: experience, certification, assigned job responsibilities, respirator test fitting, physicians determination of employee's ability to work while wearing respirator and evidence of medical monitoring (blood lead).

1.06 SITE SECURITY

A. Contractor shall be responsible for the security of the regulated area(s) during abatement operations in order to protect work efforts and Owner equipment. Contractor will also be responsible for the security of all their equipment and materials on the job site.

B. The regulated area shall be restricted to only authorized, trained, and protected personnel. These may include the Contractor's employees, employees of subcontractors, State representatives, and any other designated individuals. A list of authorized personnel shall be established prior to job start and posted in the clean room of the decontamination facility. A log book shall be maintained in the clean room area of the decontamination system. Anyone who enters the regulated area must record name, affiliation, time in, and time out for each entry.

C. Contractor shall assure any unauthorized individual entering the regulated area is decontaminated (if required), evict them, and notify the Owner Representative of the actions taken and the identity of the unauthorized individual.

D. Access to the regulated area shall be through a single decontamination system. All other means of access (doors, windows, hallways, etc.) shall be blocked or locked so as to prevent entry to or exit from the regulated area. The only exceptions to this rule are the waste pass-out air lock which shall be sealed except during the removal of containerized asbestos waste from the regulated area, and emergency exits in case of fire or accident. Emergency exits shall not be locked from the inside. However, they shall be sealed with polyethylene sheeting and tape until needed.

1.07 EMERGENCY PLANNING

A. Emergency procedures shall be in written form and prominently posted in the clean change area and equipment room of the worker decontamination area. Everyone prior to entering the regulated area must read and sign these procedures to acknowledge receipt and understanding of work site layout, location of emergency exits and emergency procedures.

B. Contractor employees shall be trained in evacuation procedures in the event of workplace emergencies under the following conditions:

1. For non-life-threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the workplace to obtain proper medical treatment.

2. For life-threatening injury or illness, worker decontamination shall take least priority; after measures to stabilize the injured worker, remove the worker from the workplace and secure proper medical treatment.

C. Telephone numbers of all emergency response personnel shall be prominently posted in the clean change area and equipment room along with the location of the nearest telephone.

D. Exit routes should be clearly identified in the containment.

E. Procedures to prevent and treat heat stress must be posted in the clean room area. Workers shall be provided easy access to drinking water outside of the regulated area(s) and encouraged to drink frequently.

PART 2 PRODUCTS

2.01 MATERIALS

A. Polyethylene sheeting for all uses shall be a minimum of six (6) mil thickness. Widths will be selected to minimize the frequency of joints. All plastic, spray-on strippable coatings and structural materials shall be UL-certified as fire-retardant or non-combustible.

B. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).

C. Polyethylene sheeting utilized for decontamination enclosure shall be opaque white or black in color and 6-mil in thickness.

D. Disposal bags shall be of six (6) mil polyethylene, clear bags.

E. Metal disposal bins shall be used for the storage of asbestos-containing waste materials. Bins shall be lined in plastic sheeting affixed with spray glue and tape at walls, floor and ceiling of the bin. As an alternate, disposal drums for transporting disposal bags may be used. Drums shall be metal, 55-gallon DOT A1A (DOT 17H) with locking ring tops and will meet the requirements of 49 CFR 172 – 178. Stick-on labels as per EPA and 8 CCR 1529 (k) (8) requirements shall be provided for the disposal drums.

B. Surfactant (Wetting Agent) for Amended Water:

1. For wetting all materials containing lead, it shall consist of soapy water mixed in a proportion of two (2) fluid ounces of liquid sap to five (5) gallons of water.

2. Where regulated area temperature may cause freezing of the amended water solution, the addition of ethylene glycol in amounts sufficient to prevent freezing is permitted.

G. Encapsulating Material: Bridging type encapsulant (for sealing masonry and concrete walls, barrier surfaces during cleanup phase and lead containing surfaces to remain in place) shall be capable of being applied with airless spray equipment, able to withstand light impact or abrasion without releasing fibers, and be water insoluble when cured, and must retain sufficient integrity after six (6) years to allow recoating.

G. Durable exterior coating over stabilized LBP: The coating to be used will be designated by Owner Representative.

H. All caustics shall be properly labeled and containerized in lead-tight containers.

The following procedures and equipment may not be applicable to the lead abatement required for the particular project but are included for completeness. The removal/abatement of lead-containing ceramic tiles, as necessary, would comply with Section M below.

J. Chemical Stripping Removers (**Alternative**) - Chemical removers shall contain no methylene chloride products. Chemical removers shall be compatible with and not harmful to the substrate to which they are applied. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits discoloration of stone, granite, brick and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated.

K. Chemical Stripping Agent Neutralizer (**Alternative**) - Chemical stripping agent neutralizers may be used on exterior surfaces only. Neutralizers shall be compatible with and not harmful to the substrate that they are applied to. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

L. Paint Blasting Materials (**Alternative**) – Blasting materials shall not create respirable crystalline silica dust. The blasting debris will be considered hazardous waste for lead. The building must be encased/enclosed in a manner that does not allow visible dust from the building exterior during blasting.

M. Component removal (**Alternative**) – Building Components coated with LBP (or lead containing glaze) can be removed from the regulated area, wrapped in 6-mil plastic sheeting, or placed in 6-mil plastic bags. Provision must be made with Owner Representative and Consultant for replacement of the component, as necessary.

2.02 EQUIPMENT

A. Negative Pressure Ventilation Units (Use as applicable):

1. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI and EPA guidance documents. They shall be utilized so as to provide one workplace air change every 15 minutes.

   To calculate total air flow requirement:

$$\text{Total Ft}^3\text{/Min.} = \frac{\text{Volume of Regulated area (in Ft}^3\text{)}}{\text{15 Min.}}$$

   To calculate the number of units needed for the abatement:

$$\text{Number of Units Needed} = \frac{\text{Total Ft}^3\text{/Min.}}{0.75(\text{Capacity of Unit in Ft}^3\text{/Min.})}$$

2. The air filtering equipment shall be capable of filtering lead particles at 99.97 percent efficiency. Pre-filters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of pre-filtration are required. The first-stage pre-filter shall be a low efficiency type (e.g., for particles 10 um

and larger). The second-stage (or intermediate) filter shall have a medium efficiency (e.g., effective for particles down to 5 um). Pre-filters and intermediate filters shall be installed either on or in the intake grid of the unit and held in place with special housings or clamps.

3. The exhaust air for the air filtering devices used to maintain negative pressure in the contained regulated area(s) shall be directed outdoors to an area where unprotected personnel are not present.

4. The regulated area shall be maintained at a negative pressure of 0.02 inches of water (head). The ventilation shall operate on a 24-hour basis throughout the abatement process until final clearance has been approved.

B. Air Purifying Respirators: Respirator bodies shall be of half face or full-face type with removable cartridges. Single use, disposable or quarter face respirators shall not be used. Full face respirators shall be equipped with a nose cup or other anti-fogging devices as would be appropriate for use in air temperatures less than 32 degrees F. Filter cartridges shall, at a minimum, be HEPA type filters certified by NIOSH under 30 CFR Part 11 or with filters certified for particulates under 42 CFR Part 84 (e.g., P100).

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

1. Full body disposable protective clothing as described above shall be provided to authorized visitors in sizes adequate to accommodate movement without tearing on request.

D. Additional safety equipment (as necessary), such as hard hats, eye protection, safety shoes, disposable gloves meeting the requirements of current ANSI Standards shall be provided to all workers and authorized visitors. Nonskid footwear shall be provided to all abatement workers. Disposable clothing shall be adequately sealed to the footwear and gloves to prevent body contamination.

E. Provide sufficient supply of disposable mops, rags and sponges for work area decontamination. Rubber dust pans and rubber squeegees shall be provided for cleanup.

F. Provide scaffolds, ladders, lifts and hand tools such as scrapers, wire cutters, brushes, utility knives, and wire saws, as the work requires. Brushes utilized for removing loose asbestos containing material shall have nylon or fiber bristles, not metal.

1. Contractor must have in place a valid Fall Protection Plan, in compliance with Cal/DOSH requirements, to be reviewed and approved by the Owner Representative.

G. Sprayers shall have pumps capable of providing 14-15 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

H. A sufficient supply of HEPA filtered vacuum systems shall be available during cleanup.

I. Airless spray equipment with an adjustable low-pressure nozzle shall be provided for spraying encapsulants. Nozzle tip size and pressure adjustment shall conform to encapsulant manufacturer’s written recommendations.

J. Machine Sanding Equipment - Sanders shall be of the dual action, rotary action, orbital or straight-line system type, fitted with a high efficiency particulate air (HEPA) dust pick-up system. Air

compressors utilized to operate this equipment shall be designed to continuously provide 90 to 110 p.s.i. or as recommended by the manufacturer.

K. Heat Blower Gun Equipment - Electrically operated, heat- blower gun shall be a flameless electrical paint softener type. Heat blower shall have electronically controlled temperature settings to allow usage below a temperature of 1,100 degrees Fahrenheit. Heat blower shall be DI type (non-grounded) 120 V, AC application. Heat blower shall be equipped with various nozzles to cover all common applications (cone, fan, glass protector, spoon reflector, etc.).

L. Heavy duty power cables for temporary electrical service and a portable electric generator for maintaining negative pressure in the work area in case of power failure.

M. Warning Signs and Labels: As required OSHA Regulation 29 CFR 1926.629(m) and 8 CCR 1532.1.

N. Other equipment the Contractor deems necessary for lead work shall be submitted to the Owner Representative and/or Consultant for approval prior to their use.

PART 3 EXECUTION

3.01 GENERAL COMPLIANCE MEASURES

A. Mandatory Protection Conditions: Contractor's employees shall wear appropriate respiratory protection and protective clothing under the following conditions:

1. During installation or implementation of engineering work practices and control measures.

2. During maintenance and repair activities for which control measures, hereinafter described, are not feasible.

3. Whenever the control measures are not yet sufficient to reduce exposure below the Permissible Exposure Limits (TWA and/or Excursion Limits).

4. Whenever emergency conditions exist.

B. Control Measures: The Contractor shall use one or any combination of the following control methods to achieve compliance with the "Permissible Exposure Limits" defined herein:

1. Local exhaust ventilation equipped with HEPA filter dust collection systems (ref. 2.02).

2. General dilution ventilation equipped with HEPA filtration systems on both exhaust and return air (ref. 2.02).

3. Vacuum cleaners equipped with HEPA filters (ref. 2.02).

4. Enclosure or isolation of processes producing airborne lead dust.

5. Use of wet methods, wetting agents or removal encapsulants to control employee exposures during their performance of asbestos abatement activities.

6. Prompt clean up and disposal of wastes contaminated with lead in leak-tight containers.

C. Supplement to Control Measures: Whenever the control measures described above are not sufficient to reduce the employee exposure to or below the "Permissible Exposure Limits" (TWA and/or Excursion Limit), the Contractor shall continue to use the control measures to maintain the employee exposure to the lowest levels attainable and supplement them with the use of appropriate respiratory protection and protective clothing.

C. Negative-Pressure Enclosure: A negative-pressure enclosure shall be employed whenever feasible, prior to commencing removal, demolition and renovation operations involving lead containing materials. The negative air machines (ref. 2.02) should be ducted outdoors, especially if the space outside the containment is occupied. This will prevent the indoor spread of contamination if the negative air machine malfunctions or other chemicals are used in the containment (not recommended) which would not be filtered by the machines. If the area of work outside is dusty, then a square hole may be cut in the containment and fitted with a pleated residential air filter (Minimum Efficiency Reporting Value [MERV] 11 or better) to filter the make-up air. The entry to the containment should be well sealed to prevent the entry of unfiltered outside air.

E. Types of Respiratory Protection: The following Table represents the minimum respiratory protection required for given airborne concentrations of lead:

Airborne Concentration of Lead milligrams per cubic meter (mg/M^3)	**Required Respirator**
Not in excess of 0.50 mg/M^3 (10x PEL)	Half-mask air purifying respirator equipped with high-efficiency filters.
Not in excess of 2.50 mg/M^3 (50x PEL)	Full faceplate air purifying respirator equipped with high-efficiency filters.
Not in excess of 5.00 mg/M^3 (100x PEL)	1. Any powered air purifying respirator equipped with high efficiency filters. 2. Any supplied air respirator operated in continuous flow mode.
Not in excess of 50.0 mg/M^3 (1000x PEL)	Full face piece supplied air respirator operated in pressure demand mode.
Greater than 50.0 mg/M^3 (1,000x PEL) or unknown concentration	Full face piece supplied air respirator operated in pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus.

NOTE: Respirators assigned for higher environmental concentrations may be used at lower concentrations. A high-efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.

D. Respirator use during initial air monitoring must be selected per the requirements outlined in 29 CFR 1926.62(d)(2) or State equivalent.

3.02 LEAD-CONTAINING MATERIALS AND SURFACE COATING IMPACTS

This section applies to the removal of lead-containing paints and/or the demolition of components coated with lead coatings.

A. Post warning signs meeting the specifications of 8 CCR 1532.1 and 29 CFR 1926.62 at any location and approaches to a location where airborne concentrations of lead dust may exceed ambient background levels. Signs shall be posted at a distance sufficiently far enough away from a work

area to permit a person to read the sign and take necessary protective measures to avoid exposure. Barrier tape shall be utilized in conjunction with signs for exterior removal activities, to delineate the extent of regulated work areas.

B. Prepare appropriate fall protection systems in accordance with the requirements of Title 8 California Code of Regulations, Sections 1669, 1670, 1724 and anchoring guidance from Title 8 California Code of Regulations, Section 3283 (where applicable).

C. Install worker decontamination unit described in Article 3.03 or as agreed upon with Project Environmental Consultant.

D. Lead-containing material handlers involved in removal procedures shall wear disposable Tyvek suits, including gloves, hood, and footwear. Minimum respiratory protective equipment shall be half-face air-purifying respirators equipped with P100 filters.

1. For exterior lead work, it is recommended that workers wear two (2) disposable Tyvek suits. Upon exiting the work area, the handlers shall HEPA vacuum all visible debris from the outer suit, dispose of it as lead-contaminated waste, and proceed through the decontamination unit for full decontamination.

E. Isolate work area by installing critical barriers or curtained doorways across all openings where airborne lead dust migration may cause secondary lead contamination (for work where components will be removed relatively intact, such as doors, downspouts, and wood trim, drop cloths will suffice). Establish regulated areas with delineators, barrier tape and lead signage for exterior work areas.

F. Cover floors in each work area with fire retardant polyethylene sheeting (do not cover floors where flooring finishes, such as ceramic flooring, for example, are to be removed).

1. A single layer of six-mil (minimum) sheeting.

2. Containment plastic shall be sized to minimize seams.

3. Where multiple layers of floor poly are utilized, sheeting shall be installed in a fashion so as to prevent slippage between successive layers of material.

G. Cover all immovable items and/or construct walls in the Work Area with fire retardant polyethylene sheeting. Walls that will be demolished do not necessarily need protection (check with Project Environmental Consultant).

1. Walls shall be covered with six-mil fire-retardant polyethylene sheeting (sealed airtight with duct tape).

2. Plastic shall be sized to minimize seams.

3. Wall sheeting shall overlap floor sheeting by at least 12 inches beyond the wall/floor joint to provide a better seal for negative pressure.

4. Wall sheeting shall be secured adequately to prevent it from falling away from the walls. This may require additional support/attachment when Negative Pressure Ventilation Systems area utilized.

5. Fire exits shall be clearly labeled with red tape or equivalent.

H. Where manual demolition is employed for lead removal, such as ceramic tile demolition (for example), periodically mist the work area and materials to be impacted to maintain a wet condition and avoid the creation of airborne dust, which may carry lead.

I. The Contractor shall carry out all impacts to lead-based surface coatings in a manner that will minimize pulverizing, breaking, abrading, or in any other way impacting lead-containing paints and generating airborne lead-containing dust.

J. Once all removal activities have been completed, clean-up of the work areas shall be conducted in accordance with Article 3.11 - Clean-Up.

K. Dispose of all lead-containing/contaminated waste in accordance with Article 3.13 - Disposal Procedures.

3.03 DECONTAMINATION ENCLOSURE SYSTEM

A. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the work area. At a minimum, one, three-stage system at a single location is preferred. Each work area where negative pressure enclosure is the selected method of engineering controls shall have a worker decontamination unit.

In the event that a three-stage decontamination unit includes a shower, the shower must be connected to a water source and have a water filtration unit attached and functioning. As an alternate, a cleansing station may be used. See Item E below.

B. Worker decontamination enclosure systems constructed at the Project site shall utilize six-mil, fire-retardant polyethylene sheeting, or other approved materials for privacy.

C. Personnel Decontamination Units shall not be located inside the work area(s) unless specifically authorized by the Environmental Consultant.

D. Alternate methods of providing Decontamination facilities may be submitted to the Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization from Owner Representative and/or Consultant.

E. The worker decontamination enclosure system shall consist of at least a cleansing station in accordance with the requirements of 8 CCR 1527 and 8 CCR 1529, equipped with adequate water, towels and cleansing agents to accommodate the entire crew and visitors.

F. All polyethylene barriers and decontamination enclosure systems shall be inspected at least twice daily by the Contractor's competent person prior to the start of each day's abatement activities and following the completion of the day's abatement activities.

G. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

3.04 WORKPLACE ENTRY AND EXIT PROCEDURES

A. All workers and authorized personnel shall enter the regulated area through the decontamination enclosure system.

B. All personnel shall proceed first to the clean room, remove all street clothes, and appropriately don respiratory protection (as approved for the job conditions) and disposable coveralls, head covering and foot covering. Hard hats, eye protection and gloves shall also be utilized, if required. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the regulated area.

C. Personnel wearing designated personal protective equipment shall proceed from the clean room through the decontamination enclosure system to the regulated area.

D. Before leaving the regulated area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing or wet wiping procedures. Small HEPA vacuums with brush attachments may be utilized for this purpose. Each person shall clean bottoms of protective footwear in the walk-off pan just prior to entering the equipment room/pre-shower chamber.

E. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable clothing into appropriately labeled containers for disposal.

F. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the regulated area. Upon completion of abatement, it shall be disposed of as asbestos contaminated waste. Rubber boots may be decontaminated at the completion of the abatement for reuse.

G. Workers will decontaminate all respirators and non-porous items with wet towels, rags provided in the equipment room. Workers will remove filter cartridges and dispose of them in the bag or receptacle provided in the equipment room. Workers will also wet wipe and decontaminate themselves in this location. Contaminated towels and suits shall be placed in bags/receptacles before proceeding to the clean room.

H. Workers shall not eat, drink, smoke, and chew gum or tobacco in the regulated area. To eat, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-regulated areas of the building.

I. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the regulated area. They shall be secured to prevent access from uncontaminated areas, but still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress, if needed. These exits may be through the decontamination enclosure, the waste pass-out airlock, and/or other alternative exits that are satisfactory to fire officials.

3.05 WASTE CONTAINER PASS-OUT PROCEDURE

A. Lead contaminated waste that has been containerized shall be transported out of the regulated area through the waste container pass-out airlock (or through the decontamination enclosure if a separate airlock has not been constructed). Wherever possible, this shall be located where there is direct access from the regulated area to the outside of the building and the waste storage/disposal container. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and curtain doorway designs. This airlock system shall not be used to enter or exit the regulated area. The airlock system shall be tightly sealed when not in use.

B. The inside team wearing protective clothing and respirators appropriate for the contaminated regulated area shall clean the entire surface, including bottoms, of properly labeled bags, using

HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock where they will be placed into another properly labeled bag. No worker from the inside team shall further exit the regulated area through this airlock.

C. Workers from outside the regulated area wearing appropriately assigned respirators shall enter the airlock from outside the regulated area solely for waste removal from the work area. No worker from the outside team shall further enter the regulated area through this airlock.

D. The exit from this airlock shall be secured to prevent unauthorized entry when not in use.

3.06 WATER COLLECTION AND DISPOSAL

A. All water resulting from the pre-cleaning operation, excess from the floor of regulated area, decontamination water, and the final cleaning operation shall be collected and placed in a sealed container(s) for disposal as hazardous waste or for waste characterization to determine if it is hazardous waste. No water shall be disposed of in sanitary sewers or storm drains.

3.07 WET REMOVAL PROCEDURE

A. Wet all lead containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations when the material is disturbed. Saturate the material to the substrate. Keep all removed material wet to prevent dust release until it can be containerized for disposal.

B. Saturated lead waste shall be removed in manageable sections, but as large as practical. Removed material should be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

C. Bags shall be considered full when half their capacity has been filled. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire or cord.

D. Large components removed intact may be wrapped in two (2) layers of six (6) mil polyethylene sheeting secured with tape for transport to the approved disposal site.

E. Lead containing waste with sharp edged components (e.g., nails, screws, metal lathe, tin sheeting) shall be placed into drums for disposal in lieu of polyethylene bags. Drums shall be marked to differentiate contents from those drums containing bagged material.

F. After completion of all stripping work, surfaces from which lead has been removed such as plaster base coat or metal deck, etc., the surfaces shall be wet brushed and sponged to remove all visible residues.

3.08 ENCAPSULATION/STABILIZATION PROCEDURES

A. Clean and isolate the regulated area as specified in Subpart entitled "3.02 LBP/Lead-Containing Surface Coating Impacts", hereinbefore.

B. Repair damaged and missing areas of existing materials with non-lead-containing substitutes. Material must adhere adequately to existing surfaces and provide an adequate base for application of encapsulating agents. Filler material shall be applied in accordance with manufacturer's recommended specifications.

C. Feather back rough edges of paint by carefully sanding with HEPA equipped sanders.

D. Spray apply with airless equipment with low nozzle pressure to all surfaces where lead is removed or surfaces containing lead that are to remain in place. Spray must completely encapsulate any remaining lead, permanently locking it in place.

E. Apply a minimum of one (1) coat with coverage in strict accordance with manufacturer's recommendations. Surfaces must be dry and free of dirt, oil and dust.

3.09 AIR MONITORING

A. The Consultant (Owner's Representative) shall perform the ambient air sampling. All sample collection procedures and evaluation to determine employee exposure levels (Contractor responsibility) shall conform to the requirements of OSHA Standard 29 CFR 1926.62 or 8 CCR 1532.1. For exterior lead abatement areas, a minimum of two upwind and two downwind ambient air samples (one at each of four sides of the area is acceptable) shall be collected during the disturbance of lead containing materials (e.g., stabilization and coating). For interior lead abatement areas air samples shall be collected outside the perimeter of the regulated area(s), outside the decontamination unit, and outside the waste load-out unit. The samples shall be placed as close as practical to the affected area.

B. All samples collected shall be analyzed on a 24-hour turnaround basis by a laboratory accredited by the California Environmental Laboratory Accreditation Program (CA ELAP) and the American Industrial Hygiene Association Laboratory Accreditation Programs, LLC (AIHA-LAP) under their Environmental Lead Laboratory Accreditation Program (ELLAP). The results of each analysis shall be submitted to the Owner's Representative within two hours of receipt from the lab. Copies of the analysis results shall also be made available to Owner Representative and the Contractor upon request and posted in the clean room or break area on the day of receipt from the lab.

C. Documentation requirements must include the following, as a minimum:

Air Sampling Procedures: Sampling times, sampling locations (with appropriate diagrams), evidence of periodic inspection of sampling equipment, documentation of pre and post calibration of equipment, detailed description of work conditions, description of worker protective devices, and a description of any atypical environmental conditions.

D. Minimum testing required for the project shall consist of the following:

1. Exterior Testing During Exterior Paint Disturbance: Area air samples will be collected at the perimeters of the regulated area.

2. Personal Sampling for OSHA - PEL and Action Level - As required by 29CFR 1926.62 samples shall be within the breathing zone of each worker category (i.e., wetter, receiver, bagger, etc.) 25% of the crew, or one per job category (Contractor responsibility).

E. Daily Personal Air Monitoring (OSHA Compliance):

1. Daily determination of employee exposure during LBP disturbance (e.g., exterior paint stabilization and coating disturbance) shall be made by collecting one or more breathing zone samples that are representative of the 8-hour TWA, full-shift exposure for each employee in each regulated area.

2. Daily testing may be dispensed with if employees are equipped with supplied-air respirators operated in a positive-pressure mode while performing abatement work or sampling indicates that exposures do not exceed the OSHA Action Level.

3. Daily testing may also be dispensed with if the contractor is in possession of a negative exposure assessment performed in accordance with 8 CCR 1532.1 on the same workers for like tasks within the last 12 months.

3.10 WORK STOPPAGE

A. The Owner's Representative has the authority to stop the abatement work under the provisions of the General Conditions of this contract at any time he/she determines either personally or through the services of the air sampling professional that conditions are not in compliance with the specifications and applicable regulations. The stoppage of work shall continue until conditions have been corrected and corrective steps have been taken to the satisfaction of the Owner's Representative. Standby time required to resolve violations shall be at the Contractor's expense.

B. When exterior paint is being stabilized or removed any visible debris or dust must not migrate beyond the work area. If wind conditions cause this to occur, then work shall stop until the wind decreases to allow for no further dust/debris migration. Wind speed of over 10 mph may cause this. As such wind conditions expected for the days of work must be considered when planning these activities.

3.11 CLEANUP PROCEDURE

A. Remove and containerize all visible accumulations of lead and lead contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor containment sheeting, when present.

B. Wet clean all surfaces in the regulated area using rags, mops and sponges as appropriate. (Note: Some HEPA vacuums might not be wet-dry vacuums.)

C. Prior to removing the inner layer of plastic sheeting, the sheeting shall be sprayed with an encapsulant so that any residue remaining will be adhered to the plastic sheeting.

D. Remove the cleaned inner layer of plastic sheeting from walls and floors. Windows, doors, HVAC system vents and all other openings shall remain sealed. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

E. Remove all containerized waste from the regulated area and waste container pass-out airlock. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

F. The Owner's Representative and the Contractor shall inspect the regulated area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the cleaning cycle shall be repeated.

3.12 CLEARANCE TESTING

A. If requested by Owner Representative only interior floor surfaces will be sampled. Floor wipe samples will be collected from each affected interior space, as necessary.

B. Submit samples to an CA ELAP certified laboratory for analysis.

C. The floor wipe sampling clearance criteria is 10 microgram per square foot (per July 9, 2019 amendment to 745.65; Lead-based paint hazards which reads "(b) Dust-lead hazard. A dust-lead hazard is surface dust in a residential dwelling or child-occupied facility that contains a mass-per-area concentration of lead equal to or exceeding 10 μg/ft^2 on floors or 100 μg/ft^2 on interior windowsills based on wipe samples."

D. Should laboratory results indicate that floor wipe clearance level is exceeded, the Contractor shall remove additional soil or reclean the affected areas, at no additional cost to the Owner, utilizing the methods specified above. Retesting will then be performed to verify compliance with the mandated levels. The Owner will pay for the initial clearance testing and one re-testing. The cost of any further retesting, necessitated as a result of failure to meet requirements for clearance, shall be borne by the Contractor.

3.13 DISPOSAL PROCEDURES

A. Contractor is responsible for characterization of lead waste prior to waste being transported off site. All waste characterization samples must be taken under the supervision of the Project Environmental Consultant. Characterization sample results must be submitted to the Owner and/or Project Environmental Consultant for review prior to waste being transported off site.

B. All lead wastes shall be either disposed of as construction debris (if STLC/TCLP results allow) or lead-containing waste (with attendant RCRA codes, if STLC/TCLP results so require).

C. All hazardous wastes must be disposed of by a certified waste hauler approved by the Owner.

D. Obtain the EPA Hazardous Waste Generator Identification Number and State of California Hazardous Waste Tax Identification Number from the Owner.

E. All hazardous waste manifests, non-hazardous material data forms and bills of lading shall be delivered to the Project Environmental Consultant. Record keeping format shall utilize a chain of custody form which includes the names and addresses of the Generator (Owner), Contractor, Waste Hauler, pickup site, disposal site, the estimated quantity of the asbestos waste and the type of containers used. The form shall be signed by the Generator, Contractor, Waste Hauler and the Disposal Site Operator, as the responsibility for the material changes hands.

3.14 ALTERNATIVE PROCEDURES

A. If specified procedures cannot be utilized, a request shall be made in writing to the Owner Representative and Consultant providing details of the problem encountered and recommended alternatives.

B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.

C Any alternative procedure must be approved in writing by the Environmental Consultant and the Owner Representative prior to the implementation of the procedure.

END OF SECTION