

**ADDENDUM NO. 3**

May 2, 2024

**Roosevelt Middle School Gym Roof Replacement Project  
OAKLAND UNIFIED SCHOOL DISTRICT**

**OUSD PROJECT NUMBER 24118**

Oakland Unified School District  
Facilities Planning & Management  
955 High Street, Oakland, CA 94601

The following changes, additions, modifications, and corrections hereinafter set forth shall apply to the Bid Documents for the project and shall be made a part thereof and subject to all the requirements thereof, as if originally specified and/or shown.

Addendum No. 3 to cover the following:

Ref #1: Adding Asbestos and Lead Survey Testing Results

Ref #2: Adding related drawings

See attachment

**RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON  
THE FORM OF PROPOSAL**

End of Addendum No. 3



# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Tel/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 092407395

Customer ID: ACCE56

Customer PO: 3024-304.00

Project ID:

**Attention:** Stephen Jackson  
ACC Environmental Consultants, Inc.  
7977 Capwell Drive  
Suite 100  
Oakland, CA 94621

**Phone:** (510) 638-8400

**Fax:**

**Received Date:** 04/17/2024 3:30 PM

**Analysis Date:** 04/19/2024 - 04/20/2024

**Collected Date:** 04/17/2024

**Project:** 3024-304.00 - ROOSEVELT MIDDLE SCHOOL GYMNASIUM - LIMITED ASBESTOS AND LEAD SURVEY -  
1926 E 19TH STREET, OAKLAND, CALIFORNIA

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RR-1-1-Roofing  092407395-0001	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - N LOWER ROOF - N FIELD	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
RR-1-1-Membrane  092407395-0001A	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - N LOWER ROOF - N FIELD	White/Yellow Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RR-1-1-Backing  092407395-0001B	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - N LOWER ROOF - N FIELD	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
RR-1-1-Tar  092407395-0001C	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - N LOWER ROOF - N FIELD	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RR-1-2-Roofing  092407395-0002	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - CENTER ROOF - E FIELD	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
RR-1-2-Membrane  092407395-0002A	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - CENTER ROOF - E FIELD	White/Yellow Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RR-1-2-Backing  092407395-0002B	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - CENTER ROOF - E FIELD	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected

Initial report from: 04/20/2024 19:34:06



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**EMSL Order:** 092407395  
**Customer ID:** ACCE56  
**Customer PO:** 3024-304.00  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RR-1-2-Tar <small>092407395-0002C</small>	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - CENTER ROOF - E FIELD	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RR-1-3-Roofing <small>092407395-0003</small>	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - S LOWER ROOF - E FIELD	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
RR-1-3-Membrane <small>092407395-0003A</small>	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - S LOWER ROOF - E FIELD	White/Yellow Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RR-1-3-Backing <small>092407395-0003B</small>	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - S LOWER ROOF - E FIELD	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
RR-1-3-Tar <small>092407395-0003C</small>	BLACK ROLLED ROOFING, GRAY FIBROUS BACKING - GYMNASIUM ROOF : ALL AREAS - FIELD - S LOWER ROOF - E FIELD	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
PA-2-1-Membrane <small>092407395-0004</small>	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - N LOWER ROOF - NE PARAPET	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
PA-2-1-Roofing <small>092407395-0004A</small>	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - N LOWER ROOF - NE PARAPET	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
PA-2-1-Tar <small>092407395-0004B</small>	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - N LOWER ROOF - NE PARAPET	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected

Initial report from: 04/20/2024 19:34:06



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**EMSL Order:** 092407395  
**Customer ID:** ACCE56  
**Customer PO:** 3024-304.00  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PA-2-2-Membrane  092407395-0005	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - CENTER ROOF - E PARAPET	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
PA-2-2-Roofing  092407395-0005A	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - CENTER ROOF - E PARAPET	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
PA-2-2-Tar  092407395-0005B	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - CENTER ROOF - E PARAPET	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
PA-2-3-Membrane  092407395-0006	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - S LOWER ROOF - NE PARAPET	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
PA-2-3-Roofing  092407395-0006A	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - S LOWER ROOF - NE PARAPET	Black Fibrous Homogeneous	10% Glass	80% Matrix 10% Non-fibrous (Other)	None Detected
PA-2-3-Tar  092407395-0006B	WHITE - BLACK PARAPET MATERIAL - GYMNASIUM ROOF : ALL AREAS - PARAPETS - S LOWER ROOF - NE PARAPET	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
JM-3-1-Mastic 1  092407395-0007	GRAY HVAC JOINT MASTIC - GYMNASIUM ROOF : ALL AREAS - HVAC UNITS AND PARTIAL PENETRATIONS - N LOWER ROOF - HVAC UNIT	Gray Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected

Initial report from: 04/20/2024 19:34:06



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**EMSL Order:** 092407395  
**Customer ID:** ACCE56  
**Customer PO:** 3024-304.00  
**Project ID:**

## Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
JM-3-1-Mastic 2  092407395-0007A	GRAY HVAC JOINT MASTIC - GYMNASIUM ROOF : ALL AREAS - HVAC UNITS AND PARTIAL PENETRATIONS - N LOWER ROOF - HVAC UNIT	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
JM-3-2-Mastic 1  092407395-0008	GRAY HVAC JOINT MASTIC - GYMNASIUM ROOF : ALL AREAS - HVAC UNITS AND PARTIAL PENETRATIONS - S LOWER ROOF - HVAC UNIT	Gray/White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
JM-3-2-Mastic 2  092407395-0008A	GRAY HVAC JOINT MASTIC - GYMNASIUM ROOF : ALL AREAS - HVAC UNITS AND PARTIAL PENETRATIONS - S LOWER ROOF - HVAC UNIT	Gray/Tan Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RP-4-1-Roof Penetration  092407395-0009	WHITE ROOF PENETRATION - GYMNASIUM ROOF : ALL AREAS - PENETRATION - N LOWER ROOF - NW PENETRATION	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RP-4-1-Tar  092407395-0009A	WHITE ROOF PENETRATION - GYMNASIUM ROOF : ALL AREAS - PENETRATION - N LOWER ROOF - NW PENETRATION	Black Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RP-4-2-Roof Penetration  092407395-0010	WHITE ROOF PENETRATION - GYMNASIUM ROOF : ALL AREAS - PENETRATION - S LOWER ROOF - N PENETRATION	White Non-Fibrous Homogeneous		80% Matrix 20% Non-fibrous (Other)	None Detected
RP-4-2-Tar  092407395-0010A	WHITE ROOF PENETRATION - GYMNASIUM ROOF : ALL AREAS - PENETRATION - S LOWER ROOF - N PENETRATION	Black Non-Fibrous Homogeneous	4% Cellulose	80% Matrix 16% Non-fibrous (Other)	None Detected

Initial report from: 04/20/2024 19:34:06



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**EMSL Order:** 092407395

**Customer ID:** ACCE56

**Customer PO:** 3024-304.00

**Project ID:**

Analyst(s)

*Vivian Lee (23)*

*David Nguyen (6)*

Oscar Merino, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from: 04/20/2024 19:34:06

#092407395



# COC - BULK SAMPLE CHAIN-OF-CUSTODY

Analysis Requested:	<b>Polarized Light Microscopy</b>	Stop at 1st Positive?	No	Turnaround Time:	<b>48-Hour</b>
PM Information:	Stephen Jackson	Email:	<a href="mailto:sjackson@accenv.com">sjackson@accenv.com</a>	Phone:	(510) 512-8320
Project Name:	Roosevelt Middle School Gymnasium – Limited Asbestos and Lead Survey				
Project Address:	1926 E 19 <sup>th</sup> Street, Oakland, California			Project Number:	3024-304.00
Technician Name:	Davis Leach: CSST #10-6822; LRC-ST #00007302			Collection Date:	April 17, 2024

Comments:

ID	Material Description	Material Location	Sample Location	Quantity*
RR-1-1	Black Rolled Roofing, Gray Fibrous Backing	Gymnasium Roof: All Areas - Field	N Lower Roof – N Field	15,760 SF
RR-1-2			Center Roof – E Field	
RR-1-3			S Lower Roof – E Field	
PA-2-1	White, Black Parapet Material	Gymnasium Roof: All Areas - Parapets	N Lower Roof – NE Parapet	2,000 SF
PA-2-2			Center Roof – E Parapet	
PA-2-3			S Lower Roof – NE Parapet	
JM-3-1	Gray HVAC Joint Mastic	Gymnasium Roof: All Areas - HVAC Units and Partial Penetrations	N Lower Roof – HVAC Unit	300 SF
JM-3-2			S Lower Roof – HVAC Unit	
RP-4-1	White Roof Penetration	Gymnasium Roof: All Areas - Penetrations	N Lower Roof – NW Penetration	2,000 SF
RP-4-2			S Lower Roof – N Penetration	

\*Approximate quantities listed are project scope (Subject Area) related and may not account for total overall quantities of the building.

Released:	Davis Leach	Signature:		Date:	4/17/24	Time:	15:30
Received:	<i>em will</i>	Signature:		Date:	<i>4/17/24</i>	Time:	<i>3:30 PM</i>
Lab Info:	EMSL Analytical, Inc.: 464 McCormick Street, San Leandro, California 94577 - (510) 895-3675						

[www.accenv.com](http://www.accenv.com)

Northern California: 7977 Capwell Drive, Suite 100 • Oakland, California 94621 • (510) 638-8400  
 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240  
 Washington: 24 Roy Street #432, Seattle, Washington 98109 • (800) 525-8838



# LA Testing

5431 Industrial Drive, Huntington Beach, CA 92649  
Phone/Fax: (714) 828-4999 / (714) 828-4944  
<http://www.LATesting.com> [hblab@latestesting.com](mailto:hblab@latestesting.com)

LA Testing Order: 332407305  
CustomerID: ACCE56  
CustomerPO:  
ProjectID:

Attn: **Stephen Jackson**  
**ACC Environmental Consultants, Inc.**  
**7977 Capwell Drive**  
**Suite 100**  
**Oakland, CA 94621**

Phone: (510) 638-8400  
Fax:  
Received: 4/18/2024 09:45 AM  
Collected: 4/17/2024

Project: 3024304.00 - ROOSEVELT MIDDLE SCHOOL GYMNASIUM - LIMITED ASBESTOS AND LEAD SURVEY - 1926 E 19TH STREET, OAKLAND,

## Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)\*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
PT-1 332407305-0001	4/17/2024	4/19/2024	0.2549 g	0.0080 % wt	0.025 % wt
Site: N LOWER ROOF - NE PARAPET Desc: RED PAINT OVER EXTERIOR PARAPET RAILING					

Michael Chapman, Laboratory Manager  
or other approved signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.  
Analysis following Lead in Paint by LA Testing SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.  
Samples analyzed by LA Testing Huntington Beach, CA AIHA LAP, LLC-ELLAP Accredited #101650, CA ELAP 1406

Initial report from 04/19/2024 16:19:33



#332407305

T047663



SPR - INACCESSIBLE AREAS, NOTABLE OBSERVATIONS

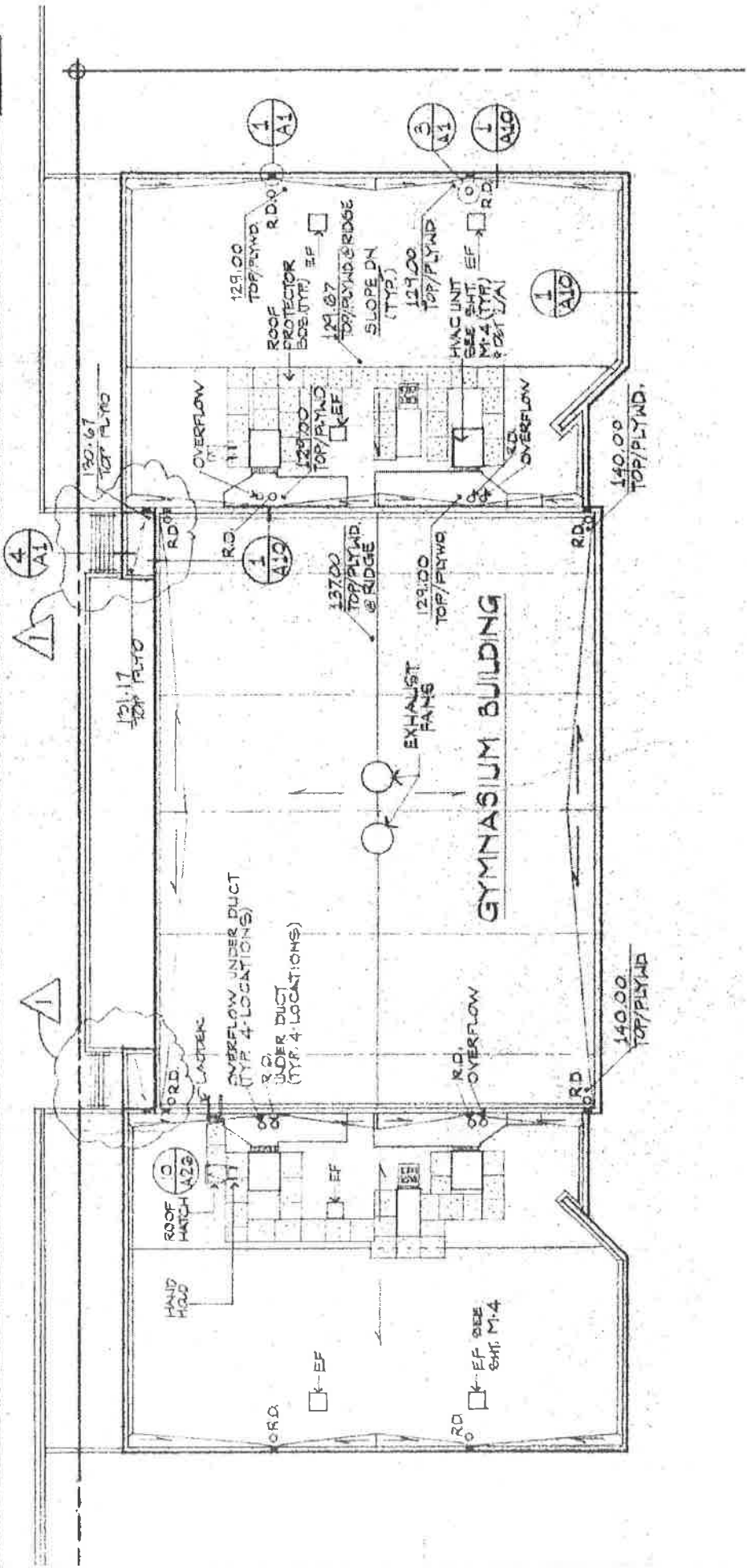
Analysis Requested:	<b>Polarized Light Microscopy</b>	Stop at 1st Positive?	<b>No</b>	Turnaround Time:	<b>48-Hour</b>
PM Information:	Stephen Jackson	Email:	<a href="mailto:sjackson@accenv.com">sjackson@accenv.com</a>	Phone:	(510) 512-8320
Project Name:	Roosevelt Middle School Gymnasium – Limited Asbestos and Lead Survey				
Project Address:	1926 E 19 <sup>th</sup> Street, Oakland, California			Project Number:	3024-304.00
Technician Name:	Davis Leach: CSST #10-6822; LRC-ST #00007302			Collection Date:	April 17, 2024
Analysis Requested:	<b>Lead, Flame AA</b>	Stop at 1st Positive?	<b>No</b>	Turnaround Time:	<b>48-Hour</b>
Comments:					
ID	Material Description	Material Location	Sample Location	Quantity*	Size
PT-1	Red Paint over Exterior Parapet Railing	Gymnasium Roof: All Areas - Parapets	N Lower Roof – NE Parapet	20% L&P	Chip
*Approximate quantities listed represent amounts of loose and peeling paint or total ceramic material observed within the project scope (Subject Area) and may not account for overall quantities for the building.					
Released:	Davis Leach	Signature:		Date:	4/17/24
Received:	JN W/S	Signature:		Date:	4/17/24
Lab Info:	EMSL Analytical, Inc.: 464 McCormick Street, San Leandro, California 94577 - (510) 895-3675				

*Jonathan Santore (FX) 4/18/24 9:45am*

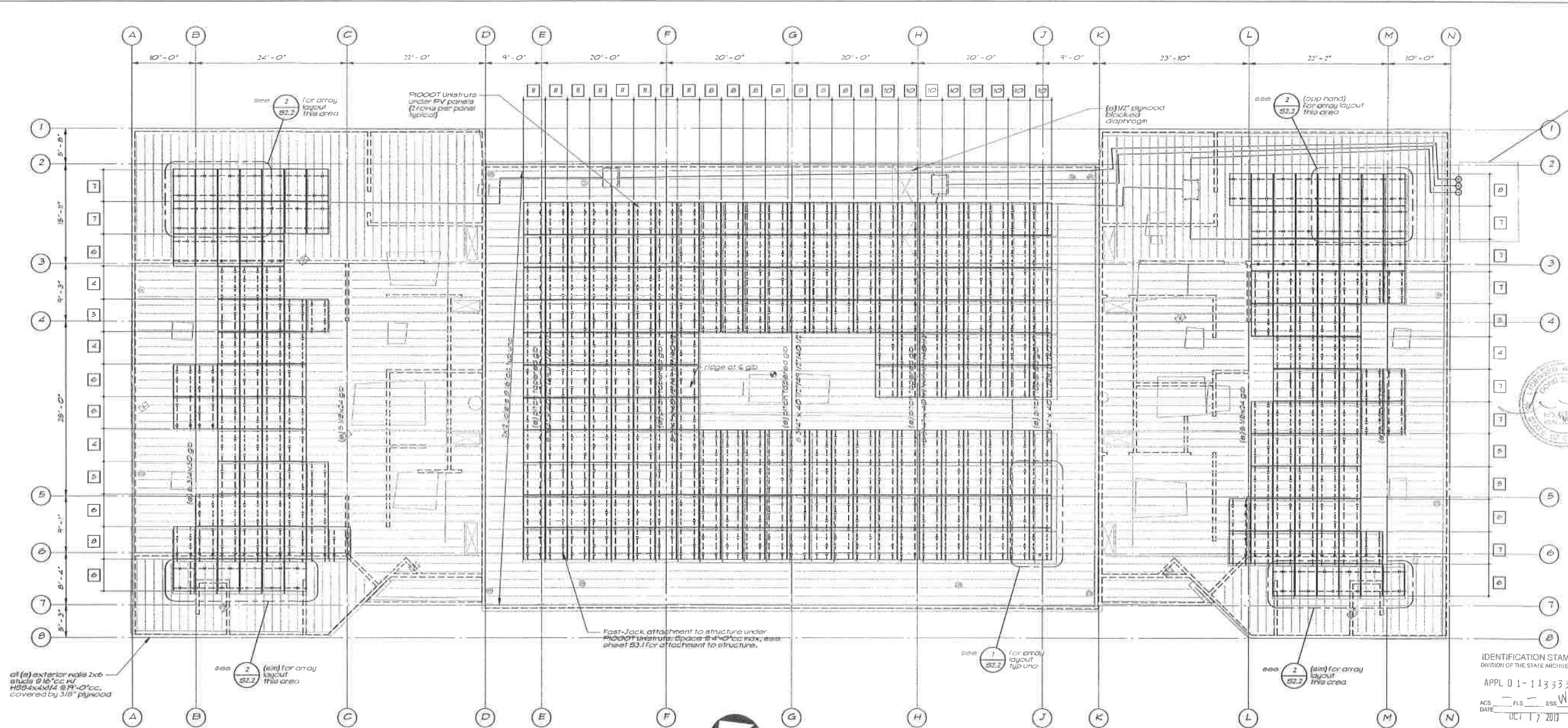
[www.accenv.com](http://www.accenv.com)

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 Southern California: 1055 Wilshire Boulevard, Suite 1450 • Los Angeles, California 90017 • (213) 353-1240  
 Washington: 24 Roy Street #432, Seattle, Washington 98109 • (800) 525-8838

EAST 20TH STREET



10/14/2013 4:17:01 PM C:\Users\scottm\Desktop\Revit\Exch\OUSD\2012-0234\_Rosevelt\_MS\_Local\_RV200\_3.rvt

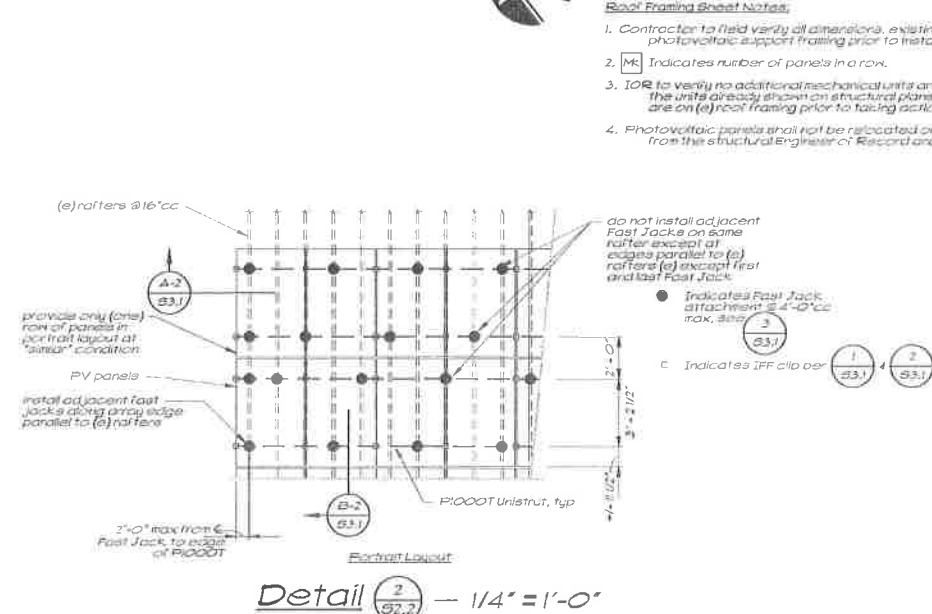
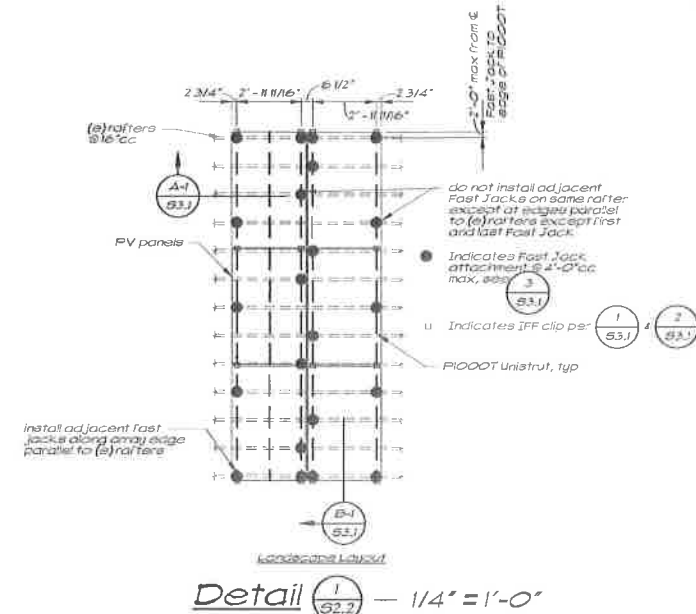


### Building A Roof Framing Plan - 1/8" = 1'-0"

- Roof Framing Sheet Notes:**
- Contractor to field verify all dimensions, existing conditions and layout of new photovoltaic support framing prior to installation of added racking support system.
  - MR Indicates number of panels in a row.
  - IOR to verify no additional mechanical units are situated on the roof framing, other than the units already shown on structural plans. Notify SBOR and DSA if additional units are on (e) roof framing prior to taking action.
  - Photovoltaic panels shall not be relocated on the structural roof without prior approval from the structural Engineer of Record and DSA.

**Design Dead Loading**

<b>(Existing Roof Loads)</b>	
Build-up Roofing	+2.2 psf
1/2" Plywood Sheathing	+1.7 psf
2x12 Joists @ 16" cc	+3.2 psf
Gypsum Beams (B 3/4x4 1/2 @ 20'-0")	+5.3 psf
Insulation (4" batt)	+0.4 psf
Ceiling	+3.8 psf
Misc	+3.0 psf
Misc	+1.4 psf
<b>Total</b>	<b>= 21 psf</b>
<b>(Existing Exterior Note)</b>	
Roofing	+9.0 psf
3/8" Plywood Sheathing	+1.3 psf
2x6 @ 16" cc	+1.5 psf
HSB 4x4x14 @ 19'-0" cc	+0.6 psf
Insulation	+0.4 psf
1/2" gyp bd	+2.2 psf
Misc	+1.1 psf
<b>Total</b>	<b>= 17 psf</b>
<b>(Added Photovoltaic Panels)</b>	
PV panels	-2.35 psf
(P) P1000 support per panel	+0.75 psf
Conduit/misc	+0.4 psf
<b>Total</b>	<b>= 3.8 psf</b>
<b>Total existing bldg seismic wt.</b>	<b>= 506k (w/o PV)</b>
<b>Additional added PV seismic wt.</b>	<b>= 24.6k</b>
<b>Total number of panels</b>	<b>= 390</b>



IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
APPL 01-113333  
ACS - FLS - SSS - WF  
DATE 11/17/2013

**SUNPOWER**

1414 HARBOUR WAY SOUTH  
RICHMOND, CA 94804 USA  
(510) 540-0550

**B&B**  
Buehler & Buehler  
Structural Engineers, Inc.  
415 Market Street, Suite 2200, San Francisco, CA 94102  
415.774.1117

REGISTERED PROFESSIONAL ENGINEER

JAMES D. BUEHLER  
No. 4860  
Civil/Structural  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ARCHITECT

WILLIAM J. WILSON  
No. 10000  
ARCHITECT  
STATE OF CALIFORNIA

OAKLAND USD  
ROOSEVELT MIDDLE SCHOOL  
1926 19TH AVE.  
OAKLAND, CA 94609

BUILDING A ROOF FRAMING PLAN

REVISIONS	DATE	BY	CR
DESIGN	10.11.13	SW	JL
REV	1		

OPPORTUNITY	174329
PROJECT	11089
DATE DRAWN	4-12-13
DRAWN BY	MR

0 1" = 1'

SHEET **S2.2**