

**SOLANO COMMUNITY COLLEGE DISTRICT  
GOVERNING BOARD AGENDA ITEM**

**TO:** **Members of the Governing Board**

**SUBJECT:** **CHANGE ORDER #2 TO MATRIX HG INC. FOR THE  
FAIRFIELD CAMPUS CENTRAL PLANT REPLACEMENT  
PROJECT**

**REQUESTED ACTION:**

☐ Information OR ☒ Approval  
☐ Consent OR ☒ Non-Consent

**SUMMARY:**

Board approval is requested for Change Order #2 to Matrix HG Inc., for the Fairfield Campus Central Plant Replacement Project. On May 3, 2023, the Board approved an agreement with Matrix HG, Inc. for the Fairfield Campus Central Plant Replacement Project.

*CONTINUED ON THE NEXT PAGE*

**STUDENT SUCCESS IMPACT:**

- ☐ Help our students achieve their educational, professional and personal goals  
☐ Basic skills education  
☐ Workforce development and training  
☐ Transfer-level education  
☒ Other: Provide infrastructure that supports classrooms or related College facilities

*Ed. Code: NA Board Policy: NA Estimated Fiscal Impact: \$521,236.64 Measure Q Funds*

**SUPERINTENDENT'S RECOMMENDATION:** ☒ **APPROVAL** ☐ **DISAPPROVAL**  
☐ **NOT REQUIRED** ☐ **TABLE**

Lucky Lofton  
V.P., Facilities and Executive Bonds Manager

**PRESENTER'S NAME**

4000 Suisun Valley Road  
Fairfield, CA 94534

**ADDRESS**

(707) 863-7855

**TELEPHONE NUMBER**

Lucky Lofton  
V.P., Facilities and Executive Bonds Manager

**VICE PRESIDENT APPROVAL**

July 8, 2024

**DATE SUBMITTED TO  
SUPERINTENDENT-PRESIDENT**

**Kellie Sims Butler, Ph.D.**  
Superintendent-President

July 17, 2024

**DATE APPROVED BY  
SUPERINTENDENT-PRESIDENT**

**SOLANO COMMUNITY COLLEGE DISTRICT  
GOVERNING BOARD AGENDA ITEM**

**TO: Members of the Governing Board**

**SUBJECT: CHANGE ORDER #2 TO MATRIX HG INC. FOR THE  
FAIRFIELD CAMPUS CENTRAL PLANT REPLACEMENT  
PROJECT**

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**SUMMARY:**

*CONTINUED FROM THE PREVIOUS PAGE*

During the process of construction and RFI/Submittal review, the following changes needed to be made:

- COR 008.2: Construction Change Directive (CCD) #4 resulted in the need for additional piping supports and structural elements to properly distribute piping loads onto the building structure. This is additional scope not included in the original construction documents.
- COR 11.1: During the bidding phase a Hazardous Materials Report was not available. All contractors were directed to make assumptions in order to complete their bid. A Hazardous Materials Report has since been completed and additional remediation work was discovered. Contractor needed to perform spot removal of lead paint and the complete removal of asbestos containing drywall at the ceiling. This scope was not included in the original construction documents.
- COR 19.3: A temporary chiller was needed in order to provide cooling for the Fairfield Campus as construction of the permanent chillers is completed. Scope of work includes the procurement, installation, and rental fees for a 500 Ton Air Cooled Chiller. Cost includes a rental period of three months.

Matrix HG Inc.'s Change Order #2 request includes all the costs of both time and materials for the above listed items.

Following is a summary of the contract and impact of Change Order #2 if approved:

Original Contract Sum	\$ 8,409,836.64
Approved Change Orders	\$ 479,721.26
<i>Proposed Change Order #2</i>	<u>\$ 521,236.64</u>
<i>Proposed New Contract Amount</i>	\$ 9,410,794.54

The Board is asked to approve Change Order #2 to Matrix HG Inc., in the amount of \$521,236.64.

This document is available online at: <https://welcome.solano.edu/measureq/approved-contracts/>





# Change Order

**Solano Community College District**  
4000 Suisun Valley Road  
Fairfield, CA 94534  
Tel: 707-864-7189 Fax: 707-646-7710

**KITCHELL CEM**  
4000 Suisun Valley Road, Building 1102  
Fairfield, CA 94534

**Change Order #** 002  
**Project No.:** 23-005  
**Date:** 7/17/2024

**DSA File No.:** 48-C1  
**DSA App. No.:** 02-120584

**Project:** Solano Community College District  
Fairfield Campus  
**CENTRAL PLANT REPLACEMENT PROJECT**

**Salas O'Brien**  
305 South 11th, Street  
San Jose, California, 95112

**To:** Matrix HG Inc  
115 Mason Circle  
Concord, CA 94520

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## The Contract is Changed as Follows:

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### COR No.

008.2 CCD #4 resulted in the need for additional supports and structural elements to properly distribute loads onto the building structure. This change order includes all costs associated with this CCD. All labor, materials, and equipment needed to complete this work is included.

\$165,700.34

11.1 At the time of bidding a Hazardous Materials Report was not available. Contractor was directed to make assumptions in order to complete their bid. A report has since been completed and additional scope was identified above the original assumptions. Work includes removal of lead containing paint as needed, and the complete removal of asbestos containing drywall ceilings. All labor, materials, and equipment needed to complete this scope of work is included.

\$128,008.35

19.3 Procurement, installation, and rental fee of Temporary 500 Ton Air Cooled Chiller. Includes all associated labor and material for temporary piping connections. Includes removal of temporary piping connections at completion of work. Includes 3-month rental period, starting 5/1/24.

\$227,527.95

<b>TOTAL COST OF CHANGE ORDER</b>	<b>ADD</b>	\$521,236.64
	<b>DEDUCT</b>	\$0
<b>FINAL CHANGE ORDER AMOUNT</b>		<b>\$521,236.64</b>

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Original Contract Sum:	\$ 8,409,836.64
Total change By Previous Change Orders:	\$ 479,721.26
Contract Sum Prior to This Change Order:	\$ 8,889,557.90
Original Contract Sum will be Increased by This Change Order:	\$521,236.64
<b>The New Contract Sum Including This Change Order Will Be:</b>	<b>\$ 9,410,794.54</b>
<b>The New Contract Completion Date Will Be:</b>	<b>28-Feb-24</b>
Contract Time Will be Changed by This Change Order:	0 Days
The Current Contract Completion Date is:	28-Feb-24

The undersigned Contractor approved the foregoing as to the changes, if any, to the Contract Price specified for each item, and as to the extension of time allowed, if any, for completion of the entire work as stated therein, and agrees to furnish all labor, materials and services and perform all work necessary to complete any additional work specified for the consideration stated therein. Submission of sums which have no basis in fact or which Contractor knows are false are at the sole risk of Contractor and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq.

This change order is subject to approval by the governing board of this District and must be signed by the District. Until such time as this change order is approved by the District's governing board and executed by a duly authorized District representative, this change order is not effective and not binding.

It is expressly understood that the compensation and time, if any, granted herein represent a full accord and satisfaction for any and all time and cost impacts of the items herein, and Contractor waives any and all further compensation or time extension based on the items herein. The value of the extra work or changes expressly includes any and all of the Contractor's costs and expenses and its subcontractors, both direct and indirect, resulting from additional time required on the project or resulting from delay to the project including without limitation, cumulative impacts. Any costs, expenses, damages or time extensions not included are deemed waived.

**PROJECT  
MANAGER**

\_\_\_\_\_  
Noe Ramos  
Kitchell  
4000 Suisun Valley Road  
Fairfield, CA 94534

Date: \_\_\_\_\_

**DESIGN TEAM**

\_\_\_\_\_  
Evan Sarver, PE  
Salas O'Brien  
305 South 11th, Street  
San Jose, California, 95112

Date: \_\_\_\_\_

**DSA PROJECT  
INSPECTOR**

\_\_\_\_\_  
Don Dumford  
Optima Inspections Inc.  
622 Paradise Court  
Fairfield, CA 94533

Date: \_\_\_\_\_

**CONTRACTOR**

\_\_\_\_\_  
Matt Stimson  
Matrix HG, Inc.  
115 Mason Circle  
Concord, CA 94520

Date: \_\_\_\_\_

**OWNER**

\_\_\_\_\_  
Lucky Lofton  
V.P., Facilities and Executive Bonds Manager  
Solano Community College District

Date: \_\_\_\_\_



Solano Community College Central Plant Modernization  
Matrix Job #230477  
**CHANGE ORDER PROPOSAL SUMMARY SHEET**

Owner Ref. No. \_\_\_\_\_  
GC Ref. No. \_\_\_\_\_

Matrix COR No. **230477-08R2**  
Date: **6/14/2024**

Prepared By: **Mitch Lake**

**Change Order Description:** *Per coordination between the SEOR and the Mason West engineer, and per subsequent further evaluation of the piping loads and the structure that they must be attached to, the latest Seismic Submittal 007213-7.1 approval confirms the need for additional hangers and brace arms to properly distribute static and moment loads to the structure. Further evaluation and coordination led to the issuance of CCD 04 which added sistered joists, tube steel cross members, and other means of supports. There are added materials and labor for the extra hangers and brace arms, added blocking, added wood structural members, and added steel members with associated welding. These additional support elements caused added costs for the insulator, the framer, our detailers, and our engineer, as well as other costs captured herein. This cost has been updated with revised quotes from the Framer and Insulator. Rental costs have been removed for separate submission as requested. The following is our revised cost for review and approval.*

**Schedule Impact:** **90 days** (this added scope requires an extension of the contract duration)

<b>HVAC Wet - Labor</b>				<b>HVAC Dry - Labor</b>			
Total	Hrs:	390.45		Total	Hrs:	0.00	
Foreman (X1.5) Rate:	\$ 203.26	0.00	\$ -	23' - 24' Rates	Foreman (X1.5) Rate:	\$ 226.56	0.00 \$ -
Journeyman (X1.5) Rate:	\$ 195.51	0.00	\$ -	Journeyman (X1.5) Rate:	\$ 206.79	0.00	\$ -
Foreman Rate:	\$ 159.15	214.75	\$ 34,177.06	23' - 24' Rates	Foreman Rate:	\$ 177.09	0.00 \$ -
Journeyman Rate:	\$ 153.92	175.70	\$ 27,044.13	Journeyman Rate:	\$ 163.76	0.00	\$ -
Foreman Rate:	\$ 167.66	0.00	\$ -	24' - 25' Rates**	Foreman Rate:	\$ 182.02	0.00 \$ -
Journeyman Rate:	\$ 157.82	0.00	\$ -	Journeyman Rate:	\$ 169.06	0.00	\$ -
<b>Subtotal: \$ 61,221.19</b>				<b>Subtotal: \$ -</b>			

<b>HVAC Wet - Material</b>				<b>HVAC Dry - Material</b>			
Materials:	\$	7,521.89		Materials:	\$	-	
Cartage:	\$	376.09		Cartage:	\$	-	
9.75% Tax:	\$	733.38		9.75% Tax:	\$	-	
<b>Subtotal: \$ 8,631.37</b>				<b>Subtotal: \$ -</b>			

<b>Subcontractors</b>				<b>Rentals</b>			
Framing/Finishes	\$	19,266.00		Rental Equipment:	\$	-	
Concrete:	\$	-		Rental Tools:	\$	1,500.00	
Detailers:	\$	5,406.00		Med Tools:	\$	-	
Roofing:	\$	-		Other:	\$	-	
Electrical:	\$	-					
Abatement:	\$	35,344.00		9.75% Tax:	\$	146.25	
Hoisting/Rigging:	\$	-		Safety:	\$	-	
Controls:	\$	-					
Insulator:	\$	10,100.00					
Engineering:	\$	2,550.00					
<b>Subtotal: \$ 72,666.00</b>				<b>Subtotal: \$ 1,646.25</b>			

<b>Other Costs</b>			
Shop Burden:	\$	-	
Detailing:	\$	1,450.00	
Disposal:	\$	-	
Permits:	\$	-	
Consumables:	\$	488.92	
Safety:	\$	225.66	
<b>Subtotal: \$ 2,164.58</b>			

**Total Labor:** \$ 61,221.19  
**CA WO #16** \$ 2,550.88  
**Total Material & Equipment:** \$ 10,277.62  
**Other Costs:** \$ 2,164.58  
**Subtotal:** \$ **76,214.27**

**Total Subcontractors:** \$ 72,666.00  
**Subcontractor MU:** 5% \$ 3,633.30  
**Direct Work OH&P:** 15% \$ 11,432.14  
**Insurance & Bond:** 2% \$ 1,754.63

**Subtotal:** \$ **165,700.34**

**\*TOTAL COST FOR THIS CHANGE \$ 165,700.34**

I hereby agree to the following costs/extensions and want Matrix to proceed forward with the above change order: X \_\_\_\_\_  
Quoted cost does not include labor escalation; labor has been priced at the current cost at the time this change was quoted. (Customer Signature)

\*This change estimate is based solely on direct cost elements for the work as specifically noted in the description of the change and as listed and priced in the attached estimate. This change proposal pricing does not include any cost for changes in the sequence of the work, delays, disruptions, rescheduling or acceleration to the work and extended overhead beyond those specific items as listed and priced in this proposal. Further, this change does not include cost impacts due to the cumulative affect of multiple changes on this change, other changes and/or the affect to our base contract work. We expressly reserve the right to compensation and notice of potential claim is made, for any and all of the aforementioned costs and related items noted as not included in this change proposal.

# Added Scope Description

The original drawing M1.2.2 located hangers and seismic bracing with is what our bid was based on. Thru the submittal and RFI process, further evaluation of the weights of the utilities, along with the capacity of the existing wood members, caused the need to add to the qty of both hangers and brace arms. The addition of the support members raised concern against joist loading which ultimately caused CCD 4 to be generated which added new tube steel between HSS and added sistered joists.

Breakdown									
	Materials					Labor			
	QTY	Size	Description	Unit \$	Total \$	Unit	Total	Unit	Total
Added Tube Steel									
1			Coordinate Tube Steel Locations						24.00
1			Layout Lead Abatement Locations						4.00
1			Layout Steel Attachment Locations						4.00
1			Cut & Prep Added Tube Steel						8.00
11	5"X5"X3/16"		20' Length Tube Steel		\$ 4,318.47				
1	5"X5"X1/4"		20' Length Tube Steel		Incl'd				
40			Weld Tube Steel Members					3.00	120.00
2	6X10X1/4		Plate	\$ 29.00	\$ 58.00			2.00	4.00
8	1/2"		Anchors	\$ 8.46	\$ 67.68			0.50	4.00
CCD 2 Wall Support									
1			Wall Support		\$ 1,042.59			4.00	4.00
3	5/8"		Anchors	\$ 11.07	\$ 33.21			0.65	1.95
Additional Heating System Supports and Braces									
7	14"		Hanger Assembly (10" Pipe)	\$ 112.00	\$ 784.00	0.75	5.25	1.00	7.00
12	10"		Seismic Assembly	\$ 153.25	\$ 1,839.00	1	12.00	3.00	36.00
1	8"		Seismic Assembly	\$ 153.25	\$ 153.25	1	1.00	3.00	3.00
1	6"		Seismic Assembly	\$ 153.25	\$ 153.25	1	1.00	3.00	3.00
5			Added Support Blocking	\$ 151.46	\$ 757.30	0.25	1.25	1.50	7.50
4			Added Welded Brace Attachments	\$ 25.00	\$ 100.00			1.50	6.00
			Added Layout and Coordination						12.00
			Added Inspections						2.00
			Added Material Handling (2 men 1 hr ea)						2.00
Additional Chilled & Condenser System Supports and Braces									
5	16"		Hanger Assembly (12" Pipe)	\$ 155.00	\$ 775.00	0.75	3.75	1.00	5.00
1	14"		Hanger Assembly (10" Pipe)	\$ 112.00	\$ 112.00	0.75	0.75	1.00	1.00
7	12"		Brace Arm Assembly	\$ 153.25	\$ 1,072.75	1	7.00	3.00	21.00
4	10"		Brace Arm Assembly	\$ 153.25	\$ 613.00	1	4.00	3.00	12.00
1	8"		Brace Arm Assembly	\$ 153.25	\$ 153.25	1	1.00	3.00	3.00
1	6"		Brace Arm Assembly	\$ 153.25	\$ 153.25	1	1.00	3.00	3.00
4			Added Support Blocking	\$ 151.46	\$ 605.84	0.5	2.00	3.25	13.00
10			Added Welded Brace Attachments	\$ 25.00	\$ 250.00			2.00	20.00
			Added Layout and Coordination						8.00
			Added Inspections						6.00
			Added Material Handling (2 men 3 hrs ea)						6.00
			Welding Machine Rental		See Summary				
			Welding Gases & Rod		See Summary				
			Added Insulation		See Summary				
			Added Sistered Joists		See Summary				
			Abatement		See Summary				

**Note: Hanger Assembly Includes:**

Clevis Hanger  
Calcium Silicate  
All Thread Rod  
Hardware  
Beam Clamp and/or Unistrut  
Hanger Size Accounts for Insulation

**Brace Arm Includes:**

Rod Stiffener  
Brace Arm  
Mason Angle Brackets  
Pipe Saddle or Clamp  
Hardware

**Block Assembly Includes:**

1'-4" of Solid Deep Strut  
(2) 4-hole Strut 90 Angle  
(4) 1/2" Stut Channel Nuts  
(8) 1/2" Bolts, nuts, Washers

We assume all work is done during normal hours.  
All HHW work is assumed after the 7/1 rate increase

**Exclusions:** We exclude all other work not specifically noted above.

<b>Subtotal:</b>	<b>\$</b>	<b>7,521.89</b>	<b>40.00</b>	<b>350.45</b>
<b>TOTAL:</b>	<b>\$</b>	<b>7,521.89</b>		<b>390.45</b>

## SUBMITTAL REVIEW

**SUBMITTAL NO. 007213-7.1\_Rev1**

<b>Project Name:</b>	<b>Fairfield Central Plant Modernization</b>	<b>Date:</b>	2/13/2024
<b>Project Number:</b>	2200689	<b>Pages:</b>	11
<b>Section:</b>	00 72 13		
<b>Submittal Description:</b>	Seismic Shop Drawings		

Item No.	Description	Review Action			
		A	B	C	D
Item No. 1	Seismic Shop Drawings - General	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item No. 2	Pipe Stanchion Supports – <b>submit shop dwg separately</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:	
Item No. 1	<ol style="list-style-type: none"> <li>1. Coordinate such that all seismic bracing components listed in the Seismic Shop Drawings are included in the response to SOBE reviewed Submittal #232113-1.2 (Issued 1/25/2024).</li> <li>2. See comments from Structural Engineer of record starting on page 4.</li> <li>3. Supports for sweeper piping in Cooling Tower Yard shall account for response to RFI #34.</li> <li>4. Regarding conduit tray conflict with Substation project: See forthcoming CCD for revisions to hangers in (3) locations in the Boiler Plant.</li> </ol>
Item No. 2	<ol style="list-style-type: none"> <li>1. Contractor to submit separate shop drawings for pipe stanchion supports indicating locations and assembly details (as was promised by Contractor in the Mechanical Piping Shop Dwg Rev2 submittal, in response to Item No. 4). Contractor stated these would be included, yet they have not been included in any submittal to date.</li> </ol> <p>Refer to sheet M-1.2.2, detail 6/M-5.1, and structural details 9 &amp; 10/S-5.2.</p>

**Reviewed by:** Evan Sarver **Date:** 2/13/2024

**Review Action(s) Descriptions:**

A = *No Exceptions*

B = *Exceptions Noted, Resubmittal Not Required*

C = *Exceptions Noted, Resubmit*

D = *Not Acceptable*

**Note:** *The review of these submittals and the markings and/or comments by the Architect/Engineer does not relieve the Contractor from compliance with the requirements and intentions of the drawings and specifications of the project to which the submittals pertain. The review is only to check general compliance with the information given in the contract documents.*





**Kitchell CEM, Inc.**  
2450 Venture Oaks Way Ste 500  
Sacramento, California 95833  
P: (916) 648-9700

**Project: 4927C2 SCCD - Central Plant  
Replacement Project**  
4000 Suisun Valley Road  
Fairfield, California 94534

**Submittal #00 72 13-7.1 - Seismic Shop Drawings - Revision 1  
00 72 13 - GENERAL CONDITIONS**

<b>Revision</b>	1	<b>Submittal Manager</b>	Brittanie Humphries (Matrix HG Inc)
<b>Status</b>	Open	<b>Date Created</b>	Nov 27, 2023
<b>Issue Date</b>	Nov 27, 2023	<b>Spec Section</b>	00 72 13 - GENERAL CONDITIONS
<b>Responsible Contractor</b>	Matrix HG Inc	<b>Received From</b>	Brittanie Humphries (Matrix HG Inc)
<b>Received Date</b>		<b>Submit By</b>	
<b>Final Due Date</b>	Feb 1, 2024	<b>Lead Time</b>	
		<b>Cost Code</b>	
<b>Location</b>		<b>Type</b>	
<b>Approvers</b>	Lakisha Grays (Salas O'Brien Engineering), Tai Mitchell (Salas O'Brien Engineering), Evan Sarver (Salas O'Brien Engineering), Noe Ramos (Kitchell CEM, Inc.)		
<b>Ball in Court</b>	Lakisha Grays (Salas O'Brien Engineering), Tai Mitchell (Salas O'Brien Engineering), Evan Sarver (Salas O'Brien Engineering)		
<b>Distribution</b>	Tai Mitchell (Salas O'Brien Engineering), Noe Ramos (Kitchell CEM, Inc.), Mitchell Lake (Matrix HG Inc), Lakisha Grays (Salas O'Brien Engineering), Evan Sarver (Salas O'Brien Engineering), Andrew Gleeson (Kitchell CEM, Inc.)		
<b>Description</b>	Provide resubmittal per comments on previous submittal.		

**Submittal Workflow**

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Brittanie Humphries		Jan 10, 2024	Jan 11, 2024	Submitted	<a href="#">Seismic Shop Drawings REV1.pdf (Current)</a>
Lakisha Grays	Jan 10, 2024	Jan 25, 2024		Pending	
Tai Mitchell	Jan 10, 2024	Jan 25, 2024		Pending	
Evan Sarver	Jan 10, 2024	Jan 25, 2024		Pending	
Noe Ramos		Feb 1, 2024		Pending	





# Submittal

Date: January,10,2024		Matrix Job #: 230477	
Submittal#:	1	Item#:	Rev#: 1
Project Name: Solano CC Central Plant Replacement			
Location: Fairfield, CA			
Mech Engineer: Salas O'Brien			
Spec Section: 00 72 13		Drawing/ Detail Ref:	
Item Description: Seismic Shop Drawings			
Submittal Type: MPD		Substitution: NO	
SUBMITTAL TYPE KEY: <input checked="" type="radio"/> MPD = Manufacturer Product Data <input type="radio"/> SD = Shop Drawing <input type="radio"/> SK = Sketch <input type="radio"/> SMP = Sample <input type="radio"/> T/R = Test/Report <input type="radio"/> C = Certification <input type="radio"/> AB = AS Built <input type="radio"/> EC = Engineered Calcs <input type="radio"/> DWG = Drawing <input type="radio"/> CH = Schedule <input type="radio"/> IOM = Installation, Operation & Maintenance			
<b>Submittal Certification</b>			
		Matrix has reviewed and approved the enclosed submittal for general conformance with specifications and contract documents Name/Title: Brittanie Humphries Project Engineer	

## Review Comments:

- ☐ NO COMMENTS: FURNISH ITEMS PER SUBMITTAL
- ☐ REVISE AND RESUBMIT
- ☐ SUBMITTAL REJECTED
- ☒ FURNISH AS CORRECTED

This review is only for general conformance with the design concept and the information given in the Construction Documents. Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all work in a safe and satisfactory manner.

**AKH Structural Engineers, Inc.**

BY: T. Hyde/ J. Quintero DATE: 1-25-24

## Note:

See comments on following sheets.

- LEGENDS
- CS COLD WATER
  - CWS CONDENSER WATER SUPPLY
  - CWR CONDENSER WATER RETURN
  - CHWS CHILLED WATER SUPPLY
  - CHWR CHILLED WATER RETURN
  - HHWS HEATING HOT WATER SUPPLY
  - HHWR HEATING HOT WATER RETURN
  - EQ EQUALIZER

**MATRXHG**  
BUILDING SOLUTIONS  
115 MASON CIRCLE  
CONCORD, CA 94520  
T: 925-458-9200  
E: dsparth@matrxhgc.com  
https://www.matrxhgc.com/

**VEC**  
Helping the Best Build Better.  
www.vec-us.com

STAMP

OR CODE

SOLANO COMUNITY COLLEGE  
CENTRAL PLANT MODERNIZATION  
4000 SUISUN VALLEY R., FAIRFIELD, CA 94534  
SUPPORT LAYOUT - CHILLER ROOM


NO. DESCRIPTION DATE

ORIGINAL POINT SEE - 3042

KEY PLAN

CHILLER	BOILER	COOLING TOWER
---------	--------	---------------

JOB NUMBER 230124

ISSUED FOR

DATE

DRAWN BY RB/VG

CHECKED BY VG

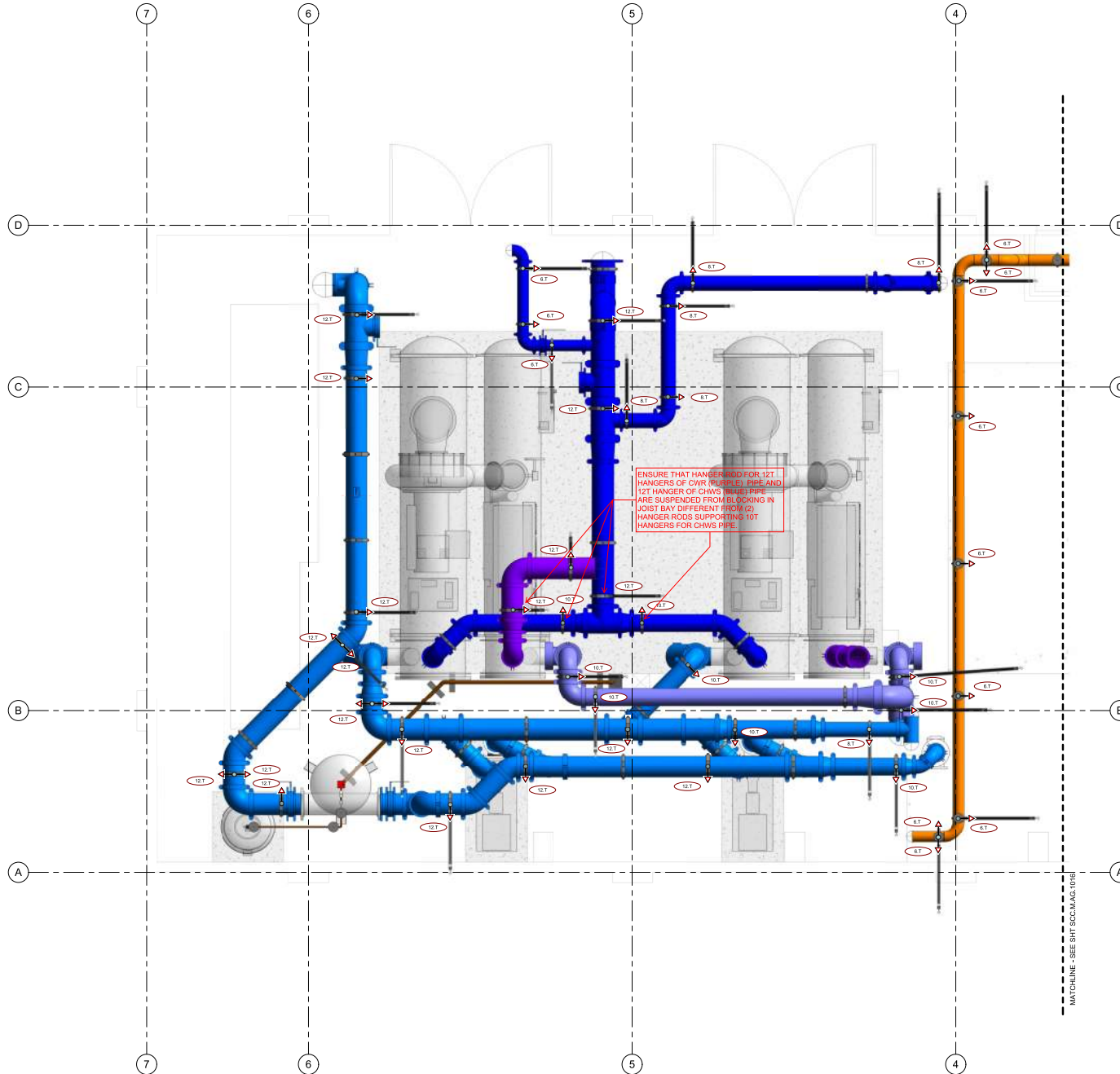
DRAWING SCALE AS SHOWN

SHEET TITLE

SUPPORT LAYOUT - CHILLER ROOM  
SEISMIC BRACING

DRAWING NUMBER

SBSCC.M.AG.1015



1 CHILLER ROOM - PIPE SUPPORT LAYOUT  
1/2" = 1'-0"

- LEGENDS
- CS COLD WATER
  - CWS CONDENSER WATER SUPPLY
  - CWR CONDENSER WATER RETURN
  - CHWS CHILLED WATER SUPPLY
  - CHWR CHILLED WATER RETURN
  - HHWS HEATING HOT WATER SUPPLY
  - HHWR HEATING HOT WATER RETURN
  - EQ EQUALIZER



115 MASON CIRCLE  
CONCORD, CA 94520  
T: 925-458-9200  
E: dsparth@matrxhcn.com  
https://www.matrxhcn.com/



Helping the Best Build Better  
www.vec-us.com

STAMP

OR CODE

SOLANO COMUNITY COLLEGE  
CENTRAL PLANT MODERNIZATION  
4000 SUISUN VALLEY R. FAIRFIELD, CA 94534  
SUPPORT LAYOUT - BOILER ROOM

NO.	DESCRIPTION	DATE

ORIGINAL POINT SEE - 3042

KEY PLAN

CHILLER	BOILER	COOLING TOWER
---------	--------	---------------

JOB NUMBER 238124

ISSUED FOR

DATE

DRAWN BY RS-VIS

CHECKED BY VIS

DRAWING SCALE AS SHOWN

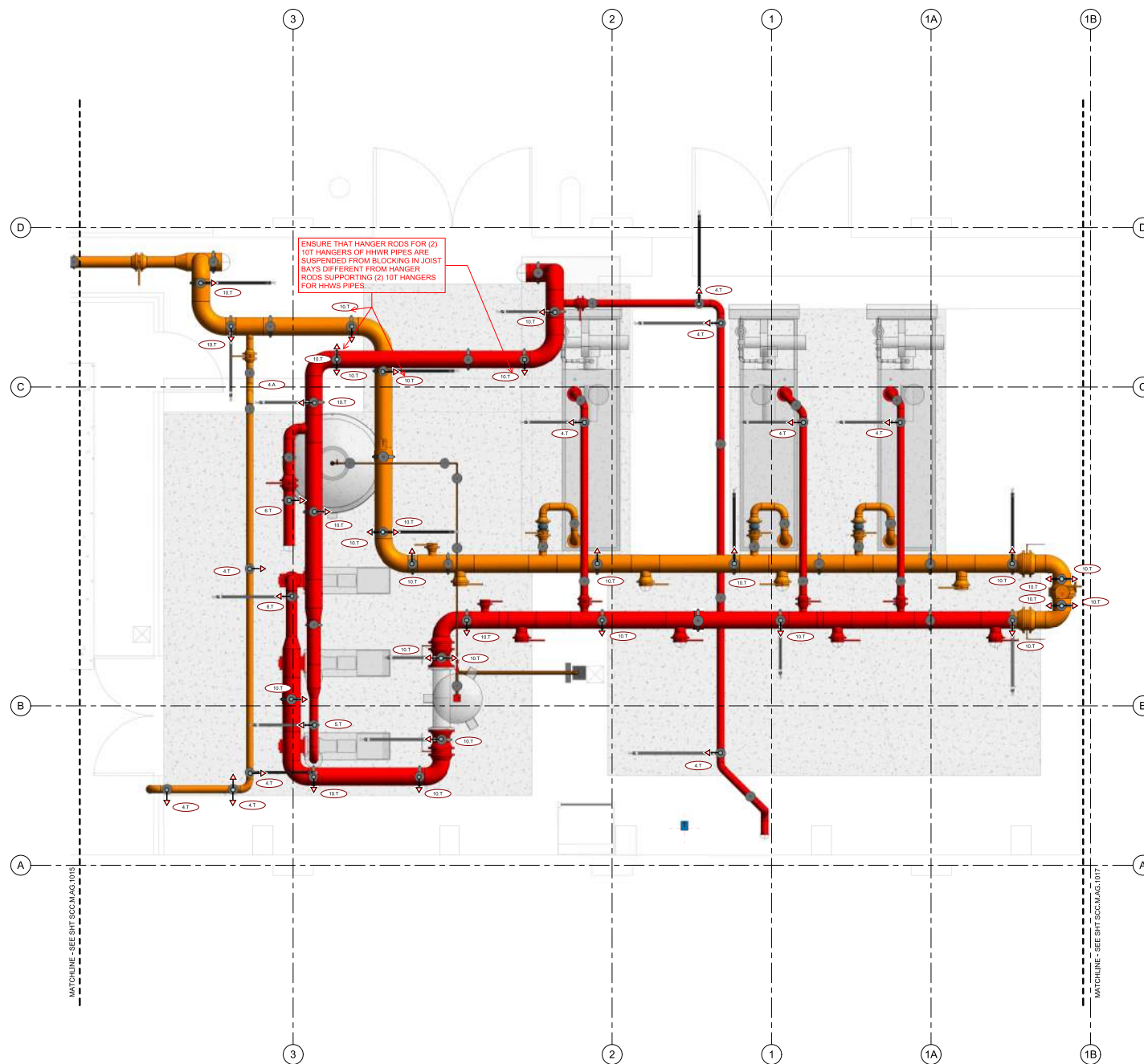
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SUPPORT LAYOUT - BOILER ROOM

SEISMIC BRACING

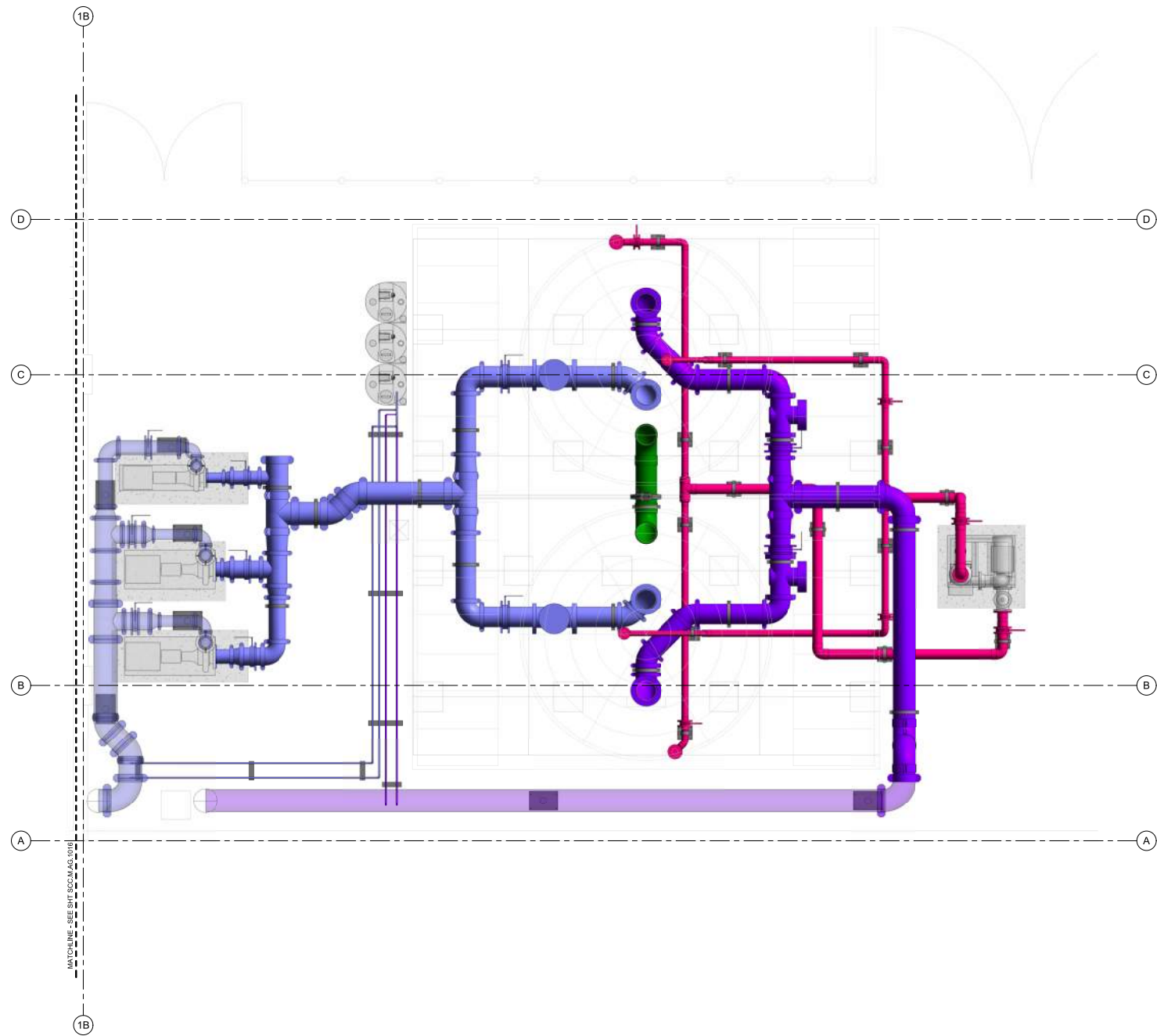
DRAWING NUMBER

SBSCC.MAG.1016



1 BOILER ROOM - PIPE SUPPORT LAYOUT  
1/2" = 1'-0"

CURRENT REVISION #      CORRECT REVISION DATE



- LEGENDS
- CS COLD WATER
  - CWS CONDENSER WATER SUPPLY
  - CWR CONDENSER WATER RETURN
  - CHWS CHILLED WATER SUPPLY
  - CHWR CHILLED WATER RETURN
  - HHWS HEATING HOT WATER SUPPLY
  - HHWR HEATING HOT WATER RETURN
  - EQ EQUALIZER

**MATRXHG**  
BUILDING SOLUTIONS, INC.  
115 MASON CIRCLE  
CONCORD, CA 94520  
T: 925-458-9200  
E: dsparth@matrxhg.com  
<https://www.matrxhg.com/>



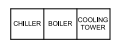
STAMP

QR CODE

SOLANO COMUNITY COLLEGE  
CENTRAL PLANT MODERNIZATION  
4000 SUISUN VALLEY R., FAIRFIELD, CA 94534  
SUPPORT LAYOUT - COOLING TOWER

REV.	DESCRIPTION	DATE

KEY PLAN



JOB NUMBER	230124
ISSUED FOR	
DATE	
DRAWN BY: RS/VG	
CHECKED BY: VG	
DRAWING SCALE	AS SHOWN
SHEET TITLE	

SUPPORT LAYOUT  
- COOLING TOWER  
SEISMIC BRACING

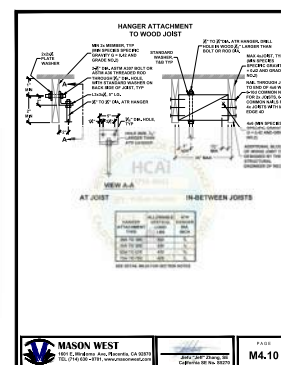
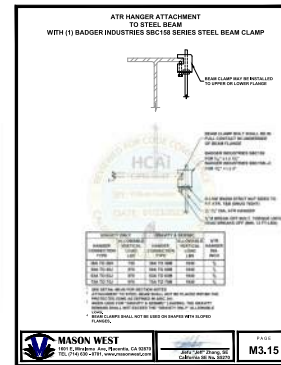
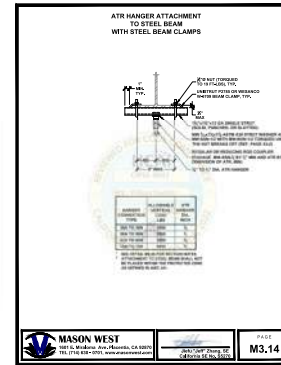
DRAWING NUMBER  
**SBSCC.MAG.1017**

1 COOLING TOWER - PIPE SUPPORT LAYOUT  
1/2" = 1'-0"





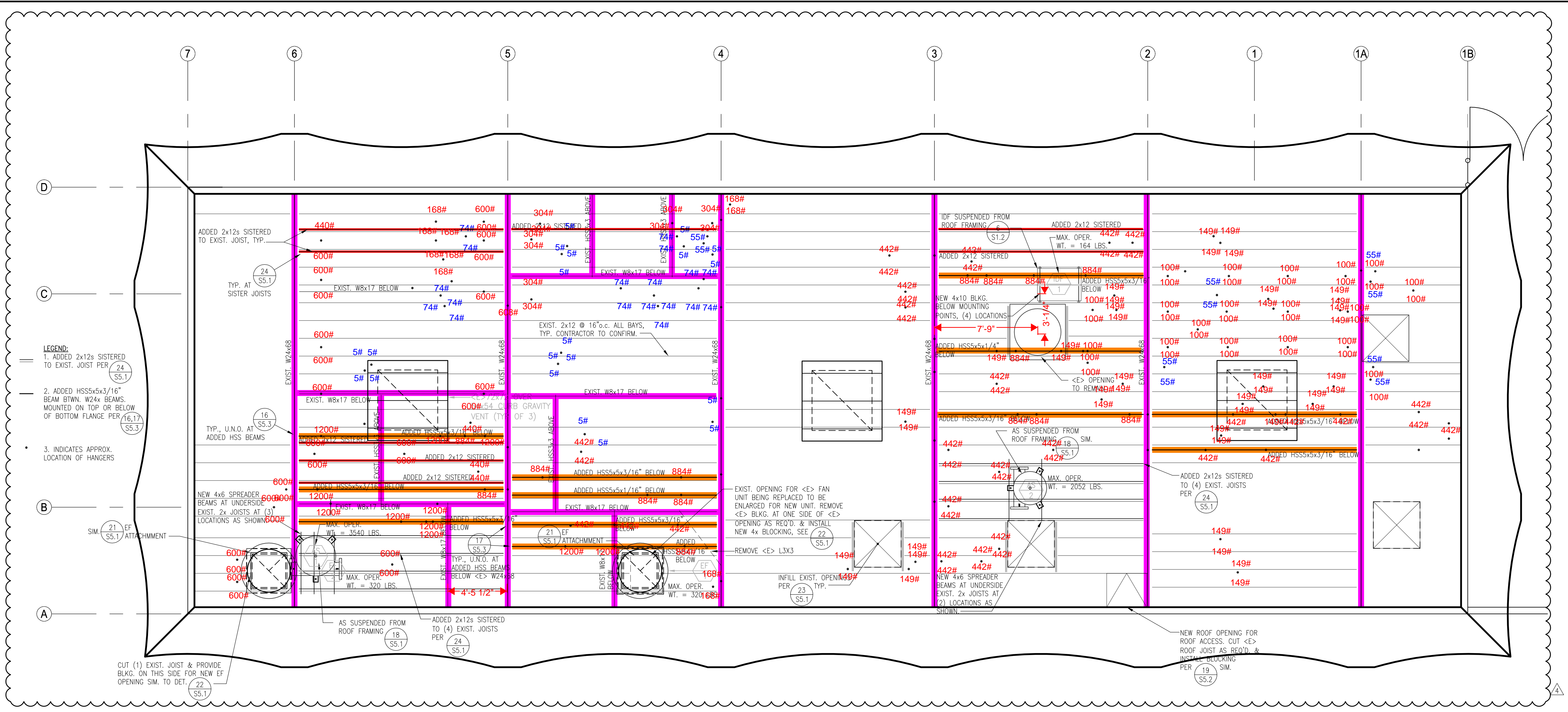




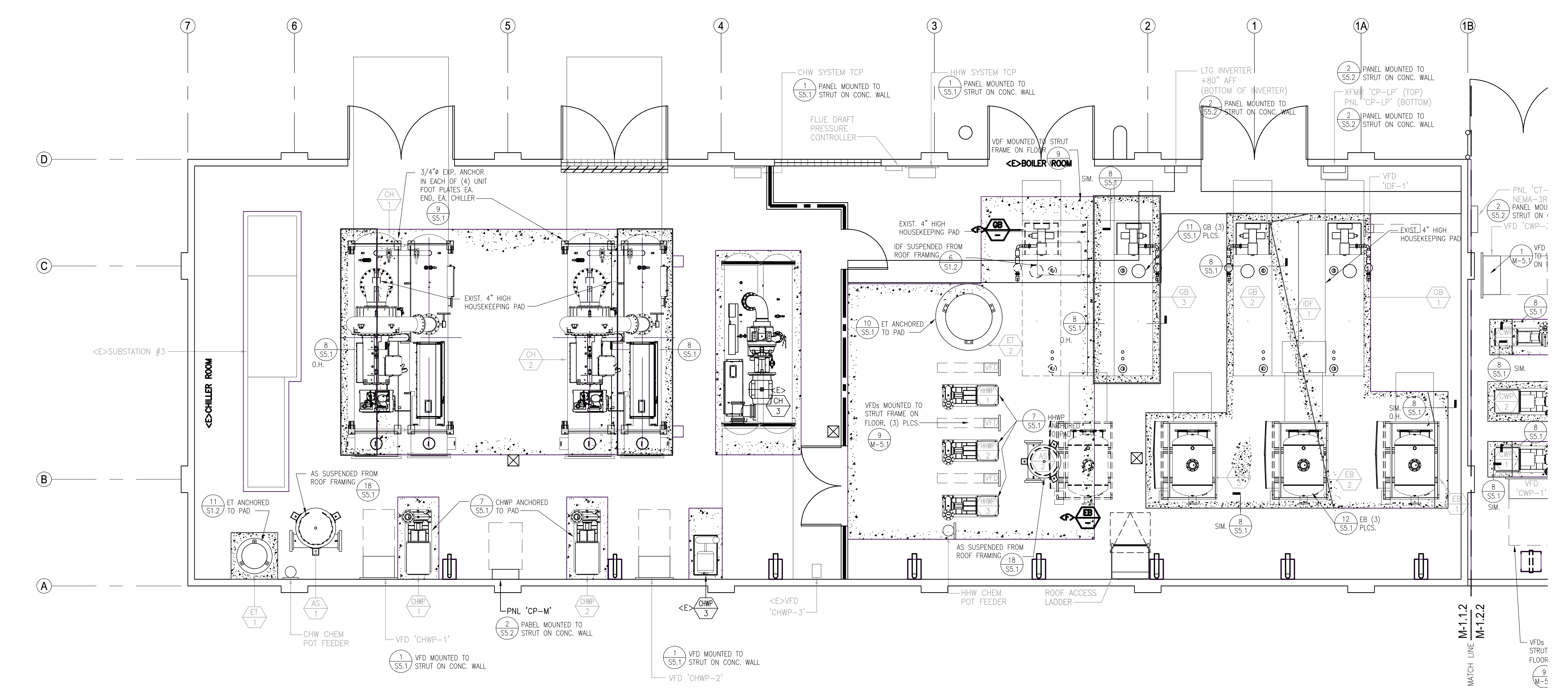




THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SALAS O'BRIEN ENGINEERS, INC.



1 STRUCTURAL CHILLER & BOILER ROOF PLAN  
SCALE: 1/4" = 1' - 0"



2 STRUCTURAL CHILLER & BOILER FLOOR PLAN  
SCALE: 1/4" = 1' - 0"

PRELIMINARY  
NOT FOR CONSTRUCTION



AKH  
Structural Engineers, Inc.  
275 Tennant Avenue, Ste. 204 ph: 408.978.1970  
Morgan Hill, California 95037 web: AKHSE.com



SOLANO COMMUNITY  
COLLEGE DISTRICT



4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534

CENTRAL PLANT  
MODERNIZATION

DSA APPL #02-120584

MARK	DATE	DESCRIPTION
06/17/22	100% SCHEMATIC DESIGN	
08/17/22	50% CD	
09/06/22	DSA PROGRESS SET	
10/19/22	DSA SUBMITTAL	
02/01/23	DSA BACKCHECK	
04/04/23	ADDENDUM #1	
04/06/23	ADDENDUM #2	
09/13/23	CCD #1	
03/01/24	CCD #2	
03/13/24	CCD #3	
04/09/24	CCD #4	

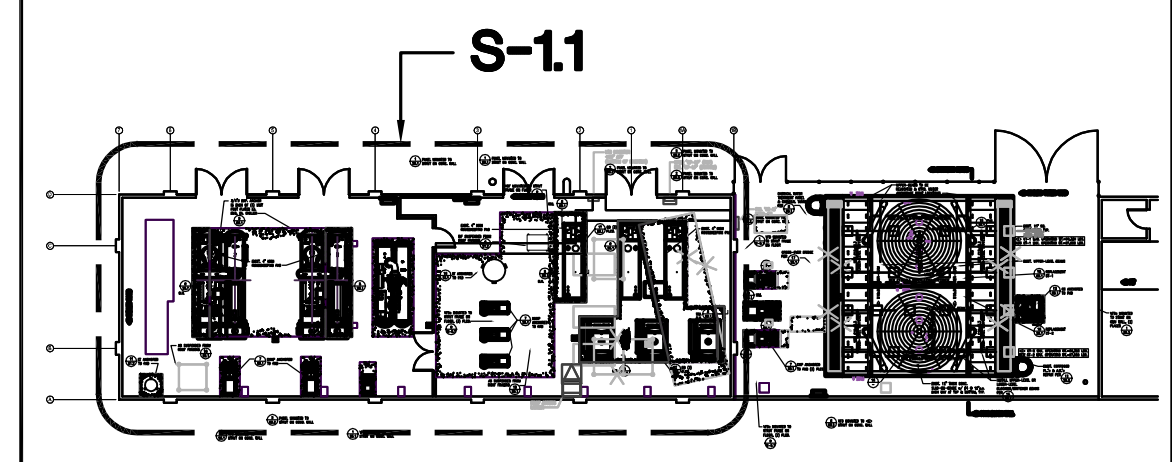
SOBE PROJECT NO: 2200689  
DATE: 03/13/24  
DRAWN BY: JQJ, TDH  
CHECKED BY: TDH  
APPROVED BY:

SHEET TITLE  
STRUCTURAL  
CHILLER AND BOILER FLOOR PLAN

SCALE: AS NOTED  
THIS DRAWING IS 30" X 42" AT FULL SIZE

S-11  
SHEET OF

KEY PLAN









[illegible]



THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SALAS O'BRIEN ENGINEERS, INC.

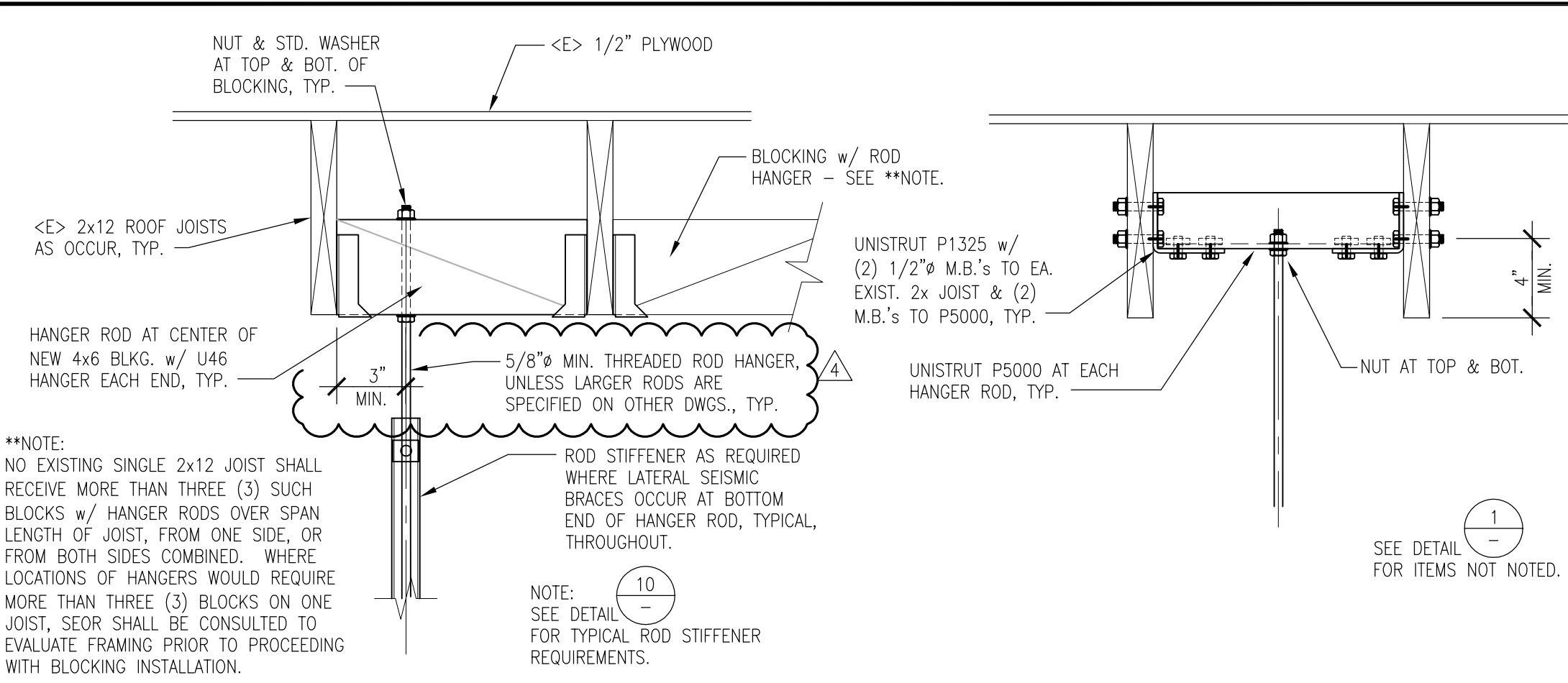
1/8" = 1'-0"

1/8" = 1'-0"

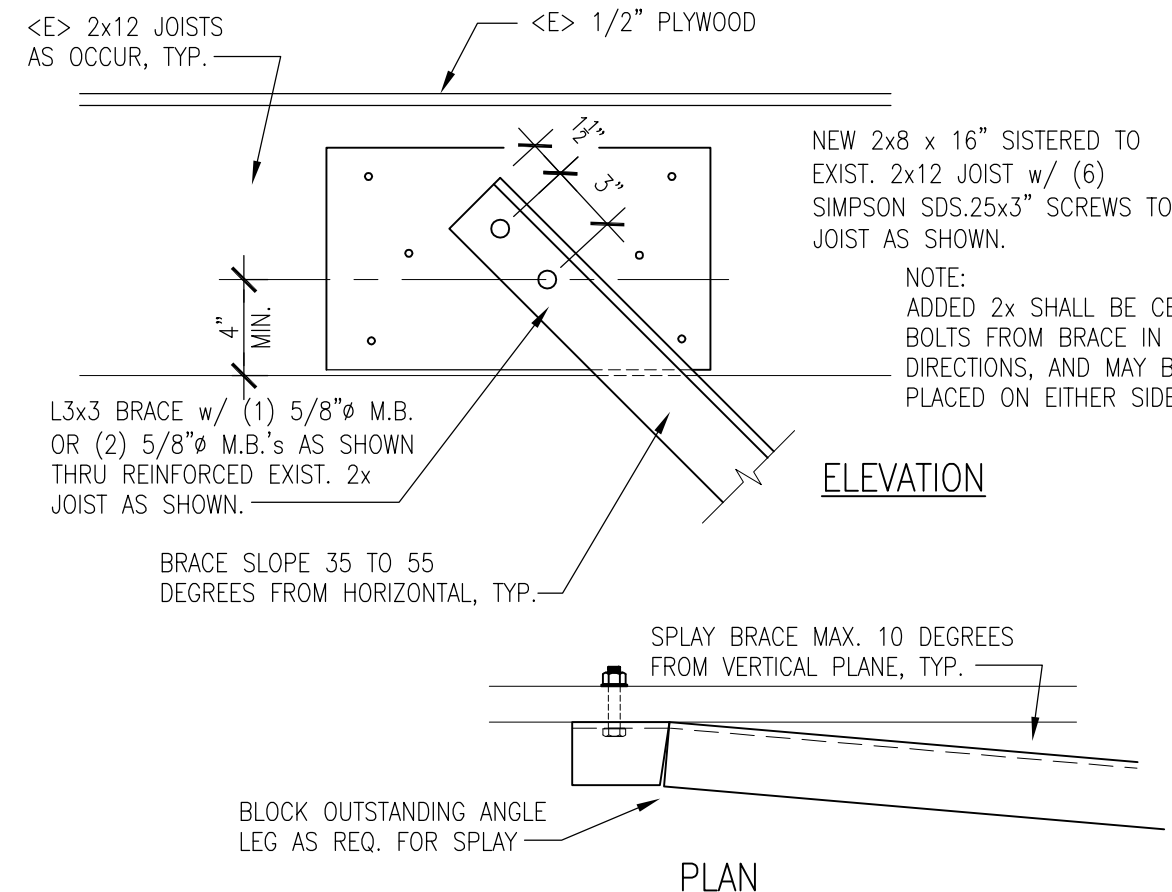
1/8" = 1'-0"

1/8" = 1'-0"

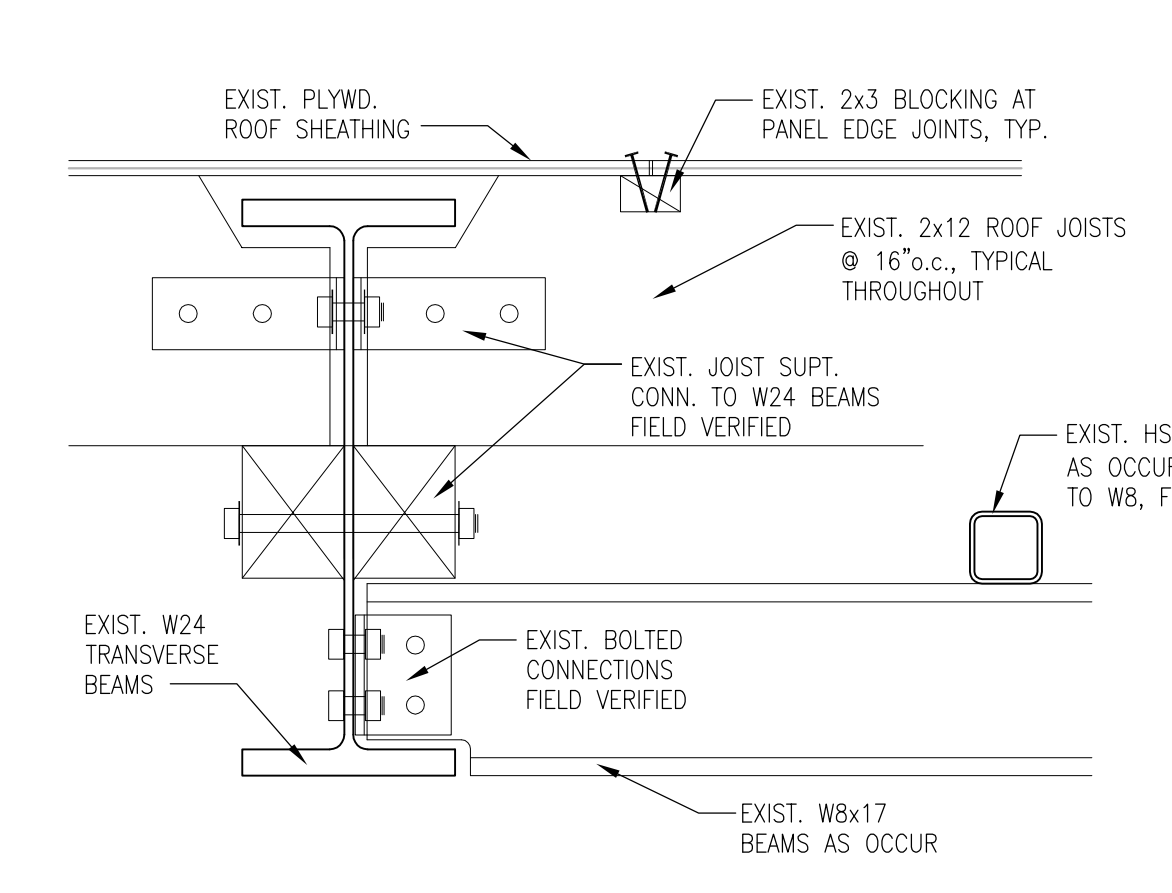
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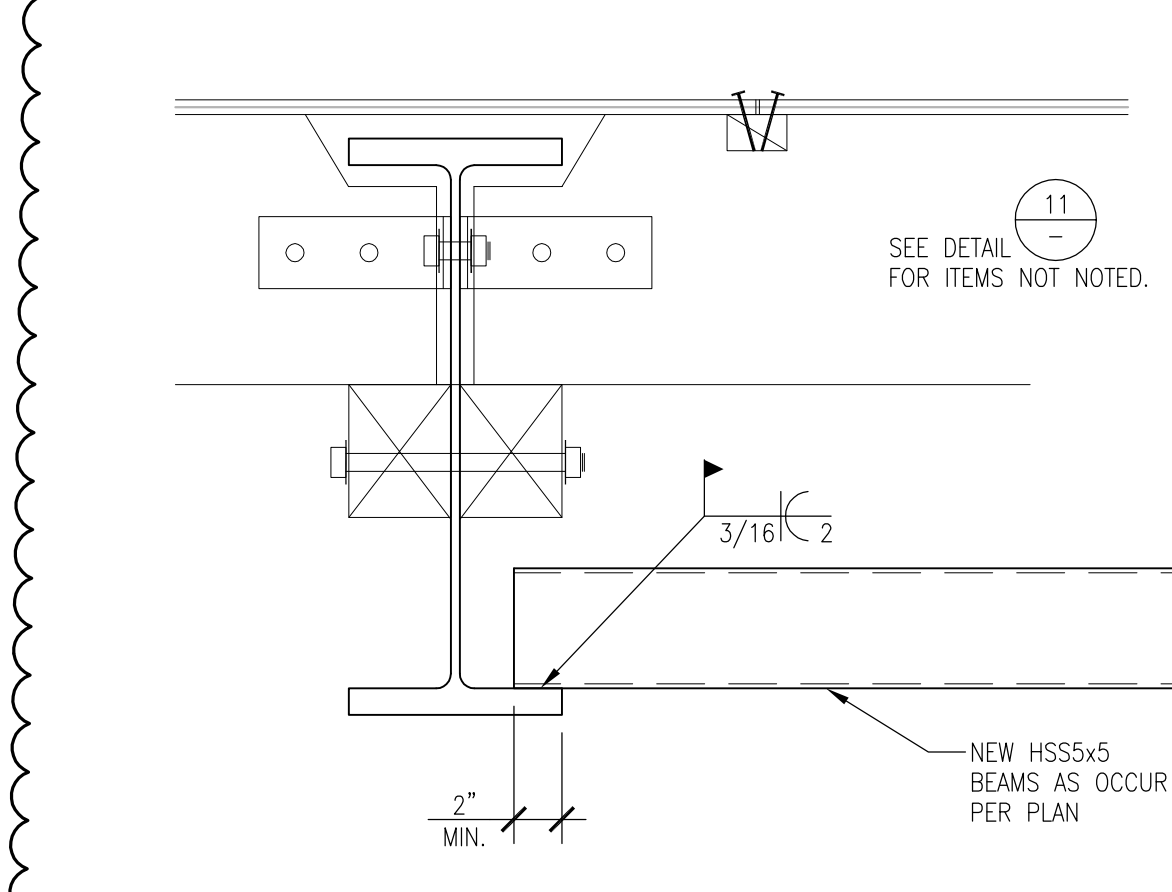
1 HANGER ROD TO WOOD FRAMING SCALE: 1-1/2"=1' 0"



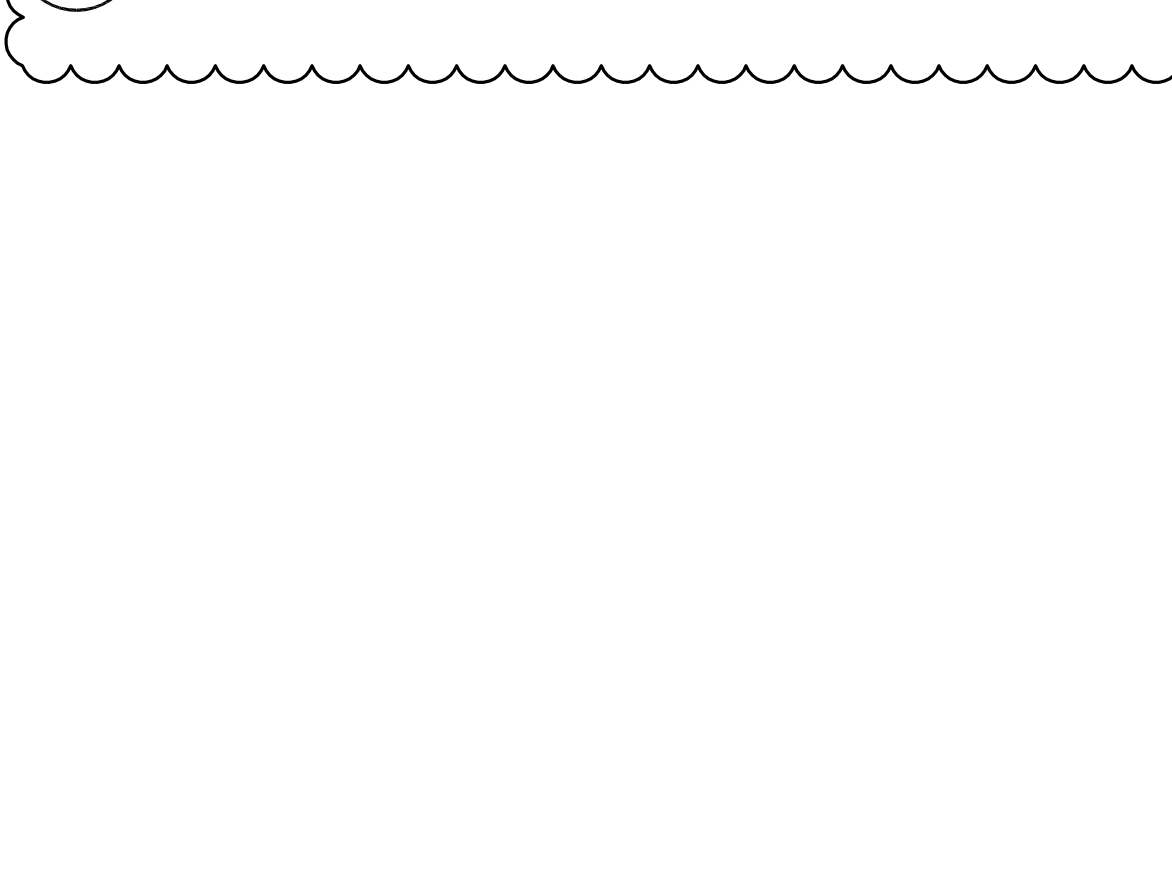
2 HANGER ROD TO WOOD FRAMING SCALE: 1-1/2"=1' 0"



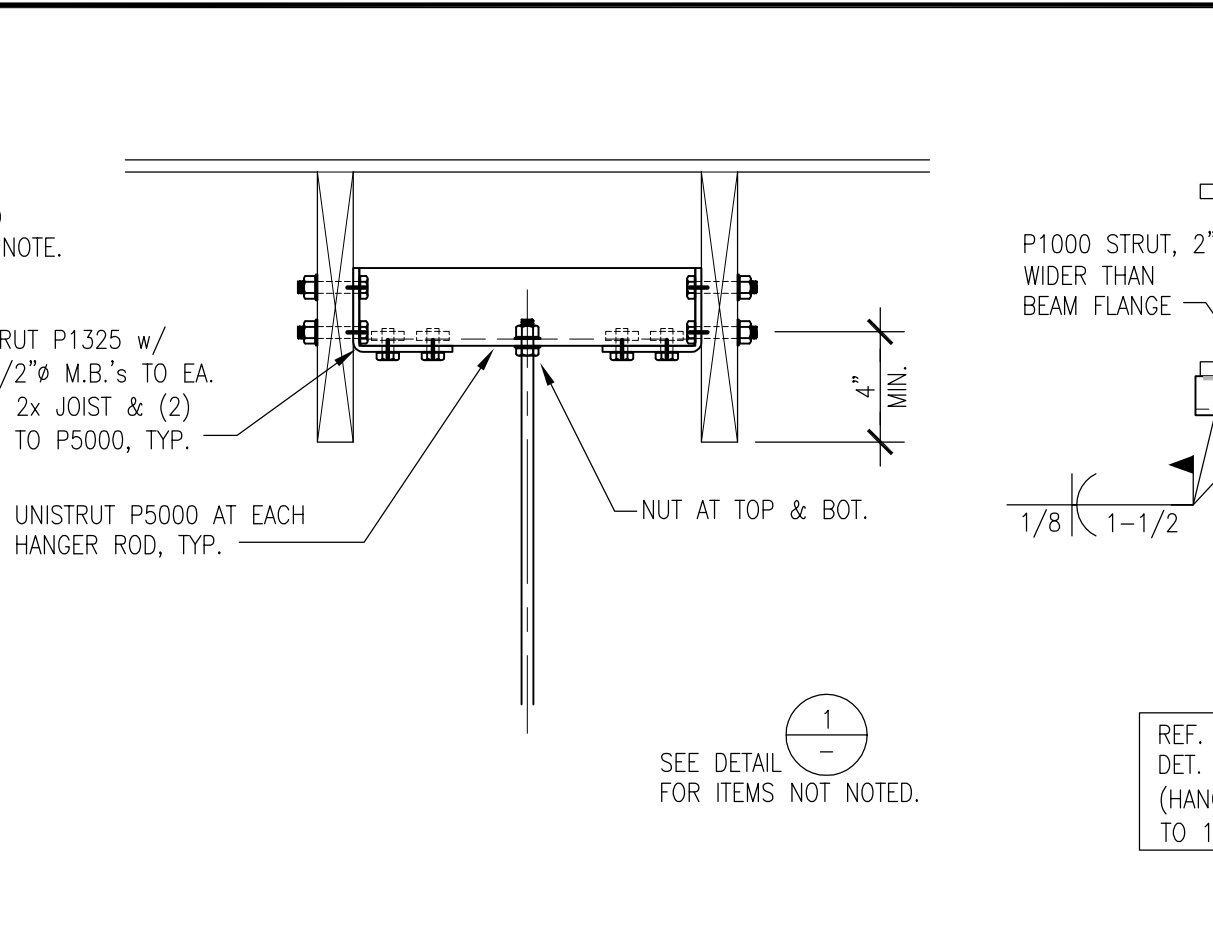
3 HANGER ROD TO STEEL FRAMING SCALE: 1-1/2"=1' 0"



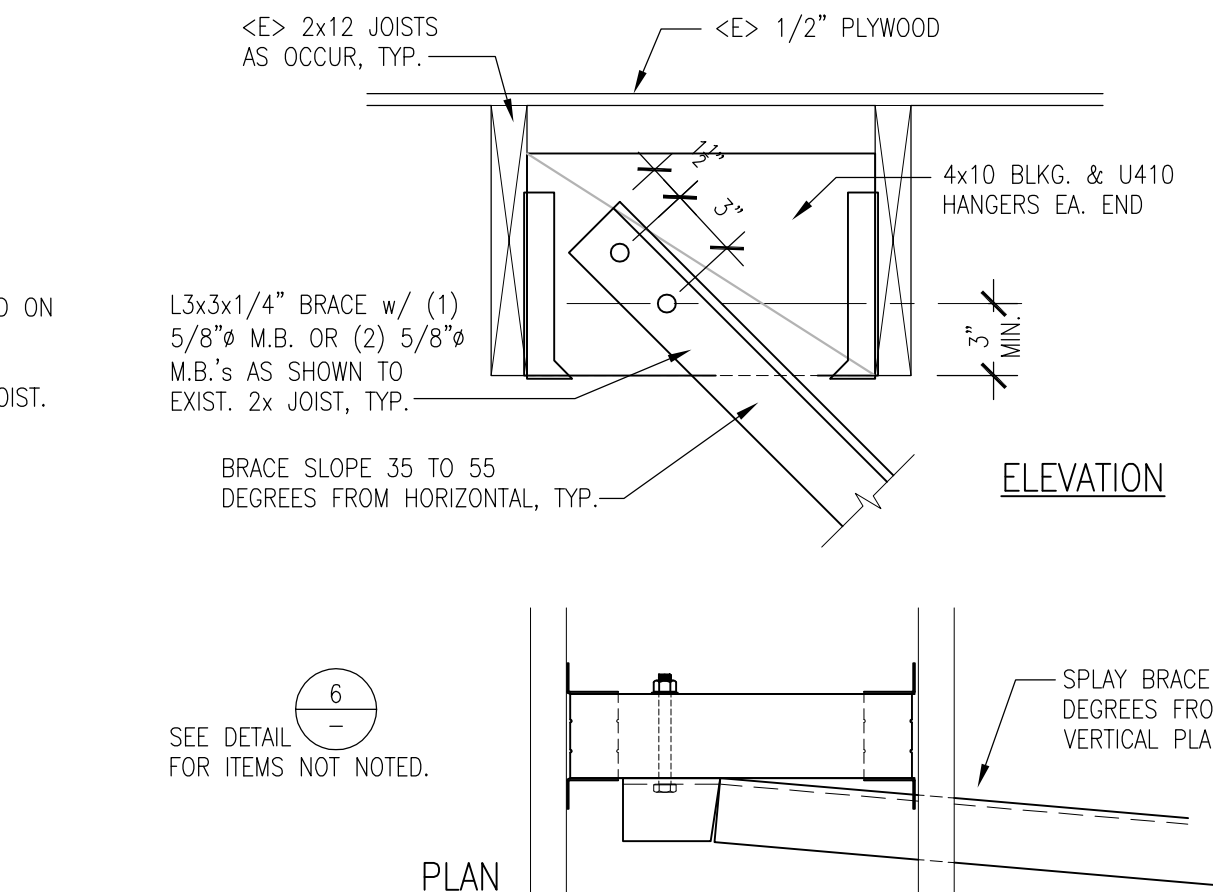
4 HANGER ROD TO STEEL FRAMING SCALE: 1-1/2"=1' 0"



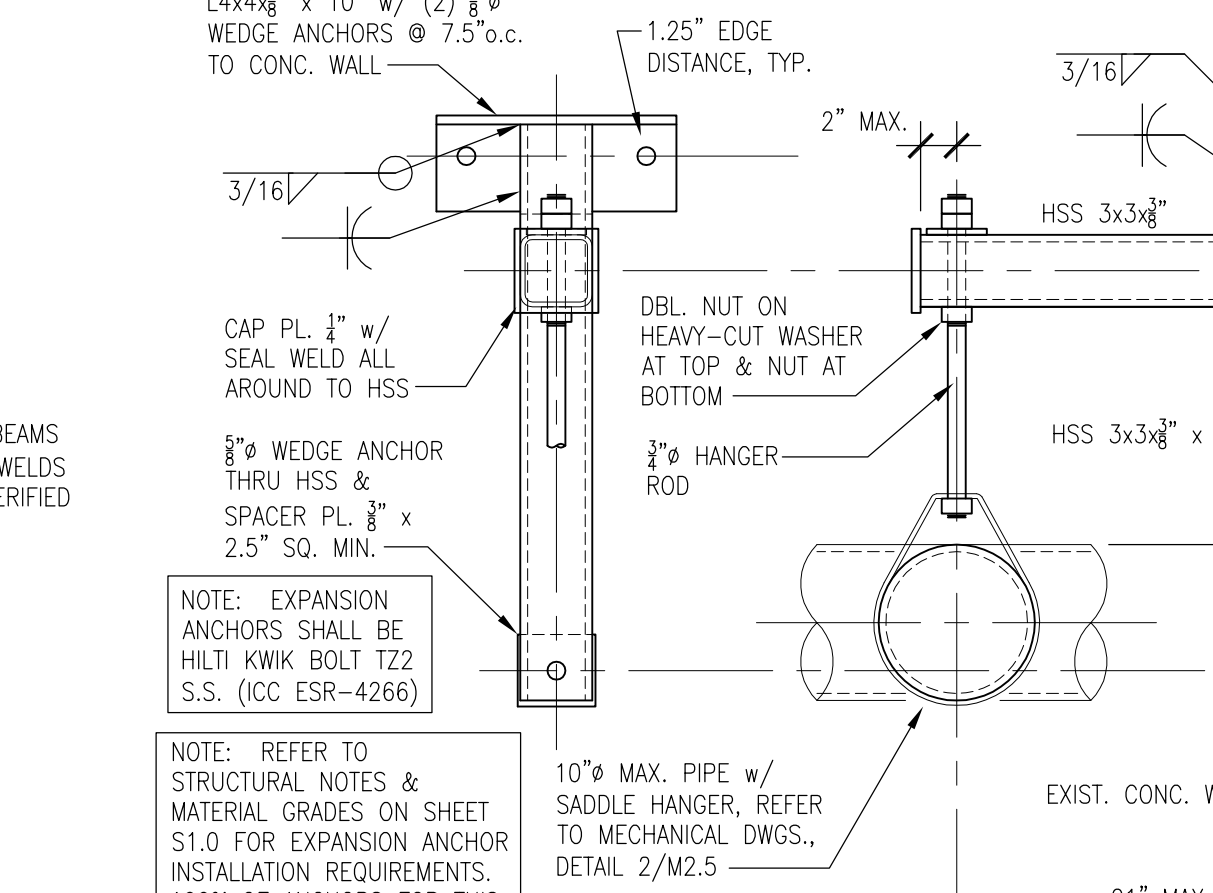
5 HANGER ROD TO STEEL FRAMING SCALE: 1-1/2"=1' 0"



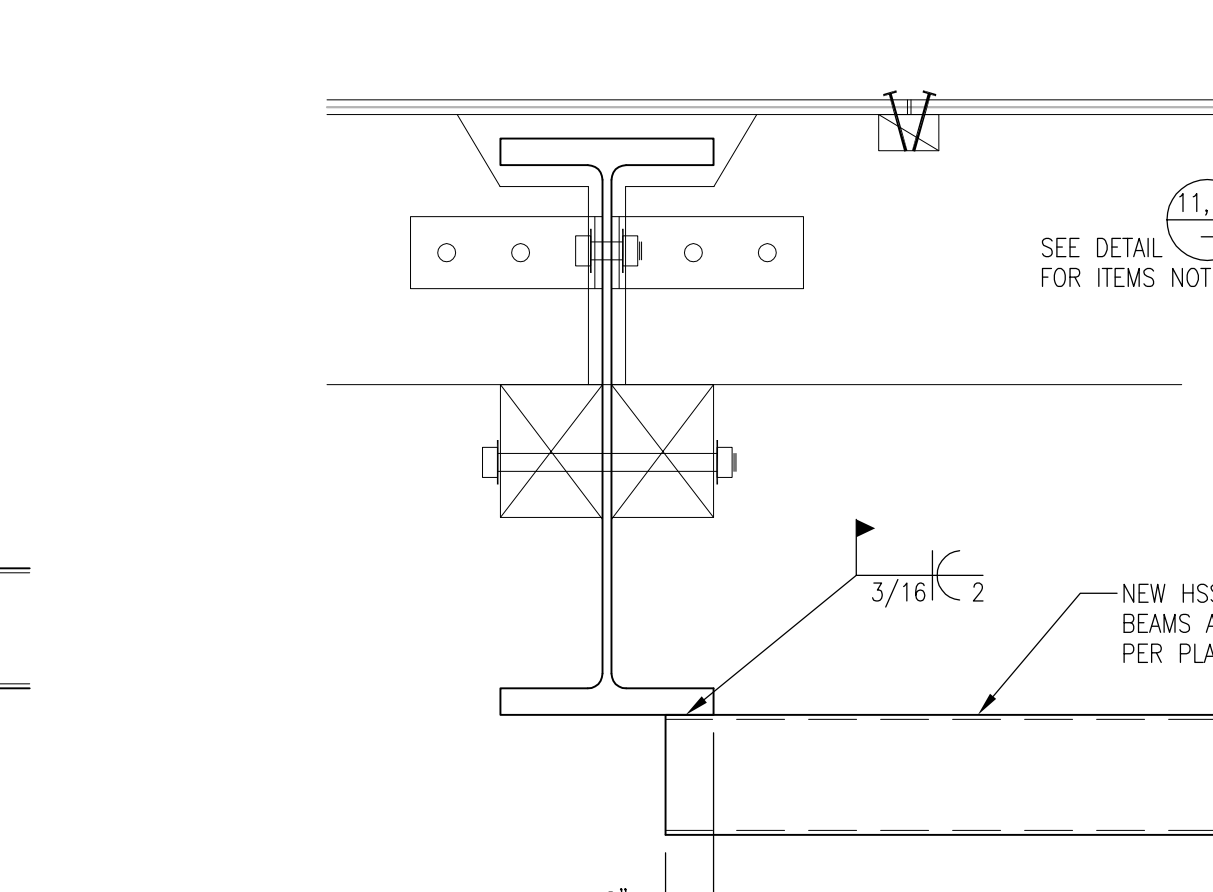
6 BRACE TO WOOD FRAMING - PARALLEL TO JOISTS SCALE: 1-1/2"=1' 0"



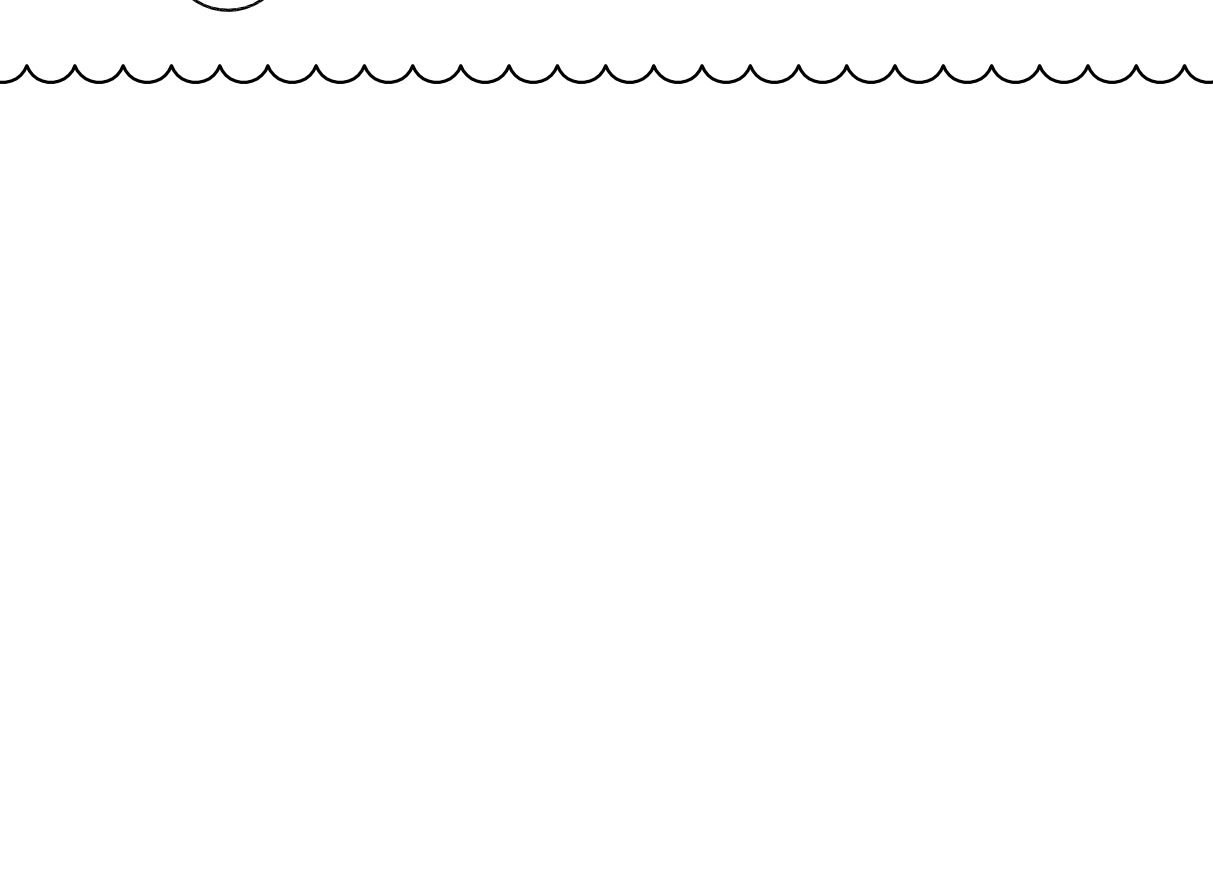
7 BRACE TO WOOD FRAMING - PERP. TO JOISTS SCALE: 1-1/2"=1' 0"



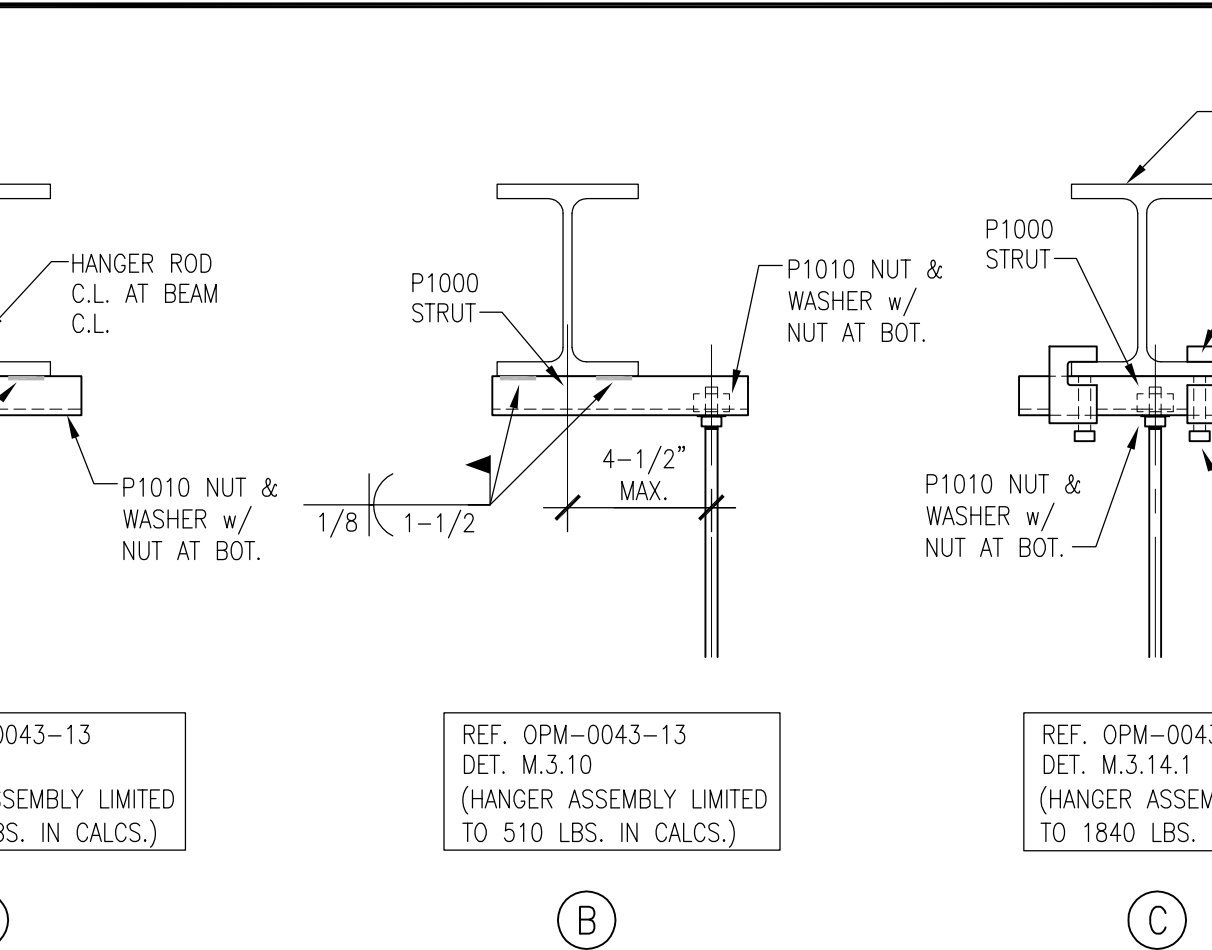
8 BRACE CONNECTIONS TO STEEL FRAMING SCALE: 1-1/2"=1' 0"



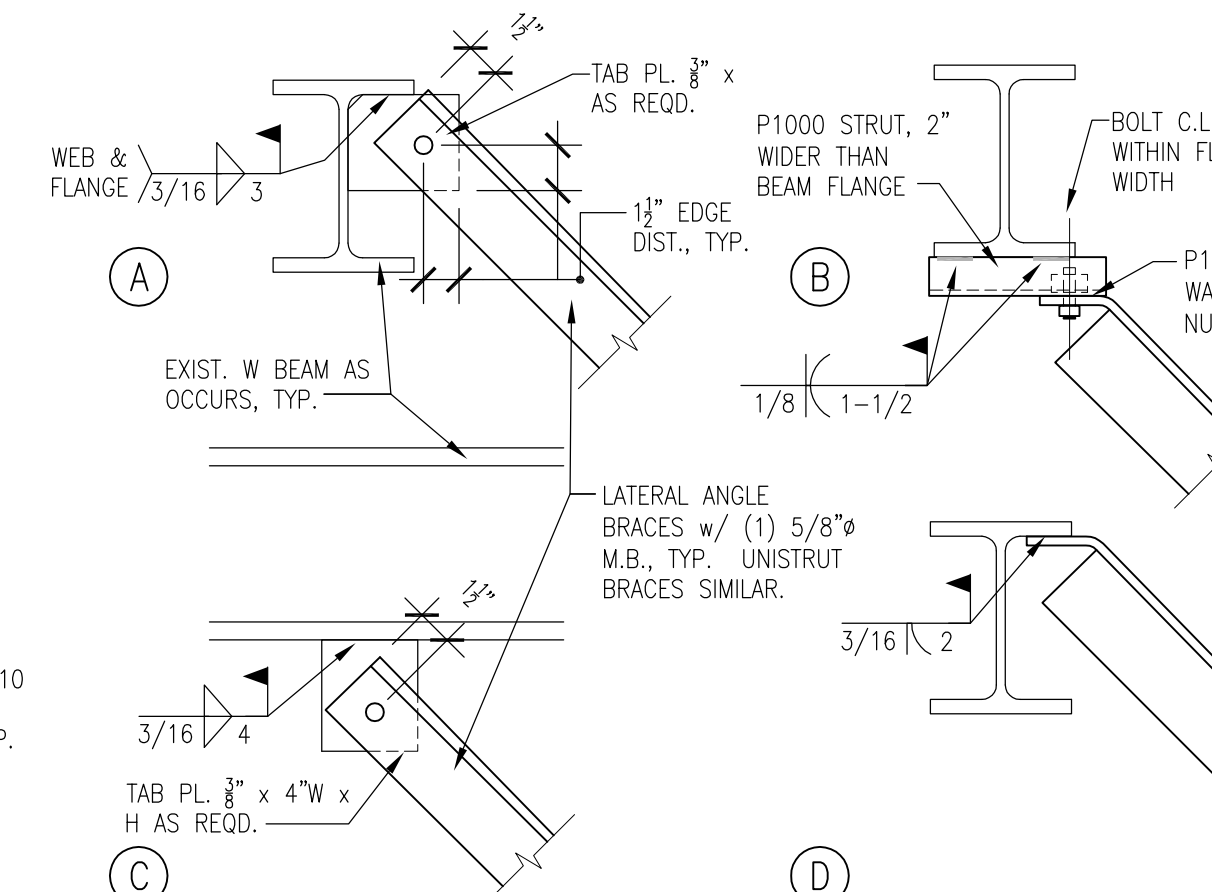
9 UNISTRUT BRACE CONN. TO WOOD SCALE: 1-1/2"=1' 0"



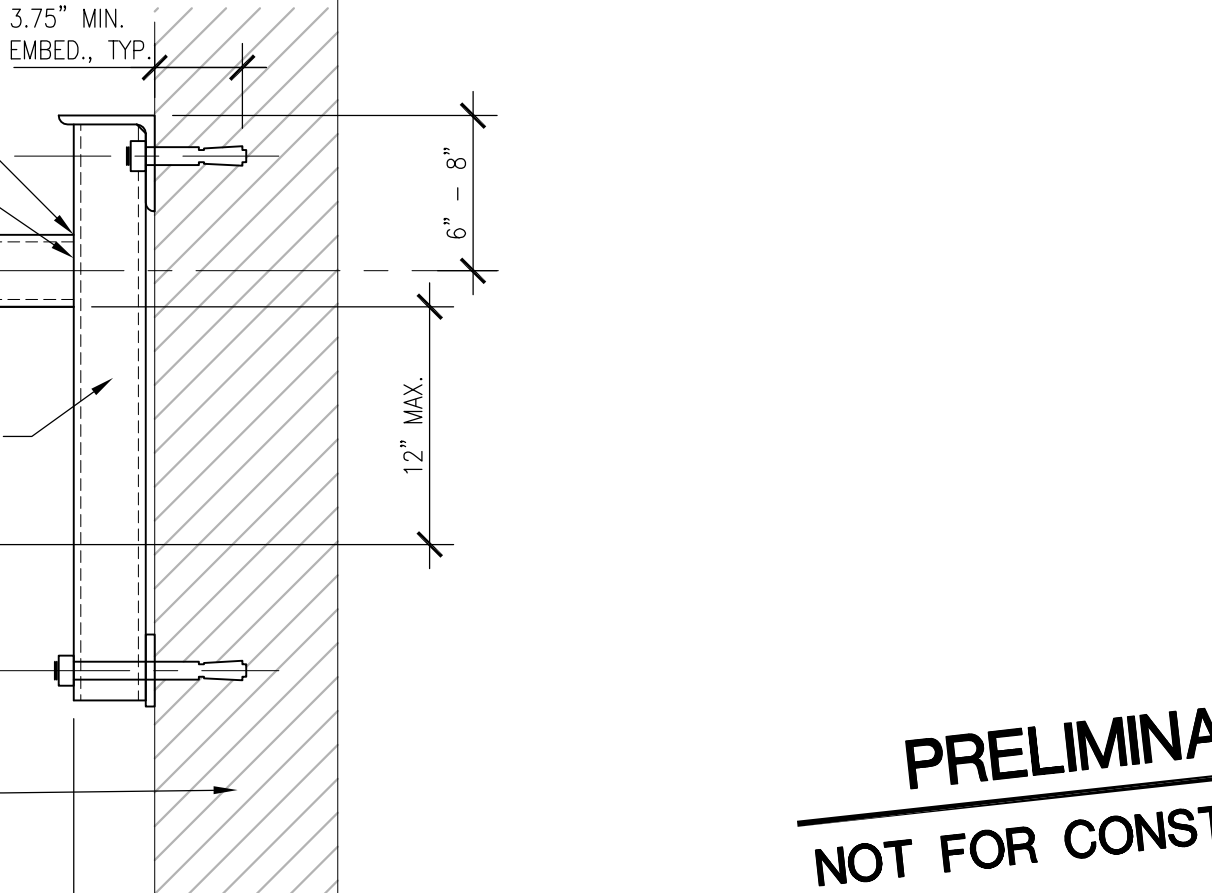
10 TYP. HANGER ROD STIFFENER SCALE: 1-1/2"=1' 0"



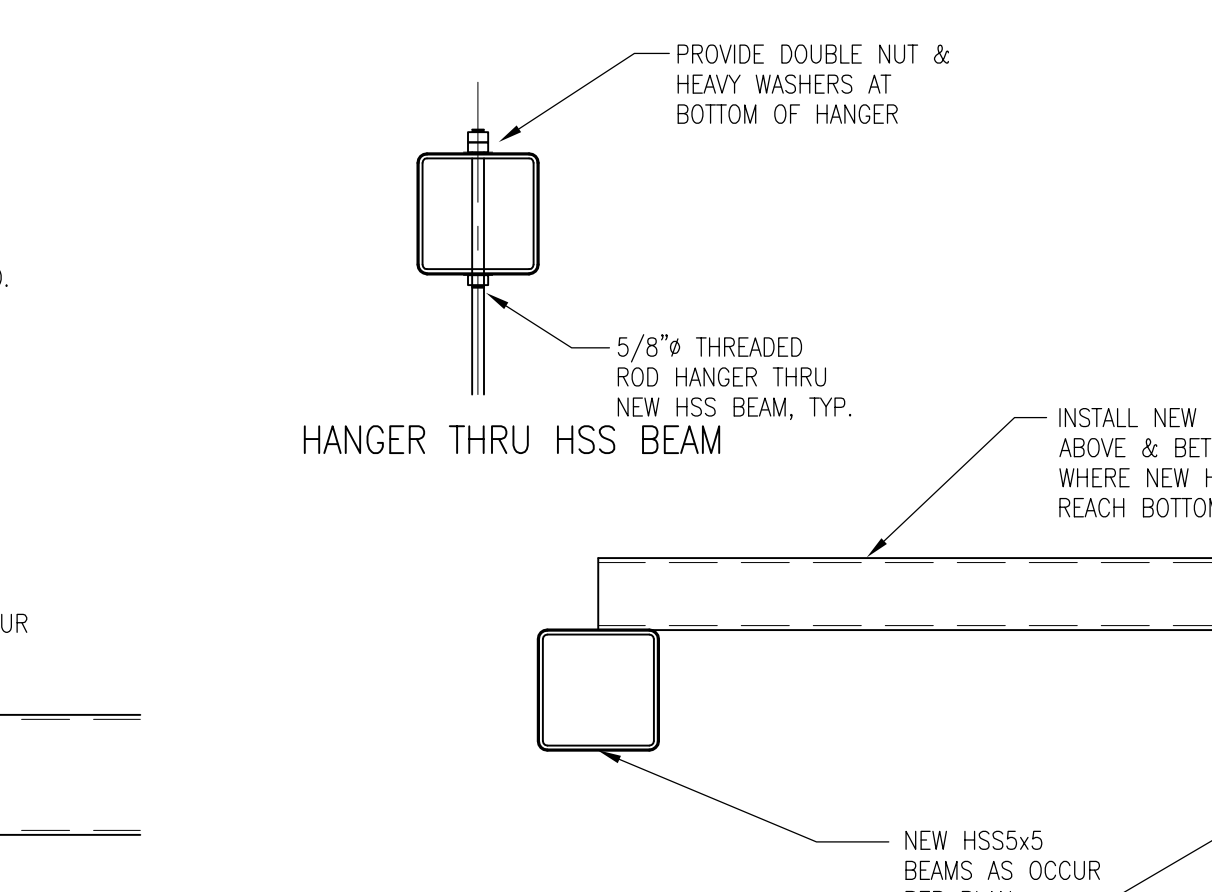
11 EXISTING TYPICAL ROOF FRAMING SCALE: 1-1/2"=1' 0"



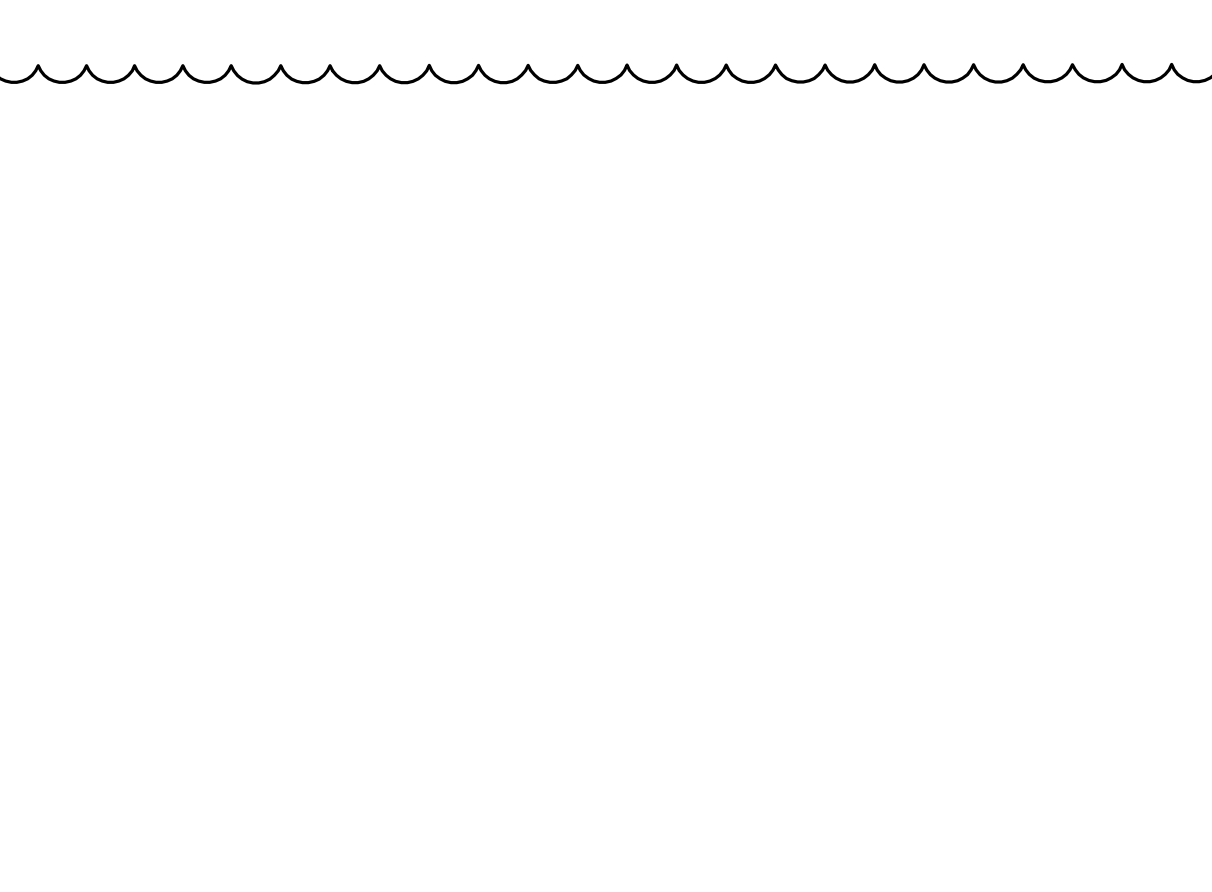
12 PIPE HANGER AT WALL SCALE: 1-1/2"=1' 0"



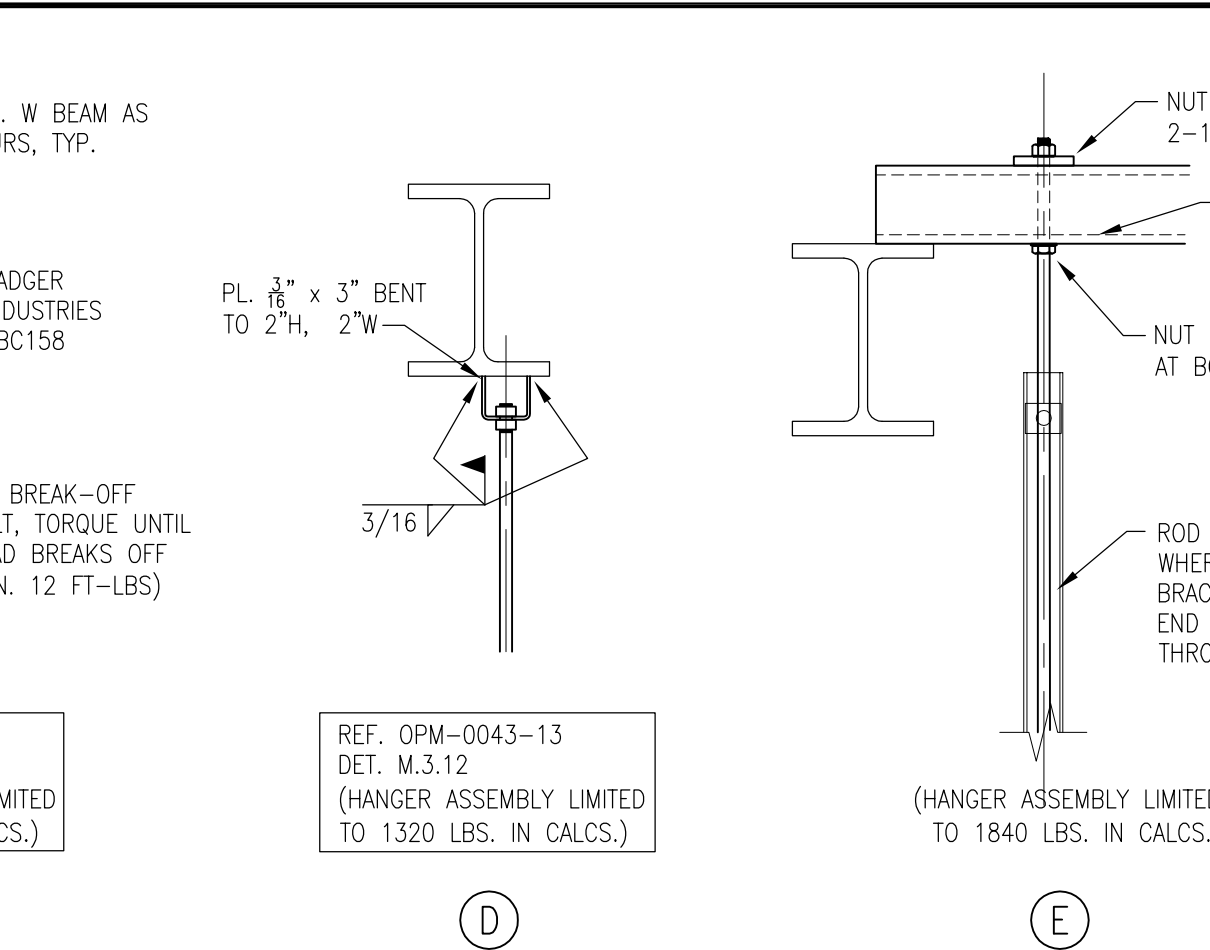
13 NEW HSS BEAM TO <E> WIDE FLANGE BEAM SCALE: 1-1/2"=1' 0"



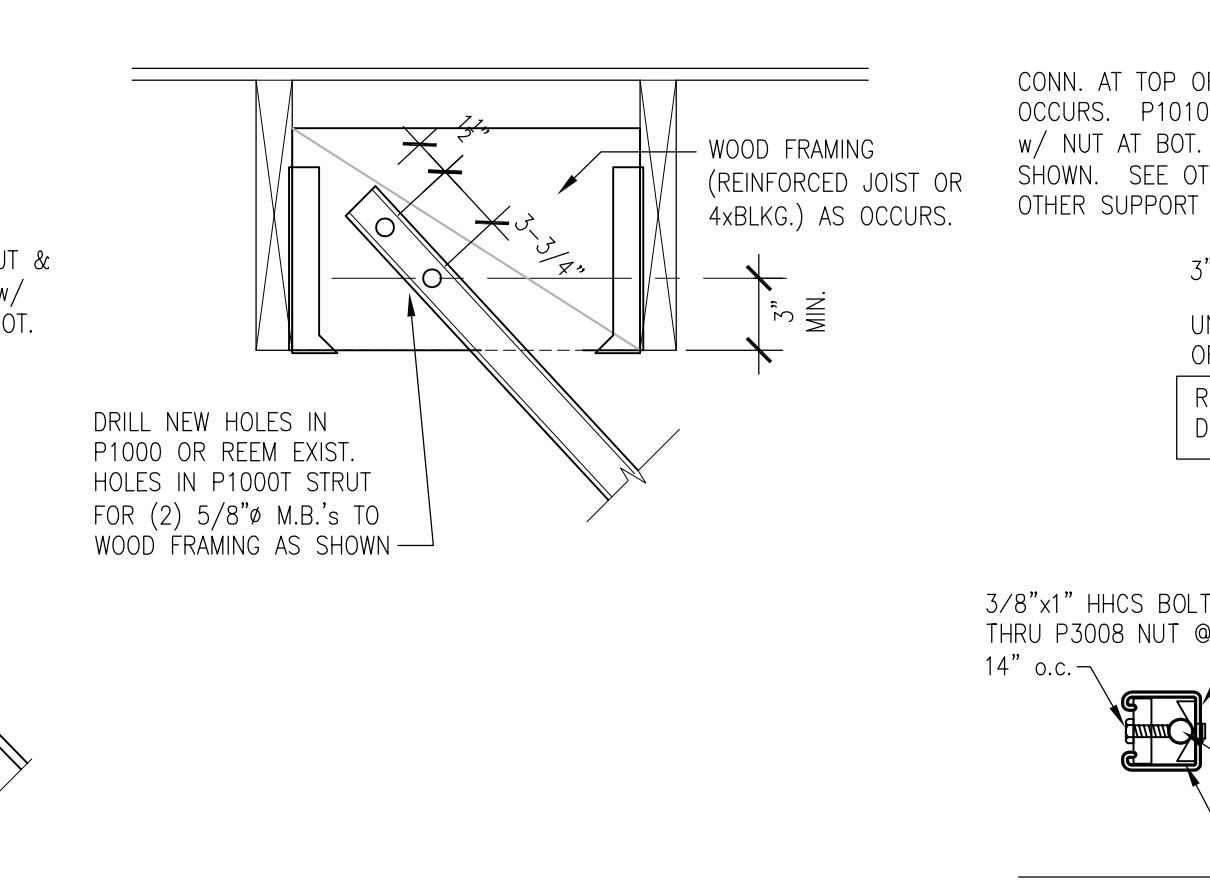
14 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



15 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



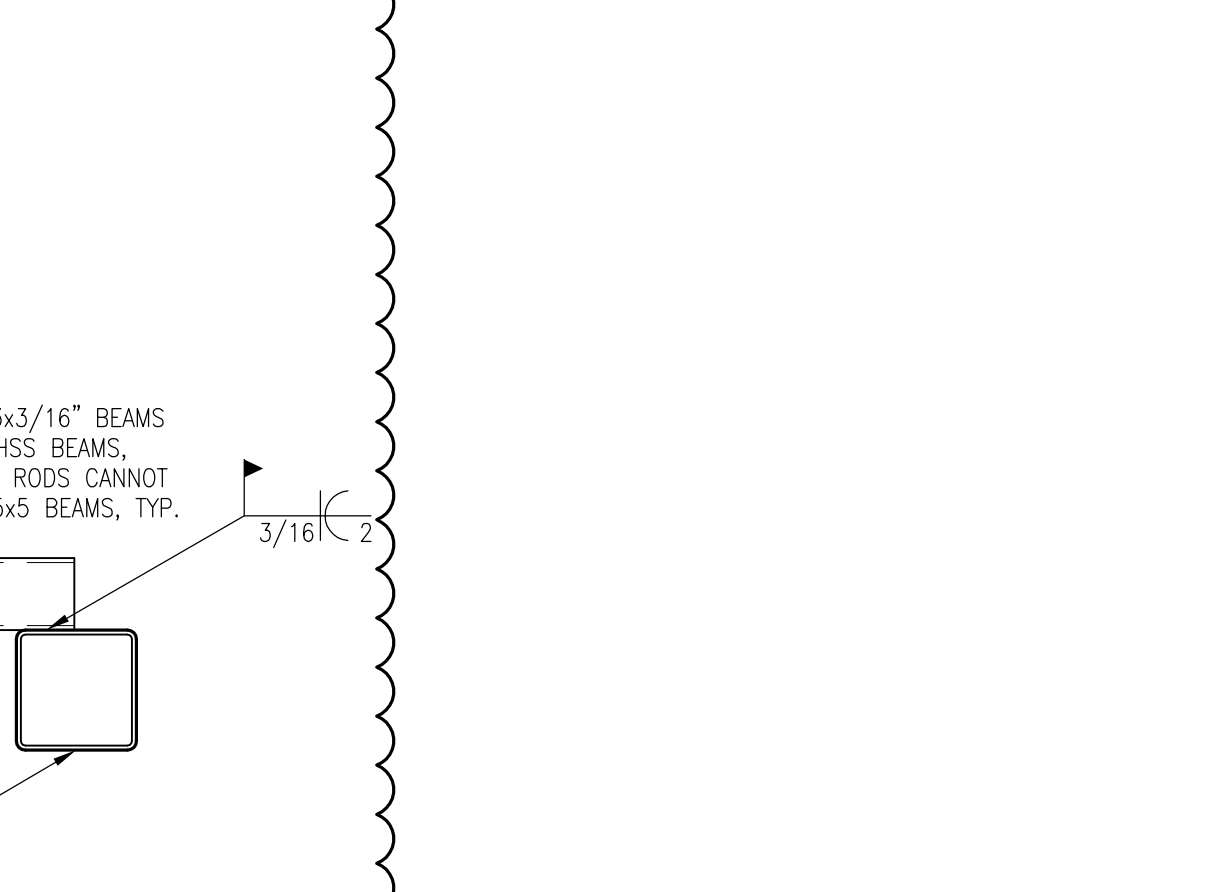
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17 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



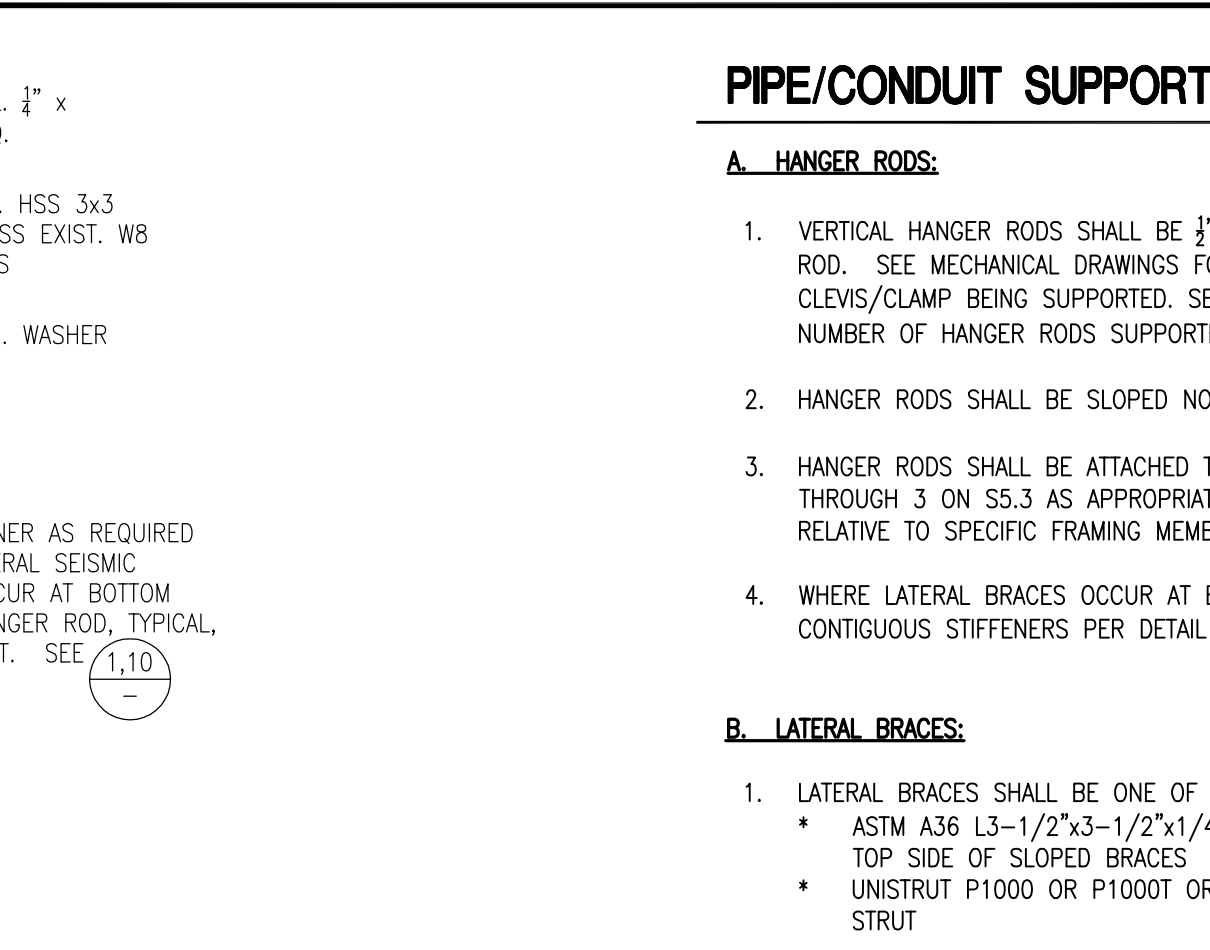
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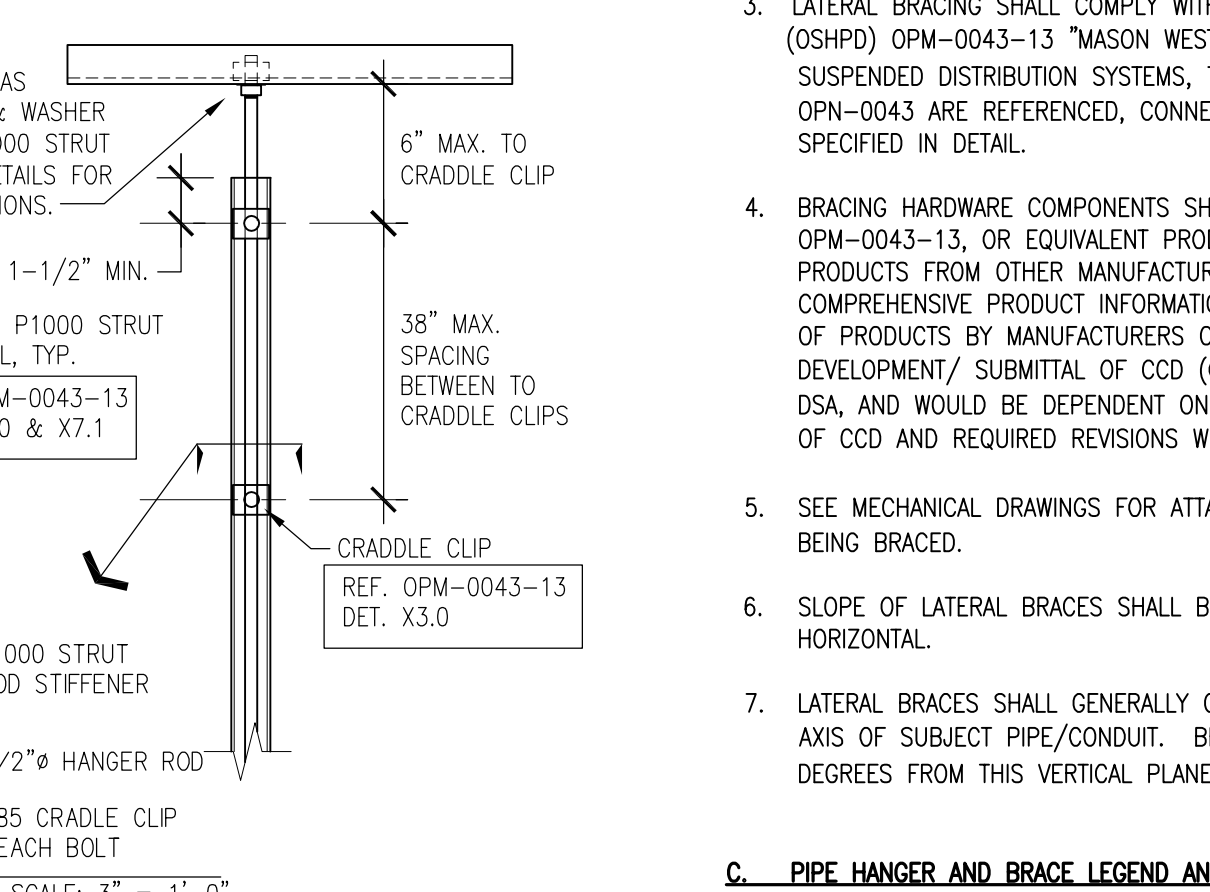
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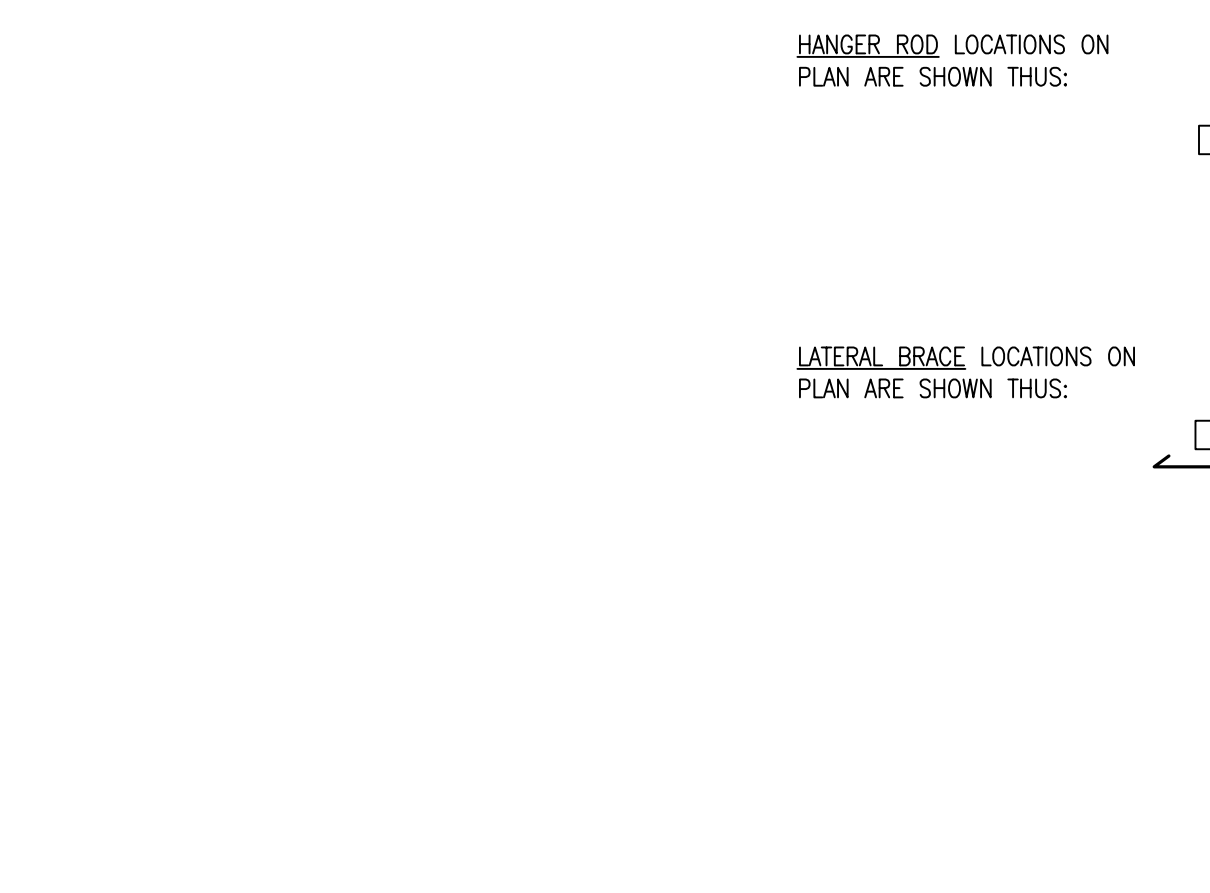
20 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



21 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



22 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



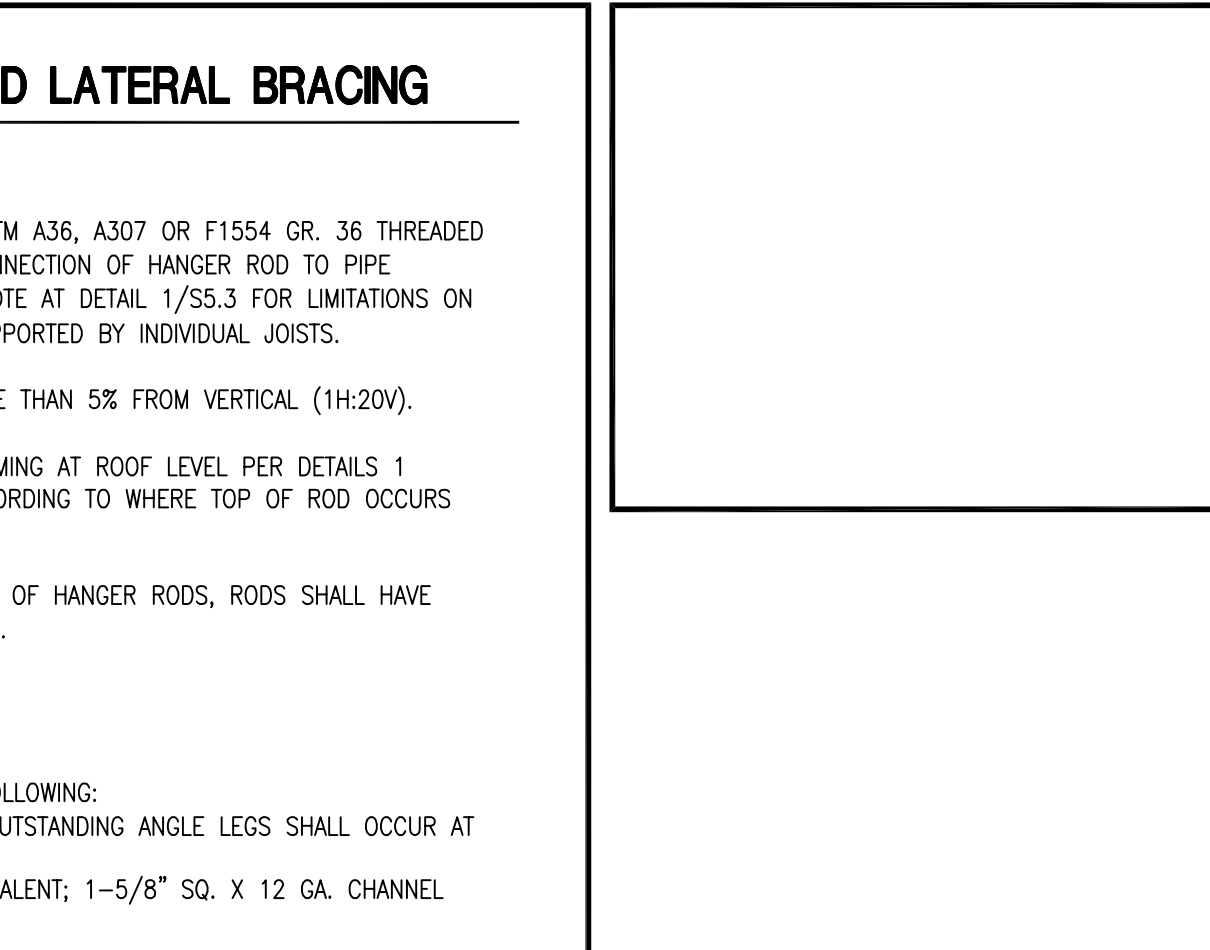
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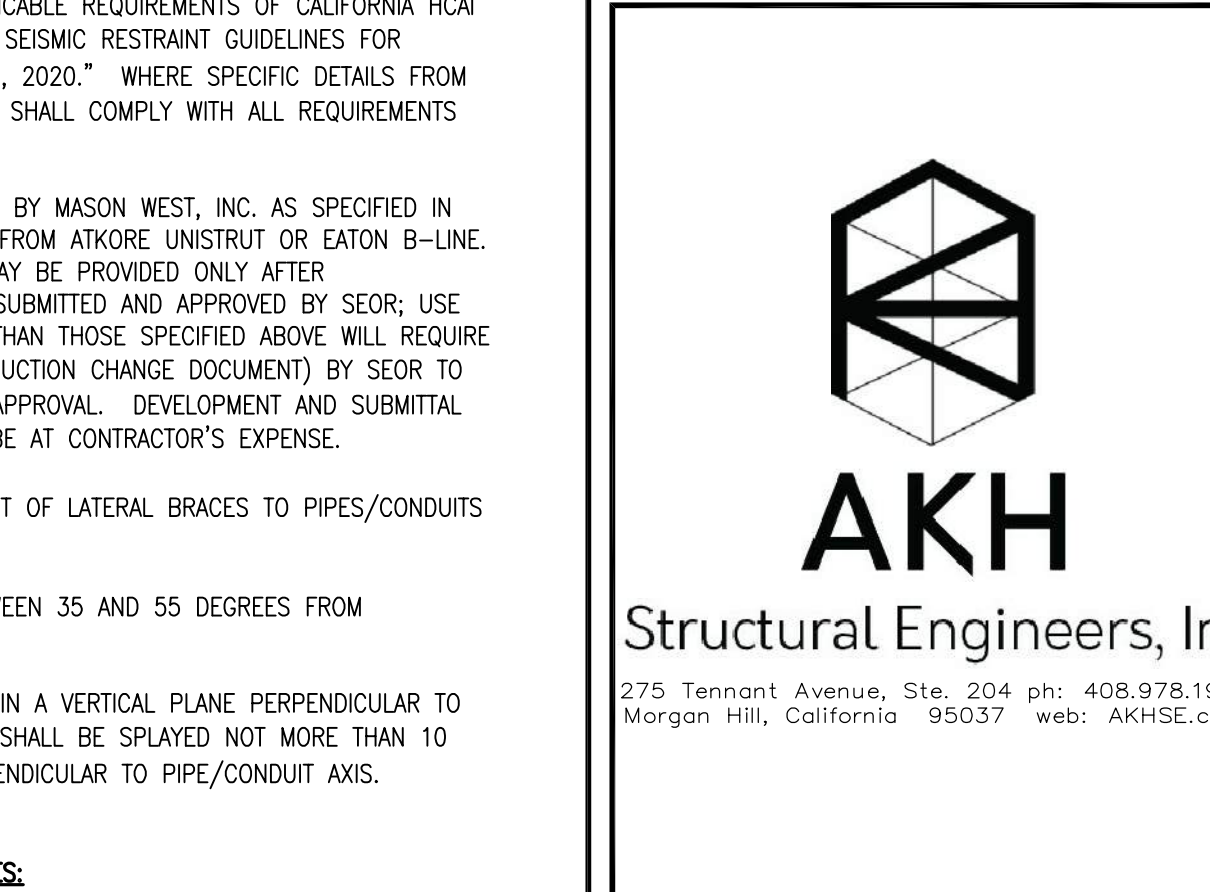
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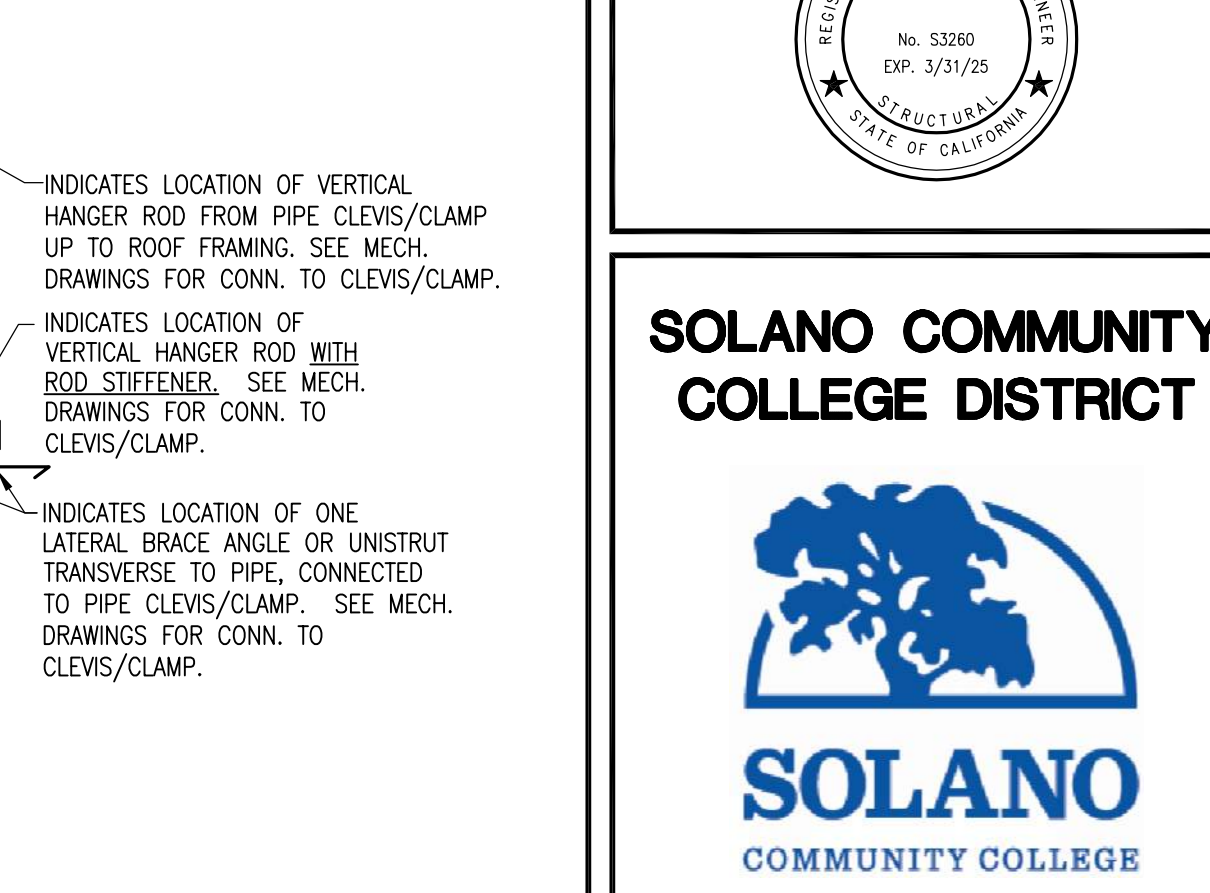
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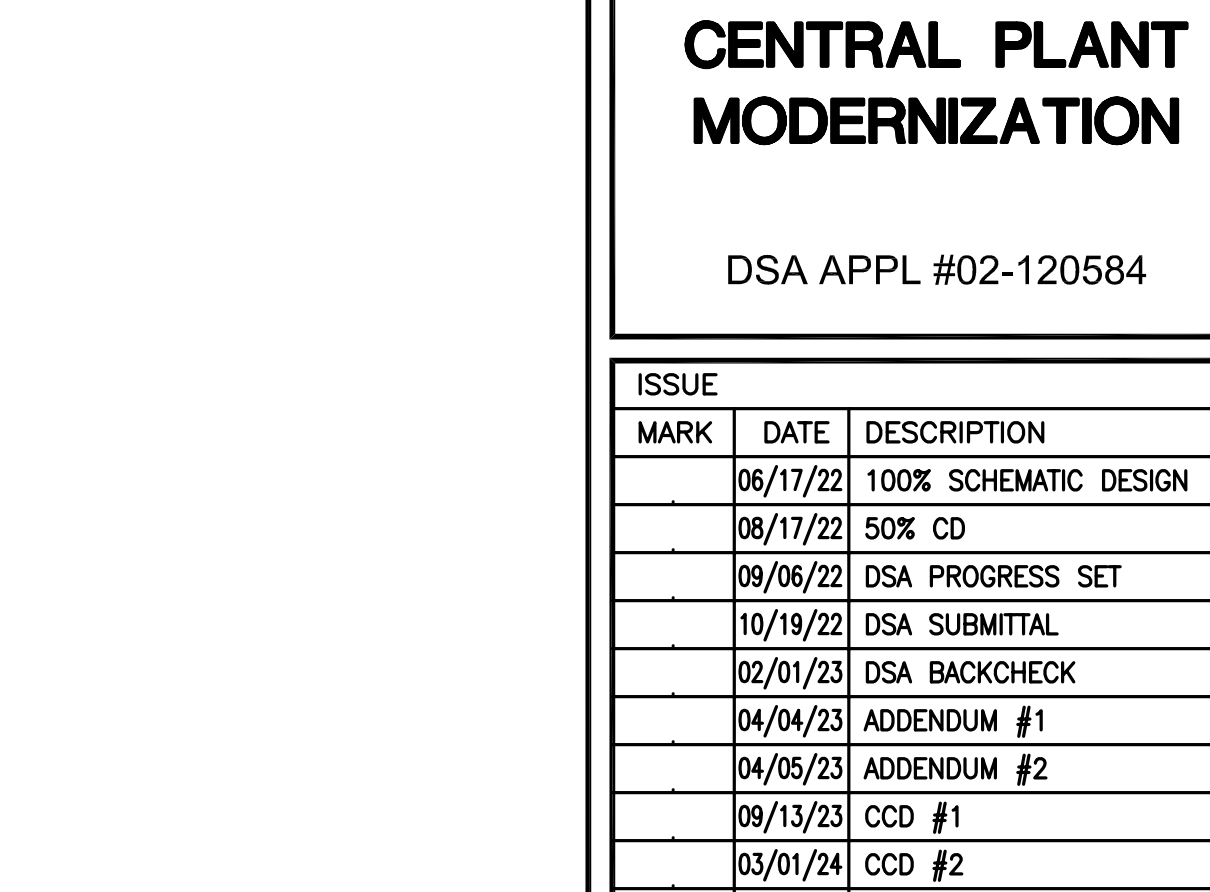
26 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



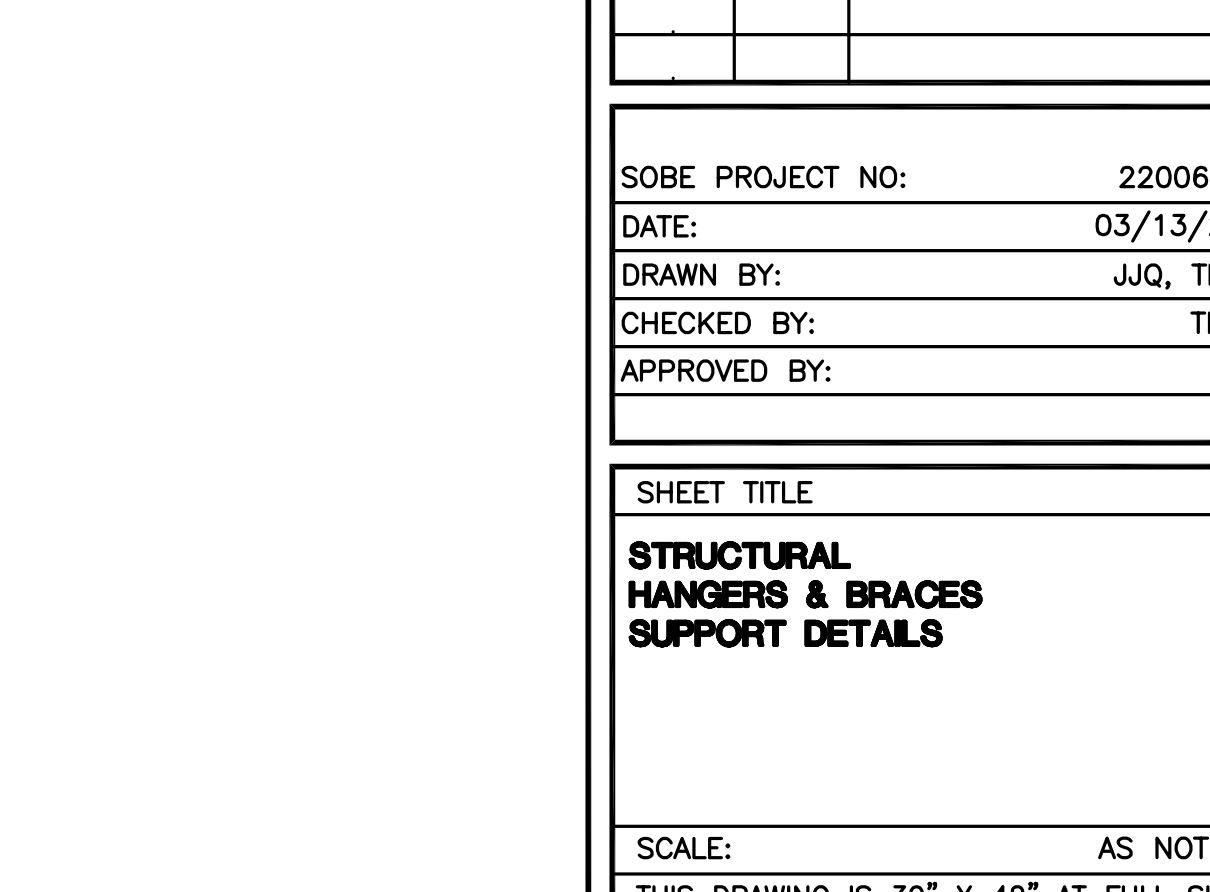
27 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



28 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



29 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"



30 NEW HSS TO HSS BEAMS & HANGER RODS SCALE: 1-1/2"=1' 0"

## PIPE/CONDUIT SUPPORT AND LATERAL BRACING

### A. HANGER RODS:

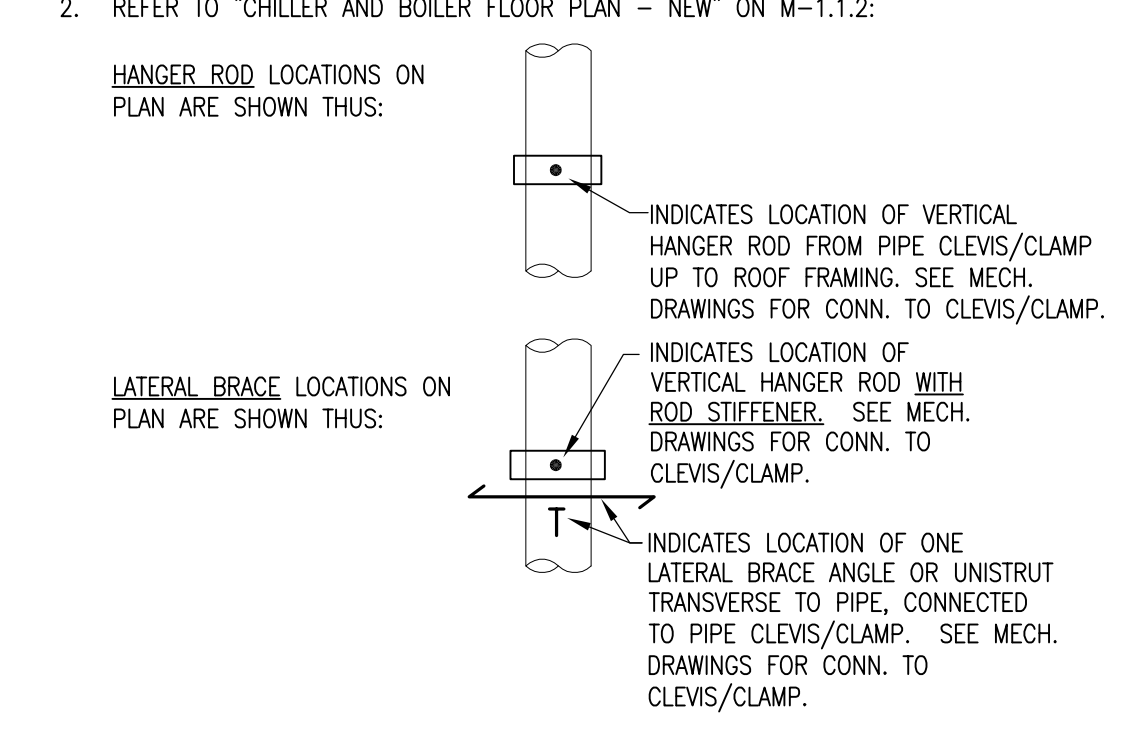
1. VERTICAL HANGER RODS SHALL BE 1/2" # ASTM A36, A307 OR F1554 GR. 36 THREADED ROD. SEE MECHANICAL DRAWINGS FOR CONNECTION OF HANGER ROD TO PIPE CLEVIS/CLAMP BEING SUPPORTED. SEE \*\*NOTE AT DETAIL 1/55.3 FOR LIMITATIONS ON NUMBER OF HANGER RODS SUPPORTED BY INDIVIDUAL JOISTS.
2. HANGER RODS SHALL BE SLOPED NOT MORE THAN 5% FROM VERTICAL (1H:20V).
3. HANGER RODS SHALL BE ATTACHED TO FRAMING AT ROOF LEVEL PER DETAILS 1 THROUGH 3 ON 55.3 AS APPROPRIATE ACCORDING TO WHERE TOP OF ROD OCCURS RELATIVE TO SPECIFIC FRAMING MEMBERS.
4. WHERE LATERAL BRACES OCCUR AT BOTTOM OF HANGER RODS, RODS SHALL HAVE CONTIGUOUS STIFFENERS PER DETAIL 10/55.

### B. LATERAL BRACES:

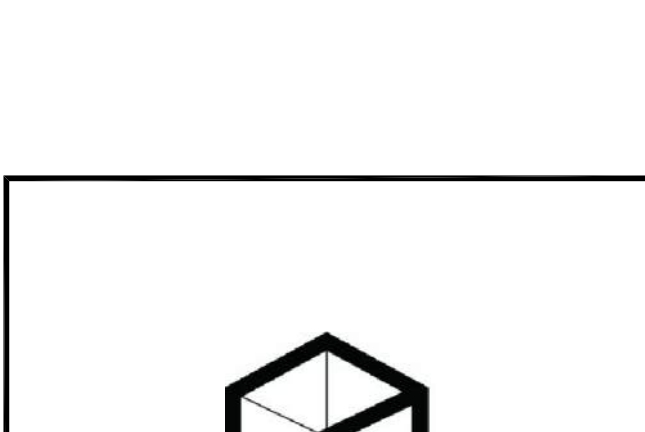
1. LATERAL BRACES SHALL BE ONE OF THE FOLLOWING:
  - ASTM A36 L3-1/2"x3-1/2"x1/4" - OUTSTANDING ANGLE LEGS SHALL OCCUR AT TOP SIDE OF SLOPED BRACES
  - UNISTRUT P1000 OR P1000T OR EQUIVALENT; 1-5/8" SQ. X 12 GA. CHANNEL STRUT
2. CONNECTIONS OF LATERAL BRACES TO WOOD FRAMING SHALL USE NOT LESS THAN TWO (2) 3/8" BOLTS TO WOOD MEMBERS, AND ONE 3/8" BOLT TO STEEL MEMBERS. CONNECTION AT BOTTOM OF BRACES SHALL USE (1) 5/8" M.B. TO PIPE CLEVIS/CLAMP AS SHOWN ON MECHANICAL DRAWINGS.
3. LATERAL BRACING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF CALIFORNIA HCAI (OSHPD) OPM-0043-13 "MASON WEST, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS," 7TH ED., 2020." WHERE SPECIFIC DETAILS FROM OPM-0043 ARE REFERENCED, CONNECTIONS SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN DETAIL.
4. BRACING HARDWARE COMPONENTS SHALL BE BY MASON WEST, INC. AS SPECIFIED IN OPM-0043-13, OR EQUIVALENT PRODUCTS FROM ATKORE UNISTRUT OR EATON B-LINE. PRODUCTS FROM OTHER MANUFACTURERS MAY BE PROVIDED ONLY AFTER COMPREHENSIVE PRODUCT INFORMATION IS SUBMITTED AND APPROVED BY SEOR. USE OF PRODUCTS BY MANUFACTURERS OTHER THAN THOSE SPECIFIED ABOVE WILL REQUIRE DEVELOPMENT/ SUBMITTAL OF CCD (CONSTRUCTION CHANGE DOCUMENT) BY SEOR TO DSA, AND WOULD BE DEPENDENT ON DSA-APPROVAL. DEVELOPMENT AND SUBMITTAL OF CCD AND REQUIRED REVISIONS WOULD BE AT CONTRACTOR'S EXPENSE.
5. SEE MECHANICAL DRAWINGS FOR ATTACHMENT OF LATERAL BRACES TO PIPES/CONDUITS BEING BRACED.
6. SLOPE OF LATERAL BRACES SHALL BE BETWEEN 35 AND 55 DEGREES FROM HORIZONTAL.
7. LATERAL BRACES SHALL GENERALLY OCCUR IN A VERTICAL PLANE PERPENDICULAR TO AXIS OF SUBJCT PIPE/CONDUIT. BRACES SHALL BE SLOPED NOT MORE THAN 10 DEGREES FROM THIS VERTICAL PLANE PERPENDICULAR TO PIPE/CONDUIT AXIS.

### C. PIPE HANGER AND BRACE LEGEND AND NOTES:

1. LATERAL (DIAGONAL) BRACES MAY EXTEND UP FROM PIPES IN EITHER TRANSVERSE DIRECTION. GENERALLY, BRACE DIRECTION CHOSEN SHOULD PROVIDE SHORTEST POSSIBLE LENGTH OF BRACE TO ROOF FRAMING.
2. REFER TO "CHILLER AND BOILER FLOOR PLAN - NEW" ON M-1.1.2:



AKH  
Structural Engineers, Inc.  
275 Tennant Avenue, Ste. 204 ph: 408.978.1970  
Morgan Hill, California 95037 web: AKHSE.com



SOLANO COMMUNITY  
COLLEGE DISTRICT  
4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534  
CENTRAL PLANT  
MODERNIZATION  
DSA APPL #02-120584

MARK	DATE	DESCRIPTION
	06/17/22	100% SCHEMATIC DESIGN
	08/17/22	50% CD
	09/06/22	DSA PROGRESS SET
	10/19/22	DSA SUBMITTAL
	02/01/23	DSA BACKCHECK
	04/04/23	ADDENDUM #1
	04/05/23	ADDENDUM #2
	09/13/23	CCD #1
	03/01/24	CCD #2
	03/13/24	CCD #3
	04/09/24	CCD #4

SOLANO  
COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534

CENTRAL PLANT  
MODERNIZATION  
DSA APPL #02-120584

MARK	DATE	DESCRIPTION
	06/17/22	100% SCHEMATIC DESIGN
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	03/01/24	CCD #2
	03/13/24	CCD #3
	04/09/24	CCD #4

SOBE PROJECT NO: 2200689  
DATE: 03/13/24  
DRAWN BY: JJQ, TDH  
CHECKED BY: TDH  
APPROVED BY:

SHEET TITLE  
STRUCTURAL  
HANGERS & BRACES  
SUPPORT DETAILS

SCALE: AS NOTED  
THIS DRAWING IS 30" X 42" AT FULL SIZE

S-5.3  
SHEET OF -





**Kitchell CEM, Inc.**  
2450 Venture Oaks Way Ste 500  
Sacramento, California 95833  
P: (916) 648-9700

**Project: 4927C2 SCCD - Central Plant  
Replacement Project**  
4000 Suisun Valley Road  
Fairfield, California 94534

## RFI #38: Hanger Attachment and Structural Load Clarifications

<b>Status</b>	Open		
<b>To</b>	Tai Mitchell (Salas O'Brien Engineering) Lakisha Grays (Salas O'Brien Engineering) Evan Sarver (Salas O'Brien Engineering)	<b>From</b>	Brittanie Humphries (Matrix HG Inc)
<b>Date Initiated</b>	Feb 14, 2024	<b>Due Date</b>	Feb 21, 2024
<b>Location</b>	<b>Project Stage</b>		
<b>Cost Impact</b>	<b>Schedule Impact</b>		
<b>Spec Section</b>	<b>Cost Code</b>		
<b>Drawing Number</b>	<b>Reference</b>		
<b>Linked Drawings</b>			
<b>Received From</b>	Brittanie Humphries (Matrix HG Inc)		
<b>Copies To</b>	Mitchell Lake (Matrix HG Inc), Noe Ramos (Kitchell CEM, Inc.)		

### Activity

#### Question

##### **Question from Brittanie Humphries Matrix HG Inc on Wednesday, Feb 14, 2024 at 02:45 PM PST**

Request: We see conflicts between the piping layout and noted requirements in the structural attachment details which has been compounded by the seismic drawing review comments which said: "Added requirement: Hanger rods per 1 & 2/S5.3 shall occur within the middle one-half of block length. Hanger rods can be sloped up to 1/2H:12V as reqd."

Detail 1/S-5.3 says that "No existing single 2X12 joist shall receive more than (3) blocks w/ Hanger rods over span length of joist, from one side, or from both sides combined."

Detail 8/P-5.1 in the plumbing drawings that shows hanger attachment to joists with 420 lbs of allowable vertical load which could be applicable up to 10" Sch 40 pipe.

After doing an overlay of the structure against the suspended piping, there appears to be multiple joists that will have more than 3 support blocks attached to them. Some of the joists in question will have additional loads from plumbing lines supported from them. Furthermore, some of the joists in question will have additional moment loads from brace arm blocking that will be attached to them. Also, there are hydronic lines that run parallel directly under joists.

See the attached overlay. The green indicates blocking for pipe supports. The blue indicates blocking for flue supports. The red indicates the joists that have more than 3 blocks attached to them.

Q: Can detail 8/P-5.1 be applied to mechanical piping as well?

Q: Is the intent to adjust pipe run locations so that they are supported by blocking or HSS only?

Q: Do hangers attached to the joist count against the qty of blocks that are allowed to be attached to joists?

Q: Per the notes in detail 1/S-5.3 we need the SEOR to review these conditions and advise if they are acceptable or advise changes as required.

At the locations with the most concentration of blocking on joists adding steel beams between the joists and attached to the HSS may resolve some or all locations.

##### **Attachments**

[MHG RFI 37 - Hanger Attachment Clarification.pdf](#)

*Awaiting an Official Response*



115 Mason Circle, Suite B  
Concord, CA 94520  
Phone (925)459-9200 Fax (925)459-9220  
Lic. #812232

---

## Request for Information #37

Date: 02/14/24  
Attn: Noe Ramos  
Phone:  
Fax:

<b>Work Site Information</b>
------------------------------

Subject: Hanger Attachment and Structural Load Clarifications

Request: We see conflicts between the piping layout and noted requirements in the structural attachment details which has been compounded by the seismic drawing review comments which said: "Added requirement: Hanger rods per 1 & 2/S5.3 shall occur within the middle one-half of block length. Hanger rods can be sloped up to 1/2H:12V as reqd."

Detail 1/S-5.3 says that "No existing single 2X12 joist shall receive more than (3) blocks w/ Hanger rods over span length of joist, from one side, or from both sides combined."

Detail 8/P-5.1 in the plumbing drawings that shows hanger attachment to joists with 420 lbs of allowable vertical load which could be applicable up to 10" Sch 40 pipe.

After doing an overlay of the structure against the suspended piping, there appears to be multiple joists that will have more than 3 support blocks attached to them. Some of the joists in question will have additional loads from plumbing lines supported from them. Furthermore, some of the joists in question will have additional moment loads from brace arm blocking that will be attached to them. Also, there are hydronic lines that run parallel directly under joists.

See the attached overlay. The green indicates blocking for pipe supports. The blue indicates blocking for flue supports. The red indicates the joists that have more than 3 blocks attached to them.

Q: Can detail 8/P-5.1 be applied to mechanical piping as well?

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Q: Do hangers attached to the joist count against the qty of blocks that are allowed to be attached to joists?

Q: Per the notes in detail 1/S-5.3 we need the SEOR to review these conditions and advise if they are acceptable or advise changes as required.

At the locations with the most concentration of blocking on joists adding steel beams between the joists and attached to the HSS may resolve some or all locations.

Signature : \_\_\_\_\_



By AKH Structural Engineers, Inc., 04-02-24.

Responses to questions presented in previous pages:

Q1: Yes, partially, only in-between wood joists. As stated in the shop drawings, refer to details 1, 2 & 10/S5.3 of the DSA approved set of drawings, for hanger rod requirements to wood framing and with the added requirements noted in the shop drawings such as of hanger rods can only occur within the middle one-half of the blocking. Hanger rods can be sloped up to 1/2H:12V as required to reach block, etc. Additionally, for lateral braces to wood framing, refer to details 6/ 7 & 9/S5.3 of the approved DSA set of drawings. Lastly, see following pages SBSCC.M.AG.1015 & SBSCC.M.AG.1016 for locations of proposed added joists, sistered to existing wood joists, and/or addition of new HSS beams atop bottom flanges of existing transverse beams.

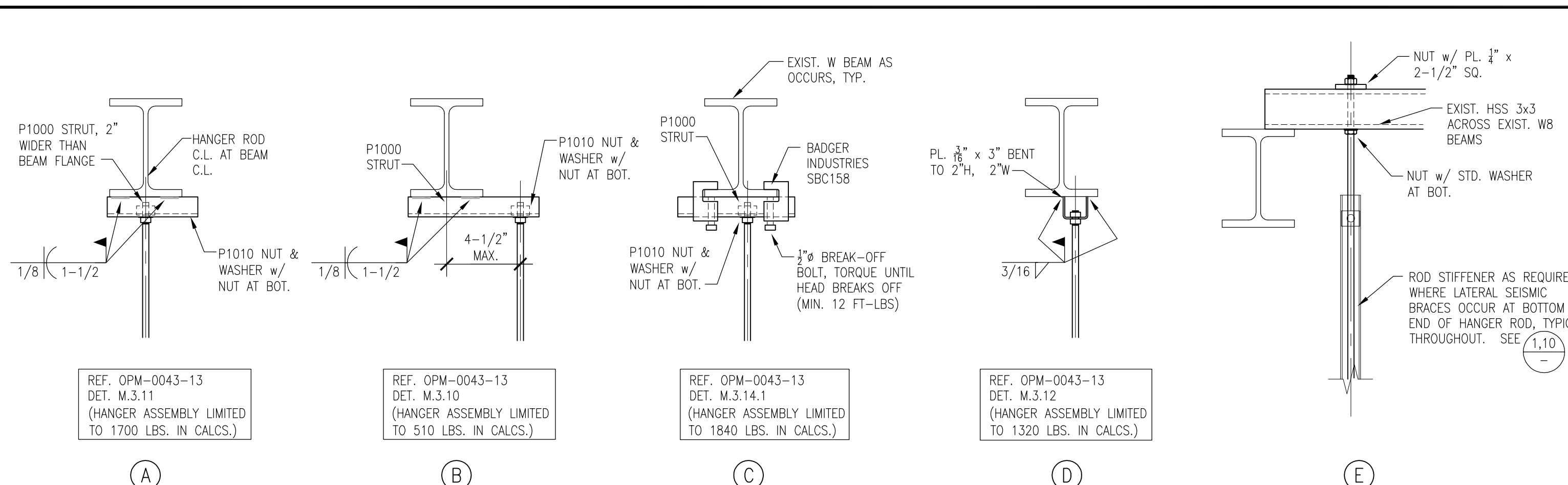
Q2: Yes. The intent is to have rod locations supported by blocking between each joist, where possible, and the bracing can be attached directly to the joist or to the blocking as noted in details 6, 7 & 9/S5.3 of the approved DSA set of drawings. However, see following pages SBSCC.M.AG.1015 & SBSCC.M.AG.1016 with locations of proposed sistered joists to existing wood joists and/or addition of new HSS beams, atop bottom flanges of existing transverse beams.

Q3: Yes. As stated in response to question Q2 above, the intent is to have rod locations supported by blocking between each joist, where possible, and the bracing can be attached directly to the joist or to the blocking as noted in details 6, 7 & 9/S5.3 of the approved DSA set of drawings. However, see following pages SBSCC.M.AG.1015 & SBSCC.M.AG.1016 with locations of proposed sisters to existing wood joists and/or addition of new HSS beams, atop bottom flanges of existing transverse beams.

Q4: If a single joist will receive more than (3) blocks attached to it, over the entire span length of the joist, from one side, or from both sides combined, the existing joist can be strengthened with a new 2x12 sister (depending on the pipe load), similar to detail 24/S5.1 of the approved set of drawings and or new HSS beams are being added. Refer to following pages SBSCC.M.AG.1015 & SBSCC.M.AG.1016 with locations of proposed sistered joists to existing wood joists.

At the locations with the highest concentration of blocking, adding the HSS steel beams between existing wide-flange beams is the preferred solution to avoid attaching excessive number of blocks with hanger rods to the wood framing. Refer to following pages SBSCC.M.AG.1015 & SBSCC.M.AG.1016 with locations of proposed addition of new HSS beams atop bottom flanges of existing beam transverse beams.

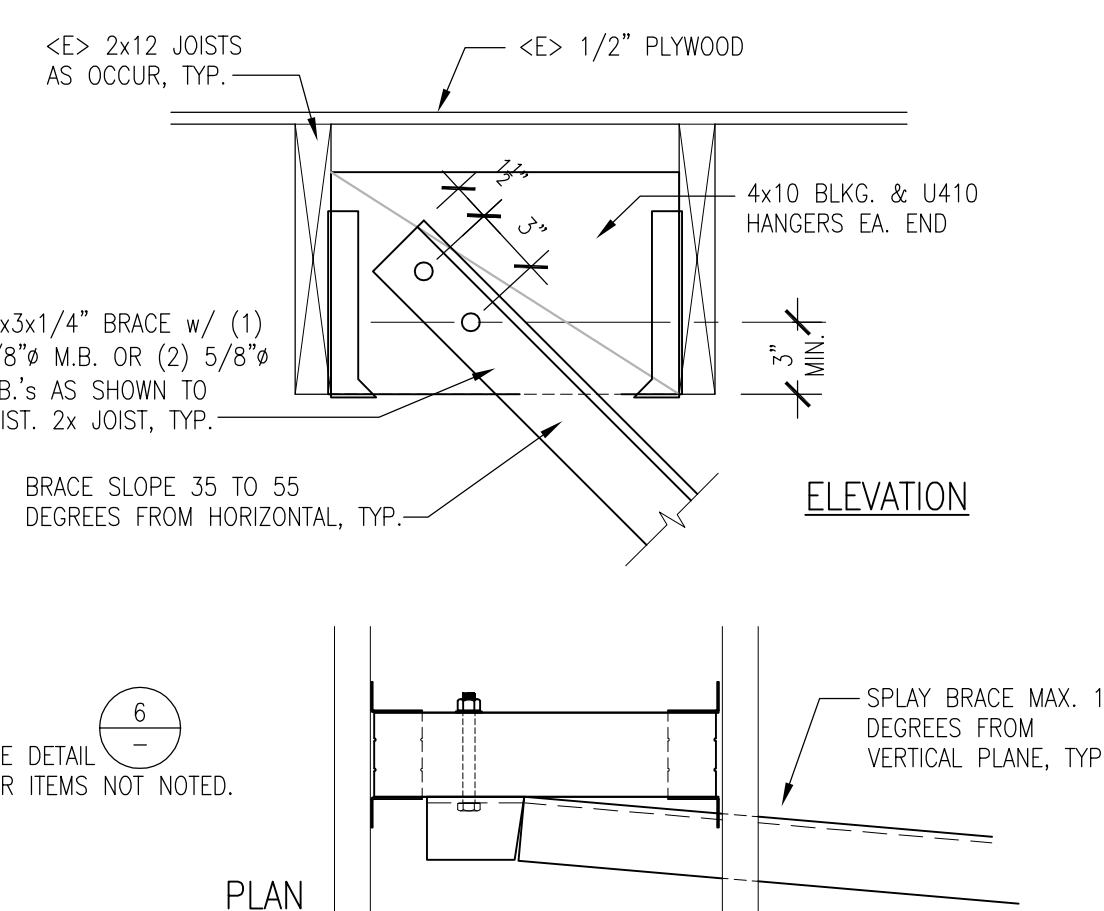




SCALE: 1-1/2"=1' 0"

SCALE: 1-1/2"=1' 0"

SCALE: 1-1/2"=1' 0"



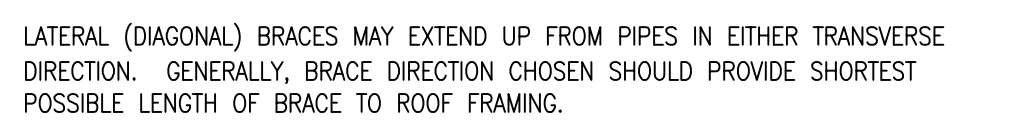
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SCALE: 1-1/2"=1' 0"

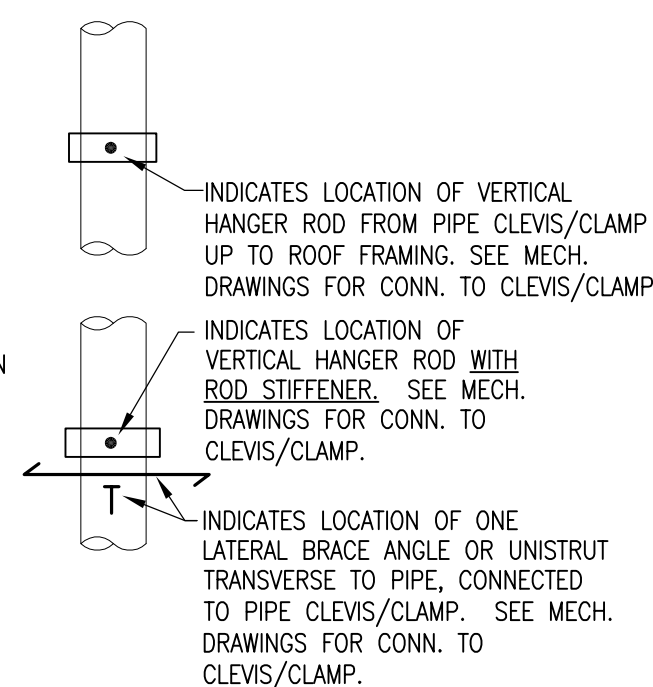
SCALE: 1-1/2"=1' 0"

SCALE: 1-1/2"=1' 0"

SCALE: 1-1/2" = 1'-0"



SCALE: 1-1/2"=1' 0"



A. HANGER RODS:

1. VERTICAL HANGER RODS SHALL BE 1" # ASTM A36, A307 OR F1554 GR. 36 THREADED ROD. SEE MECHANICAL DRAWINGS FOR CONNECTION OF HANGER ROD TO PIPE CLEVIS/CLAMP BEING SUPPORTED. SEE \*\*NOTE AT DETAIL 1/55.3 FOR LIMITATIONS ON NUMBER OF HANGER RODS SUPPORTED SUPPORTED BY INDIVIDUAL JOISTS.
2. HANGER RODS SHALL BE SLOPED NOT MORE THAN 5% FROM VERTICAL (1H:20V).
3. HANGER RODS SHALL BE ATTACHED TO FRAMING AT ROOF LEVEL PER DETAILS 1 THROUGH 3 ON 55.3 AS APPROPRIATE ACCORDING TO WHERE TOP OF ROD OCCURS RELATIVE TO SPECIFIC FRAMING MEMBERS.
4. WHERE LATERAL BRACES OCCUR AT BOTTOM OF HANGER RODS, RODS SHALL HAVE CONCENTRIC STIFFENERS PER DETAIL 10/55.

### B. LATERAL BRACES

1. LATERAL BRACES SHALL BE ONE OF THE FOLLOWING:
  - a. ASTM A36 13-1/2"x12"x1/4" - OUTSTANDING ANGLE LESS SHALL OCCUR AT TOP SIDE OF PIPE
  - b. UNSTRUCT P1000 OR P1000T OR EQUIVALENT: 1-5/8" SQ. X 12 GA CHANNEL STRUT
2. CONNECTIONS OF LATERAL BRACES TO WOOD FRAMING SHALL USE NOT LESS THAN TWO (2) 3/8" BOLTS TO WOOD MEMBERS, AND ONE 3/8" BOLT TO STEEL MEMBERS. CONNECTION AT BOTTOM OF MECHANICAL DRAIN (1) 5/8" M.B. TO PIPE ELONG./CLAMP AS SHOWN ON MECHANICAL DRAWINGS.
3. LATERAL BRACING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF CALIFORNIA HAZ (OSHPD) OPM-0043-13 "MASON WEST, INC. SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS, 7TH ED., 2020." WHERE SPECIFIC DETAILS FOR OPM-0043 ARE REFERENCED, CONSTRUCTORS SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN DETAIL.
4. BRACING HARDWARE COMPONENTS SHALL BE BY MASON WEST, INC. AS SPECIFIED IN OPM-0043-13, OR EQUIVALENT PRODUCTS FROM ANYONE UNSTRUCT OR EATON B-LINE PRODUCTS FROM OTHER MANUFACTURERS MAY BE PROVIDED ONLY AFTER COMPREHENSIVE PRODUCT INFORMATION IS SUBMITTED AND APPROVED BY SEER. USE OF EQUIVALENTS BY MANUFACTURER OTHER THAN THOSE SPECIFIED ABOVE WILL REQUIRE A DEVELOPMENT/ SUBMITTAL OF CDD (CONSTRUCTION CHANGE DOCUMENT) BY SEER TO DASA, AND WOULD BE DEPENDENT ON DASA-APPROVAL. SPECIFICATION AND SUBMITTAL OF CDD AND REQUIRED REVISIONS WOULD BE AT CONTRACTOR'S EXPENSE.
5. SEE MECHANICAL DRAWINGS FOR ATTACHMENT OF LATERAL BRACES TO PIPES/CONDUITS BEING BRACED.
6. SLOPE OF LATERAL BRACES SHALL BE BETWEEN 35 AND 55 DEGREES FROM HORIZONTAL.
7. LATERAL BRACES SHALL GENERALLY OCCUR IN A VERTICAL PLANE PERPENDICULAR TO AXIS OF SUBJECT PIPE/CONDUIT. BRACES SHALL BE SPACED NOT MORE THAN 10 DEGREES FROM VERTICAL PLANE PERPENDICULAR TO PIPE/CONDUIT AXIS.

C. PIPE HANGER AND BRACE LEGEND AND NOTES

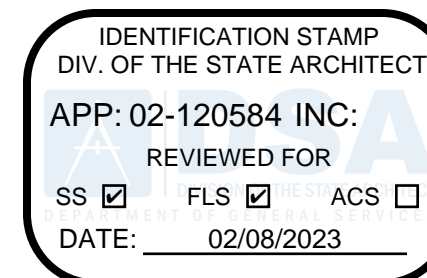
1. LATERAL (DIAGONAL) BRACES MAY EXTEND UP FROM PIPES IN EITHER TRANSVERSE DIRECTION. GENERALLY, BRACE DIRECTION CHOSEN SHOULD PROVIDE SHORTEST POSSIBLE LENGTH OF BRACE TO ROOF FRAMING.

HANGER ROD LOCATIONS ON  
PLAN ARE SHOWN THUS:

INDICATES LOCATION OF VERTICAL  
HANGER ROD FROM PIPE CLEVIS/CLAMP  
UP TO ROOF FRAMING. SEE MECH.  
DRAWINGS FOR CONN. TO CLEVIS/CLAMP

LATERAL BRACE LOCATIONS  
PLAN ARE SHOWN THUS:

INDICATES LOCATION OF ONE LATERAL BRACE ANGLE OR UNISTRUT TRANSVERSE TO PIPE, CONNECTED TO PIPE CLEVIS/CLAMP. SEE MECH. DRAWINGS FOR CONN. TO CLEVIS/CLAMP.



# AKH

**Structural Engineers, Inc.**  
275 Tennant Avenue, Ste. 204 ph: 408.978.1970  
Morgan Hill, California 95037 web: AKHSE.com



**SOLANO COMMUNITY  
COLLEGE DISTRICT**



4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534

## CENTRAL PLANT MODERNIZATION

DSA APPL #02-120584

[illegible]

SOBE PROJECT NO:	2200689
DATE:	02/01/23
DRAWN BY:	JJQ, TDH
CHECKED BY:	TDH
APPROVED BY:	

SHEET TITLE
<b>STRUCTURAL HANGERS &amp; BRACES SUPPORT DETAILS</b>

SCALE:	AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE	

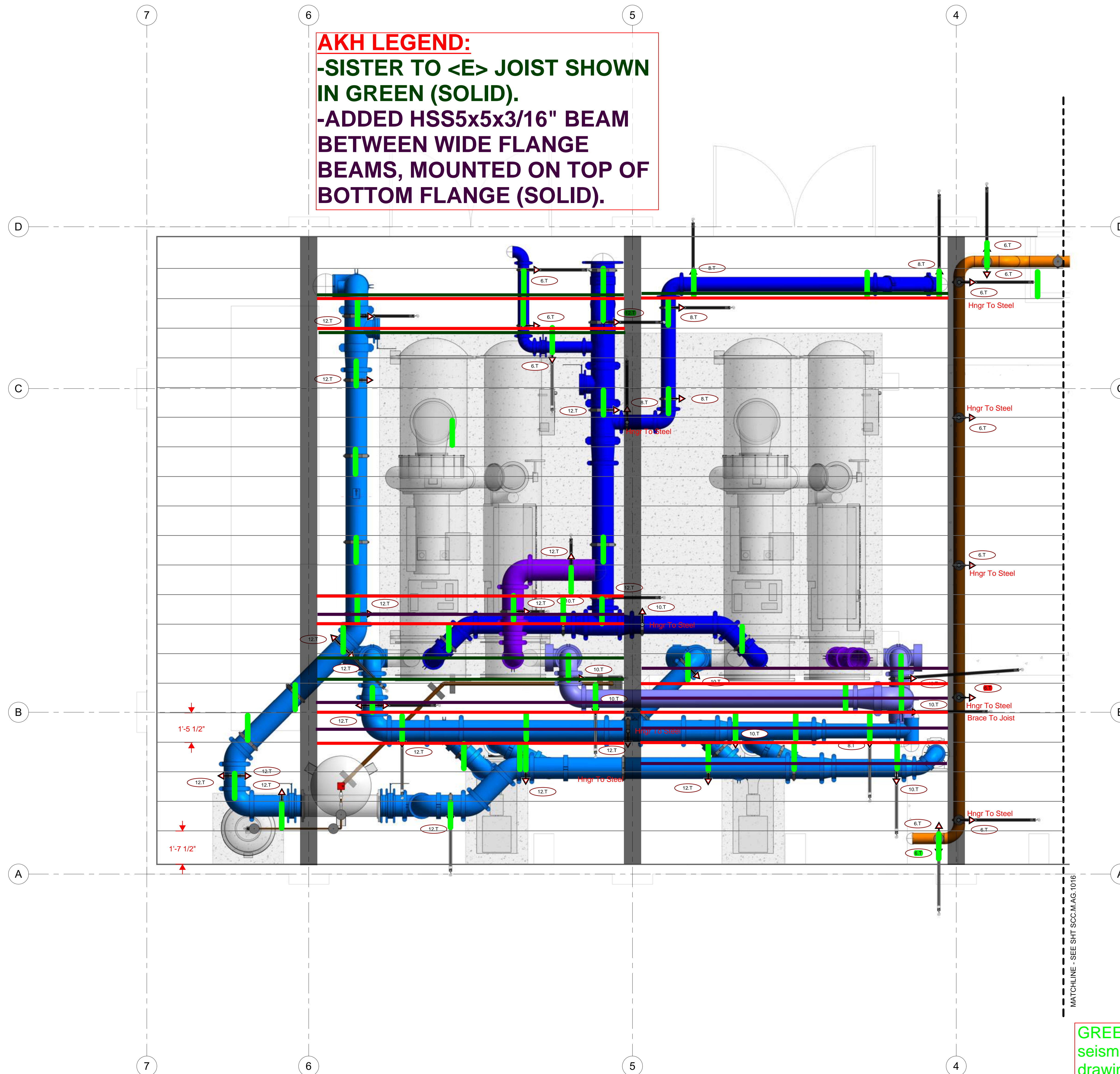
**S-5.3**

SHEET OF -

















**AKH LEGEND:**

- SISTER TO <E> JOIST SHOWN IN GREEN (SOLID).
- ADDED HSS5x5x3/16" BEAM BETWEEN WIDE FLANGE BEAMS, MOUNTED ON TOP OF BOTTOM FLANGE (SOLID).

**LEGENDS**

	<b>CS</b>	COLD WATER
	<b>CWS</b>	CONDENSER WATER SUPPLY
	<b>CWR</b>	CONDENSER WATER RETURN
	<b>CHWS</b>	CHILLED WATER SUPPLY
	<b>CHWR</b>	CHILLED WATER RETURN
	<b>HHWS</b>	HEATING HOT WATER SUPPLY
	<b>HHWR</b>	HEATING HOT WATER RETURN
	<b>EQ</b>	EQUALIZER



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STAMP

QR CODE

SOLANO COMMUNITY COLLEGE  
CENTRAL PLANT MODERNIZATION  
4000 SUISUN VALLEY R. FAIRFIELD, CA 94534  
SUPPORT LAYOUT - CHILLER ROOM

[illegible]

NO.	DESCRIPTION	DATE
ORIGINAL PRINT SIZE = 30x42		

## KEY PLAN

CHILLER	BOILER	COOLING TOWER
---------	--------	---------------

OB NUMBER	230124
-----------	--------

SUED FOR

DATE \_\_\_\_\_

RAWN BY:RB / VG

CHECKED BY:VG

DRAWING SCALE	AS SHOWN
SHEET TITLE	

[illegible]

## SUPPORT LAYOUT

- CHILLER ROOM

SEISMIC BRACING

DRAWING NUMBER	
----------------	--

SBSCC MAG 1015

BBSCC.M.AG.1013

GREEN - Indicates hanger or seismic brace per contract drawings  
RED - Indicates overloaded joist





**-ADDED HSS5x5x3/16" BEAM BETWEEN WIDE FLANGE BEAMS, MOUNTED ON TOP OF BOTTOM FLANGE (SOLID).**

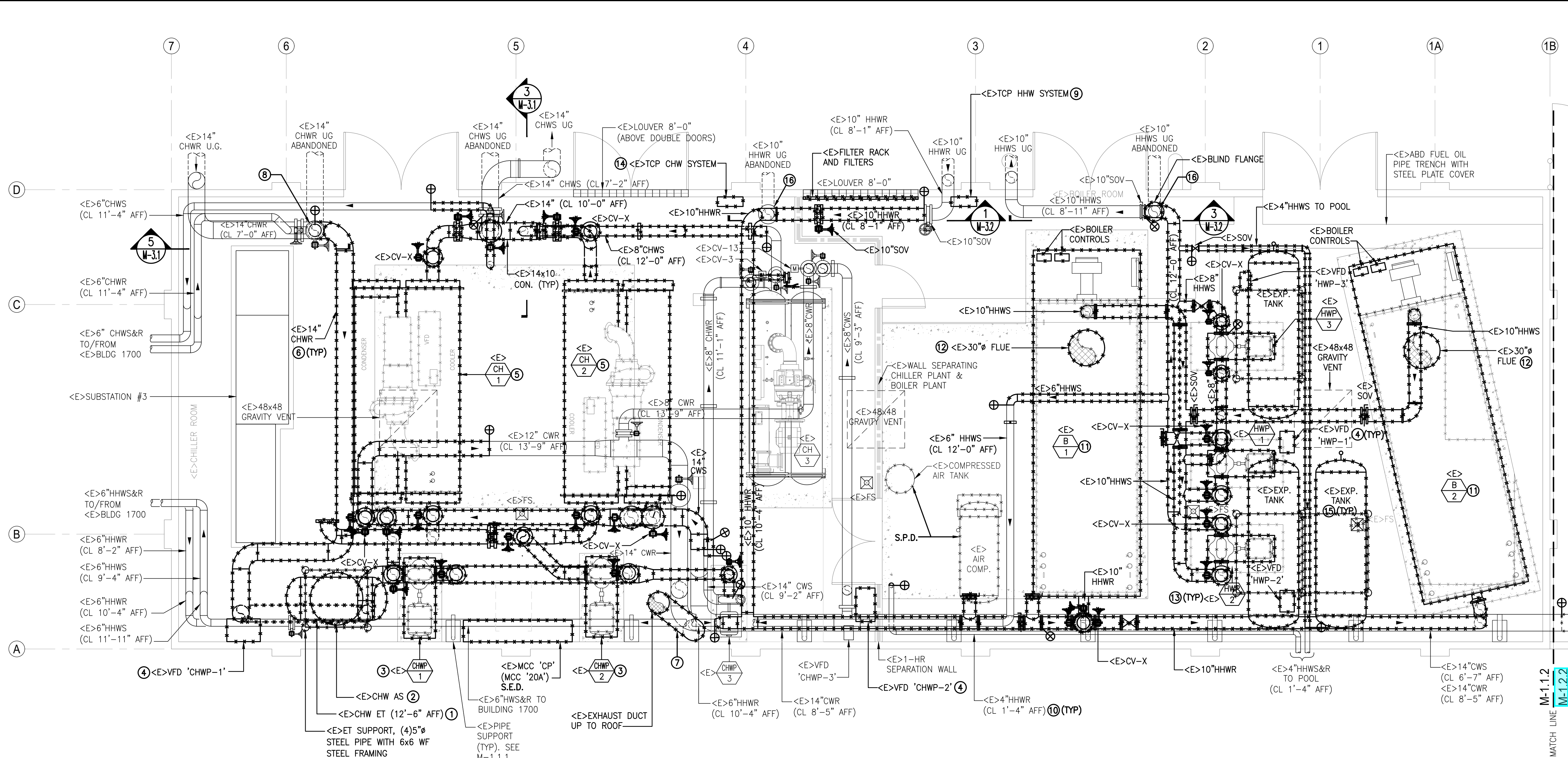
DRAWING NUMBER

**SBSCC.M.AG.1016**

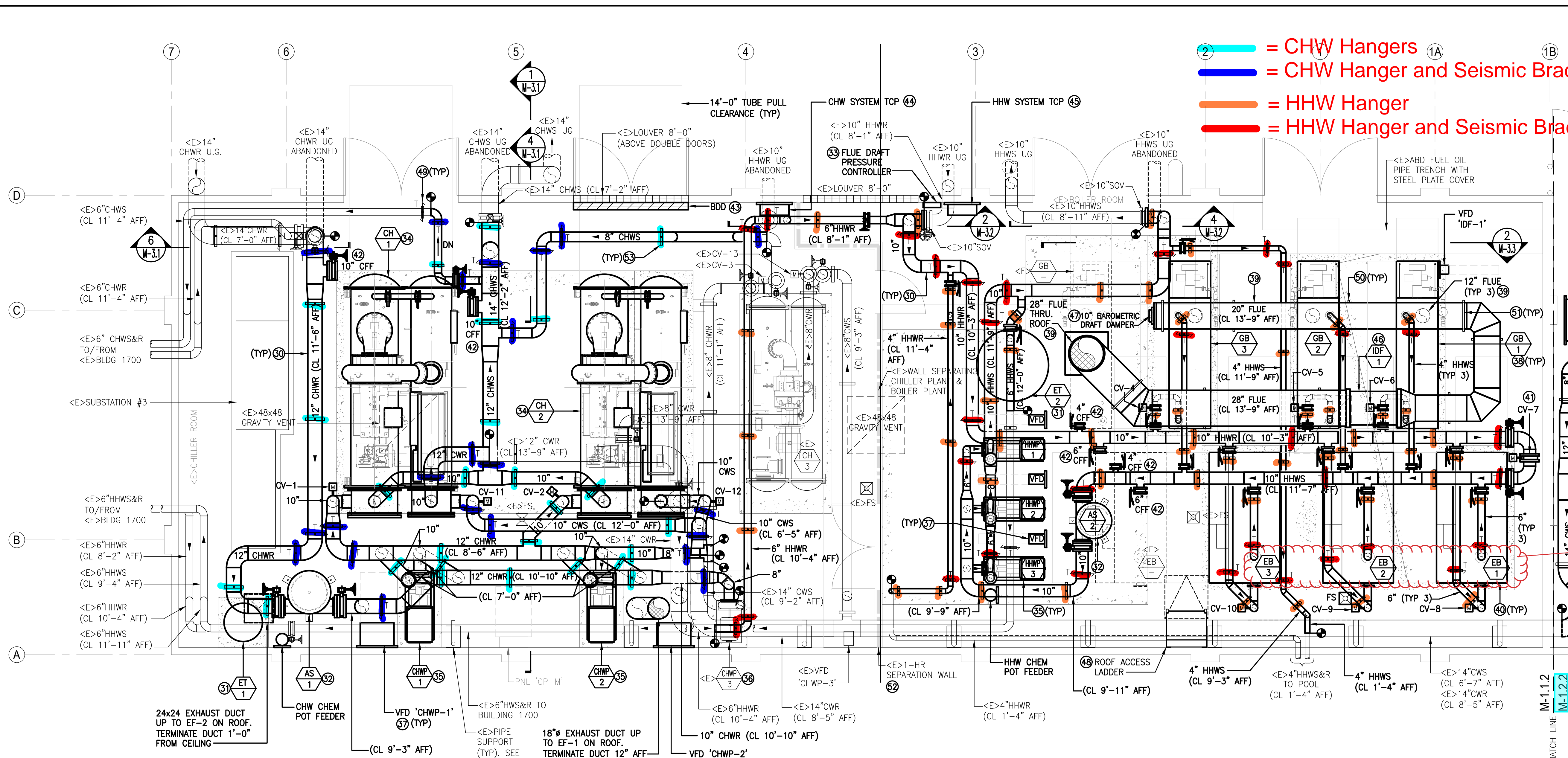
GREEN - Indicates blocking for piping hanger  
BLUE - Indicates blocking for flue hanger  
RED - Indicates overloaded joist



THIS DRAWING IS 30" X 42" AT FULL SIZE. 15" X 21" AT HALF SIZE. © 2015 BY SALAS O'BRIEN ENGINEERS, INC.



1 CHILLER AND BOILER FLOOR PLAN - DEMO  
SCALE: 1/4" = 1' - 0"

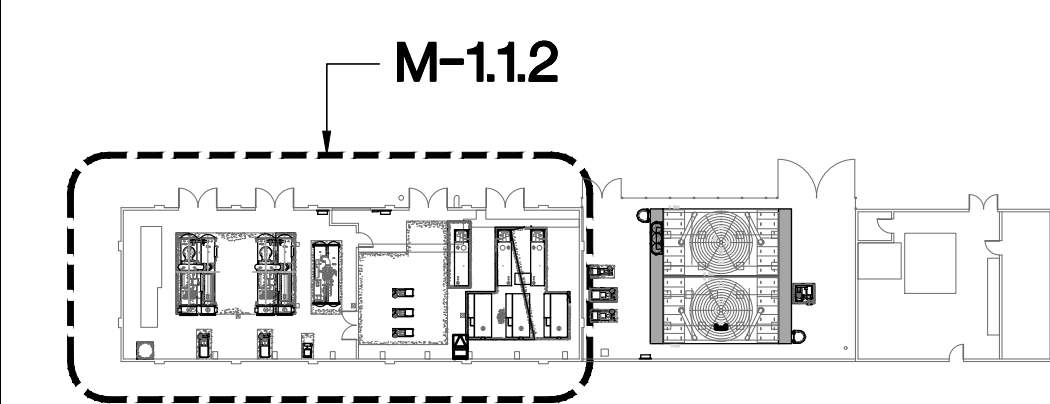


2 CHILLER AND BOILER FLOOR PLAN - NEW  
SCALE: 1/4" = 1' - 0"

REFERENCE SHEET NOTES

- DEMO:**
- DEMOLISH EXISTING CHW EXPANSION TANK, ASSOCIATED PIPING, AND STEEL STRUCTURAL SUPPORT FRAMING TO SLAB. CUT STEEL SUPPORT PIPES (IF NECESSARY). FILL ANCHOR HOLES AND OPENINGS WITH GROUT AND FINISH TO MATCH EXISTING CONCRETE SLAB.
  - DEMOLISH EXISTING CHW AIR SEPARATOR, SUPPORTS, AND ASSOCIATED PIPING.
  - DEMOLISH EXISTING CHW PUMP, ELECTRICAL CONNECTIONS, AND CONTROLS.
  - DEMOLISH EXISTING PUMP VFD AND SUPPORT FRAMING.
  - DISCONNECT PIPING, CONTROLS, ELECTRICAL CONNECTIONS, AND REMOVE EXISTING CHILLER. RECOVER AND RECYCLE REFRIGERANT (CH-1 AND CH-2 EACH CONTAIN APPROXIMATELY 2,235 LBS OF HFC-134A). CUT ANCHOR BOLTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD OR SLAB.
  - DEMOLISH EXISTING CHW PIPING TO THE EXTENT SHOWN ON PLANS. DEMOLISH ASSOCIATED PIPE SUPPORTS, FITTINGS, SPECIALTIES, AND VALVES.
  - DEMOLISH EXISTING DUCTWORK THROUGH ROOF AND ASSOCIATED SUPPORTS.
  - DEMOLISH ABANDONED CHW SUPPLY AND RETURN RISERS THROUGH CONCRETE SLAB. CUT PIPE 1/4" BELOW EXISTING GRADE, FILL WITH GROUT, AND FINISH TO MATCH EXISTING CONCRETE SLAB. SEE SECTION VIEWS ON M-3.1.
  - DEMOLISH EXISTING HHW SYSTEM TEMPERATURE CONTROL PANEL (TCP).
  - DEMOLISH EXISTING HHW PIPING TO THE EXTENT SHOWN ON PLANS. DEMOLISH ASSOCIATED PIPE SUPPORTS, FITTINGS, SPECIALTIES, AND VALVES.
  - DISCONNECT PIPING, GAS, CONTROLS, ELECTRICAL CONNECTIONS, AND REMOVE BOILER. CUT ANCHOR BOLTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD.
  - DEMOLISH FLUE THROUGH ROOF AND ASSOCIATED SUPPORTS.
  - DEMOLISH EXISTING HHW PUMP, ELECTRICAL CONNECTIONS, AND CONTROLS. DEMOLISH EXISTING HOUSEKEEPING PAD TO EXTENT NECESSARY FOR NEW EQUIPMENT LAYOUT AND PAD DESIGN. SEE MECHANICAL EQUIPMENT AND PAD LAYOUT ON SHEET M-1.1.1. SEE STRUCTURAL DRAWINGS.
  - DEMOLISH EXISTING CHW SYSTEM TEMPERATURE CONTROL PANEL (TCP). PRESERVE AND PROTECT SIGNAL WIRING, CONDUIT AND TERMINATIONS SPECIFIC TO THE EXISTING CH-3 AND CHWP-3.
  - DEMOLISH EXISTING HHW EXPANSION TANK, ASSOCIATED PIPING, AND STEEL STRUCTURAL SUPPORT FRAMING TO SLAB. CUT STEEL SUPPORT PIPES (IF NECESSARY). FILL ANCHOR HOLES AND OPENINGS WITH GROUT AND FINISH TO MATCH EXISTING CONCRETE SLAB. SEE SECTION VIEWS ON M-3.2.
  - DEMOLISH ABANDONED HHW SUPPLY AND RETURN RISERS THROUGH CONCRETE SLAB. CUT PIPE 1/4" BELOW EXISTING GRADE, FILL WITH GROUT, AND FINISH TO MATCH EXISTING CONCRETE SLAB. SEE SECTION VIEWS ON M-3.2.
- NEW:**
- PROVIDE AND INSTALL PIPING TO THE EXTENT SHOWN ON PLANS. PROVIDE AND INSTALL PIPE INSULATION, JACKETING, HANGERS, SEISMIC BRACING AND SUPPORTS TO STRUCTURE. REFER TO CHW AND HHW SYSTEM SCHEMATICS ON M-7.1 AND M-7.2.
  - PROVIDE AND INSTALL EXPANSION TANK ON PAD. REFER TO DETAIL 4/M-5.2 AND STRUCTURAL DRAWINGS FOR INSTALLATION AND ANCHORAGE.
  - PROVIDE AND INSTALL AIR SEPARATOR. PROVIDE AND INSTALL REMOVABLE REUSABLE JACKETING. REFER TO DETAIL 11/M-5.1 AND STRUCTURAL DRAWINGS FOR INSTALLATION AND ANCHORAGE.
  - PROVIDE AND INSTALL ENERVIEW EBC31 MODULATING DRAFT PRESSURE CONTROLLER, COORDINATE WITH CONTROLS AND ELECTRICAL CONTRACTOR.
  - PROVIDE AND INSTALL CHILLER AND ACCESSORIES. CHILLER TO BE KNOCKED DOWN AND FIELD ASSEMBLED IN THE SPACE BY MANUFACTURER CERTIFIED PERSONNEL. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE. REFER TO CHILLER SCHEDULE ON M-6.1 AND CHW SYSTEM SCHEMATIC ON M-7.1.
  - PROVIDE AND INSTALL PUMP AND ACCESSORIES. REFER TO DETAIL 1/M-5.1, PUMP SCHEDULE ON M-6.1 AND CHW/HHW SYSTEM SCHEMATICS ON M-7.1 AND M-7.2.
  - PROVIDE AND INSTALL PIPING AND ACCESSORIES TO THE SUCTION SIDE OF THE EXISTING CHWP-3. REFER TO DETAIL 1/M-5.1, PUMP SCHEDULE ON M-6.1 AND CHW SYSTEM SCHEMATIC ON M-7.1.
  - PROVIDE AND INSTALL VFD. SEE VFD SCHEDULE ON M-6.1, DETAIL 9/M-5.1 FOR FREE STANDING SUPPORT DETAIL, AND 1/S-5.1 FOR WALL MOUNTING DETAIL, S.S.D.
  - PROVIDE AND INSTALL GAS BOILER AND ACCESSORIES. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE. REFER TO GAS BOILER SCHEDULE ON M-6.1, HHW SYSTEM SCHEMATIC ON M-7.2, AND PLUMBING DRAWINGS FOR GAS CONNECTIONS.
  - PROVIDE AND INSTALL FLUE FROM CONNECTION AT GAS BOILER TO PENETRATION THROUGH ROOF AS INDICATED ON PLANS. SEE M-1.3 AND DETAIL 6/M-5.2 FOR ROOF PENETRATION CONTINUATION.
  - PROVIDE AND INSTALL ELECTRIC BOILER AND ACCESSORIES. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE. REFER TO ELECTRIC BOILER SCHEDULE ON M-6.1, HHW SYSTEM SCHEMATIC ON M-7.2, AND ELECTRICAL DRAWINGS.
  - PROVIDE 10" BYPASS BETWEEN HHW SUPPLY AND RETURN HEADERS WITH A MODULATING CONTROL VALVE.
  - PROVIDE BUTTERFLY VALVE AND BLIND FLANGE FOR FUTURE OR TEMPORARY PROVISIONS.
  - 8"x6" BACKDRAFT DAMPER. GSM BLANK OFF AT RADIUS SECTION.
  - PROVIDE AND INSTALL CHW SYSTEM TEMPERATURE CONTROL PANEL. SEE DETAIL 1/S-5.1 FOR MOUNTING AND ANCHORAGE. RE-CONNECT EXISTING CONTROLS FROM <E> CH-3 AND <E> CHWP-3. COORDINATE WITH CONTROLS CONTRACTOR.
  - PROVIDE AND INSTALL HHW SYSTEM TEMPERATURE CONTROL PANEL. SEE DETAIL 1/S-5.1 FOR MOUNTING AND ANCHORAGE. COORDINATE WITH CONTROLS CONTRACTOR.
  - INDUCED DRAFT FAN (IDF-1) SUSPENDED FROM CEILING. SEE FAN SCHEDULE ON M-6.1 AND STRUCTURAL DRAWINGS FOR SUPPORT.
  - PROVIDE AND INSTALL FIELD CONTROLS 10" DIAMETER M-M2 COMMERCIAL BACKDRAFT DAMPER AND CONTROLLER. COORDINATE WITH CONTROLS CONTRACTOR.
  - ROOF ACCESS LADDER. REFER TO DETAIL 1/M-5.4.8. PROVIDE AND INSTALL PIPE HANGER SUPPORTS AS INDICATED. REFER TO DETAIL 2/M-5.2 FOR CLEVIS HANGER AND S-5.3 FOR STRUCTURAL ATTACHMENT.
  - PROVIDE AND INSTALL TRANSVERSE BRACING AT CLEVIS HANGER AS INDICATED. REFER TO DETAIL 2/M-5.2 FOR BRACING ATTACHMENT TO CLEVIS HANGER AND S-5.3 FOR STRUCTURAL ATTACHMENT.
  - PROVIDE AND INSTALL SECURITY STACK HALF ANGLE RING SUPPORT FOR INDICATED SIZE OF FLUE.
  - PROVIDE AND INSTALL SECURITY STACK ANCHOR PLATE FOR INDICATED SIZE OF FLUE.
  - FIRESTOP ALL PIPE PENETRATIONS THROUGH FIRE RATED WALL. REFER TO DETAIL 11 AND 12 ON M-5.1.
  - PROVIDE AND INSTALL PIPE HANGER SUPPORTS AS INDICATED. REFER TO DETAIL 2/M-5.2 FOR CLEVIS HANGER AND S-5.3 FOR STRUCTURAL ATTACHMENT.

230412 Addendum 004, Central Plant.pdf: Y PLAN



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-120584 INC:  
REVIEWED FOR  
SS ☐ FLS ☐ ACS ☐  
DATE: 02/08/2023

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SOLANO COMMUNITY COLLEGE DISTRICT

SOLANO COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534  
CENTRAL PLANT MODERNIZATION  
DSA APPL #02-120584

ISSUE	MARK	DATE	DESCRIPTION
100% SCHEMATIC DESIGN		06/17/22	
50% CD		06/17/22	
DSA PROGRESS SET		09/06/22	
DSA SUBMITTAL		10/19/22	
DSA BACKCHECK		02/01/23	

SOBE PROJECT NO: 2200689  
DATE: 02/01/23  
DRAWN BY:  
CHECKED BY:  
APPROVED BY: EES

SHEET TITLE  
MECHANICAL CHILLER AND BOILER FLOOR PLAN

SCALE: AS NOTED  
THIS DRAWING IS 30" X 42" AT FULL SIZE

M-1.1.2  
SHEET OF



- LEGENDS
- CS COLD WATER
  - CWS CONDENSER WATER SUPPLY
  - CWR CONDENSER WATER RETURN
  - CHWS CHILLED WATER SUPPLY
  - CHWR CHILLED WATER RETURN
  - HHWS HEATING HOT WATER SUPPLY
  - HHWR HEATING HOT WATER RETURN
  - EQ EQUALIZER

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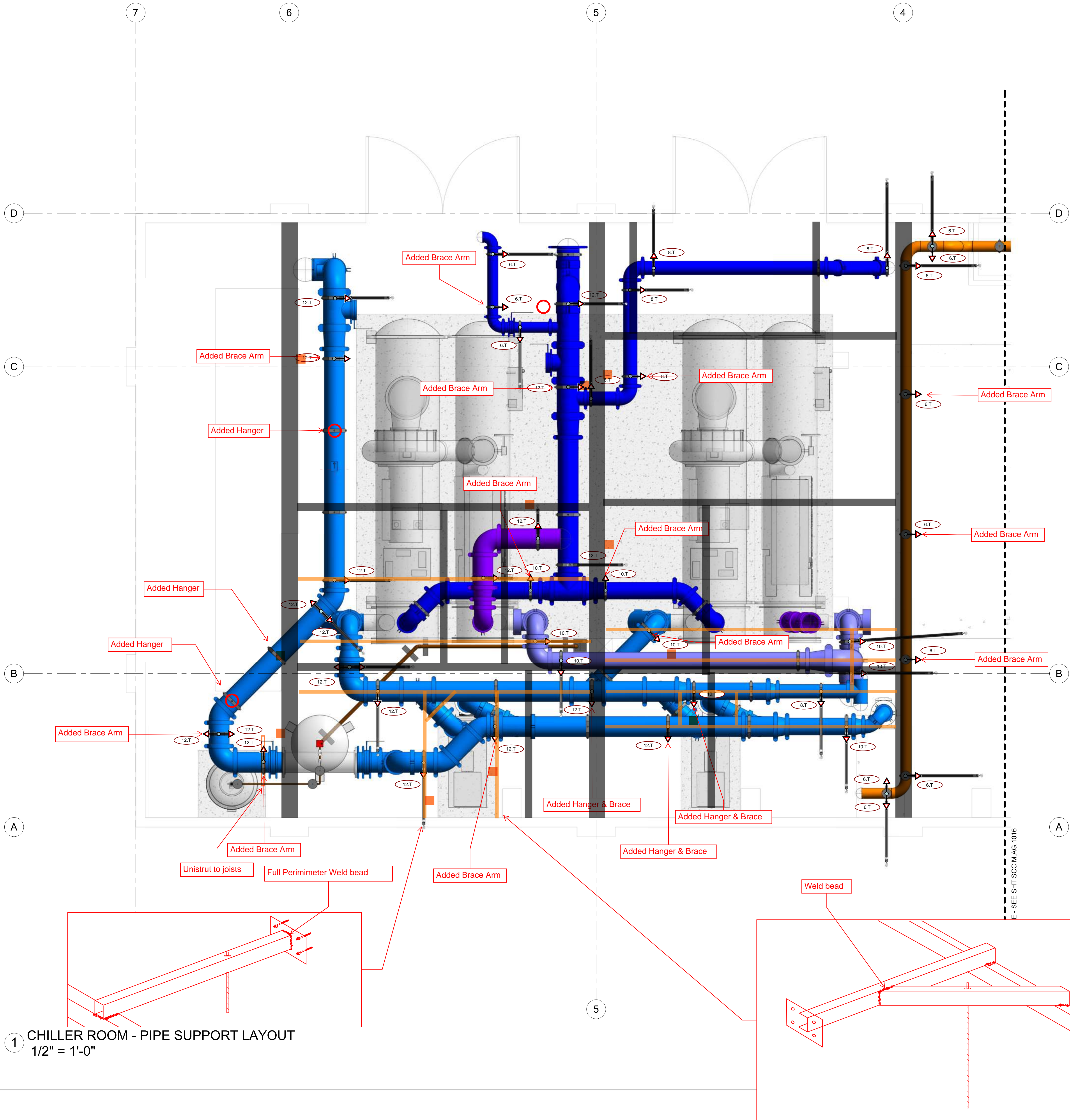
QR CODE

SOLANO COMUNITY COLLEGE  
CENTRAL PLANT MODERNIZATION  
4000 SUISUN VALLEY R. FAIRFIELD, CA 94534  
SUPPORT LAYOUT - CHILLER ROOM

NO.	DESCRIPTION	DATE
ORIGINAL PRINT SIZE = 30x42		
KEY PLAN		
CHILLER	BOILER	COOLING TOWER
JOB NUMBER 230124		
ISSUED FOR		
DATE		
DRAWN BY: RB / VIG		
CHECKED BY: VIG		
DRAWING SCALE AS SHOWN		
SHEET TITLE		

SUPPORT LAYOUT  
- CHILLER ROOM  
SEISMIC BRACING

DRAWING NUMBER  
**SBSCC.M.AG.1015**



1 CHILLER ROOM - PIPE SUPPORT LAYOUT  
1/2" = 1'-0"

E- SEE SHT SCC.M.AG.1016

CURRENT REVISION # CURRENT REVISION DATE





SBSCC.M.AG.1016





Matrix HG  
3347-ALB  
Rev 1

May 30, 2024

Matrix HG Inc.  
115 Mason Cir  
Concord, CA 94520

To: Mitch Lake [mlake@matrixhginc.com](mailto:mlake@matrixhginc.com)

Re: Solano Central Plant  
Rev 1

Please find below cost for CCD#4 for Scope Change as follows:

**Scope of Work:**

- Add Notch to contract sister supports per Detail 24 Drawing S-5.1 dated 3/13/24 (8ea.)
- Add additional 2x12x16' sister supports 8 ea. per Detail 1 Drawing S-1.1 dated 3/13/24

**Clarifications:**

- Tubing not included

**Cost Breakdown:**

Labor	12,606
Material	1,200
Equipment	2,570
Markup	2,890
<b>Total Cost for CCD#4</b>	<b>\$19,266</b>

Bob Gonzalez  
ALB, Inc.



CHANGE ORDER REQUEST			
Client Name	Mitchell Lake	Date	4/16/2024
Client Name	Matrix HG	Project	Solano Community College
Contact	<a href="mailto:mlake@matrixhginc.com">mlake@matrixhginc.com</a>	Address	4400 Suisun Valley Road, Fairfield, CA 94534
Request #	06	Client Contract #	230447
COR 06 - RFI 38 Hanger Attachment & Structural Load Clarifications			
CHANGE ORDER DETAILS			
MECHANICAL VDC SERVICES	#	Description of Scope and Work Area	Estimated Budget
	1.0	RFI 38 Hanger Attachment & Structural Load Clarifications	
	Scope Inclusion/Exclusions		
	VEC was provided the answered RFI #38 regarding the Hanger Attachment and Structural Load Clarifications. This change order covers the remodeling of pipes in accordance with RFI # 38's clarification and a review for optimal routing with Matrix Team . As Submittal Drawings have already been produced & submitted, incorporating this change requires model & submittal drawing updates		Inclusions: 1. Lump Sum Billing w/NET 30 as per contract 2. Remodel Pipe Routing per Joist Clarification 3. Limited System Optimization Support 4. Updated Submittal Drawings  Exclusions: 1. Further Coordination Meetings & Clash Detection 3. Anything not stated plainly in this Change Order
	AMOUNT OF THIS CHANGE ORDER		\$5,406.00
Matrix HG		VEC	
Signature		Signature	
Authorized By		Authorized By	
Date		Date	







# BAYSIDE INSULATION, INC.

To: MatrixHG

Proposal No: 249138 rev2

Date: 06/14/2024

Attn: Mitchell Lake

Phone:

Proposal: Added Seismic Bracing on Piping, Solano CC Central Plant, Fairfield, CA.

We propose to furnish all labor and materials required for the work outlined in this proposal at the price stated herein subject to the following specifications and plans.

## **Scope of Work:**

- Provide additional labor to work around the new hangers and bracing (32 spots) as highlighted and shown on the Drawings provided. *This requires us to stop at each hanger, fit the insulation over the pipe clamps and cutout for the hanger bracing. Seal the cutout with matching tape.*

**Proposal**                      ***\$10,100.00***

## **Conditions:**

Bid price is based on area wages and benefits, including travel.

Price does not include any insulation on the external arms of the hangers and bracing.

If required, a drawing of the hangers and bracing will be needed.

## **Exclusions:**

Overtime premiums, demo, scaffold, insulation on external arms and braces, refrigeration piping, plumbing, aluminum and PVC jacketing, fire stopping.

## **Terms:**

1. This bid is conditioned upon a forty (40) hour work week with work hours 7:00 A.M. to 5:00 P.M., Monday through Friday (or other mutually agreed work hours) and is subject to acceptance within 30 days. It is also subject to our regular contract terms of net cash upon completion with payment of 90% of all labor expended and material delivered each month due and payable on the 10<sup>th</sup> of the following month and the balance 30 days thereafter.

ACCEPTED: Date: \_\_\_\_\_

By \_\_\_\_\_

Respectfully Submitted:

**BAYSIDE INSULATION, INC.**




Phillip J. Ramirez

License 991280

1635 Challenge Drive • Concord, CA 94520

Tel. (925) 288-8960 • Fax (925) 288-8970

## Change Management Record

<b>Stomper Company, Inc</b> 3135 Diablo Ave Hayward, CA 94545				(510) 574 0570 Phone (510) 574 0550 Fax Contractor's License No. 313376	
<b>Submitted To:</b>	Mitchell Lake	<b>Job Name:</b>	Central Plant	<b>Date:</b>	1/15/24
<b>Company:</b>	Matrix	<b>Contract #</b>			

<b>Submitted By:</b>	J Mack	<b>CMR#</b>	78-4	<b>GC Ref#</b>	CCD-4
<b>Description:</b>	Removal of lead paint at 53 locations. Assume 8" by 8". Assume all work completed in 1 mobilization (during phase 2). If work is outside of phase 2, please at \$2,500 per additional mobilization.				

Category	Item	Units			Rates			Extension
		ST	OT	DT	ST	OT	DT	
Labor	Supervision: Laborer	40	-	-	\$110.75	\$144.55	\$178.36	\$4,430
	Laborer	160	-	-	\$97.74	\$125.64	\$153.54	\$15,638
	<b>TOTAL LABOR</b>	200	-	-				\$20,068
Equipment, Owned	Type	Units			Rates			Extension
	Scissor lifts	120			20.54			\$2,465
	<b>TOTAL EQUIPMENT</b>							\$2,465
Materials	Type	Units			Rates			Extension
	Paint Remover	5			\$ 275.00			\$1,375
	Materials	5			\$ 200			\$1,000
	<b>TOTAL MATERIALS</b>							\$2,375
Disposal	Name	Units			Rates			Extension
	Drums	4			400			\$1,600
	Hauling	1			2400	One load only		\$2,400
	<b>TOTAL SUBCONTRACTORS</b>							\$4,000
<b>Subtotal</b>								\$28,908
OH&P	Labor				15%			\$3,010
	Equipment				15%			\$370
	Materials / Disposal				15%			\$356
	Subcontractors				5%			\$200
<b>TOTAL PRICE</b>								<b>\$32,844</b>

Unless specifically noted otherwise, all terms & conditions of original proposal apply

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*Unless specifically noted otherwise, all terms & conditions of original proposal apply*

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## MASON WEST, INC.

1601 E. Miraloma Ave.  
Placentia, CA 92870  
Phone: (714) 630-0701 Fax: (714) 630-1082

**Quotation Q-29665-1**

**MATRIX HG, INC  
CONCORD, CA  
Attn: MITCH LAKE**

**Date: 11/1/2023**

Project Name: Solano Community College District - Central Plant Modernization - Mech Dry Equip VI and SR

City:

Engineers:

Payment Terms: NET 30 DAYS

Freight Terms: FOB Placentia plus Freight

Freight Terms (Other):

Lead Time to Ship: 2 to 3 Weeks

Lead Time to Ship (Other):

Bid Date: 11/1/2023

Date on Bid Dwgs:

Status of Bid Dwgs:

Quote Expiration Date: 12/1/2023

Additional Notes:

We represent the following product manufacturers



...and engineering firm.



Please contact us for additional pricing if not expressly provided in the attached quotation.

**MASON WEST, INC.**

1601 E. Miraloma Ave.  
Placentia, CA 92870  
Phone: (714) 630-0701 Fax: (714) 630-1082

**Quotation Q-29665-1**

## Engineering

QTY	TAG	DESCRIPTION	PRICE EA	EXT
1	2D Seismic Bracing Layout for Suspended Mechanical Piping	Lot of Seismic Anchorage Calculations Stamped by a Licensed California P.E.	\$ 2,550.00	\$ 2,550.00
<b>Engineering TOTAL:</b>				<b>\$ 2,550.00</b>

## Seismic Bracing Kits

QTY	TAG	DESCRIPTION	PRICE EA	EXT
12	SH612T for 6" - 12" Piping Supported by 3/4" All Thread Rod	Rigid Seismic Bracing Brackets with Strut Nut and Strut Bolt Pre-Assemblies.	\$ 100.00	\$ 1,200.00
12	SCCB-6	Snap on Clevis Cross Bolt for 6" Piping.	\$ 15.00	\$ 180.00
36	UCC	Rod Stiffeners.	\$ 13.25	\$ 477.00
<b>Seismic Bracing Kits TOTAL:</b>				<b>\$ 1,857.00</b>



## **MASON WEST, INC.**

1601 E. Miraloma Ave.  
Placentia, CA 92870

Phone: (714) 630-0701 Fax: (714) 630-1082

**Quotation Q-29665-1**

### QUOTE TERMS

The above quote does not include use or sales tax.

Mason West cannot be responsible for any fabrication or installations that occur prior to approval by the engineer of record, OSHPD or any other regulatory agency.

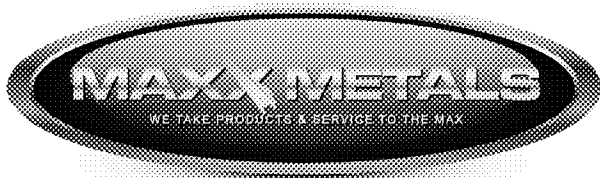
Any job released 6 months after bid date will be subject to a price increase. Use 10% per year compounded as a guideline starting from the bid date.

Mason Industries warranties all products for 1 year from date of purchase against defects in workmanship.

Lead time quoted is as of bid date and may change based on actual release date.

Unless noted otherwise, this quote is neither Buy American or ARRA compliant.

Custom fabricated items such as bases, curbs and special flex connectors are non-refundable and non-returnable. Standard parts may have a restocking charge up to 35%.



# Quotation

Quote #: Q215986  
 Date: 04/17/24  
 Page: 1

Remit to: Tele: 650-654-1500  
 P.O. Box 160 866-577-6299  
 San Carlos, CA 94070 Fax: 650-654-1501

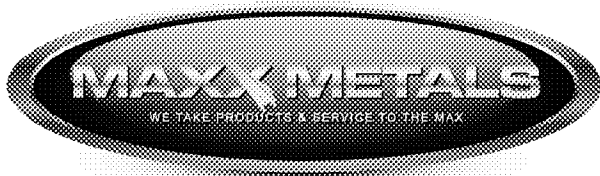
Quoted to: 13079  
 Attn: MITCHELL LAKE  
 MATRIX HG  
 115 MASON CIRCLE  
 SUITE B  
 CONCORD, CA 94520

Ship to:  
 MATRIX HG  
 115 MASON CIRCLE  
 SUITE B  
 CONCORD, CA 94520

T) 925 459 9200

Terms			FOB Point		Ship Terms		Salesperson 3		
Net 30					OUR TRUCK		Francisco Rubio		
Ln#	Quantity	UM	Description				Unit Price	UM	Extended Price
1	11	EA	20' 5" X 5" X .188 W SQR TUBE				324.6160	EA	3570.78
2	1	EA	20' 5" X 5" X .250 W SQR TUBE per cuts to come				400.0000	EA	400.00
			Solano CP - RFI #38 & CCD #4 - MHG CO				230477-08		
3	1	EA	20' 3" X 3" X .313 W SQR TUBE				307.6920	EA	307.69





# Quotation

Quote #: Q216124  
 Date: 04/23/24  
 Page: 1

Remit to: Tele: 650-654-1500  
 P.O. Box 160 866-577-6299  
 San Carlos, CA 94070 Fax: 650-654-1501

Quoted to: 13079  
 Attn: MITCHELL LAKE  
 MATRIX HG  
 115 MASON CIRCLE  
 SUITE B  
 CONCORD, CA 94520

Ship to:  
 MATRIX HG  
 115 MASON CIRCLE  
 SUITE B  
 CONCORD, CA 94520

T) 925 459 9200

Terms			FOB Point		Ship Terms		Salesperson	
Net 30					OUR TRUCK		Francisco Rubio	
Ln#	Quantity	UM	Description			Unit Price	UM	Extended Price
1	1	EA	20' 3" X 3" X .375 W SQR TUBE cut 1 pc 1'11" cut 1 pc 2'7" with holes per detail			394.9400	EA	394.94
2	1	EA	20' 4" X 4" X 3/8" ANGLE cut 1 pc 10" with holes per detail			265.0000	EA	265.00
3	1	EA	3" X 3" 1/4" H.R. PLATE			2.0000	EA	2.00
4	1	EA	2-1/2" X 2-1/2" 3/8" H.R. PLATE			13.0000	EA	13.00
5	1	EA	FAB WELD TUBE BRACKET line 1-5 detail 12/S5.3			367.6471	EA	367.65
6	1	EA	12" X 1'6" 1/2" H.R. PLATE line 6-9 PS-2			56.2000	EA	56.20
7	1	EA	21' 6" X SCH 40 PIPE cut 1 pc 9'			662.4261	EA	662.43
8	1	EA	20' 8" X 13.75# CHANNEL cut 1 pc 1'6"			331.6225	EA	331.62
9	1	EA	FAB WELD PIPE SUPPORT			250.0000	EA	250.00
<b>Quotation is valid for two days.</b> <b>Material is subject to availability at time of order.</b> <b>We appreciate the opportunity to be of service.</b>						<b>Subtotal:</b>		2342.84
						<b>Freight:</b>		40.00
						9.750% <b>Tax:</b>		0.00
						<b>TOTAL:</b>		2382.84

CCD 2 support  
fro HHW



# INVOICE

3/20 line #2 in PO is short .45 cents

Customer Number: ACT-00129631  
Customer Name: MATRIX HG INC  
Order No: O-908953

Invoice No: INV-4355312  
Invoice Date: 3/18/2024  
Current Billing Period: 3/18/2024 - 4/14/2024  
Terms: Net 10  
Due Date: 3/28/2024

**Bill To**  
ACCOUNTS PAYABLE  
MATRIX HG INC  
115 MASON CIR STE B  
CONCORD California 94520  
United States

**Ship To**  
Travis Rangel Rangel  
4000 Suisun Valley Road  
Fairfield CA 94534  
United States

Subtotal:	\$1,338.60
Tax:	\$11.55
Total:	\$1,350.15
Amount Paid:	\$0.00
<b>Remaining Balance Due:</b>	<b>\$1,350.15</b>

Ship To: 4000 Suisun Valley Road Fairfield CA 94534 United States  
Site Name: job#230477. 007 - am

Item	Unit Qty	Unit Price	Duration/Service Date	Charge Type	Total Charges	Taxable
<b>Current Billing Period</b>						
<b>Standard Restroom (Std Rest)</b>						
Rental Charge	2	\$40.00	3/18/2024 - 4/14/2024	Recurring	\$80.00	Y
1 Service 2 Days per Week	2	\$312.00	3/18/2024 - 4/14/2024	Recurring	\$624.00	N
Hand Sanitizer Refill	2	\$35.00	3/18/2024 - 4/14/2024	Recurring	\$70.00	N
Energy and Compliance Fee			3/18/2024	Fee	\$11.92	Y
Energy and Compliance Fee			3/18/2024	Fee	\$103.42	N
<b>Standard Restroom Subtotal</b>					<b>\$889.34</b>	
<b>2 Station Hand Wash Sink (2 Stn Hand Sink)</b>						
Rental Charge	1	\$40.00	3/18/2024 - 4/14/2024	Recurring	\$40.00	Y
1 Service 2 Days per Week	1	\$351.00	3/18/2024 - 4/14/2024	Recurring	\$351.00	N
Energy and Compliance Fee			3/18/2024	Fee	\$52.30	N
Energy and Compliance Fee			3/18/2024	Fee	\$5.96	Y
<b>2 Station Hand Wash Sink Subtotal</b>					<b>\$449.26</b>	
<b>Site Subtotal Excluding Tax</b>					<b>\$1,338.60</b>	
<b>Site Tax</b>					<b>\$11.55</b>	
<b>Site Subtotal</b>					<b>\$1,350.15</b>	

**Invoice Total** **\$1,350.15**

*No Proration for Early Pickup*

Paying your invoices at USS is now easier than ever with our new user-friendly payment portal. Learn more about our new payment portal, as well as how to read your invoice and where to go with questions, by visiting us at [Doing Business with](#)

United Site Services of California, Inc.  
A subsidiary of United Site Services



2 of 2

# INVOICE

[USS](#). Keep an eye out for an email from [noreply@sidetrade.io](mailto:noreply@sidetrade.io) near your billing date to create and activate your account. For any questions, email [ARS@unitedsiteservices.com](mailto:ARS@unitedsiteservices.com) or call 1.800.TOILETS (select 3 for billing and payment).

**UNITED SITE SERVICES**

Easy, Safe & Clean  
1.800.TOILETS  
UnitedSiteServices.com

**QUESTIONS ON YOUR INVOICE?**

1.800.TOILETS  
ARS@UnitedSiteServices.com  
UnitedSiteServices.com

**CHECK OR  
MONEY ORDERS  
PAYABLE TO**

United Site Services  
PO Box 660475  
Dallas, TX.,  
75266-0475  
Terms: Net 10

**TO PAY ONLINE USE THE FOLLOWING LINK:**

<https://ussbillpay.portal.sidetrade.io/#/login>

1.5% Late charge due on  
outstanding balances  
more than 30 days from  
date of invoice (18% per  
annum)

This order is subject to our terms and  
conditions, available at [https://  
www.unitedsiteservices.com/legal-  
terms-conditions/](https://www.unitedsiteservices.com/legal-terms-conditions/), which are part of  
this Agreement

**WE ACCEPT -**

American Express

- Visa
- Mastercard
- Discover

*We will never ask you to change remittance information via email.*

**Please detach this coupon and include with your payment.**

Customer ID: ACT-00129631  
Customer Name: MATRIX HG INC  
Invoice Number: INV-4355312  
Order Number: O-908953  
Due Date: 3/28/2024

Subtotal: \$1,338.60  
Tax: \$11.55  
Total: \$1,350.15  
Amount Remaining: **\$1,350.15**

Amount Paid:

Please Remit to: United Site Services  
PO Box 660475  
Dallas, TX 75266-0475



0000000000INV-435531200001350158

## INVOICE

WILLSCOT

mobile mini

4646 E VAN BUREN ST  
PHOENIX AZ 85008-6927

(800) 456-1751  
billingres@mobilemini.com  
www.MobileMini.com  
Fed ID# 52-0665775

130



MATRIX HG INC  
115 MASON CIR  
CONCORD CA 94520-8548



## BRANCH:

SP SACRAMENTO  
8160 JUNIPERO STREET  
SACRAMENTO CA 95828  
(916) 381-1368

Customer #	Invoice #	Invoice Date	Seq #	Terms
10125486	9020495666	3/21/2024	003	NET 10
PAYMENT DUE			\$426.10	
INVOICE DUE DATE			3/31/2024	

Contract #	Bill to ID	Customer PO	Ordered By	Rental Period	Job Location
1002388417		230477.008	Travis Rangel 9253756575	3/21/2024 - 4/17/2024	MATRIX HG INC 4000 SUISUN VALLEY RD FAIRFIELD CA 94534-3197

Quantity	Item #/Description	Price/Rate	Amount
	40' STANDARD TRI CAM CONTAINER BS40AFZS9136	\$270.00 Rental	\$270.00
4	Cont Pipe Rack w/ Stabilize - Renta	\$20.00 Rental	\$80.00
1	Personal Property Expense	\$11.15 Rental	\$11.15
1	Loss Damage Waiver	\$35.68 Rental	\$35.68
		Sub-total	\$396.83
		Other Fees and Charges	\$29.27
INVOICE TOTAL			\$426.10

Invoice in USD

T\* - Denotes taxable item, N\* - Denotes non-taxable item.



## PAYMENT OPTIONS

Welcome to the WillScot | Mobile Mini customer portal! Register today to make online payments, sign up for Auto-Pay, or view invoices and statements.

<https://portal.mobilemini.com>

(800) 456-1751

You remain responsible for the invoice balance if there is an issue with your method of payment. Late fees and interest charges may be assessed if payment is not made within terms.

**Thank you for your business!**

## PLEASE REMIT WITH PAYMENT

INVOICE TOTAL \$426.10  
Invoice #: 9020495666  
Due Date: 3/31/2024  
Customer: MATRIX HG INC  
Customer #: 10125486

## PLEASE REMIT TO:

WILLIAMS SCOTSMAN, INC.  
DBA MOBILE MINI  
PO BOX 91975  
CHICAGO IL 60693-1975

0000101254863902049566600000000000426108



27500 Riverview Center Blvd  
Suite 100  
Bonita Springs, FL 34134


For correspondence only (no payments)

BILL TO:

2/20 fix tax - am

MATRIX HG INC  
115 MASON CIRCLE  
SUITE B  
CONCORD, CA 94520

## RENTAL INVOICE

INVOICE NO.	INVOICE DATE
34321364-001	02/19/2024
INVOICE AMOUNT	CURRENCY
\$ 1494.91	USD
CUSTOMER NO.	TERMS
2815977	Due Upon Receipt
ACH PAYMENT	
Beneficiary's Bank:	Wells Fargo
RTN/ABA#:	121000248
Acct#:	4217127869
Beneficiary's Name:	Herc Rentals
CHECK PAYMENT	ONLINE PAYMENT
HERC RENTALS INC. P.O. Box 936257 Atlanta, GA 31193	 <a href="http://www.HercRentals.com">www.HercRentals.com</a>
PAY BY PHONE/QUESTIONS: 877-953-8778	
AMOUNT ENCLOSED: \$	

To ensure accurate and timely posting, detach and send top portion with your payment

PO #		RES/QUOTE #		CUSTOMER #		SALES REP	
230477.009		55653178		2815977		JASON QUINTOS	
ORDERED BY		DELIVERED BY		SIGNED BY		CLOSED BY	
MOAKAO, SAECHAO		PETE O		WET SIGNATURE			
JOB #/SITE							
1 - SOLANO COMMUNITY							
QTY	EQUIPMENT #	HRS/MINIMUM	HOURLY RATE	DAY	WEEK	4 WEEK	AMOUNT
1	WAREHOUSE FORKLIFT 5000LB PNEU DF IC#: 800340152 CAT/Class: 4502120 Make: DOOSAN Model: G25P-7 Ser #: FGA19182001615 HR OUT: 565.60 HR IN: HR CHG: CA PROPERTY TAX RECOVERY FEE 2217999001	8/ 250.00	41.67	250.00	605.00	1250.00	1250.00
							9.38

To ensure accurate payment processing, please include a remittance with your payment.  
If paying by ACH/Wire, send remittance to [HercTimeChecks@hercrentals.com](mailto:HercTimeChecks@hercrentals.com).

**Check fraud is on the rise-making secured payments through Pro Control Next Gen is the best/safest way to makes payments to Herc Rentals. To enroll please talk with your sales representative or call 1-877- 953-8778, opt 1, 1. You can also visit [www.HercRentals.com](http://www.HercRentals.com)**

### THIS INVOICE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE RENTAL AGREEMENT

SHIP TO:	RENTED FROM:	Original	Adjustment	Total
SOLANO COMMUNITY COLLEGE 4000 SUISUN VALLEY RD FAIRFIELD, CA 94534	HERC RENTALS 748 5251 INDUSTRIAL WAY BENICIA, CA 94510 PH: 707-747-4444	RENTAL CHARGES 1250.00 OTHER CHARGES 9.38 DELIVERY/PICK UP 120.00 TAXABLE CHARGES 1379.38 TAX 115.53 TOTAL CHARGES 1494.91		1250.00 9.38 120.00 1379.38 115.53 1494.91
RENTAL DAYS: 28 INVOICE FROM: 1/22/24 INVOICE TO: 2/19/24				
RENTAL START DATE: 1/22/24 9:00				

LATE CHARGES MAY APPLY

CUSTOMER #: 2815977

RES/QUOTE #: 55653178

INVOICE #: 34321364-001

INVOICE DATE: 02/19/2024



DBA Reliable Onsite Services  
BRANCH C81  
5505 HIGHWAY 29  
AMERICAN CANYON CA 94503  
707-867-0474



# 4 WEEK BILLING INVOICE

# 230384908-002

Job site

SOLANO COMMUNITY COLLEGE  
4000 SUISUN VALLEY RD  
FAIRFIELD CA 94534-4017

Office: 925-459-9200 Job: 925-459-9200

MATRIX HG INC  
115 MASON CIR  
STE B  
CONCORD CA 94520-8530

Customer # : 931507  
Invoice Date : 03/27/24  
Date Out : 02/16/24 03:00 PM  
Billed Through : 04/12/24 00:00  
UR Job Loc : 4000 SUISUN VALLEY R  
UR Job # : 68  
Customer Job ID:  
P.O. # : 230477.021  
Ordered By : MOAKAO SAECHAO  
Reserved By : HUDSON BISHOP  
Salesperson : HUDSON BISHOP

**Invoice Amount: \$491.78**

Terms: Due Upon Receipt  
Payment options: Contact our credit office 888-481-2660  
**REMIT TO:** UNITED RENTALS (NORTH AMERICA),INC.  
P.O. BOX 051122  
LOS ANGELES CA 90074-1122

RENTAL ITEMS:								
Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount	
30	375/0525	FENCE MODULAR 12' L X 6' H TEMPORARY PAN	7.00	7.00	7.00	7.00	210.00	
62	551/4047	FENCE PANEL BASE WEIGHT	4.00	4.00	4.00	4.00	248.00	
31	551/4405	FENCE PANEL METAL BASES						N/C
Rental Subtotal:							458.00	
Agreement Subtotal:							458.00	
Tax:							33.78	
Total:							491.78	

## COMMENTS/NOTES:

CONTACT: TRAVIS RANGEL  
CELL#: 925-375-6575  
\*\*\*6 MONTH MINIMUM RENTAL: EARLY  
TERMINATION RESULTS IN A FORCE BILLING  
FOR REMAINING DURATION.\*\*\*  
DROP OFF ONLY

Billing period: 28 Days From 3/15/24 03:00 PM Thru 4/12/24 03:00 PM

TO SCHEDULE EQUIPMENT FOR PICKUP, CALL 800-UR-RENTS (800-877-3687)  
WE ARE AVAILABLE 24/7 TO SUPPLY YOU WITH A CONFIRMATION #  
IN ORDER TO CLOSE THIS CONTRACT

Effective February 1, 2024 and where permitted by law, United Rentals may impose a surcharge of 2.0% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.





Solano Community College District  
4000 Suisun Valley Rd  
Fairfield, Ca. 94533

Project Name: Central Plant Replacement Project  
Project Address: 4000 Suisun Valley Rd  
RE: MHG CO 230477-11R1 – Lead & ACM Abatement (Chiller & Boiler Rooms)

Dear Noe,

Matrix is pleased to submit herewith our scope adjustment proposal for the above referenced project. Change in work (A) arose from the discovery of lead paint and ACM materials on sheetrock in the Central Plant.

**Scope of Work Description:**

- (A) Provide Abatement of Lead Paint
  - Removal of lead paint on existing piping for demolition in the Chiller & Boiler rooms
  - Removal of lead paint on existing steel members for demolition in the Chiller & Boiler rooms
  - “Scrape” of lead paint on flooring and concrete pads in the Chiller & Boiler rooms after MEP work is complete.
  - Off haul and disposal of lead materials
  - Set Up and Use of Filtered Vacuum for all drilled anchors
- (B) Provide Abatement of Asbestos Containing Materials
  - Provide means of containment for each room.
  - Set up and maintain negative air filtration
  - Regulate work area
  - Wrap and/or bag items that cannot be cleaned or wiped down
  - Removal of ACM materials and ceiling sheetrock complete in the Chiller & Boiler rooms
  - Provide all necessary EPA & OSHA Notifications
  - Wipe down and clean all exposed items
  - Includes 2 mobilizations

**Clarifications:**

- This does not include testing or monitoring during the course of work.
- This does not include any abatement on exterior surfaces. Additional findings for required abatement on the exterior walls and/or roof will be quoted separately.
- Work performed during regular hours 6:00AM to 2:30PM Monday through Friday.
- Proposal is subject to revision if not accepted within: Thirty (30) Days.
- If additional work is required, we will furnish a separate proposal for same.
- Matrix provides a standard installed warranty for (1) year from the owner’s beneficial use of the equipment. Matrix does not include warranty for any existing equipment or systems or for work not specifically started above.

**Exclusions:**

- Over time labor
- Modifications, upgrades, or repairs not stated above
- Correction and troubleshooting of pre-existing problems or code violations
- Engineering, permit, plan check, special inspections, and certification fees
- Temporary or supplemental heating, and air conditioning
- Replacement of existing isolation valves that do not hold
- Fill, bleed air, clean, flush, and water treatment of system
- Pre-readings and verification of existing utilities
- Utility relocation (plumbing, electrical, fire sprinkler, etc.)
- Ceiling modification or replacement, etc.
- Cutting, patching, concrete scanning, coring, etc.
- Insulation, painting, labeling, valve tags, etc.
- Fire life safety, duct smoke detectors, FSD, fire calk, etc.
- Framing, roofing / weather proofing, electrical, controls, scaffolding, etc.

**We propose to furnish materials and labor – for Complete Abatement in accordance with the above specifications, for the sum of: \$128,008.35.**

**This change will require an extension of 69 Days to the Substantial Completion Date of 7/31/24.**

Thank you for the opportunity to present this proposal for your consideration, we are looking to working with you on this project.

Sincerely,

Matrix HG Inc.

*Mitchell Lake*

Project Manager



# Solano Community College Central Plant Modernization

Matrix Job #230477

## CHANGE ORDER PROPOSAL SUMMARY SHEET

Owner Ref. No. \_\_\_\_\_  
GC Ref. No. \_\_\_\_\_

Matrix COR No. 230477-11R1  
Date: 5/16/2024  
Prepared By: Mitch Lake

**Change Order Description:** *Per the report provided from PMP Environmental, the majority of the items in the central plant are painted with paint containing lead which has to be abated in order to perform demo work as well as new installation work. These items include painted pipe, steel supports, walls, and floor surfaces. This report also identified ACM in the ceiling texture as well as joint compound. A Bid RFI instructed us to assume ACM in the joint compound which only occurred at the drywall edges which would have required spot containment/abatement at a limited number of locations. Finding the ACM on the texture over the drywall now requires abatement at all blocking locations. Per subsequent discussion and coordination with the consultant, paint spot removal for drilled anchors will not be required and has been removed. This pricing now includes only lead paint removal required for demo of painted steel per original scope. The following is our revised cost for*

**Schedule Impact:** 0 days (this added scope requires an extension of the contract duration)

<b>HVAC Wet - Labor</b>				<b>HVAC Dry - Labor</b>			
Total	Hrs:	24.50		Total	Hrs:	8.00	
Foreman (X1.5) Rate:	\$ 246.58	0.00	\$ -	Foreman (X1.5) Rate:	\$ 226.56	0.00	\$ -
Journeyman (X1.5) Rate:	\$ 223.97	0.00	\$ -	Journeyman (X1.5) Rate:	\$ 206.79	0.00	\$ -
Foreman Rate:	\$ 193.09	13.48	\$ 2,601.89	Foreman Rate:	\$ 177.09	4.40	\$ 779.20
Journeyman Rate:	\$ 177.83	11.03	\$ 1,960.58	Journeyman Rate:	\$ 163.76	3.60	\$ 589.54
<b>Subtotal: \$ 4,562.46</b>				<b>Subtotal: \$ 1,368.73</b>			

<b>HVAC Wet - Material</b>				<b>HVAC Dry - Material</b>			
Materials:	\$	-		Materials:	\$	-	
Cartage:	\$	-		Cartage:	\$	-	
8.75% Tax:	\$	-		8.75% Tax:	\$	-	
<b>Subtotal: \$ -</b>				<b>Subtotal: \$ -</b>			

<b>Subcontractors</b>				<b>Rentals</b>			
Framing/Finishes	\$	(4,077.10)		Rental Equipment:	\$	-	
Concrete:	\$	-		Rental Tools:	\$	-	
Balancing:	\$	-		Med Tools:	\$	-	
Roofing:	\$	-		Other:	\$	-	
Electrical:	\$	-					
Abatement:	\$	116,948.00		8.75% Tax:	\$	-	
Hoisting/Rigging:	\$	-		Safety:	\$	-	
Controls:	\$	-					
Insulator:	\$	-					
Engineering:	\$	-					
<b>Subtotal: \$ 112,870.90</b>				<b>Subtotal: \$ -</b>			

<b>Other Costs</b>			
Shop Burden:	\$	-	
Detailing:	\$	-	
Disposal:	\$	-	
Permits:	\$	-	
Consumables:	\$	-	
Safety:	\$	-	
<b>Subtotal: \$ -</b>			

**Total Labor: \$ 5,931.20**  
**CA WO #16 \$ 247.13**  
**Total Material & Equipment: \$ -**  
**Other Costs: \$ -**  
**Subtotal: \$ 6,178.33**

**Total Subcontractors: \$ 112,870.90**  
**Subcontractor MU: 5% \$ 5,643.55**  
**Direct Work OH&P: 15% \$ 926.75**  
**Insurance & Bond: 2% \$ 2,388.82**  
**Subtotal: \$ 128,008.35**

**\*TOTAL COST FOR THIS CHANGE \$ 128,008.35**

I hereby agree to the following costs/extensions and want Matrix to proceed forward with the above change order: X

Quoted cost does not include labor escalation; labor has been priced at the current cost at the time this change was quoted.

(Customer Signature)

\*This change estimate is based solely on direct cost elements for the work as specifically noted in the description of the change and as listed and priced in the attached estimate. This change proposal pricing does not include any cost for changes in the sequence of the work, delays, disruptions, rescheduling or acceleration to the work and extended overhead beyond those specific items as listed and priced in this proposal. Further, this change does not include cost impacts due to the cumulative affect of multiple changes on this change, other changes and/or the affect to our base contract work. We expressly reserve the right to compensation and notice of potential claim is made, for any and all of the aforementioned costs and related items noted as not included in this change proposal.

Added Scope Description

Breakdown									
	Materials					Labor			
						Shop		Field	
	QTY	Size	Description	Unit	\$	Total		Unit	Total
102			Coordination of Abatement in Chiller Room						4.00
			Coordination of Abatement in Boiler Room						4.00
			Removal/Replacement of Existing Remaining in Chiller Rm						4.00
			Removal/Replacement of Existing Remaining in Boiler Rm						4.00
			Set Up & Use of Vacuum for Drilled Inserts @ Extra 5 min ea.						8.50
			<b>Credit</b>						
			Abatement assumed at all locations where support or brace blocking is located near hot edges.						
			The joist space is 16" oc, an 18"X18" section of sheetrock removal is assumed for blocking installation.						
			See attached marked up drawings						
			See attached quote from Stomper for Spot Removal						
			See attached quote from ALB for Spot Patching						
<b>Note:</b> We assume all work is done during normal hours.									
<b>Exclusions:</b> We exclude all other work not specifically noted above.									
** = Non Discountable Items									
<b>Subtotal:</b>					\$	-		0.00	24.50
Non-Discountables:									
Discount 15%:						N/A			
<b>TOTAL:</b>					\$	-			<b>24.50</b>

### Added Scope Description

Breakdown									
	Materials					Labor			
						Shop Labor		Field Labor	
	QTY	Size	Description	Unit \$	Total \$	Unit	Total	Unit	Total
			Removal/Replacement of Existing Remaining in Chiller Rm				4.00		
			Removal/Replacement of Existing Remaining in Boiler Rm				4.00		
<p><b>Note:</b></p> <p><b>Exclusions:</b> We exclude all other work not specifically noted above.</p>									
<b>TOTAL:</b>				\$	-		0.00		8.00



# PMP Environmental Consulting

5325 Elkhorn Blvd. #360, Sacramento, CA 95842  
(916) 628-5124 • PMPEnvConsulting@gmail.com

February 14, 2024

Mr. Noe Ramos  
Kitchell CEM  
c/o Solano Community College District  
4000 Suisun Valley Road  
Fairfield, CA 9434

Dear Mr. Ramos,

This letter contains the results of a hazardous material survey performed at the Central Plant, located at 4000 Suisun Valley Road, Fairfield, California on the Solano Community College Campus. This survey was performed for an upcoming boiler/chiller renovation project. A list of suspect materials identified and sampled are included in this report. The survey was conducted on February 8, 2024, by Shannon Johanson. Mrs. Johanson is a Cal/OSHA Certified Asbestos Consultant and EPA-accredited Building Inspector and California Department of Public Health Certified Inspector Assessor and Project Monitor. See attached personnel certifications.

## **Procedures – Asbestos**

A visual inspection of accessible building materials was performed using the methods presented in the federal AHERA regulations (40 CFR, Part 763) as a guideline. While AHERA is only directly applicable to public schools, the principles presented under the Final Rule are generally accepted as the industry standard for ACM inspections. Suspect ACMs were also physically assessed for friability, condition, and possible disturbance factors.

Bulk samples of identified homogeneous areas were collected in building areas that may be impacted by the planned renovation activities. Samples were collected of each separate homogeneous area. A homogeneous area is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color, and texture.

The suspect ACMs were sampled using a knife or other similar coring device suitable to the type of material sampled to cut through its entire thickness and to ensure that a cross-section of the material was obtained. The material was then placed in an appropriately labeled container that was sealed and submitted to Eurofins Built Laboratories, Inc. in Tustin, California for analysis. Eurofins Built is accredited by the Environmental Laboratory Accreditation Program (ELAP) and the National Institute of Science and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP). Eurofins Built participates in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program and has substantial experience in the analysis of asbestos. A unique sample number was assigned to each sample.

## **Results – Asbestos**

A total of 29 samples were collected from 11 identified suspect materials. Of the 11 materials sampled, two were found to contain asbestos.



Mr. Noe Ramos  
Kitchell CEM  
c/o Solano Community College District  
April 10, 2023  
Page Two

#### Asbestos Results

Sample No.	Sample Description	Results	Category
01A-C	Drywall-Smooth Ceiling	3% Chrysotile Texture 3% Chrysotile Joint Compound None Detected Drywall	RACM
03A-C	Canvas Wrap TSI (Pipe Wrap) Hot Water Lines	3% Chrysotile	RACM

The following materials may be impacted without regard to asbestos work practices:

Drywall-smooth on wall only	White joint compound on TSI ends
Gray/red paint on floor	White seam tape
Silver foil seam tape	Joint compound on TSI (painted blue)
White sealant on TSI	Black foam insulation
Gray paint on concrete floor	

All the samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) techniques in accordance with the methodology approved by the U.S. Environmental Protection Agency (EPA). The percentage of asbestos present in the samples was determined based on a visual area estimation. The EPA defines asbestos-containing materials (ACM) as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM). 40 CFR Part 763 identifies the lower limit of reliable quantification for asbestos using the PLM method as approximately one percent (1%) by volume. Regulations in California (CAL/OSHA Title 8 CCR 1529) define asbestos-containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent ( $> 0.1\%$ ). Therefore, for the purpose of this survey, any amount of asbestos detected will be considered positive. In addition to the percentages, the types of asbestos minerals are also reported. The PLM method is the standard method used to analyze asbestos bulk samples.

When "None Detected" (ND) appears in the laboratory results, it should be interpreted as meaning asbestos was not observed in the sample material.

#### Recommendations and Requirements – Asbestos

Disturbance of any asbestos-containing material (ACM) or asbestos-containing construction material (ACCM) that could generate airborne asbestos fibers is regulated by the California Division of Occupational Safety and Health (CAL OSHA).

The Contractor is required to have DOSH Registration for abatement activities involving more than 100 square feet.



Mr. Noe Ramos  
Kitchell CEM  
c/o Solano Community College District  
February 14, 2024  
Page Three

For compliance with Title 8, California Administrative Code, Construction Safety Order 1529, Asbestos Regulations, the asbestos abatement contractor must send written notice at least one day (24 hours) prior to start of any work which will impact any asbestos. The contractor also must perform all work in accordance with Cal OSHA requirements (8 CCR 1529)

The US EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) regulation, as enforced by the Bay Area Air Quality Management District (BAAQMD), requires the abatement of materials containing more than 1% asbestos prior to any demolition or renovation work that may cause the materials to become friable. A written notification is required to be filed with the US EPA and CARB at least 10 working days prior to renovation activities impacting more than 100 square feet of regulated asbestos.

### **Hazardous Waste**

Building materials reported to contain less than one percent (<1%) of asbestos are not considered hazardous by the U.S. EPA, and hence, may not require removal and disposal prior to demolition or renovation. Regulations may vary, however, between regional air quality management districts and/or other state agencies responsible for implementing EPA's rules. Therefore, local agencies should be contacted for specific ACM definitions and handling requirements. CAL/OSHA may also require special packaging and labeling on containers with asbestos-containing construction materials.

For the purposes of this project all drywall ceiling waste and canvas wrapped TSI will be characterized as hazardous asbestos waste.

Composite sampling, which may potentially reduce the total asbestos content of the material, is only permitted when sampling joint compound, tape, and gypsum wallboard according to EPA's Asbestos NESHAP Clarification Regarding Analysis of Multi-Layered Systems (40 CFR Part 61 FRL-4821-7).

### **Lead**

A total of 12 paint chip samples were collected of paints found throughout the building that may be impacted by the upcoming renovation. The paint chip samples were collected by scraping paint from the surface down to the substrate while taking care not to include substrate in the sample. All paint layers were included in each sample collected. A razor, knife or other similar tool was used, and the tools were cleaned after sample collection.

One paint was found to be lead-based by Flame AA analysis:

Gray paint on metal doors/door frame

The following paints were found to be lead-containing by Flame AA analysis:

Blue paint on metal post  
Blue paint on equipment  
Gray/red paint on concrete floor

White paint on steel framing  
Gray paint on concrete floor

Yellow paint on pipes  
Red paint on concrete floor





Mr. Noe Ramos  
Kitchell CEM  
c/o Solano Community College District  
February 14, 2024  
Page Four

The following paints may be disturbed without special regard to lead:

White paint on concrete walls      Red paint on concrete pad      White paint on drywall walls

The lead survey was not a comprehensive lead-based paint or building material survey as detailed in the *"Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing"* by The National Center for Lead-Safe Housing for Housing and Urban Development (HUD).

Cal/OSHA, in Title 8 CCR Section 1532.1, Lead in Construction Standard which implements California labor code 8716-6717, regulates all construction work where an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

The U.S. EPA, U.S. Department of Housing and Urban Development (HUD), and CDPH define lead-based paints (LBPs) as paints containing greater than 0.5% lead by weight, 5,000 parts per million (ppm), or 5,000 milligrams per kilogram (mg/kg), or 1.0 milligram per square centimeter (mg/cm<sup>2</sup>) total lead. The OSHA and Cal/OSHA regulations (Lead Construction Standard) do not provide a definition for LBP, but refer to the U.S.

EPA, HUD, and CDPH criteria mentioned above. Cal/OSHA is primarily concerned with worker protection, and therefore regulates any amount of lead contained within painted/coated building components.

For purposes of this report, materials containing lead shall be defined as materials that contain lead at levels greater than the limit of detection for lead by weight using Flame AA laboratory analysis.

Construction work impacting materials with detectable levels of lead is subject to Cal/OSHA requirements.

Construction activities, sometimes referred to as trigger tasks, impacting materials containing any amount of lead require an initial exposure assessment. Trigger tasks are defined in Cal/OSHA 1532.1, section (d) (2) and include but are not limited to such tasks as: manual demolition, manual scraping, manual sanding, lead burning, abrasive blasting, welding, cutting, and torch burning.

If any new materials are discovered during the renovation work. All work should be stopped until the material has been sampled and proven to be none detected.

### **Lead Recommendations**

The Cal/OSHA Lead in Construction Standard (8 CCR 1532.1) should be followed for any activities that will disturb the painted coatings in the project area that are listed as lead-based or lead-containing. This is recommended as the standard applies to lead-related construction activities containing any detectable amount of lead. Elements of the standard that will be applicable include but may not be limited to training, exposure assessment monitoring, preparation of a site-specific lead compliance plan, use of personal protective equipment and hygiene facilities.



Mr. Noe Ramos  
Kitchell CEM  
c/o Solano Community College District  
February 14, 2024  
Page Five

This inspection is limited to the conditions and practices observed and information made available. The methods, conclusions and recommendations provided are based on PMP's judgment, expertise and the standard of practice for professional service. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Thank you for the opportunity to perform this inspection. If you have any questions, please contact me at (916) 628-5124 or via e-mail at [pmpenvconsulting@gmail.com](mailto:pmpenvconsulting@gmail.com).

Sincerely,

A handwritten signature in blue ink that reads 'Shannon Johanson'. The signature is written in a cursive, flowing style.

Shannon Johanson  
President  
CAC 14-5310  
CDPH IA, PM 24367

PMP

Photographs



Gray Pipe Wrap with Fiberglass – 3% Chrysotile



Yellow Pipes are Lead-Containing



Blue/White Paint is Lead-Containing

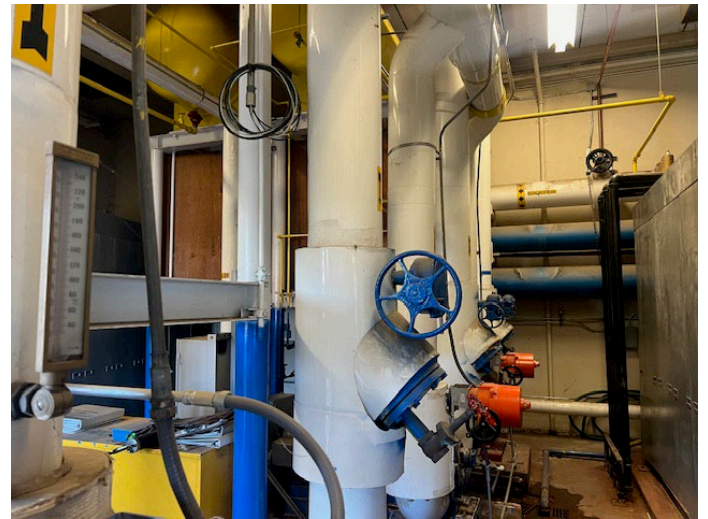


Gray Paint Lead-Containing





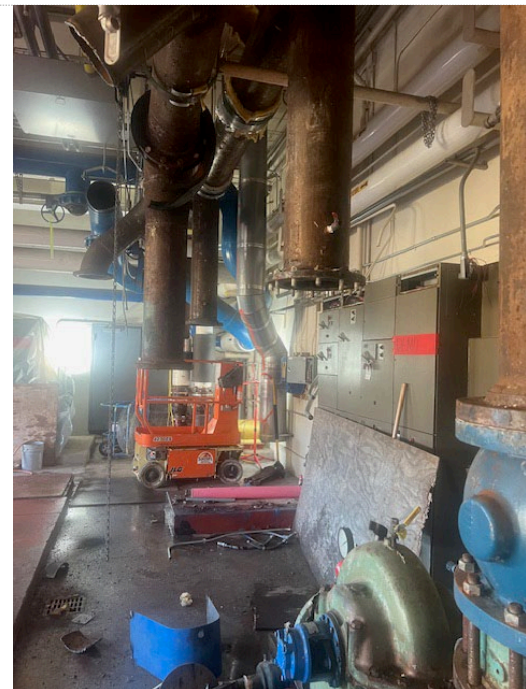
White Paint on Steel Lead-Containing



Joint Compound None Detected



Boiler Side



Chiller Side

PMP

Certifications  
(Consultant and Lab)

STATE OF CALIFORNIA

Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> [actu@dir.ca.gov](mailto:actu@dir.ca.gov)



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PMP Environmental Consulting, Inc.

Shannon M Johanson

5325 Elkhorn Blvd. #360

Sacramento CA 95842

October 09, 2023

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailling information within 15 days of the change.

Sincerely,

Kevin Graulich  
Principal Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached







STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC HEALTH



# LEAD-RELATED CONSTRUCTION CERTIFICATE

**INDIVIDUAL:**



**Shannon Johanson**

**CERTIFICATE TYPE:**

Lead Inspector/Assessor

Lead Project Monitor

**NUMBER:**

LRC-00003375

LRC-00003374

**EXPIRATION DATE:**

11/16/2024

11/16/2024

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





## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### **Eurofins EMLab P&K**

**2841 Dow Ave Suite 300 Tustin, CA 92780**

**Laboratory ID: LAP-178697**

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

#### **LABORATORY ACCREDITATION PROGRAMS**

<input checked="" type="checkbox"/>	<b>INDUSTRIAL HYGIENE</b>	Accreditation Expires: September 01, 2023
<input checked="" type="checkbox"/>	<b>ENVIRONMENTAL LEAD</b>	Accreditation Expires: September 01, 2023
<input checked="" type="checkbox"/>	<b>ENVIRONMENTAL MICROBIOLOGY</b>	Accreditation Expires: September 01, 2023
<input type="checkbox"/>	<b>FOOD</b>	Accreditation Expires:
<input type="checkbox"/>	<b>UNIQUE SCOPES</b>	Accreditation Expires:
<input type="checkbox"/>	<b>BERYLLIUM FIELD/MOBILE</b>	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

Cheryl O Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC



# AIHA Laboratory Accreditation Programs, LLC

## SCOPE OF ACCREDITATION

### **Eurofins EMLab P&K**

2841 Dow Ave Suite 300 Tustin, CA 92780

**Laboratory ID: LAP-178697**

Issue Date: 08/31/2021

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

### **Environmental Lead Laboratory Accreditation Program (ELLAP)**

**Initial Accreditation Date: 03/01/2017**

<b>Component, parameter or characteristic tested</b>	<b>Technology sub-type/Detector</b>	<b>Method</b>	<b>Method Description (for internal methods only)</b>
Paint	AA	EPA SW-846 7000B Modified	N/A
		NIOSH 7082	N/A
Settled Dust by Wipe	AA	EPA SW-846 7000B Modified	N/A
		NIOSH 7082	N/A

A complete listing of currently accredited ELLAP laboratories is available on the AIHA LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:2017

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NVLAP LAB CODE: 200757-0

**Eurofins EMLab P&K**

Tustin, CA

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

**Asbestos Fiber Analysis**

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

---

2022-06-09 through 2022-12-31

*Effective Dates*



A handwritten signature in blue ink, reading "Dana S. Laman".

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*For the National Voluntary Laboratory Accreditation Program*

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

**Eurofins EMLab P&K**  
2841 Dow Avenue, Suite 300  
Tustin, CA 92780  
Mr. Dan Shelby  
Phone: 623-298-1015  
Email: [dan.shelby@et.eurofinsus.com](mailto:dan.shelby@et.eurofinsus.com)  
<http://www.emlabpk.com>

**ASBESTOS FIBER ANALYSIS**

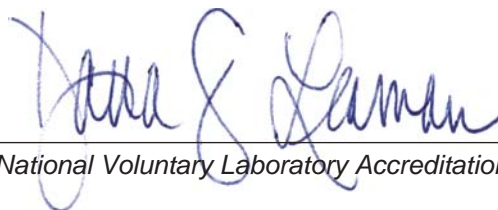
**NVLAP LAB CODE 200757-0**

**Bulk Asbestos Analysis**

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

**Airborne Asbestos Analysis**

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



*For the National Voluntary Laboratory Accreditation Program*



## Laboratory Reports and Chain of Custody



# PMP Environmental Consulting

5325 Elkhorn Blvd., Sacramento, CA 95642

(916) 628-5124 • PMPEnvConsulting@gmail.com

## Bulk Request Analysis Form

**Client:** Solano Community College  
**Job Site:** Central Plant  
**Project ID:** 24-011  
**Project:** Shannon Johanson  
**Date Collected:** 02/08/24  
**Collected by:** Shannon Johanson  
**Date Submitted:** 02/08/24  
**Laboratory:** Eurofins EML P&K

### Analysis Requested:

\_\_\_ PLM with Dispersion Staining \_\_\_x\_\_\_ Flame AA

\_\_\_ TEM (Bulk) \_\_\_ Other:

**Turnaround Time:** \_\_\_x\_\_\_ Same Day \_\_\_ 24 Hour

\_\_\_ Other: \_\_\_\_\_

### Special Instructions:

\_\_\_ Please fax results to

\_\_\_x\_\_\_ Please email results to: pmpenvconsulting@gmail.com

\_\_\_ Other: \_\_\_\_\_

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	PAINT CONDITION
1	01Pb	Blue Paint on Metal Post Central Plant, Boiler Area	Intact
2	02Pb	White Paint on Concrete Walls Central Plant, Chiller Area	Intact
3	03Pb	White Paint on Steel Framing Central Plant, Chiller Area	Intact
4	04Pb	Yellow Paint on Metal Pipes Central Plant, Boiler Area	Intact
5	05Pb	Red Paint on Concrete Pad Central Plant, Chiller Area	Poor
6	06Pb	Blue Paint on Equipment and Concrete Pad Central Plant, Chiller Area	Fair
7	07Pb	Gray Paint on Concrete Floor Central Plant, Chiller Area	Fair-Poor
8	08Pb	Gray/Red Paint on Concrete Floor Central Plant, Chiller Area	Poor
9	09Pb	White Paint on Concrete Walls Central Plant, Boiler Area	Intact
10	10Pb	Gray Paint on Metal Door Central Plant, Boiler Room Entrance	Intact
11	11Pb	White Paint on Drywall Walls Central Plant, Boiler Room	Intact
12	12Pb	Red Paint on Concrete Floor Central Plant, Chiller at Entrance to Boiler	Fair

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted via: \_\_\_ Dropoff \_\_\_ FedEx \_\_\_ Courier \_\_\_ Other:

Received by: \_\_\_\_\_

Date: \_\_\_\_\_



Report for:

**Shannon Johanson**  
**PMP Environmental Consulting- Contracts Account**  
5325 Elkhorn Blvd #360  
Sacramento, CA 95842

---

Regarding: Eurofins EPK Built Environment Testing, LLC  
Project: 24-011 Contracts; Central Plant  
EML ID: 3535071

Approved by:



Approved Signatory  
Andrew Arestegui

Dates of Analysis:

Lead - Flame AA: 02-09-2024

Service SOPs: Lead - Flame AA (EM-BC-S-8443)  
AIHA-LAP, LLC accredited service, Lab ID #178697

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

**Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011 Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY**

Location:	01Pb: Blue Paint on Metal Post, Central Plant, Boiler Area	02Pb: White Paint on Concrete Walls, Central Plant, Chiller Area	03Pb: White Paint on Steel Framing, Central Plant, Chiller Area	04Pb: Yellow Paint on Metal Pipes, Central Plant, Boiler Area
Comments (see below)	None	None	None	None
Lab ID-Version‡:	17271117-1	17271118-1	17271119-1	17271120-1
Analysis Date:	02/09/2024	02/09/2024	02/09/2024	02/09/2024
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	39 ppm	39 ppm	39 ppm	39 ppm
Sample size	0.2571 grams	0.2569 grams	0.2584 grams	0.2551 grams
§ Total Lead Result	510 ppm	< 39 ppm	160 ppm	82 ppm

**Comments:**

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



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Account

C/O: Shannon Johanson

Re: 24-011 Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY**

Location:	05Pb: Red Paint on Concrete Pad, Central Plant, Chiller Area	06Pb: Blue Paint on Equipment and Concrete Pad, Central Plant, Chiller Area	07Pb: Gray Paint on Concrete Floor, Central Plant, Chiller Area	08Pb: Gray/Red Paint on Concrete Floor, Central Plant, Chiller Area
Comments (see below)	None	None	None	None
Lab ID-Version‡:	17271121-1	17271122-1	17271123-1	17271124-1
Analysis Date:	02/09/2024	02/09/2024	02/09/2024	02/09/2024
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	39 ppm	39 ppm	40 ppm
Sample size	0.2512 grams	0.2540 grams	0.2542 grams	0.2487 grams
§ Total Lead Result	< 40 ppm	73 ppm	110 ppm	56 ppm

**Comments:**

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

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Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011 Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY**

Location:	09Pb: White Paint on Concrete Walls, Central Plant, Boiler Area	10Pb: Gray Paint on Metal Door, Central Plant, Boiler Room Entrance	11Pb: White Paint on Drywall Walls, Central Plant, Boiler Room	12Pb: Red Paint on Concrete Floor, Central Plant, Chiller at Entrance to Boiler
Comments (see below)	None	None	None	None
Lab ID-Version‡:	17271125-1	17271126-1	17271127-1	17271128-1
Analysis Date:	02/09/2024	02/09/2024	02/09/2024	02/09/2024
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	39 ppm	47 ppm	39 ppm	39 ppm
Sample size	0.2535 grams	0.2117 grams	0.2569 grams	0.2571 grams
§ Total Lead Result	< 39 ppm	5800 ppm	< 39 ppm	51 ppm

**Comments:**

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

\*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

# PMP Environmental Consulting

5325 Elkhorn Blvd., Sacramento, CA 95642

(916) 628-5124 • PMPEnvConsulting@gmail.com

## Bulk Request Analysis Form

**Client:** Solano Community College  
**Job Site:** Central Plant  
**Project ID:** 24-011  
**Project:** Shannon Johanson  
**Date Collected:** 02/08/24  
**Collected by:** Shannon Johanson  
**Date Submitted:** 02/08/24  
**Laboratory:** Eurofins EML P&K

### Analysis Requested:

☒ PLM with Dispersion Staining ☐ Flame AA

☐ TEM (Bulk) ☐ Other:

**Turnaround Time:** ☒ Same Day ☐ 24 Hour

☐ Other: \_\_\_\_\_

### Special Instructions:

☐ Please fax results to

☒ Please email results to: pmpenvconsulting@gmail.com

☐ Other: \_\_\_\_\_

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
1	01A	Drywall-Smooth w/Joint Compound Central Plant, Chiller Area, South Side Ceiling	1000 SF
2	01B	Drywall-Smooth w/Joint Compound Central Plant, Chiller Area, North Side ceiling	---
3	01C	Drywall-Smooth w/Joint Compound Central Plant, Chiller Area, West Side Ceiling	---
4	02A	Drywall-Smooth Central Plant, Boiler, West Side of Wall	
5	02B	Drywall-Smooth Central Plant, Boiler, Near Center of Wall	
6	02C	Drywall –Smooth Central Plant, Boiler Area, East Side of Wall	
7	02D	Drywall-Smooth Central Plant, Chiller Area, At Entry to Boiler	
8	03A	Canvas Wrap TSI w/Fiberglass Central Plant, Chiller Area, Hot Water Line	80 LF
9	03B	Canvas Wrap TSI w/Fiberglass Central Plant, Chiller Area, Hot Water Line	---
10	03C	Canvas Wrap TSI w/Fiberglass Central Plant, Chiller Area, Hot Water Line	

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted via: ☐ Dropoff ☐ FedEx ☐ Courier ☐ Other:

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

# PMP Environmental Consulting

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## Bulk Request Analysis Form

**Client:** Solano Community College  
**Job Site:** Central Plant  
**Project ID:** 24-011  
**Project:** Shannon Johanson  
**Date Collected:** 02/08/24  
**Collected by:** Shannon Johanson  
**Date Submitted:** 02/08/24  
**Laboratory:** Eurofins EML P&K

### Analysis Requested:

☒ PLM with Dispersion Staining ☐ Flame AA

☐ TEM (Bulk) ☐ Other:

**Turnaround Time:** ☒ Same Day ☐ 24 Hour

☐ Other: \_\_\_\_\_

### Special Instructions:

☐ Please fax results to

☒ Please email results to: pmpenvconsulting@gmail.com

☐ Other: \_\_\_\_\_

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
11	04A	White Joint Compound Central Plant, Chiller Area, End of Cold-Water Line	50 SF
12	04B	White Joint Compound on TSI Central Plant, Chiller Area, Cold-Water Line Joint	---
13	04C	White Joint Compound Central Plant, Chiller Area, Cold-Water Line Joint	---
14	05A	Gray/Red Paint on Floor Central Plant, Chiller Area, Near Center	
15	06A	White Seam Tape Central Plant, Boiler Area, Hot Water Line	20 LF
16	06B	White Seam Tape Central Plant, Boiler Area, Hot Water Line	---
17	06C	White Seam Tape Central Plant, Boiler Area, Hot Water Line	---
18	07A	Silver Foil Seam Tape Central Plant, Chiller Area, Chilled Water Joint	20 LF
19	07B	Silver Foil Seam Tape Central Plant, Chiller Area, Chilled Water Joint	---
20	08A	Joint Compound on TSI (Painted Blue) Central Plant, Boiler Area, Hot Water Lines	50 SF

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted via: ☐ Dropoff ☐ FedEx ☐ Courier ☐ Other:

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

# PMP Environmental Consulting

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## Bulk Request Analysis Form

**Client:** Solano Community College  
**Job Site:** Central Plant  
**Project ID:** 24-011  
**Project:** Shannon Johanson  
**Date Collected:** 02/08/24  
**Collected by:** Shannon Johanson  
**Date Submitted:** 02/08/24  
**Laboratory:** Eurofins EML P&K

### Analysis Requested:

☒ PLM with Dispersion Staining ☐ Flame AA

☐ TEM (Bulk) ☐ Other:

**Turnaround Time:** ☒ Same Day ☐ 24 Hour

☐ Other: \_\_\_\_\_

### Special Instructions:

☐ Please fax results to

☒ Please email results to: pmpenvconsulting@gmail.com

☐ Other: \_\_\_\_\_

	SAMPLE #	MATERIAL DESCRIPTION/LOCATION	SQUARE FOOTAGE
21	08B	Joint Compound on TSI (Painted Blue) Central Plant, Boiler Area, Hot Water Lines	---
22	08C	Joint Compound on TSI (Painted Blue) Central Plant, Boiler Area, Hot Water Lines	---
23	09A	White Sealant on TSI Central Plant, Chiller Area, East End CW	Unknown
24	09B	White Sealant on TSI Central Plant, Boiler Area, Hot Water Joint	---
25	09C	White Sealant on TSI Central Plant, Boiler Area, Hot Water Joint	---
26	10A	Black Foam Insulation Central Plant, Chiller Area, Cold Water Line, North	Unknown
27	10B	Black Foam Insulation Central Plant, Chiller Area, Cold Water Line, East	---
28	10C	Black Foam Insulation Central Plant, Chiller Area, Cold Water Line, South	---
29	11A	Gray Paint on Concrete Floor Central Plant, Boiler Area, Near Double Doors	

Submitted by: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted via: ☐ Dropoff ☐ FedEx ☐ Courier ☐ Other:

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Report for:

**Shannon Johanson**  
**PMP Environmental Consulting- Contracts Account**  
5325 Elkhorn Blvd #360  
Sacramento, CA 95842

---

Regarding: Eurofins EPK Built Environment Testing, LLC  
Project: 24-011-Contracts; Central Plant  
EML ID: 3535119

Approved by:



Approved Signatory  
Danny Li

Dates of Analysis:  
Asbestos PLM: 02-09-2024

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 200757-0

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

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2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Total Samples Submitted:** 29**Total Samples Analyzed:** 29**Total Samples with Layer Asbestos Content > 1%:** 5**Location: 01A, Drywall, Smooth with Joint Compound - Central Plant, Chiller Area,  
South Side Ceiling**

Lab ID-Version‡: 17271451-1

Sample Layers	Asbestos Content
Off-White Joint Compound	3% Chrysotile
White Drywall with Brown Paper	ND
<b>Composite Asbestos Fibrous Content:</b>	< 1% Asbestos
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

**Location: 01B, Drywall, Smooth with Joint Compound - Central Plant, Chiller Area,  
North Side Ceiling**

Lab ID-Version‡: 17271452-1

Sample Layers	Asbestos Content
Off-White Joint Compound	3% Chrysotile
Cream Tape	ND
Off-White Joint Compound	3% Chrysotile
White Drywall with Brown Paper	ND
<b>Composite Asbestos Fibrous Content:</b>	< 1% Asbestos
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

**Location: 01C, Drywall, Smooth with Joint Compound - Central Plant, Chiller Area,  
West Side Ceiling**

Lab ID-Version‡: 17271453-1

Sample Layers	Asbestos Content
White Joint Compound (Trace)	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

The test report shall not be reproduced except in full, without written approval of the laboratory. The 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. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



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Account

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Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 02A, Drywall, Smooth - Central Plant, Boiler, West Side of Wall**

Lab ID-Version‡: 17271454-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 02B, Drywall, Smooth - Central Plant, Boiler, Near Center of Wall**

Lab ID-Version‡: 17271455-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

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Account

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Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 02C, Drywall, Smooth - Central Plant, Boiler Area, East Side of Wall**

Lab ID-Version‡: 17271456-1

Sample Layers	Asbestos Content
White Joint Compound	ND
<b>Sample Composite Homogeneity:</b>	Good

**Comments:** Drywall Not Detected**Location: 02D, Drywall, Smooth - Central Plant, Chiller Area, at Entry to Boiler**

Lab ID-Version‡: 17271457-1

Sample Layers	Asbestos Content
White Joint Compound	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 03A, Canvas Wrap TSI with Fiberglass - Central Plant, Chiller Area, Hot Water Line**

Lab ID-Version‡: 17271458-1

Sample Layers	Asbestos Content
Gray Wrap with Fiberglass	3% Chrysotile
<b>Composite Non-Asbestos Content:</b>	5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Comments:** Sample layers inseparable without cross contamination.**Location: 03B, Canvas Wrap TSI with Fiberglass - Central Plant, Chiller Area, Hot Water Line**

Lab ID-Version‡: 17271459-1

Sample Layers	Asbestos Content
Gray Wrap with Fiberglass	3% Chrysotile
<b>Composite Non-Asbestos Content:</b>	5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Comments:** Sample layers inseparable without cross contamination.

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‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: PMP Environmental Consulting- Contracts  
Account  
C/O: Shannon Johanson  
Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024  
Date of Receipt: 02-09-2024  
Date of Report: 02-09-2024

## ASBESTOS PLM REPORT

**Location: 03C, Canvas Wrap TSI with Fiberglass - Central Plant, Chiller Area, Hot Water Line**

Lab ID-Version‡: 17271460-1

Sample Layers	Asbestos Content
Gray Wrap with Fiberglass	3% Chrysotile
<b>Composite Non-Asbestos Content:</b>	5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Comments:** Sample layers inseparable without cross contamination.

**Location: 04A, White Joint Compound - Central Plant, Chiller Area, End of Cold-Water Line**

Lab ID-Version‡: 17271461-1

Sample Layers	Asbestos Content
White Coating	ND
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Joint Compound Not Detected

**Location: 04B, White Joint Compound on TSI - Central Plant, Chiller Area, End of Cold-Water Line**

Lab ID-Version‡: 17271462-1

Sample Layers	Asbestos Content
White Coating	ND
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Joint Compound Not Detected

**Location: 04C, White Joint Compound - Central Plant, Chiller Area, Cold-Water Line Joint**

Lab ID-Version‡: 17271463-1

Sample Layers	Asbestos Content
White Coating	ND
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Joint Compound Not Detected

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

**Eurofins EPK Built Environment Testing, LLC**

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Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 05A, Gray/Red Paint on Floor - Central Plant, Chiller Area, Near Center**

Lab ID-Version‡: 17271464-1

Sample Layers	Asbestos Content
Red Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 06A, White Seam Tape - Central Plant, Boiler Area, Hot Water Line**

Lab ID-Version‡: 17271465-1

Sample Layers	Asbestos Content
White Tape	ND
<b>Composite Non-Asbestos Content:</b>	3% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 06B, White Seam Tape - Central Plant, Boiler Area, Hot Water Line**

Lab ID-Version‡: 17271466-1

Sample Layers	Asbestos Content
White Tape	ND
<b>Composite Non-Asbestos Content:</b>	3% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: 06C, White Seam Tape - Central Plant, Boiler Area, Hot Water Line**

Lab ID-Version‡: 17271467-1

Sample Layers	Asbestos Content
White Tape	ND
<b>Composite Non-Asbestos Content:</b>	3% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Good

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**Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 07A, Silver Foil Seam Tape - Central Plant, Chiller Area, Chilled Water Joint** Lab ID-Version‡: 17271468-1

Sample Layers	Asbestos Content
Silver Foil	ND
Sample Composite Homogeneity:	Good

**Location: 07B, Silver Foil Seam Tape - Central Plant, Chiller Area, Chilled Water Joint** Lab ID-Version‡: 17271469-1

Sample Layers	Asbestos Content
Silver Foil	ND
Sample Composite Homogeneity:	Good

**Location: 08A, Joint Compound on TSI (Painted Blue) - Central Plant, Boiler Area, Hot Water Lines**

Lab ID-Version‡: 17271470-1

Sample Layers	Asbestos Content
White Coating with Blue Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

**Comments:** Joint Compound Not Detected**Location: 08B, Joint Compound on TSI (Painted Blue) - Central Plant, Boiler Area, Hot Water Lines**

Lab ID-Version‡: 17271471-1

Sample Layers	Asbestos Content
White Coating with Blue Paint	ND
Yellow Insulation	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Moderate

**Comments:** Joint Compound Not Detected

The test report shall not be reproduced except in full, without written approval of the laboratory. The 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. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

**Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 08C, Joint Compound on TSI (Painted Blue) - Central Plant, Boiler Area, Hot Water Lines**

Lab ID-Version‡: 17271472-1

Sample Layers	Asbestos Content
White Coating with Blue Paint	ND
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Joint Compound Not Detected**Location: 09A, White Sealant on TSI - Central Plant, Chiller Area, East End CW**

Lab ID-Version‡: 17271473-1

Sample Layers	Asbestos Content
White Sealant	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 09B, White Sealant on TSI - Central Plant, Boiler Area, Hot Water Joint**

Lab ID-Version‡: 17271474-1

Sample Layers	Asbestos Content
White Sealant	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: 09C, White Sealant on TSI - Central Plant, Boiler Area, Hot Water Joint**

Lab ID-Version‡: 17271475-1

Sample Layers	Asbestos Content
White Sealant	ND
<b>Sample Composite Homogeneity:</b>	Good

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**Eurofins EPK Built Environment Testing, LLC**

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: PMP Environmental Consulting- Contracts

Account

C/O: Shannon Johanson

Re: 24-011-Contracts; Central Plant

Date of Sampling: 02-08-2024

Date of Receipt: 02-09-2024

Date of Report: 02-09-2024

**ASBESTOS PLM REPORT****Location: 10A, Black Foam Insulation - Central Plant, Chiller Area, Cold Water Line, North**

Lab ID-Version‡: 17271476-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

**Location: 10B, Black Foam Insulation - Central Plant, Chiller Area, Cold Water Line, East**

Lab ID-Version‡: 17271477-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

**Location: 10C, Black Foam Insulation - Central Plant, Chiller Area, Cold Water Line, South**

Lab ID-Version‡: 17271478-1

Sample Layers	Asbestos Content
Black Foam	ND
Sample Composite Homogeneity:	Good

**Location: 11A, Gray Paint on Concrete Floor - Central Plant, Boiler Area, Near Double Doors**

Lab ID-Version‡: 17271479-1

Sample Layers	Asbestos Content
Gray Paint	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The 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. The Company reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

PMP

CDPH Form



**LEAD HAZARD EVALUATION REPORT****Section 1 — Date of Lead Hazard Evaluation** \_\_\_\_\_**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**☐ Lead Inspection    ☐ Risk assessment    ☐ Clearance Inspection    ☐ Other (specify) \_\_\_\_\_**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

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

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

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

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

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

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

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

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

**Section 7 — Attachments**

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

First copy and attachments retained by inspector

Second copy and attachments retained by owner

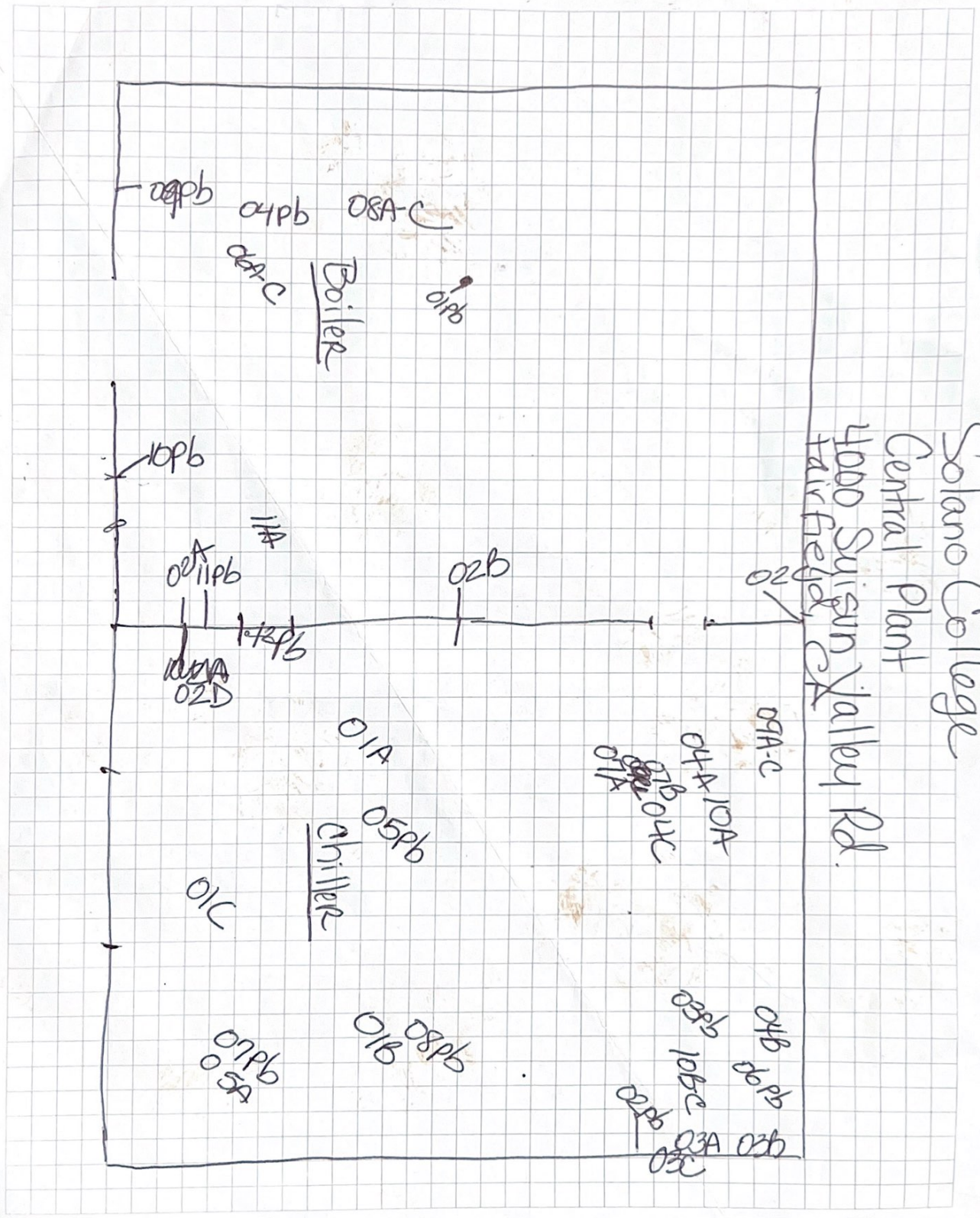
Third copy only (no attachments) mailed or faxed to:

California Department of Public Health  
Childhood Lead Poisoning Prevention Branch Reports  
850 Marina Bay Parkway, Building P, Third Floor  
Richmond, CA 94804-6403  
Fax: (510) 620-5656

PMP

Sample Maps

Solano College  
Central Plant  
4000 Suisun Valley Rd.  
Fairfield, CA



## Change Management Record

**Stomper Company, Inc**  
3135 Diablo Ave  
Hayward, CA 94545



(510) 574 0570 Phone  
(510) 574 0550 Fax  
Contractor's License No. 313376

<b>Submitted To:</b>	Mitchell Lake	<b>Job Name:</b>	Central Plant	<b>Date:</b>	5/9/2024
<b>Company:</b>	Matrix	<b>Contract #</b>			

<b>Submitted By:</b>	J Mack	<b>CMR#</b>	78-2- REV 6	<b>GC Ref#</b>	CCD-4
----------------------	--------	-------------	-------------	----------------	-------

<b>Description:</b>	
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**Removal of ACM ceiling/ Texture at both boiler and chiller rooms ( Eco Bay stand alone pricing \$55,170, including Stomper 5% Markup- Highlighted Green below)**  
Razor scrape loose and peeling paint on floor. Excludes any/ all paint removal outside of razor scrape of floor  
Credit for base contract ceiling removal highlighted.

		Units			Rates			
Category	Item	ST	OT	DT	ST	OT	DT	Extension
Labor	Supervision: Laborer	100	-	-	\$110.75	\$144.55	\$178.36	\$11,075
	Supervisor Credit	(16)			\$133.57			-\$2,137
	Supervision: OE	-	-	-	\$141.70	\$187.02	\$232.32	\$0
	Labor Credit	(48)			\$97.74			-\$4,692
	Laborer	400	-	-	\$97.74	\$125.64	\$153.54	\$39,096
	Laborer on BC - Public Works	-	-	-	\$115.17	\$144.70	\$174.23	\$0
	TOTAL LABOR	436	-	-				\$43,342
Equipment, Owned	Type	Units			Rates		Code	Extension
	Paint Stripper	0			0			\$0
	HEPA Vacs	160			15			\$2,400
	Handheld Grindeers							\$0
	HEPA Machines	120			25			\$3,000
	TOTAL EQUIPMENT							\$5,400
Equipment, Leased	Type	Units			Rates		Vendor	Extension
Materials	Type	Units			Rates			Extension
	Containment Materiasl	2			\$ 250.00			\$500
	Material Credits	1			\$ (250.00)			-\$250
	PPE	50			\$ 25			\$1,250
	TOTAL DISPOSAL							\$1,500
Subcontractors	Name	Units			Rates		Description	Extension
	EcoBav	1			52352		ACM Abatement SUB	\$52,352

*Unless specifically noted otherwise, all terms & conditions of original proposal apply*

	Disposal	1	4000	Lead Disposal	\$4,000
	TOTAL SUBCONTRACTORS				\$56,352
Subtotal					\$106,594
OH&P	Labor		15%		\$6,501
	Equipment		15%		\$810
	Materials / Disposal		15%		\$225
	Subcontractors		5%		\$2,818
TOTAL PRICE					\$116,948

Unless specifically noted otherwise, all terms & conditions of original proposal apply



February 16, 2024

Jake Mack  
Stomper Company  
3135 Diablo Ave.  
Hayward, CA 94545

**Re: Solano Community College Chiller Ceiling Demolition West and East**

Eco Bay Services, Inc. is pleased to offer our proposal for abatement services. Eco Bay Services is a fully licensed and insured environmental contractor and is a CMD Local Business Enterprise in San Francisco. Eco Bay is signatory to Laborers Local 67.

I. Pricing

Base Bid West: \$26,716

Base Bid East: \$26,716

II. Scope of Work

**Eco Bay Services, Inc. is responsible for:**

- A. Mobilization, set up, and containment of the work area where asbestos abatement will occur. Eco Bay will install engineering controls and negative air filtration prior to the removal of hazardous materials.
- B. West Ceiling: The removal of approximately 1100 sf of ACM ceiling with skim coat from the east and west chiller rooms.
- C. Eco Bay will cover items that have vents, pipes wrapped with paper insulation and chiller motors. Eco Bay will not wrap all exposed metal pipes. Metal pipes will be washed and wiped clean prior to clearance.
- D. The completion of work within 6 days.
- E. Providing all necessary EPA and OSHA Notifications.
- F. Manifesting, hauling and disposal of all debris to approved facilities.

**Assumptions / Exclusions on which this proposal is based:**

- G. Removal of any loose items/furniture in area is excluded.
- H. Plastic wrapped and metal pipes will be cleaned at the duration of the project and are not included to be protected.
- I. In accessible ceiling will have to be left in place if a lift or scaffold is not able to reach. We will attempt to use extension bars with hooks to pull down the ceiling. Daily progress reports will be communicated to the GC and Stomper
- J. Layout of selective demo, by others.
- K. Price based on no more than two mobilizations/demobilizations.
- L. Excludes shoring or bracing. Excludes patching and/or repair. Excludes surface prep. Cutting and capping by others. Eco Bay retains salvage rights for items removed.
- M. Excludes the removal of leveling compound or multiple layers of flooring, ceilings or walls.



- N. Site security by others.
- O. Hard demolition, saw cutting, coring, doweling and scarifying are excluded.
- P. Excludes demo permits, street bin permits, or sidewalk encroachment permits.
- Q. It is assumed that electricity and water will be made available at the site.
- R. Hard barriers at construction entrance or where required are excluded from this proposal.
- S. Proposal is based on the inclusion of this proposal and the clarifications contained therein becoming part of the contract.
- T. Eco Bay shall not be obligated to complete T&M or force account work.
- U. Clearance sampling (if required) and CAC services are the responsibility of client.
- V. Excludes imbedded, impregnated or inaccessible materials.
- W. Pricing assumes that demolition waste is construction debris. No sampling or profiling of demolition debris is included. **Cal-Haz or RCRA lead waste disposal has not been included in this proposal.**
- X. Eco Bay will not accept back charges unless notified in advance and mutually agreed upon
- Y. Payment to be made within 30 days of invoice.
- Z. Retention, if any, will be paid 30 days after completion and acceptance of our work.
- AA. The prevailing party in any disputed action, between parties is entitled to reasonable attorneys' fees and court costs.
- BB. Bid proposal shall be subject to and conditioned upon either the usage of the AIA "Standard Form Construction Subcontract" (A101-1997) and AIA "General Terms and Conditions (A201-1997) or a subcontract otherwise acceptable to Eco Bay Services, Inc.
- CC. This proposal is subject to the above terms and conditions and to your acceptance or that of an authorized agent within thirty (30) days from the date hereof.

### III. Procedures

Contractor is a certified abatement and demolition contractor in California, license #912328, DOSH #933. All local, state, and federal EPA and OSHA codes regarding removal and disposal of regulated materials shall be strictly adhered to.

Our proposal includes true occurrence general/asbestos and lead liability coverage with primary and umbrella limits of \$10 million per occurrence from an A+XV Best Rated insurer.

We wish to thank you for your consideration and look forward to working with you on this project. I assure you of the highest quality and service.

Sincerely,

Chris Davini  
Eco Bay Services, Inc.  
[cdavini@ecobayservices.com](mailto:cdavini@ecobayservices.com)







Matrix HG  
3323-ALB

March 1, 2024

Matrix HG Inc.  
115 Mason Cir  
Concord, CA 94520

To: Mitch Lake [Blake@Matrixhginc.com](mailto:Blake@Matrixhginc.com)

Re: Credit – Remove Demo/Install Drywall Ceiling  
Solano College

Please find below breakdown for credit for removing demo and install from scope of work as follows.

**Scope of Work:**

- Demo and Install 18x18 drywall at 142 locations

Labor	\$3,483.00
Equipment	\$440.00
Material	\$154.10

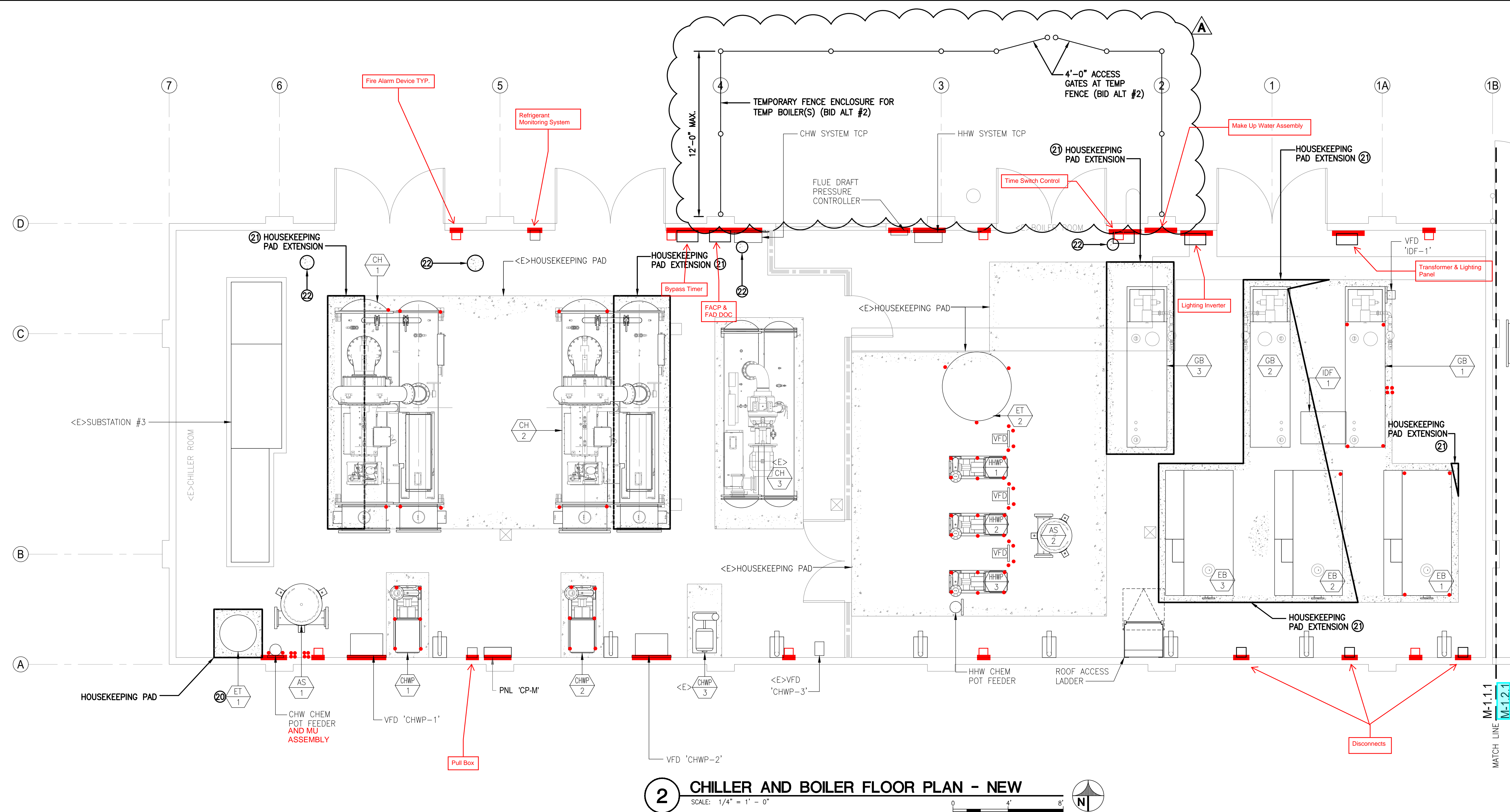
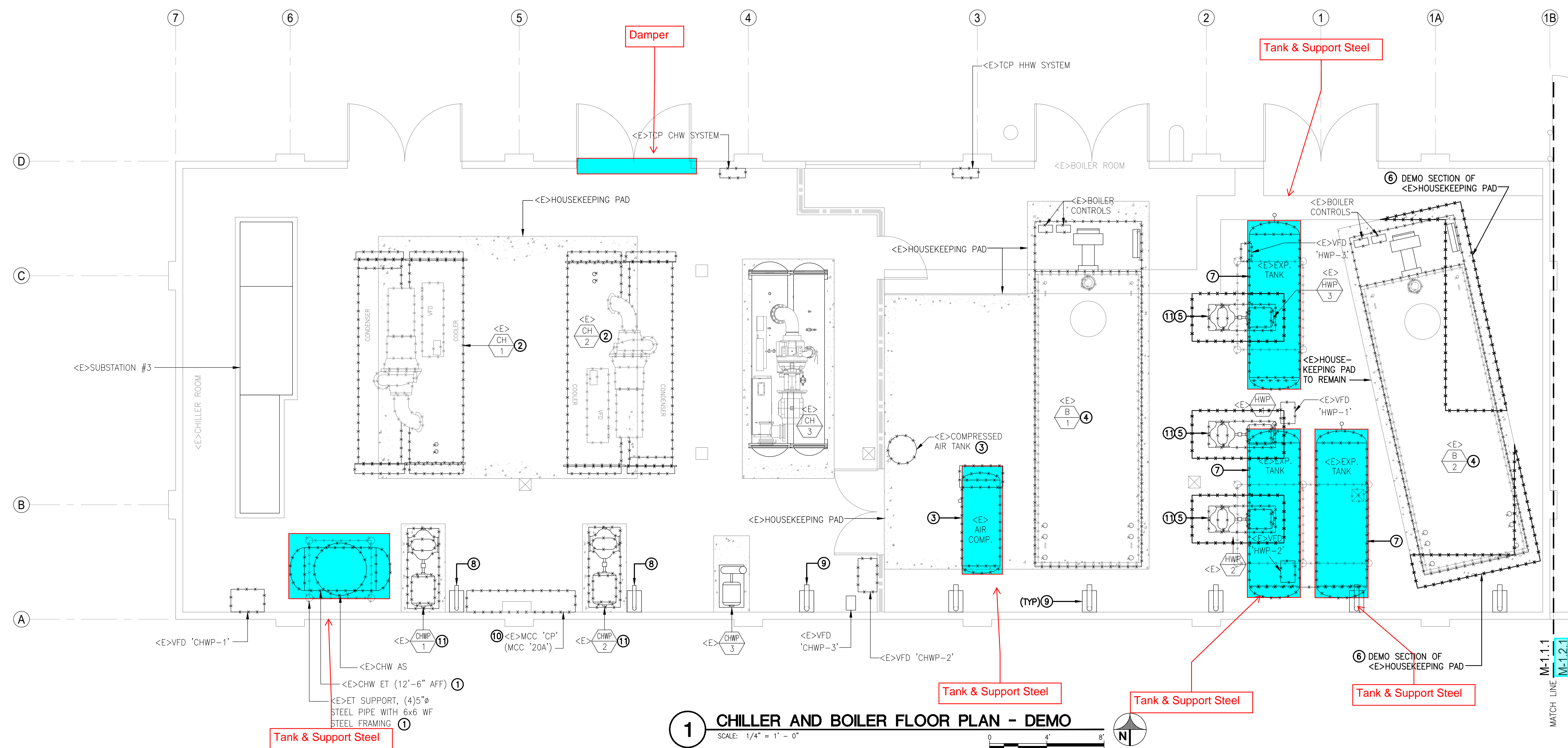
**Total Credit: \$4077.10**

Bob Gonzalez  
ALB, Inc.









### REFERENCE SHEET NOTES

DEMO:

1. DEMOLISH EXISTING CHW EXPANSION TANK, AND STEEL STRUCTURAL SUPPORT FRAMING TO SLAB. CUT STEEL SUPPORT PIPES (IF NECESSARY). FILL ANCHOR HOLES AND OPENINGS WITH GROUT AND FINISH TO MATCH EXISTING CONCRETE SLAB.
2. SEE M-1.1.2 FOR DEMOLITION OF <E> CHILLER EQUIPMENT, PIPING AND ACCESSORIES. CUT CH-1 AND CH-2 ANCHOR POSTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD OR SLAB.
3. SEE M-1.1.2 FOR DEMOLITION OF <E> AIR COMPRESSOR EQUIPMENT, PIPING AND ACCESSORIES. CUT ABANDONED AIR COMPRESSOR ANCHOR POSTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD. SEE PLUMBING DRAWING 1/P-1.1.
4. SEE M-1.1.2 FOR DEMOLITION OF <E> BOILER EQUIPMENT, PIPING AND ACCESSORIES. CUT BOILER ANCHOR POSTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD.
5. DEMOLISH EXISTING HOUSEKEEPING PAD TO THE EXTENT NECESSARY FOR NEW EQUIPMENT LAYOUT AND PAD DESIGN. SEE STRUCTURAL DRAWINGS.
6. DEMOLISH EXISTING HOUSEKEEPING PAD TO THE EXTENT NECESSARY TO SQUARE OFF THE NEW EQUIPMENT PAD DESIGN.
7. DEMOLISH EXISTING HHW EXPANSION TANK, AND STEEL STRUCTURAL SUPPORT FRAMING TO SLAB. CUT STEEL SUPPORT PIPES (IF NECESSARY). FILL ANCHOR HOLES AND OPENINGS WITH GROUT AND FINISH TO MATCH EXISTING CONCRETE SLAB.
8. EXISTING PIPE SUPPORT TO REMAIN. 3"ø PIPE WELDED TO 18"x12" BASE PLATE WITH 3"x3/16" LONG CANTILEVER ARMS.
9. EXISTING PIPE SUPPORT TO REMAIN. 4"ø PIPE WELDED TO 18"x12" BASE PLATE WITH 4"x3/16" LONG CANTILEVER ARMS.
10. EXISTING MCC TO BE REMOVED. SEE ELECTRICAL DRAWING 1/E-1.1.2.
11. SEE M-1.1.2 FOR DEMOLITION OF <E> PUMP EQUIPMENT, PIPING, AND ACCESSORIES. CUT ANCHOR POSTS AND GRIND SMOOTH TO FINISHED CONCRETE PAD OR SLAB.

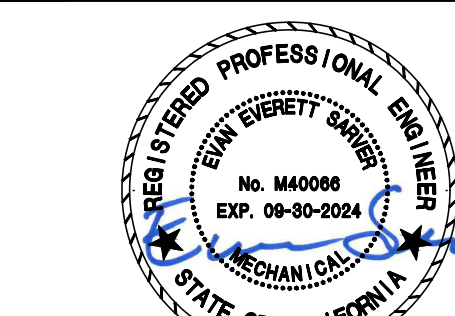
NEW:

20. PROVIDE AND INSTALL EXPANSION TANK PAD. SEE DETAIL 11/S-1.2.
21. EXTEND EXISTING HOUSEKEEPING PAD. PROVIDE CONCRETE, DOWELS, AND REBAR FOR EXTENSION. REFER TO STRUCTURAL DRAWINGS.
22. FILL WITH GROUT, AND FINISH TO MATCH EXISTING CONCRETE SLAB.

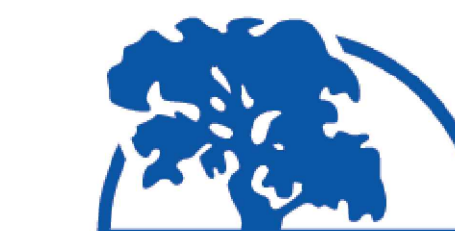
**SALASO'BRIE**  
| expect a difference

**305 South 11th Street  
San Jose, California 95112-2218  
877.725.2755 | 877.925.1477 (f)  
[WWW.SALASOBRIEN.COM](http://WWW.SALASOBRIEN.COM)**

National **Strength.**  
Local **Action.**



**SOLANO COMMUNITY  
COLLEGE DISTRICT**



**SOLANO**  
COMMUNITY COLLEGE

4000 SUISUN VALLEY RD  
FAIRFIELD, CA 94534

## CENTRAL PLANT MODERNIZATION

DSA APPL #02-120584

[illegible]

SOBE PROJECT NO:	22006
DATE:	03/27/2011
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	EL

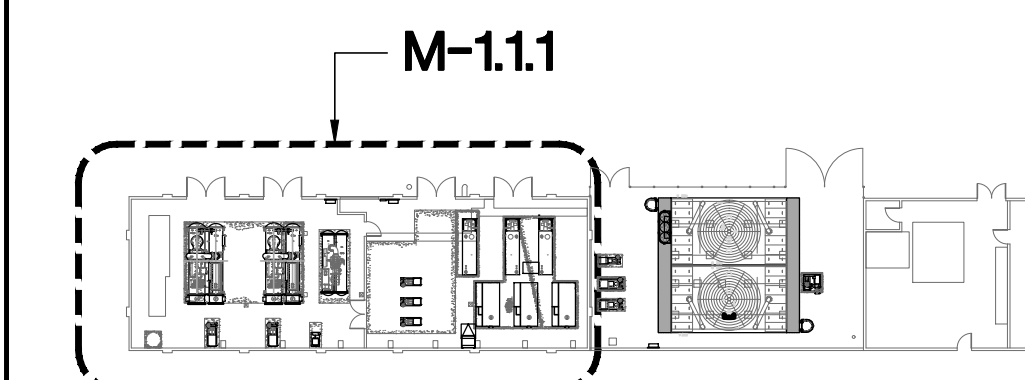
SHEET TITLE
MECHANICAL CHILLER AND BOILER EQUIPMENT AND PAD LAYOUT

SCALE: AS NOTED  
THIS DRAWING IS 30" X 42" AT FULL SIZE

**M-1.1.1**

SHEET                      OF                      -

## KEY PLAN







Solano Community College District  
4000 Suisun Valley Rd  
Fairfield, Ca. 94533

Project Name: Central Plant Replacement Project  
Project Address: 4000 Suisun Valley Rd  
RE: MHG CO 230477-19R3 – FI 01 – Temporary Chilled System

Dear Noe,

Matrix is pleased to submit herewith our scope adjustment proposal for the above referenced project. Change in work (A) arose from the issuance of Field Instruction 01 calling for temporary chilled water equipment to be connected to serve the campus until the new system is completed and functional. This cost has been updated to include the assistance provided to bleed the air from the campus loop.

**Scope of Work Description:**

- (A) Procurement of Rental Chiller/Cooling Tower/Pump skid
  - Prepare temporary equipment connections at existing exterior risers.
  - Install temporary Sch 80 PVC piping to serve Central Plant and Bldg 1700
  - Insulation of temporary lines
  - Associated electrical and controls connections for temp equipment.
  - This requires relocating staged materials, storage containers, and fabrication areas.
  - Provide assistance to bleed air from the existing campus loop and buildings.

**Clarifications:**

- Work performed during regular hours 6:00AM to 2:30PM Monday through Friday.
- Proposal is subject to revision if not accepted within: Thirty (30) Days.
- The temporary equipment has already been released per direction to proceed from Kitchell.
- The delivery date for the temporary equipment was 5/1/24.
- Aggreko will deliver and set up the trailer, set up the hoses, and run the power lead wires.
- The electrician will disconnect the existing CH-3, connect the temp equipment power leads to the CH-3 feed, and then disconnect and reconnect after the temporary equipment is removed.
- The controls contractor is providing a signal wire to facilitate control over the Bldg 1700 pump.
- The insulator is replacing the insulation and aluminum jacketing on the existing exterior risers. They will also install insulation on the temporary piping. Per confirmation from Salas O'Brian, the temp piping will be insulated with duct wrap and covered with plastic in lieu of fiberglass insulation and PVC jacketing for cost savings.
- The storage container company will perform the relocation of the Connex boxes.
- The various devices and components will be located as shown on the attached mark ups.
- The future temporary connections inside the Chiller room are being relocated to the exterior risers.
- The new ET-1 and new pot feeder will be used for this temporary condition and then installed in their permanent locations.
- The existing water meter in the CT yard will be relocated and re-used for this condition.



- The Bldg 1700 temporary connection will occur at the existing Bldg expansion loops. These loops will be removed and re-installed after removal of the temp equipment. New couplings will be provided.
- Temporary fencing will be provided to safe off the temporary equipment as well as maintain student access to the pool area and Bldg 1700 entrance.
- Anchors for this temporary work in walls and/or SOG will be cut flush after temp piping removal. Anchors in concrete will be patched. Anchors in asphalt will be cold galv. sprayed.
- If additional work is required, we will furnish a separate proposal for same.
- Matrix provides a standard installed warranty for (1) year from the owner's beneficial use of the equipment. Matrix does not include warranty for any existing equipment or systems or for work not specifically started above.

**Exclusions:**

- Water treatment of this temporary and the existing system is by the district.
- Testing & Balancing of temporary equipment.
- Pre-readings and verification of existing utilities
- Over time labor
- Modifications, upgrades, or repairs not stated above
- Correction and troubleshooting of pre-existing problems or code violations
- Engineering, permit, plan check, special inspections, and certification fees
- Temporary or supplemental ventilation, heating, and air conditioning
- Replacement of existing isolation valves that do not hold
- Utility relocation (plumbing, electrical, fire sprinkler, etc.)
- Ceiling modification, removal, installation, etc.
- Cutting, patching, concrete scanning, coring, etc.
- Abatement, painting, labeling, valve tags, etc.
- Fire life safety, duct smoke detectors, FSD, fire calk, etc.
- Framing, roofing / weather proofing, electrical, controls, scaffolding, etc.

**NOTE: This cost assumes a 3 month rental period starting on 5/1/24.**

**\$13,180.00 per additional WEEK**

**\$40,100.00 per additional MONTH**

**We propose to furnish materials and labor – complete in accordance with the above specifications, for the sum of: \$227,527.95.**

Thank you for the opportunity to present this proposal for your consideration, we are looking to working with you on this project.

Sincerely,

Matrix HG Inc.

*Mitchell Lake*

Project Manager



# Solano Community College Central Plant Modernization

Matrix Job #230477

## CHANGE ORDER PROPOSAL SUMMARY SHEET

Owner Ref. No. \_\_\_\_\_  
GC Ref. No. \_\_\_\_\_

Matrix COR No. 230477-19R3  
Date: 6/7/2024  
Prepared By: Mitch Lake

**Change Order Description:** *Due to project delays out of our control the completion of the Chilled and Condenser Water systems has been delayed. As a result, Temporary Cooling Equipment must be rented and connected to the campus loop until the new systems can be put in service. This cost has been updated to include the costs for providing assistance to bleed air from the campus loop. See the CO cover letter for additional information. This cost has been updated to extend the rental period to 4 months. The following is our revised cost for review and approval.*

**Schedule Impact:** 21 days (this added scope requires an extension of the contract duration)

<b>HVAC Wet - Labor</b>				<b>HVAC Dry - Labor</b>			
<b>Total</b>	<b>Hrs:</b>	<b>259.20</b>		<b>Total</b>	<b>Hrs:</b>	<b>0.00</b>	
Foreman (X1.5) Rate: \$ 203.26	0.00	\$ -	23' - 24' Rates	Foreman (X1.5) Rate: \$ 226.56	0.00	\$ -	23' - 24' Rates
Journeyman (X1.5) Rate: \$ 195.51	0.00	\$ -		Journeyman (X1.5) Rate: \$ 206.79	0.00	\$ -	
Foreman Rate: \$ 159.15	142.56	\$ 22,688.42	23' - 24' Rates	Foreman Rate: \$ 177.09	0.00	\$ -	23' - 24' Rates
Journeyman Rate: \$ 153.92	116.64	\$ 17,953.23		Journeyman Rate: \$ 163.76	0.00	\$ -	
<b>Subtotal: \$ 40,641.65</b>				<b>Subtotal: \$ -</b>			

<b>HVAC Wet - Material</b>				<b>HVAC Dry - Material</b>			
Materials: \$ 15,336.36				Materials: \$ -			
Cartage: \$ 1,073.55				Cartage: \$ -			
8.75% Tax: \$ 1,341.93				8.75% Tax: \$ -			
<b>Subtotal: \$ 17,751.84</b>				<b>Subtotal: \$ -</b>			

<b>Subcontractors</b>				<b>Rentals</b>			
Framing/Finishes: \$ -				Rental Equipment: \$ 108,085.00			
Concrete: \$ -				Rental Tools: \$ -			
Balancing: \$ -				Med Tools: \$ -			
Roofing: \$ -				Other: \$ 4,952.67			
Electrical: \$ 3,647.00				8.75% Tax: \$ 9,890.80			
Abatement: \$ -				Safety: \$ -			
Hoisting/Rigging: \$ -							
Controls: \$ 4,422.00							
Insulator: \$ 7,100.00							
Detailing: \$ -							
<b>Subtotal: \$ 15,169.00</b>				<b>Subtotal: \$122,928.47</b>			

<b>Other Costs</b>			
Shop Burden: \$ -			
Detailing: \$ -			
Disposal: \$ -			
Permits: \$ -			
Consumables: \$ 230.05			
Safety: \$ -			
<b>Subtotal: \$ 230.05</b>			

<b>Total Labor:</b>	<b>\$ 40,641.65</b>
<b>CA WO #16</b>	<b>\$ 1,693.40</b>
<b>Total Material &amp; Equipment:</b>	<b>\$ 140,680.30</b>
<b>Other Costs:</b>	<b>\$ 230.05</b>
<b>Subtotal:</b>	<b>\$ 183,245.40</b>

<b>Total Subcontractors:</b>	<b>\$ 15,169.00</b>
<b>Subcontractor MU:</b>	<b>5% \$ 758.45</b>
<b>Direct Work OH&amp;P:</b>	<b>15% \$ 27,486.81</b>
<b>Insurance &amp; Bond:</b>	<b>2% \$ 868.29</b>
<b>Subtotal:</b>	<b>\$ 227,527.95</b>

**\*TOTAL COST FOR THIS CHANGE \$ 227,527.95**

I hereby agree to the following costs/extensions and want Matrix to proceed forward with the above change order: X \_\_\_\_\_  
Quoted cost does not include labor escalation; labor has been priced at the current cost at the time this change was quoted. (Customer Signature)

\*This change estimate is based solely on direct cost elements for the work as specifically noted in the description of the change and as listed and priced in the attached estimate. This change proposal pricing does not include any cost for changes in the sequence of the work, delays, disruptions, rescheduling or acceleration to the work and extended overhead beyond those specific items as listed and priced in this proposal. Further, this change does not include cost impacts due to the cumulative affect of multiple changes on this change, other changes and/or the affect to our base contract work. We expressly reserve the right to compensation and notice of potential claim is made, for any and all of the aforementioned costs and related items noted as not included in this change proposal.

Added Scope Description

Breakdown								
Materials					Labor			
					Shop		Field	
QTY	Size	Description	Unit \$	Total \$	Unit	Total	Unit	Total
CREDIT								
-2	14"X10"	VIC TEE	\$ 814.12	\$ (1,628.24)			8.26	(16.52)
-4	14"	VIC Couplings	\$ 266.20	\$ (1,064.80)				Incl'd
-2	10"	VIC Couplings	\$ 246.45	\$ (492.90)				Incl'd
-2	10"	BFV's	Wash - Relocated to exterior					
-2	10"	Blinds	Wash - Relocated to exterior					
ADD								
		Coordinate Site Logistics w/ Substation Project and College	N/A					8.00
		Demo Exterior Insulation	N/A					2.00
		Dismantle Metra Loops	N/A					2.00
		Relocate Conex's and Materials (2m X 2d)	N/A					32.00
		Temp Hose Assistance	N/A					4.00
		Run Make Up Water (garden hose)	N/A					1.00
		Daily Checks/Maintenance of Equip and Piping (3 months = 60 days = 15min p/d	N/A					15.00
		Campus System Bleeding Assistance	N/A					12.00
2	14"X10"	Weld on Saddles	\$ 1,092.86	\$ 2,185.72			11.15	22.30
2	10"	BFV's	Wash - Relocated from interior					-
2	10"	Blinds	Wash - Relocated from interior					-
2	8"	BFV's	\$ 530.97	\$ 1,061.94			2.03	4.06
2	6"	BFV's	\$ 384.12	\$ 768.24			1.86	3.72
2	10X8	Sch 80 PVC Reducer	\$ 1,319.01	\$ 2,638.02			1.71	3.42
2	8X6	Sch 80 PVC Reducer	\$ 449.35	\$ 898.70			2.61	5.22
60	8"	Sch 80 PVC Pipe	\$ 26.51	\$ 1,590.60			0.25	15.00
60	6"	Sch 80 PVC Pipe	\$ 17.50	\$ 1,050.00			0.18	10.80
5	8"	Sch 80 PVC 90	\$ 227.28	\$ 1,136.40			3.32	16.60
2	6"	Sch 80 PVC 90	\$ 82.46	\$ 164.92			2.15	4.30
2	8"	Sch 80 PVC TEE	\$ 321.62	\$ 643.24			4.92	9.84
2	8"	GRV to PVC Adpt	\$ 408.83	\$ 817.66			1.40	2.80
4	6"	GRV to PVC Adpt	\$ 362.11	\$ 1,448.44			0.90	3.60
2	8"	PVC Flange	\$ 113.46	\$ 226.92			1.01	2.02
6	6"	PVC Flange	\$ 62.90	\$ 377.40			0.98	5.88
2	8"	Bolt & Gasket Kits	\$ 236.45	\$ 472.90				Incl'd
6	6"	Bolt & Gasket Kits	\$ 195.56	\$ 1,173.36				Incl'd
150	1-5/8"	Unistrut	\$ 2.30	\$ 345.00			0.09	13.50
10	1/2"	1 Hole Strut 90	\$ 2.93	\$ 29.30			0.08	0.80
24	1/2"	2 Hole Gusset 90	\$ 15.36	\$ 368.64			0.17	4.08
16	1/2"	2 Hole Strut 45	\$ 4.79	\$ 76.64			0.12	1.92
80	1/2"	Strut Hardware (Nuts, Bolts, Washers)	\$ 0.41	\$ 32.80				Incl'd
80	1/2"	Strut Hardware (Channel Nuts)	\$ 0.46	\$ 36.80				Incl'd
11	8"	Strut Clamps	\$ 19.90	\$ 218.90			0.15	1.65
14	3/8"	Anchors	\$ 4.34	\$ 60.76			0.25	3.50
2	3/4"	Drain Line Valves	\$ 18.76	\$ 37.52			0.30	0.60
Set Up ET-1 and Pot Feeder for temporary Condition								
3	3/4"	Manual Air Vent	\$ 7.78	\$ 23.34			0.23	0.69
20	3/4"	Cop Pipe	\$ 10.29	\$ 205.80			0.06	1.20
8	3/4"	Cop 90	\$ 1.58	\$ 12.64			0.53	4.24
2	3/4"	Cop 45	\$ 2.19	\$ 4.38			0.53	1.06
2	3/4"	Cop TEE	\$ 2.90	\$ 5.80			0.77	1.54
2	3/4"	Hose Adaptor	\$ 14.63	\$ 29.26			0.69	1.38
1		Set and Secure ET & Pot Feeder	\$ 12.00	\$ 12.00				8.00
1		50' Heavy Duty Hose	\$ 45.50	\$ 45.50				Incl'd
		Re-install Metra Loops						6.00
4	6"	VIC Couplings	\$ 80.69	\$ 322.76				Incl'd
		Take Down Temp PVC Piping & Supports		N/A				32.00
		Take Down Temp Fencing		N/A				4.00
		Relocate ET-1 Inside Chiller Rm		N/A				4.00
		Temp Cooling Equipment		See Summary				-
		Temporary Fencing		See Summary				-
		Insulation		See Summary				
		Conex Relocation		See Summary				
Note: We assume all work is done during normal hours.								
Exclusions: We exclude all other work not specifically noted above.								
Subtotal:				\$ 15,336.36		0.00	259.20	
Other Costs:								
TOTAL:				\$ 15,336.36			259.20	

FIELD INSTRUCTION NO. 01

PROPOSED CHANGE ORDER #: (MATRIX – TBD) RFI#: N/A SUBMITTAL #: N/A

TO: Kitchell / Matrix FROM: SALAS O'BRIEN DATE: 4/5/2024

SUBJECT/ITEM: TEMPORARY CHILLER FOR SUMMER MONTHS

LOCATION: CENTRAL PLANT, BLDG. 2000 SPEC REF: N/A

**DESCRIPTION:**

THE ATTACHED FIELD INSTRUCTION IS FOR THE RENTAL AND USE OF A TEMPORARY 500-TON AIR-COOLED CHILLER TO SERVE THE CAMPUS CHW SYSTEM THROUGH (AT MINIMUM) THE END OF JUNE 2024.

FIELD INSTRUCTION INCLUDES A SITE PLAN THAT INDICATES ACCESS TO THE SITE, LOCATION OF TEMPORARY CHILLER, TEMPORARY FENCING, AND TEMPORARY POINTS OF CONNECTION. ALSO INCLUDED IS A CHW SCHEMATIC INDICATING POINTS OF CONNECTION, TEMPORARY CHILLER ACCESSORIES, AND OTHER REQUIREMENTS FOR TEMPORARY COOLING SYSTEM.

Please issue the attached information to the contractor. We estimate the impact to the contract to be as follows:

☒ Net Change to Contract Sum - Additive ( ☒ Minor Major )

☐ Net Change to Contract Sum - Credit ( Minor Major )

☐ No Cost Impact

☐ Indeterminate

This direction is given with the expressed understanding that it does not constitute a basis for change in the contract price or contract time and is consistent with overall intent of the contract documents. If you do not concur, notify this office immediately.

ORIGINATOR: EVAN SARVER, SOBE 4/5/2024

Date

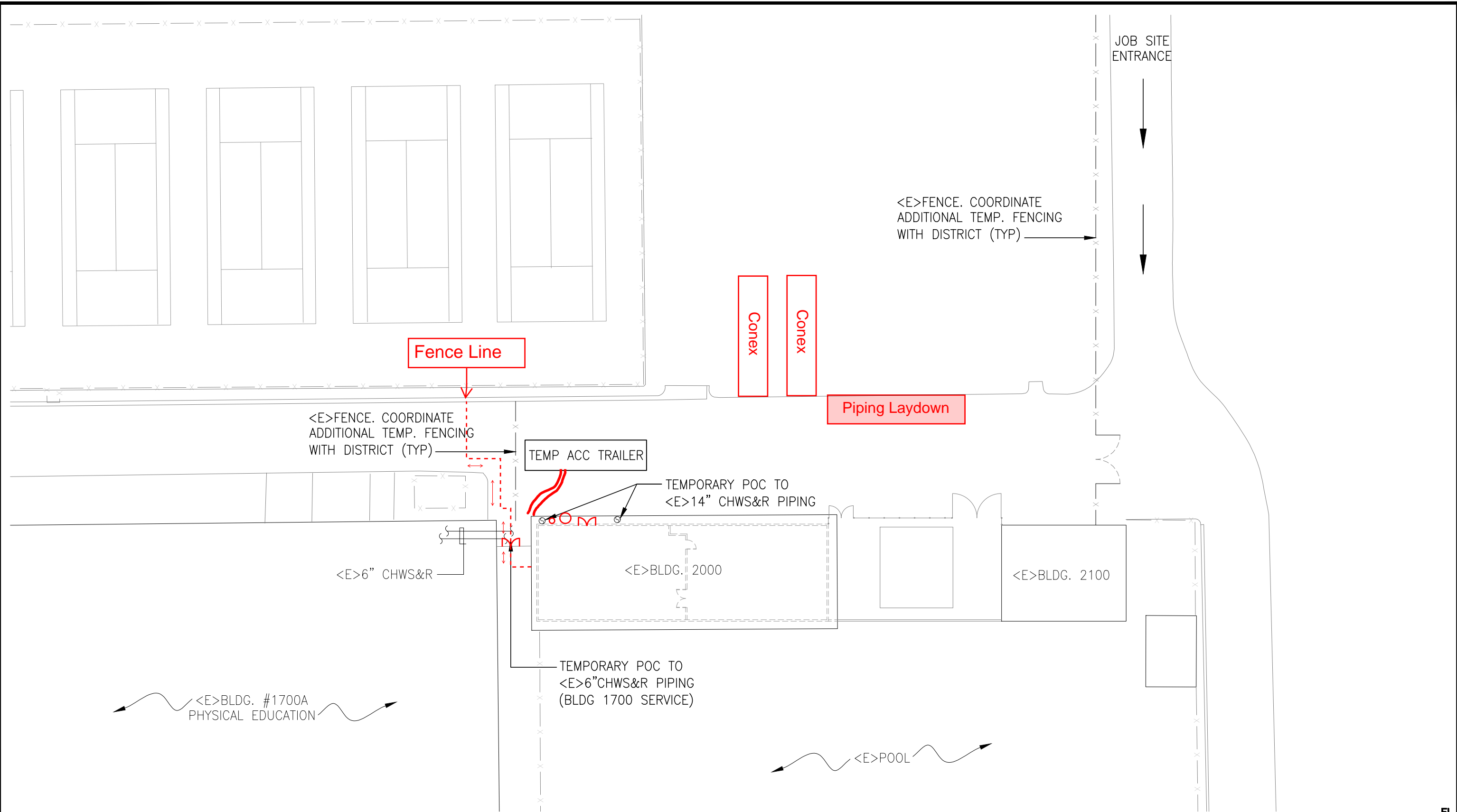


RECOMMENDED:

District Representative

Date

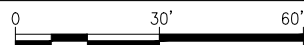
DISTRIBUTION: Contractor ☒ File ☒ IOR ☐ District ☒ Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



1

## PARTIAL SITE PLAN

SCALE: 1" = 30' - 0"



**Engineered for Impact**  
305 South 11th Street  
San Jose, California 95112-2218  
877.725.2755 | 877.925.1477 (T)  
[WWW.SALASOBRIEN.COM](http://WWW.SALASOBRIEN.COM)  
National Strength.  
Local Action.

**SOLANO COMMUNITY COLLEGE, 4000 SUISUN VALLEY RD, FAIRFIELD, CA 94534**  
CENTRAL PLANT MODERNIZATION

## TEMPORARY CHW CONNECTION SCHEMATIC

FI  
DSA APPLICATION #02-120584

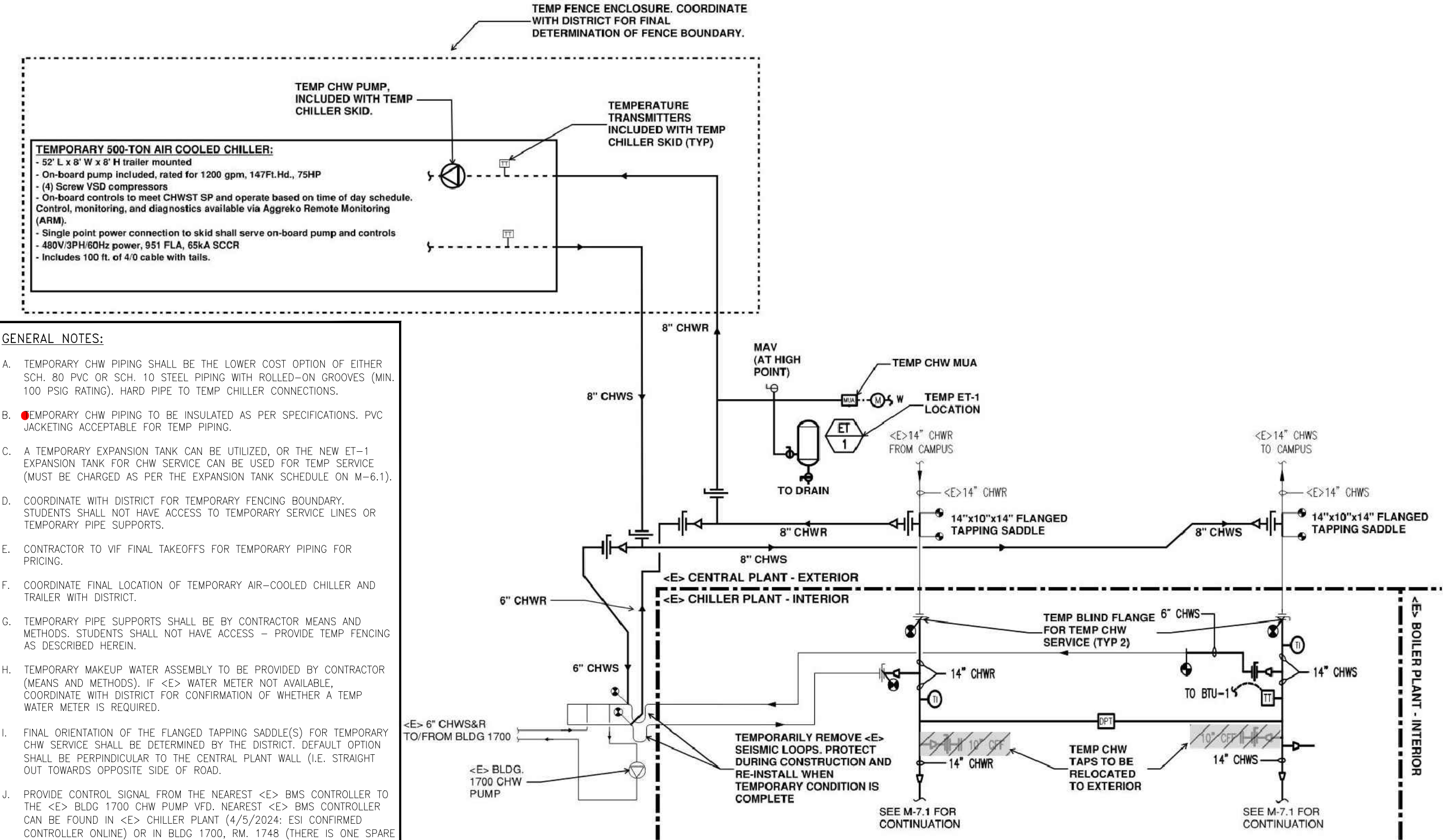
DATE: 04/05/24

JOB #: 2200689

**MOD DWG:**  
**2/G0.2-0**

SHT - OF -





Engineered for Impact

305 South 11th Street  
San Jose, California 95112-2218  
877.725.2755 | 877.925.1477 (T)  
WWW.SALASOBRIEN.COM

**Salas O'Brien.**

National Strength.  
Local Action.

SOLANO COMMUNITY COLLEGE, 4000 SUISUN VALLEY RD, FAIRFIELD, CA 94534  
CENTRAL PLANT MODERNIZATION

TEMPORARY CHW CONNECTION SCHEMATIC

FI  
DSA APPLICATION #02-120584

DATE: 04/05/24  
JOB #: 2200689  
MOD DWG:  
3/M-7.1-0  
SHT - OF -





Make Up Water from  
POC inside Bldg

Strut Anchored to top of  
wall with strut clamps to  
hold hoses in place.

Strut secured to  
wall for rigidity

ET-1

POT FEEDER

Dunnage

Make Up Water

ET strapped to wall  
w/ 3/8" anchors









Quote #: Q-484297-1  
Date: 3 Apr 2024

Matrix HG Inc.  
115 Mason Circle, Suite B  
Concord California 94520

Attn: Mitch Lake  
Tel: (925) 214-4985  
Email: mlake@matrixhginc.com

Aggreko Rep: Hans Reich  
Tel: (408) 220-3642  
Email: hans.reich@aggreko.com

Dear Mitch Lake,

Thank you for your interest in services provided by Aggreko, LLC. I am pleased to submit the following quote, which confirms our pricing and support services. Aggreko, LLC is responsive around the clock to ensure your complete satisfaction.

Sincerely,  
Hans Reich

Expected Rental Start: 15 Apr 2024      Rental Duration: 78 Days  
Expected Rental End: 1 Jul 2024

**Recurring Charges: Rates Reflect Quantities**

500 ton Air Cooled Chiller      500 ton trailer mounted air-cooled chiller package with onboard pump. Package includes 100' run of 4/0 cable with tails and 50' run of 6" hose for chiller water connection. Unit requires 951FLA 480v of power.

Qty	Description	Weekly Rate	Monthly Rate
1	Chiller 500 ton		
26	50 Feet x Cable 4/0 AWG		
13	Cable Tail, Female, Single Conductor		
13	Cable Tail, Male, Single Conductor		
6	Hose 6 in (150 mm) Standard, 150psi Length (ft): 25		
1	Trailer Large		
1	Telemetry/Remote Monitoring (Fixed Rate/Per Billing Cycle)		
1	Environmental Fee (Recurring) — 5.00%		
	<b>TOTAL</b>	<b>10,130.21</b>	<b>30,495.63</b>

**One Time Charges:**

Qty	Description	Price (Each)	Total Price
1	Freight - Roundtrip (Estimation/One Time) - 1.5 freight runs from Benicia depot. - *Positioning freight TBD.*	3,200.00	3,200.00
1	Labor - Setup and Teardown (Estimation/One Time) - Assumes two technicians for setup, testing and teardown based off hose and cable runs. Final connections to be made by client.	6,400.00	6,400.00
1	Freight - Positioning (Estimation/One Time) - Estimate one way from Houston depot.	7,000.00	7,000.00
	<b>TOTAL</b>		<b>16,600.00</b>

**Variable Charges:**

Aggreko, LLC  
San Francisco USA  
160 W Industrial Way  
Benicia, California 94510-1016  
United States  
Off:1-800-AGGREKO (244-7356)

Description	Charge Method	Charge
Freight - Delivery (Cost Plus %/Per Transaction)	Per Transaction	35%
Labor - Service (Fixed Rate/Per Hour)	Per Hour	Straight Time Rate : 160.00 Over Time Rate : 240.00 Double Time Rate : 320.00
Labor - Per Diem (Fixed Rate/Per Day)	Per Day	95.00
Labor - Travel (Fixed Rate/Per Mile)	Per Mile	2.39
Labor - After Hours - Call Out Fee (Fixed Rate/Per Transaction)	Per Transaction	1,250.00

Signature	_____	PO Number	_____
Printed Name	_____	PO Amount	_____

By signing this Acceptance, I certify that I am authorized to enter into this agreement on behalf of Lessee. I also certify that such acceptance or delivery of Aggreko's rental equipment shall be deemed an acceptance of the existing MSA between the parties, if applicable, and, if not, then subject to Aggreko's North American Rental Agreement Terms and Conditions available at <https://www.aggreko.com/en-us/terms-of-business>, to which I acknowledge I have access and are incorporated herein by reference.

**EXPIRATION** All proposals are valid for 14 days and contingent on availability. Acceptance must be provided to Aggreko prior to the end of the valid period or the proposal will expire. If the customer elects to accept the proposal after the expiration date or to postpone the on-hire date more than 14 days, this proposal will be subject to revision at Aggreko's discretion.

**CURRENCY** - All prices included in this document are reflected in U.S. Dollar

**INVOICE RECONCILIATION** If actual Rental Duration differs from quoted Rental Duration, refer to the following for invoice calculation:

Day 1 - 2 - The daily rate applies and is 1/3 of the weekly rate.  
 Day 3 - 7 - The weekly rate applies.  
 Day 8 - 20 - The daily rate applies and is 1/7 of the weekly rate.  
 Day 21 - 28 - The monthly rate applies and is 3 times the weekly rate.  
 After Day 28, the daily rate applies and is 1/28 of monthly rate.

**INVOICE RECONCILIATION: Labor - Per Hour**

- Straight Time applies during normal business hours from 8 AM - 5 PM, Monday – Friday
- Over Time (1.5x) applies outside of normal business hours, before from 8 AM or after 5 PM, Monday – Friday
- Double Time applies on Weekends and Holidays

**OUTSIDE OF NORMAL BUSINESS HOURS FEE:** To cover the additional cost of labor and third party expenses incurred for equipment preparation and mobilization, an Outside of Normal Business Hours Fee applies to orders executed outside of normal business hours (Monday – Friday 8am – 5pm). If ordered and subsequently canceled, the fee will be charged in addition to any other cancellation charges.

**CLEANING FEES** Cleaning fees as a result of improper treatment relative to water cooled chiller rentals will be charged upon completion of the project.

**WATER QUALITY AND TREATMENT** Customer is responsible to regularly monitor, control, and treat the circulating water to maintain a neutral water quality which protects against scale, biological growth, Legionella, and corrosion. Customer to make available upon request documents indicating makeup water & circulating water analysis. Due to evaporation, periodic "blow down" of the recirculating water is required and is typically controlled via automation. Batch feeding of chemicals is not recommended. Damages resulting from insufficient water treatment are the responsibility of the customer. The following parameters are given to provide general guidance relating to neutral water quality for fill media selection:

- LSI of 0 -1.0
- pH of 6.5-8.0
- M-Alkalinity of 100-500 ppm as CaCO<sub>3</sub>
- Conductivity <4000 µmhos
- Silica <150ppm as SiO<sub>2</sub>
- Chlorines and Sulfides < 1ppm
- Biological control (Total Aerobic Bacteria) < 100,000 cfu/m

**COLD WEATHER PROVISION** Cold Weather Provision (Low Temperatures between 40° F and - 40° F) Any fuel provided by the customer must be temperature appropriate by using anti-gel fuel additives and/or #1 Diesel fuel. The customer must supply appropriate power to energize cold weather accessories, such as (and not limited to) electric block heaters, trickle chargers, heat tracers and battery heaters. In the event that the customer cannot provide power for the winterization components, Aggreko can provide the power source for an additional fee. Snow removal may be required by the customer to ensure equipment and accessory operation, maintenance and repair. All cold weather issues (undercharged battery, fuel gelling, etc.) that require Aggreko Service Technicians to make repairs, will be billed at the standard labor rates outlined in this proposal. Aggreko offers fuel management services for customers who choose to limit their fuel-related responsibilities. Please contact an Aggreko sales and/or technical representative for more information.

**ELECTRICAL CONNECTIONS AND SYNCHRONIZATION:** Aggreko's personnel do not make final connections at the connection point for customers. The customer is responsible for de-energizing the system before connecting equipment.

**ENVIRONMENTAL FEE** An environmental fee of 5% will be charged against the total rental equipment amount. Note that if the equipment subject to the fee is also subject to shift rates, the amount of the fee will vary in proportion to the applicable shift rate. The fee is NOT a tax or governmental charge. It is used to help offset expenses incurred operating in an environmentally sound manner. To learn more about the fee, please see the terms and conditions referenced herein or Aggreko's Statement on Environmental Fees, which is available at <https://www.aggreko.com/en-us/terms-of-business>.

**EQUIPMENT GROUNDING** In all cases where the customer is connecting and operating the equipment, all electrical power producing and/or power consuming machines must be properly grounded in accordance with National Electrical Code and local code requirements prior to start up and shall be the responsibility of customer to verify compliance. The location where grounding rods are to be installed should be properly marked for location of underground utilities and other hazards prior to grounding. Customer acknowledges Aggreko is not familiar with any proposed grounding location(s), the accuracy of relevant markings or existing subsurface hazards. As such, Aggreko does not assume any liability for incorrect or ineffective grounding and customer expressly releases and shall indemnify Aggreko from any liability related thereto, regardless of the party that performs this service.

**EQUIPMENT ACCESS, MAINTENANCE AND SERVICE**

- Aggreko shall have the right at any time and from time to time to enter the premises occupied by the equipment, be given free access thereto and afforded necessary facilities for the purpose of inspection, servicing, replacement and removal.
- It is the customer's responsibility to maintain and service equipment during the rental term, although, equipment servicing can be performed by Aggreko at an additional charge.
- If the customer elects to have Aggreko service the equipment, we will perform routine service of the equipment at the labor rates stated in this proposal (or in the MSA in existence between the parties, if applicable). Please be aware that, unless otherwise coordinated in advance to be performed after hours, the equipment will need to be shut down during normal working hours for servicing. Equipment redundancy may be available for an additional fee if uninterrupted service is required.
- If the customer is qualified to service the equipment and elects to do so, proof of timely service must be provided to Aggreko upon request.
- Regardless of whether the routine service of the equipment is performed by Aggreko or the customer, Aggreko will notify the customer in advance when the service interval will be required. Failure to conduct or permit timely service may entail liability for associated diagnostic and repair costs and Aggreko disclaims any liability for any damages or injuries to any parties resulting from any such failure or delays.
- Daily inspections of the equipment are the responsibility of the customer. These checks should also be carried out prior to starting the equipment.
- The customer is also responsible for providing fuel, coolants, lubricants, and other supplies necessary to operate the equipment.

**FREIGHT** Charges to deliver and pick up equipment to your site will apply if arranged by Aggreko. Delivery/Pickup standby time may be charged in the event of customer-caused delays. If prepositioning of equipment is required, additional freight charges will apply.

**LABOR** Customer induced service calls, drive time to and from sites and any chargeable labor will be charged at quoted rates. If an overnight stay is required, lodging and per diem expense will be charged.

Aggreko, LLC  
 San Francisco USA  
 160 W Industrial Way  
 Benicia, California 94510-1016  
 United States  
 Off:1-800-AGGREKO (244-7356)

**IMPORTANT CUSTOMER INFORMATION** This proprietary document has been created for Matrix HG Inc., Mitch Lake, it is therefore acknowledged and agreed to honor our proprietary right to the contents of this proposal and therefore not share the ideas or concepts within.

**INVOICE INTERVAL** All monthly pricing based on a 28 Days billing cycle.

**PAYMENT TERMS** Payments shall be made Net 30 from date of invoice. However, Aggreko reserves the right to change payment terms based on changes in financial condition or Customer's non-compliance with the stated net payment terms during the rental.

**REMOTE MONITORING** This service is provided on designated equipment models. If applicable, Aggreko personnel will remotely monitor warning and emergency alarms to minimize downtime, increase reliability and proactively troubleshoot issues in a timely and cost effective manner. Corrective action may include the dispatch of service personnel and/or technical phone support directly to onsite customer contacts. The associated fees will be listed above as "Telemetry/Remote Monitoring". Remote Monitoring is billed PER DAY PER UNIT regardless of Invoice Reconciliation. These rates are based on the availability of cellular service at the jobsite. If cellular connectivity is unavailable, other technology may be available at a rate to be agreed upon in writing by the parties. Response time varies by geography.

#### TERMS, CONDITIONS AND CUSTOMER RESPONSIBILITIES

Customer assumes all responsibility and liability for:

- Obtaining any relevant operating permits, and shall be liable for any and all penalties, delays and damages caused by its failure to timely obtain all such permits, including reimbursement to Aggreko for any fines paid on Customer's behalf and regardless of the party to which the citation is issued.
- State and local taxes. TAX is NOT included on any Aggreko proposal. The customer will be charged for taxes unless a valid tax exemption certificate that applies to the particular rental is required provided for those the applicable period.
- Any and all required union labor.
- Required lifting unloading, loading, and positioning of the equipment (including providing suitable cranes and/or other lifting and handling equipment as applicable).
- Any modifications or damage to foundations, landscaping and structures, permanent or temporary, that are required for the installation, use or decommissioning of Aggreko's equipment and accessories, including any supervision, restoration and any resulting injuries.
- Pre-Delivery Cancellation Fees: If Customer cancels this rental after Aggreko and/or its freight supplier have commenced mobilization but before delivery of the equipment, Customer shall be responsible for paying Aggreko the freight charge incurred, a reasonable labor charge at the applicable standard, overtime or holiday rate, and, if after regular business hours, an Emergency Opening Fee.
- Full replacement insurance on equipment (Certificate must be provided prior to delivery)
- All services provided by Aggreko are subject to "Aggreko North America Rental Agreement Terms & Conditions". This document is provided online at: <https://www.aggreko.com/en-us/terms-of-business> and is incorporated herein by reference. Alternatively, a copy will be provided upon request. Customer shall accept these Terms by (i) signing the proposal, (ii) sending an email communication to Aggreko indicating acceptance of the Proposal, (iii) submission of a PO number, or (iv) Customer's acceptance of the Equipment. No alternative terms and conditions will be accepted unless expressly agreed to by the parties in writing.

#### TO PLACE AN ORDER

1. Provide Aggreko with written notice of acceptance of the Proposal by signing the Acceptance Page or by email.
2. Submit a Purchase Order or PO number to Aggreko, but only if needed for billing and for the purpose of payment.
3. If tax exempt, please provide a copy of your tax exemption certificate. Once received, it will remain on file for four years for future business. You will be charged applicable tax if the certificate is not received prior to order acceptance.
4. Provide a valid certificate of insurance, which can be obtained from your insurance provider.

#### TO TERMINATE RENTAL

1. Call 800-Aggreko (800-244-7356). Aggreko requires a minimum of a 24-hour notice for arranging the decommissioning and return freight. Off hire notifications received after 5pm will be acknowledged the following day.
  2. Provide the Rental Agreement Number, a Purchase Order Number, or the Equipment Unit Number. Additionally please provide items to be collected, job location, pickup date/time, site contact person name/phone number, and decommission requirements (including technician, de-fuelling, crane/forklift, and confirmation of freight carrier arrival time for return delivery).
  3. You will receive a confirmation email within 24hrs to acknowledge your request. If you do not receive this confirmation, please contact your Aggreko Representative. A rental will not be deemed terminated without proof of termination, as set forth above.
- Where freight is arranged by Aggreko, and unless designated otherwise, the end of hire date will be the later of either: i) the date the equipment is made available for pickup, or ii) the calendar day following receipt of the off-rent notification. Provided, however, for all rentals in which customer is responsible for arranging freight, the rental shall not terminate until the equipment is return to the designated Aggreko Service Center.

The image shows a close-up of a blue Aggreko industrial unit with several thick black cables plugged into its side. In the background, another similar unit is visible. The Aggreko logo is present on both units. A circular badge on the foreground unit features a Wi-Fi symbol and the text 'ARM aggreko Remote Monitoring'.

**aggreko**

# Aggreko Remote Monitoring



## We've got you covered – anytime, anywhere

For those responsible for keeping power, cooling, heating and compressed air up and running – no matter what – having an expert set of eyes on critical systems is essential. Aggreko Remote Monitoring (ARM) services help customers' operations teams, delivering essential information and expert support to keep facilities, plants and events running smoothly.

Our technology monitors our equipment performance and alerts a technician when issues might arise.

For managers, this means access to run status, load, fuel levels, and more anytime – and equipment reliability.

For field operations with dozens of pieces of equipment in remote areas, it means knowing the exact location of the unit needing maintenance, with expert technicians providing instructions and on-site support. Or, knowing exactly when to call for a fuel truck, optimizing fuel delivery scheduling and costs.

### KEY BENEFITS

- Maximize uptime
- Proactive monitoring to minimize risk and resolve issues before incidents occur
- Immediate response and technician assistance
- Increase unit productivity
- Improve operational efficiency
- Around the clock global reach and support

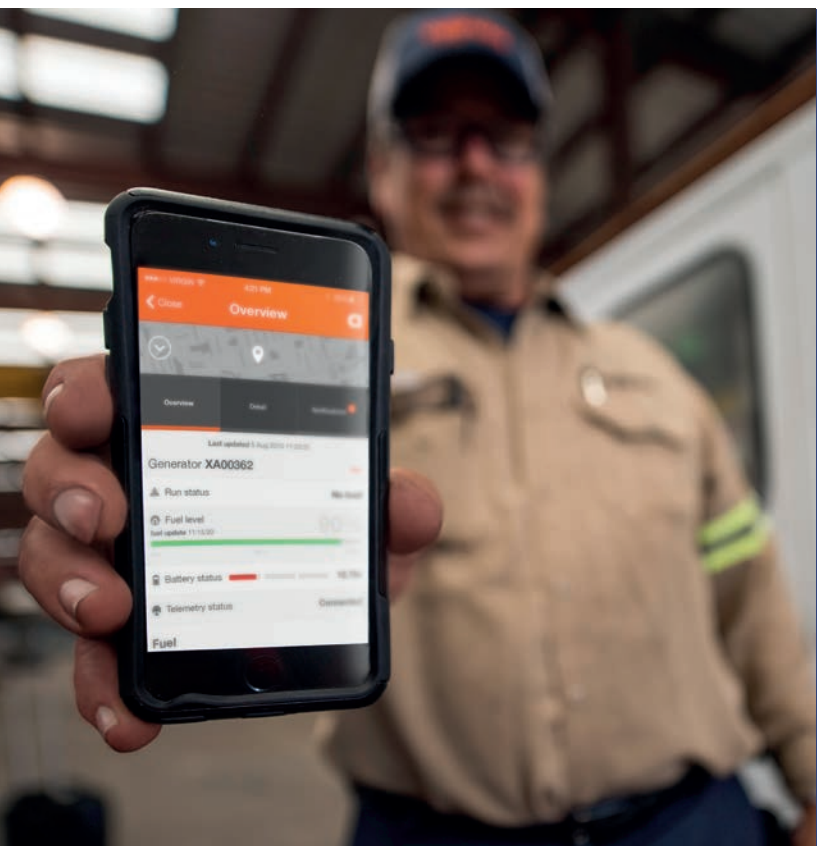


## ANCILLARIES

### The experts behind the technology

Setting our technology above other remote monitoring software is a team of engineers and field-experienced technicians in our Remote Operations Center (ROC) that can see every aspect of the equipment performance around the clock. The ROC team has all the information they need to see a problem, troubleshoot using computerized diagnostics, plan a solution, and immediately take action by:

- Deploying a technicians and resources to solve the problem
- Calling customers directly to provide the instructions for a minor fix or adjustment on-site



### Stay steps ahead

1. Equipment monitoring: Our team receives equipment notifications.
2. Remote diagnostics: Alarms enable our Service Engineer to identify potential or actual issues.
3. Personal attention: A team member initiates the right response plan for the identified issue.
4. Issue resolution: We remotely fix the problem with the site when possible or dispatch a qualified technician with a thorough understanding of the issue.

Our proactive monitoring helps to minimize risks and resolve issues before they occur. And with our online portal or mobile app, monitoring your equipment is now easier than ever - download our app today.



### With you every step of the way

#### **Avoid preventable failures:**

Early detection and prevention of potential issues means avoiding equipment problems before they disrupt operations.

#### **Maximize uptime:**

Maximizing efficiency on the job, ARM allows work to continue — eliminating potential lost revenues and man-hours due to equipment failure or unplanned maintenance.

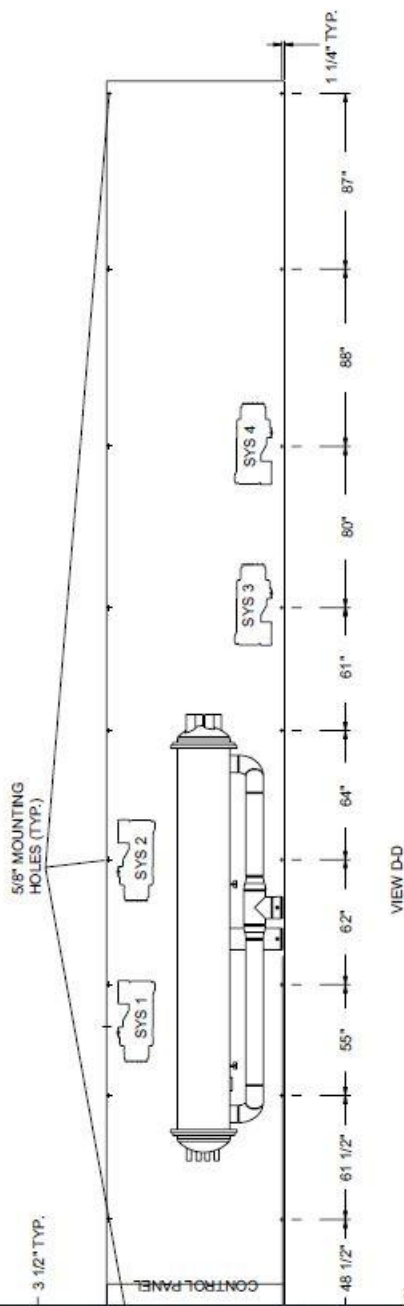
#### **Accelerate troubleshooting:**

Remote monitoring software at the ROC identifies potential problems, allowing our team to quickly troubleshoot and resolve issues.

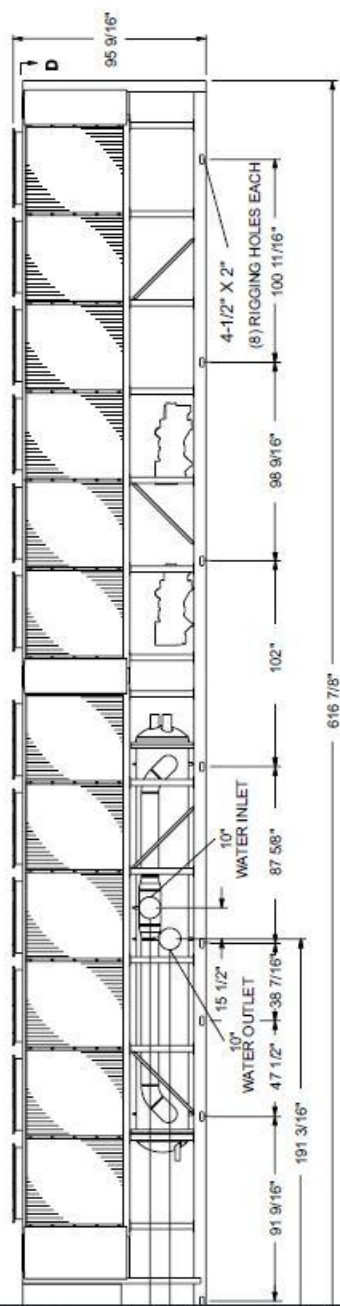
#### **Right-size equipment:**

ARM data helps us determine the best equipment for each job, so we can assure customers have the right equipment on site.

# DIMENSIONS - YCAV0477E/V High Efficiency English (Con't)



VIEW D-D





**Chiller**
**500 ton Chiller Low Temp 5F Air-Cooled Pump**

Document No: G08102406  
Revision: A  
Created By: A. Cardoza  
Approved By: M. Shedd  
Approval Date: 01/09/2020  
Page: 1 of 3

**Model**

Model reference CH0500L05AIP\_NA

Model size and rating 500 ton/1500 kw

Bill of Material reference number B01104247 A

**Manufacturer**

Model Reference JCI YCAV507 500 ton Air Cooled  
VSD Chiller, YCAV0507PA46VAC

Pressure Vessel Code Certificate CRN-ASME-Nat.Bd.

**Performance Data**

Design Rating kW (tons) 500.0 (142.2)

Nominal Cooling Capacity 492.1 tons @ 95 °F Ambient and  
@ 44°F LFT

Ambient Operating Range 2-115°F

Minimum Ambient Temperature 2.0°F

Maximum Leaving Fluid Temp 70°F

Minimum Leaving Fluid Temp 5°F

Condenser Type Round fin-Tube

**Electrical Data**

Electrical Requirements 460v / 3ph / 60Hz

Electrical Classification NEMA 3R

Electrical Certification C-ETL / U.S.-ETL, & Canadian  
safety std

FLA Rating-Cooling Amp (Amp) 941.0 (941)

Compressor Motor RLA Cir 1-192, Cir 2- 192, Cir 3-159, Cir  
4-192 amps

Condensor Fan Motor (count x Hp) Cir 1-6, Cir 2- 6, Cir 3-5, Cir 4-5 X  
2 Hp

Condenser Fan Motor RLA 2.8-Cir 1 and 2, 3-Cir 3 and 4 each  
amps

Breaker Type 1000 Thermal Magnetic

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Main Breaker Amps	Amp (Amp)	1000.0	(1000)
Genset Size Required	kW (kW)	1000.0	(1000)
Inrush Current	Amp (Amp)	50.0	(50)

**Condenser**

Condenser Type / Model / Part Number	Air cooled
Materials	Black Fin, epoxy coated condenser fins

**Evaporator**

Maximum Flow Rate	lpm (gpm)	(1400.0)
Design Flow Rate	lpm (gpm)	(1181.0)
Design Pressure Drop	psi (bar)	11.8 (0.814)
Minimum Flow Rate	lpm (gpm)	0.0 (400.0)
Water Volume (System)	L (US gal)	(17.4)
Maximum Pressure	psi (bar)	150.0 (10.342)

**Compressor**

Compressor Type / Model / Part Number	Screw VSD
Number of Compressors	4

**Connections**

Evaporator Flange	mm (ins)	(4.0)
Condenser Flange	mm (ins)	(4.0)
Evaporator Quick Connect	mm (ins)	(6.0)
Condenser Quick Connect	mm (ins)	(6.0)
Cable Connection	4/0 Camlock- 4 per phase	

**Refrigerant**

Refrigerant Type		R-134a
Number of Circuits		4
Charge (Circuit 1)	kg (lb)	(230.0)
Charge (Circuit 2)	kg (lb)	(230.0)



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Charge (Circuit 3)	kg (lb)	(185.0)
Charge (Circuit 4)	kg (lb)	(230.0)

**Oil Type**

Charge York "L"-POE 5 gallons per circuit

**Sound**

Sound Pressure Level (with Acoustic Enclosure) 74 dBA @ 30 ft

Sound Power Level (with Acoustic Enclosure) 102 dBA @ ft

**Lifting**

Forklift No forkpockets

Overhead 16 point

**Additional Information**

65 KA SCC Rating

UL listed, ETL, CSA

AHRI certified

230 tons @ +5 F

16 point, overhead lift only! Unit has onboard pump- 1200 gpm (water) 147 feet of head, 9.9 HPShr, 75

**Physical Characteristics**

Length	15.67 m	51.42 ft
Width	2.29 m	7.5 ft
Height	2.44 m	8 ft
Gross Weight	13971.55 kg	30802 lbs
Net Weight	12770.44 kg	28154 lbs
Gross Fuel	0 lit	0 US gal
Net Fuel	0 lit	0 US gal



**Vince Sigal  
Electric**  
INCORPORATED

**Vince Sigal Electric, Inc.**  
**400 Tesconi Circle, Santa Rosa, CA 95401**  
C10 License: # 867459

**4/11/24**

**Attention: Mitch Lake, MatrixHG, Inc.**

**Reference: 4927C2 SCCD Central Plant Replacement Project- VSE #23341.4**

**CHANGE ORDER #4:**

Description: This CO request is for the temporary power for a chiller.

- Cords are by others.
- The cords are to be ran by others.
- VSE will make the connection on the breaker in the switchgear.

Total Change Order Request					
	Rate	Hours	Cost	15% OH & Mark-Up	Total
Design/Discovery	\$ 175.00	0	\$ -		
Journeyman	\$ 168.00	16	\$ 2,688.00		
Apprentice	\$ 145.00	0	\$ -		
Labor Total			\$ 2,688.00		\$ 2,688.00
Materials			\$ 350.00	52.50	\$ 402.50
Equipment Rental			8	\$ 65.00	\$ 520.00
Sub Total					\$ 3,610.50
Material Tax 9.25%					\$ 37.23
Total					\$ 3,647.73

**Vince Sigal Electric, Inc.**

AUTHORIZED REPRESENTATIVE'S SIGNATURE

By: \_\_\_\_\_

Steve Eisert, Chief Estimator

Contractors State License No. C10-867459

**CLIENT**

AUTHORIZED REPRESENTATIVE'S SIGNATURE

By: \_\_\_\_\_





Vince Sigal  
Electric  
INCORPORATED

#### **CO - EXCLUSIONS & CLARIFICATIONS:**

- All pricing associated with this CO is valid for a maximum of 30 days. VSE reserves the right to adjust the pricing of this CO based on current materials costs.
- This CO has been assembled and presented for review. Any work, equipment, or materials associated with this CO shall not be released/ordered until an approved CO, with notice to proceed has been received. All SIGNATURES are required.
- All original proposal exclusions, permits and fees, expansion to the existing electrical system beyond this scope of work.
- This CO shall not in any way alter the terms of the subcontract agreement for work on the associated project, except as herein specifically described, or release, or exonerate any surety on any bond given to secure the performance of the subcontract.
- Design/Discovery – Is defined as: Administration time, design/development time, to research, locate and order materials associated directly to the CO, but not included in the original scope of work or proposal price.
- Equipment Rental – Is defined as: Charges for tools and trucks associated with the performance of a specified CO. These charges are estimated individually for each CO based on the anticipated requirements to complete the associated work. CO charges are separate from any existing contract and previously submitted CO. CO work constitutes additional work not accounted for in a contract. CO costs are incurred by the subcontractor, and are costs associated with the completion of the work. These costs are passed forward in the form of the associated equipment rental line-item charges shown.

## **Change Order #2**

April 11, 2024

Matric HG./ 115 Mason Cir.

Concord, CA 94520

### **Re: Solano Community College CUP – Temporary Chiller**

Dear Mitchell:

Syserco Inc. is pleased to present the following proposed pricing and associated scope of work for the design, installation, programming and startup of a native BACnet System as follows.

This bid is based on the following contract documents:

- Mechanical Plans dated 4/5/14 drawing 3/M-7.1-0

### **Scope of Work**

- 1. Provide controls signal from the nearest BMS controller Building 1700 chilled water pump VFD.**

**Exclusions:** We specifically exclude all work not included in our Scope of Work above, including, but not limited to the following:

1. Commissioning Agent support is specifically excluded. This includes generation of TPs/TFs, IQ/OQ and/or PQ documents/procedures and/or execution/execution assistance of said procedures.
2. Smoke Control is specifically excluded and to be provided by Fire Alarm Contractor.
3. Smoke detectors supplied, installed, powered, controlled, interlocked to mechanical equipment by others.
4. Smoke Dampers and Smoke/Fire Dampers supplied, installed, powered, monitored and controlled by others.
5. All control wiring and/or installation of “ship loose” not directly connected to BAS hardware or BAS communications network is excluded unless noted above.
6. Automatic Control Dampers shall be supplied/installed by Mechanical Contractor.
7. 120V Power to all control and transformer panels is by Electrical Contractor.
8. All gauges, thermometers and other indicating devices supplied, installed, tubed by others.
9. Roof Penetrations, flashing, roof repair/patching and Wall/Floor cutting/patching/painting is excluded.
10. Motor Starters, Variable Frequency Drives and their installation is excluded.
11. The installation of all plumbing / inline devices and related items is excluded.
12. Cost for permits is excluded. If permits are needed they are to be procured by GC/Owner.
13. Overtime is excluded.

**Terms and Conditions:** This quotation is subject to acceptance within 45 calendar days and to all of the terms and conditions contained below.

1. This proposal will constitute the Scope of Work under Client's contract with Syserco Inc.
2. Syserco's quotation specifically excludes any “Pre-Payment” or “Early Payment” discounts. If contractor plans on enforcing any discount clause, the appropriate amount to offset any discount percentage is to be added to Syserco's final contract value.



3. A joint-check agreement is required between Syserco Inc. and Client unless Client has previously established satisfactory credit with Syserco Inc. Credit ratings are based solely on Syserco Inc.'s methods for determining credit worthiness and may change to reflect recent credit history.
4. Syserco is bondable, however the cost of bonds is not included and if required, shall be an additional expense to Client.
5. No work will commence on project, including engineering submittals until receipt of mutually agreeable contract that shall include, but not be limited to satisfactory progress payments, no special or limited consequential damages and all other terms no less favorable than the Contractor has with the owner.

**Proposed Pricing:**

**Change Order Scope: \$4,422.00**

I appreciate the opportunity to provide you with this proposal and look forward to our future involvement on this project. If you have any questions or additional requests, please do not hesitate to call me at (916) 268-0555.

Sincerely,

Syserco Inc.



# BAYSIDE INSULATION, INC.

To: MatrixHG

Proposal No: 249410 rev1

Date: 04/10/2024

Attn: Mitchell Lake

Phone:

Proposal: Insulate Added Temp Chilled Water Piping, Solano Central Plant, Fairfield, CA.

We propose to furnish all labor and materials required for the work outlined in this proposal at the price stated herein subject to the following specifications and plans.

## **Scope of Work:**

**Insulate the new Temporary 14" Chilled Water piping. This quote applies to insulate the new straight section of pipe and new jacketing on the entire pipe and elbows to match the existing.**

**Insulate the temporary 8" piping and hoses with duct wrap. Cover the duct wrap with plastic sheeting for moisture protection.**

## **Proposal**

**Connection to 14" Pipe Riser                      \$3,900.00**

**Temporary Pipe and Hoses                         \$3,200.00**

## **Conditions:**

Bid price is based on area wages and benefits, including travel.

## **Exclusions:**

Overtime premiums, demo, scaffold, HVAC ducts, refrigeration piping, plumbing, existing piping except at point of connection, chiller bodies, fire stopping.

## **Terms:**

- This bid is conditioned upon a forty (40) hour work week with work hours 7:00 A.M. to 5:00 P.M., Monday through Friday (or other mutually agreed work hours) and is subject to acceptance within 30 days. It is also subject to our regular contract terms of net cash upon completion with payment of 90% of all labor expended and material delivered each month due and payable on the 10<sup>th</sup> of the following month and the balance 30 days thereafter.*

ACCEPTED: Date: \_\_\_\_\_

By \_\_\_\_\_

Respectfully Submitted:

**BAYSIDE INSULATION, INC.**

Phillip J. Ramirez

License 991280

1635 Challenge Drive • Concord, CA 94520

Tel. (925) 288-8960 • Fax (925) 288-8970