# ARCHITECTURAL

6 General Architectu 1/4" = 1'-0"	iral S	She	ets GENI	ERA	AL ARCI	HITECT	URAL S	HEETS							Sheet
COVER SHEET															A0.0
PROJECT OPTIONS SC	HED	DUL	E												A0.0.1
TYPICAL KEY PLAN AN	D SO	СНЕ	EDUL	Ε,	GEN NO	DTES									A0.1
SIGNAGE AND SYMBOL	LS														A0.2
DSA-103 T&I CONCRET	E FL	00	DRS												A0.3
DSA-103 T&I PLYWOOD	) FL	OC	RS												A0.4
CALGREEN SPEC'S															A0.5
CALGREEN SHEET															A0.6
CALGREEN SHEET															A0.7
CALGREEN SHEET															A0.8
5 Floor Plan Details 1/4" = 1'-0" ARCHITECTURAL FLOOR PLANS									Sheet						
x Floor Plans			<b>x</b> Flo	oor	Plan - 2	4'x40'									A1.0
					Plan - 3										A1.1
			🗆 Fle	oor	Plan - 4	8'x40'									A1.2
Arch Floor Framing	g De	tails	AR	СН	ITECTU	RAL FL	DOR FF	RAMING	DETA	ILS					
1/4 - 1-0															Sheet
🕱 Wood Floor								1	2		3	4	5	6	A2.9
Concrete Floor								7	8		9	10	11	12	A2.9
2 Wall Schedule 1/4" = 1'-0"					ARCHI	TECTUF	RAL WA	ALL DET	AILS						
Wood Studs							De	etail							Sheet
	Do	or	M	_	Window	v Corner	HVAC	Top PL	T6" SE	<b>P</b> 1	-HR OPT 1	1-HR OPT 2	2 EXT HDR	INT HDR	
🕱 Sheating	8	9	2 3		11	1	16	17	5		х	х	10A	10B	A2.1(A)
□ Sheating	8	9	23	4 5	11	1	16	17	5		х	x	10A	10B	A2.1(B)
□ Plaster	8	9	3 4	5	11	1	16	17	5		х	x	10A	10B	A2.2
□ 1-HR Sheating	8	9	2 3	4 5	11	1	16	17	5		-	-	10A	-	A2.5(A)
□ 1-HR Sheating	8	9	23	4 5	11	1	16	17	5		-	-	10A	-	A2.5(B)
□ 1-HR Plaster	8	9	23	1 5	11	1	16	17	4				10A	1	A2.6

ARCHITECTURAL CEILING PLANS

□ Single OCC. Bathroom □ Single OCC. Bathroom

4 Ceiling Plans 1/4" = 1'-0"

□ Additional Fire Rating Details and Notes

9 P 1 Plumb 10 N MISCELLA

A3.0 A3.1

A3.1.1

Sheet

Mechanio Plans:

Reflected Ceiling X 24' x 40' A3.2 X 8 (2'x4') Recessed Light Fixture □ 12 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light Plans: A3.2 A3.2 □ 12 (2'x4') Recessed Light Fixture □ 36' x 40' □ 16 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light A3.2 □ 16 (2'x4') Recessed Light Fixture A3.2 □ 48' x 40' □ 18 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light A3.2 A3.2.1 Celing Notes  $\bigcirc 3 \qquad \begin{array}{c} \text{Ceiling Details} \\ 1/4" = 1'-0" \end{array}$ ARCHITECTURAL CEILING DETAILS Celing Framing Detail Sheet Access BLK'G Wall Joists SEE PLAN SEE PLAN SEE PLAN SEE PLAN X T-GRID A3.3 □ Wood A3.4 Тур 5 1 2 7 Roof Plans 1/4" = 1'-0" ARCHITECTURAL ROOF PLANS Sheet □ Mono A4.2.1 □ EPDM A4.0.1 Standing Seam Parapet A4.4.1 🗙 Dual A4.2.2 □ EPDM A4.0.2 🕱 Standing Seam 22 Roof Details 1/4" = 1'-0"ARCHITECTURAL ROOF DETAILS □ Mono Sheet A4.3 EPDM A4.1 Standing Seam A4.5 □ Parapet 🗙 Dual A4.3 EPDM A4.1 🕱 Standing Seam 8 Arch Building Section 1/4" = 1'-0" ARCHITECTURAL BUILDING SECTION 🗆 Mono Sheet A6.3 □ EPDM A6.0 Standing Seam 🗙 Dual A6.1 □ EPDM A6.0.1 🕱 Standing Seam A6.2 Section

## ARCHITECTURAL

		Detail She				ail	Sheet
Exterior Elevations:	🗙 24'x40'	Left	Right		Front	Rear	
	□ Mono Slope	1	2	A5.0	1	2	A5.1
	Parapet Roof - Mono Slope	3	4	A5.0	3	4	A5.1
	🕱 Dual Slope	5	6	A5.0	1	2	A5.1
	□ 36'x40'						
	Mono Slope	1	2	A5.0	5	6	A5.1
	Parapet Roof - Mono Slope	3	4	A5.0	7	8	A5.1
	□ Dual Slope	5	6	A5.0	5	6	A5.1
	□ 48'x40'						
	Mono Slope	1	2	A5.0	9	10	A5.1
	<ul> <li>Parapet Roof - Mono Slope</li> </ul>	3	4	A5.0	11	12	A5.1
<ul> <li>Interior Elevation</li> </ul>	<ul> <li>Parapet Roof - Mono Slope</li> <li>Dual Slope</li> </ul>		4	A5.0 A5.0	11 9	12 10	A5.1 A5.1
14 Interior Elevation 1/4" = 1'-0"	<ul> <li>Parapet Roof - Mono Slope</li> <li>Dual Slope</li> </ul>	3	6	A5.0 NS			
	Parapet Roof - Mono Slope     Dual Slope	3	6	A5.0 NS De	9		A5.1
1/4" = 1'-0"	Parapet Roof - Mono Slope     Dual Slope	3	6 EVATIO	A5.0 NS De ft Right	9 etail	10	A5.1
1/4" = 1'-0"	□ Parapet Roof - Mono Slope □ Dual Slope ONS ARCHITECTURAL INTE ARCHITECTURAL INTE 24'x40' 36'x40'	3	6 EVATIO	A5.0 NS De ft Right 2	9 etail Front	10 Rear 4 6	A5.1 Sheet
Interior Elevations:	□ Parapet Roof - Mono Slope □ Dual Slope ONS ARCHITECTURAL INTE ARCHITECTURAL INTE ARCHITECTURAL INTE 36'x40' □ 36'x40' □ 48'x40'	3	6 EVATIO Le	A5.0 NS De ft Right 2 2	9 etail Front 3	10 Rear 4	A5.1 Sheet A5.2
Interior Elevations:	□ Parapet Roof - Mono Slope □ Dual Slope ONS ARCHITECTURAL INTE ARCHITECTURAL INTE 24'x40' 36'x40'	3 5 ERIOR EL	6 EVATIO Le 1 1 1	A5.0 NS De ft Right 2 2	9 etail Front 3 5	10 Rear 4 6	A5.1 Sheet A5.2 A5.2
$\frac{14}{1/4"} = 1'-0"$	□ Parapet Roof - Mono Slope □ Dual Slope ONS ARCHITECTURAL INTE ARCHITECTURAL INTE 24'x40' □ 36'x40' □ 48'x40' OPTIONS DETAILS	3 5 ERIOR EL	6 EVATIO Le 1 1 1	A5.0 NS De ft Right 2 2	9 etail Front 3 5	10 Rear 4 6	A5.1 Sheet A5.2 A5.2 A5.2
$\frac{14}{1/4"} = 1'-0"$	<ul> <li>Parapet Roof - Mono Slope</li> <li>Dual Slope</li> </ul> ARCHITECTURAL INTE <ul> <li>ARCHITECTURAL INTE</li> <li>ARCHITECTURAL INTE</li> </ul> 9710000 ARCHITECTURAL OPTION 00000 ARCHITECTURAL INTE ADDITIONAL OPTION	3 5 ERIOR EL	6 EVATIO Le 1 1 1	A5.0 NS De ft Right 2 2	9 etail Front 3 5	10 Rear 4 6	A5.1 Sheet A5.2 A5.2 A5.2
1/4" = 1'-0" Interior Elevations: (23) ADDITIONAL C 1/4" = 1'-0"	<ul> <li>Parapet Roof - Mono Slope</li> <li>Dual Slope</li> </ul> Ons ARCHITECTURAL INTE <ul> <li>a 48'x40'</li> <li>a 48'x40'</li> </ul> OPTIONS DETAILS ADDITIONAL OPTION ONS DETAILS	3 5 ERIOR EL	6 EVATIO Le 1 1 1	A5.0 NS De ft Right 2 2	9 etail Front 3 5	10 Rear 4 6	A5.1 Sheet A5.2 A5.2 A5.2 Sheet

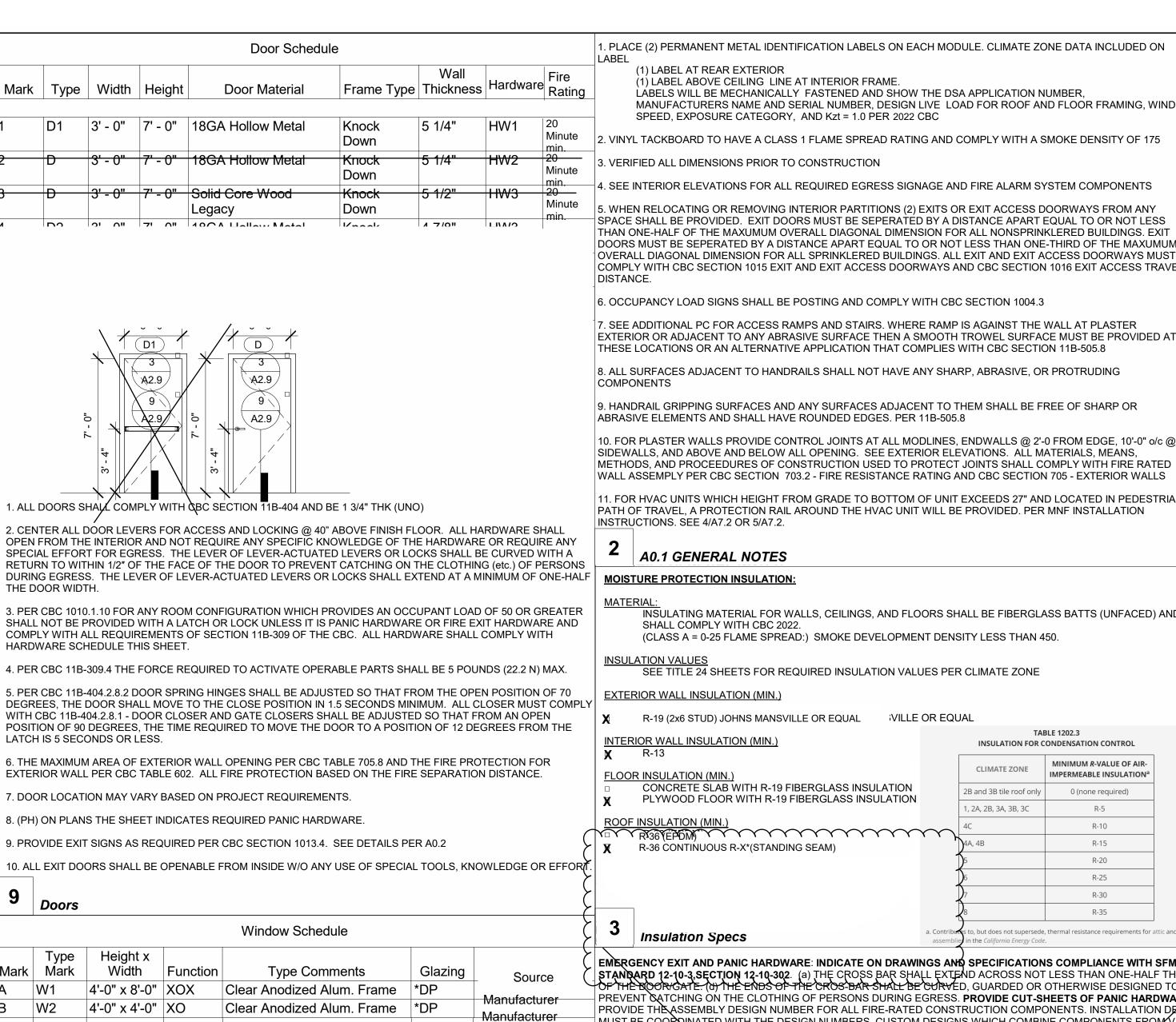
Plumbing		PLUMBING		Sheet
<u> 1/4" = 1'-0"</u> bing Details	and Schedules			P1.0
Mechanical			Sh	
1/4" = 1'-0"		MECHANICAL		
ANEOUS NOT			M0 Ceiling Plan	.1 Roof Plan
nical	<b>x</b> 24' x 40'	X Wall Mount	M5.1	M5.2
Incar		Roof Mount	M5.1	M5.2
	□ 36' x 40'		M6.1	M6.2
		Roof Mount	M6.1	M6.2
	□ 48' x 40'	□ Wall Mount	M7.1	M7.2
		Roof Mount	M7.1	M7.2
	□ 60' x 40'	□ Wall Mount		
		Roof Mount		
	□ 72' x 40'	□ Wall Mount		
		Roof Mount		
	□ 84' x 40'	□ Wall Mount		
		Roof Mount	A0	0.1
	□ 96' x 40'	□ Wall Mount		
	4001 401	Roof Mount		
	□ 108' x 40'	□ Wall Mount		
	□120' x 40'	□ Roof Mount □ Wall Mount		
	L 120 X 40	Roof Mount		
Electrical				
<u>1/4" = 1'-0"</u>		ELECTRICAL	She	eet
ed Ceiling	t 24' x 40'	x 8 (2'x4') Recessed Light Fixture		
		<ul> <li>12 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light</li> </ul>	E1.0	E1.1
	□ 36' x 40'	12 (2'x4') Recessed Light Fixture		
		□ 18 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.2	E1.3
	□ 48' x 40'	16 (2'x4') Recessed Light Fixture		
		□ 24 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.4	E1.5
	□ 60' x 40'	□ 20 (2'x4') Recessed Light Fixture □ 30 (1'x8') Pendant Light w/ 4		
		(1'x16') Recessed Light		
	□ 72' x 40'	□ 24 (2'x4') Recessed Light Fixture		
		□ 36 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 84' x 40'	□ 28 (2'x4') Recessed Light Fixture		
		□ 42 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 96' x 40'	□ 32 (2'x4') Recessed Light Fixture		
		□ 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 108' x 40'	□ 36 (2'x4') Recessed Light Fixture		
		□ 54 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 120' x 40'	□ 40 (2'x4') Recessed Light Fixture		
		□ 60 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		

	STRUCTURAL	
15 Foundations Plans 1/4" = 1'-0"	FOUNDATION	
X Wood		Sheet
Foundation	Wood Foundation NOTES SCHED FOR BLDG W/ 50+15	F1.10
Plan:	🕱 24'x40' (50+15 PSF)	F1.11
	□ 24'x40' (100 PSF)	F1.21
	□ 24'x40' (150 PSF)	F1.31
	□ 36'x40' (50+15 PSF)	F1.12
	□ 36'x40' (100 PSF)	F1.22
	□ 36'x40' (150 PSF)	F1.32
		<b>F4 40</b>
	□ 48'x40' (50+15 PSF)	F1.13
	□ 48'x40' (100 PSF)	F1.23
	□ 48'x40' (150 PSF) Wood Foundation Details	F1.33 F1.40
□ Concrete Foundation Plan		F1.40 F2.10
Concrete Above Grade Foundation Details		F2.20
□ Concrete Below Grade Foundation Details		F2.20
		F2.23
(16) General Structural Sheets		
<u> </u>	GENERAL STRUCTURAL SHEETS	Sheet
STRUCTURAL GEN NOTES		S0.1
$\begin{array}{c} 17 \\ 1/4" = 1'-0" \end{array}$	RUCTURAL FLOOR FRAMING PLANS	
₩Wood		Sheet
Sheating Floor:	x (50+15 PSF)	S1.01
	□ (100 PSF)	S1.02
	□ (150 PSF)	S1.03
Framing Floor:	□ (50+15 PSF)	S1.1.1
	□ (100 PSF)	S1.1.2
(19) Floor Framing Details	□(150 PSF)	S1.1.3
1/4" = 1'-0"	RUCTURAL FLOOR FRAMING DETAILS	Sheet
Wood Framing		S1.2
Concrete Framing		S1.2
18 Roof Framing Plans ST 1/4" = 1'-0"	RUCTURAL ROOF FRAMING PLANS	Sheet
□ Mono Slope Roof Framing		S3.0.1
🕱 Dual Slope Roof Framing		S3.0.2
ST	RUCTURAL DETAILS ROOF	Sheet
STRUCTURAL DETAILS		S3.1
ROOF DETAILS(SOFFIT/ PARRAPET)		\$3.2
ROOF PERIMETER TRUSS		S3.3
20 Wall Framing Details		
1/4" = 1'-0"	RUCTURAL WALL FRAMING DETAILS	
Wood:		Sheet
X Framing Elevation		S4.1
🗙 Wall Details 🕱 Typ Framing:		S4.2 S4.4
χ Framing Schedule:		S4.4 S4.5
		34.5

21) Building Section 1/4" = 1'-0"	
⊐ Mono	
<b>x</b> Dual	

STRUCTURAL BUILDING SECTION	Sheet
	S5.0
	S5.1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC:
DATE: 09/28/2023
<b>TS</b> ARES
DESIGN ♦ CONSULTING ♦ PROJECT MGT 11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP
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IN PROFESSIONAL
日本 Exp. 03/31/24 第 一次 一次 一次 一次 一次 一次 一次 一次 一次 一次
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05/24/23
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R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE
PLANS SHALL NOT BE USED, IN WHOLE OF IN PART, FOR ANY PURPOSE FOR WHICH
THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S
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Leasing
1651 SOUTH JUANITA STREET SAN JACINTO CA. 92581
VOICE (951) 943-1908 FAX (951)943-5768
ORIGINAL PC STATE AGENCY APPROVAL
× /
APPROVED DIV OF THE STATE ARCHITECT
APP: 04-121369 PC
REVIEWED FOR
SS I FLS I ACS I CG I DATE: 09/22/2023
Revision Schedule
# Description Date
·
PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
CODE: 2019 CBC A separate project application for constructio is required
CODE: 2019 CBC A separate project application for constructio is required PROJECT TITLE
CODE: 2019 CBC A separate project application for constructio is required PROJECT TITLE PC 2022 CBC: 24' x 40'
CODE: 2019 CBC A separate project application for constructio is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO
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CODE: 2019 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40' SHEET TITLE PROJECT OPTIONS SCHEDULE PROJECT NUMBER 22088 DRAWN BY rMc/SC CHECKED BY
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CODE: 2019 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40' SHEET TITLE PROJECT OPTIONS SCHEDULE PROJECT NUMBER 22088 DRAWN BY rMc/SC CHECKED BY RH/RT DATE 06/15/2021





8

9

Mark

W3

W4

21Ø

21Ø

NFRC LABELS SHALL STAY ON THE

FENESTRATION PRODUCTS UNTIL THE

INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT

MATCH THE WINDOW SCHEDULE OPERABLE CONTRAL DEVICE SEE 8A/A0.1 WINDOW LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS. SAFETY GLAZING MUST BE APPROPRIATELY MARKED AND IDENTIFIED. WINDOW - 3/4" INSULATING GLASS UNIT PERFORMANCE U-VALUE : 0.35 SHGC : 0.24 VT : 0.5 ABBREVIATIONS DP - DUAL PANE - TEMPERED GLASS NEW BUILDINGS THAT ARE INCLUDED IN PUBLIC SCHOOLS (KINDERGARTEN THROUGH 12TH GRADE) SHALL INCLUDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. THE LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS FOUND IN SECTION 1010.1.9 Education Code 17075.50, Windows <del>- 11" , 11' - 11"</del> , 11' - 11" , 11' - 11" , 11' - 11" , 11' - 11" , 11' - 11" , 11' - 11" , 11' - 11" , 11' - 11" 120x40 (Total Area 4800sf)

NOTE: ALL FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENINGS SHALL SECTION 716 CBC.

46" MAX w/ OBSTRUCTION FOR SIDE APPROACH

ACCESSIBLE KNEE/TOE SPACE

FIXED

44" MAX w/ OBSTRUCTION FOR FRONT APPROACH

OVER 24" DEEP X 34" MAX HIGH OBSTRUCTION WITH

SOLAR TUBE

SOLAR TUBE

8' - 0

FIXED

Ŵ'

120x40

AREA = 4800S

FF 8/A0.

SEE NOTE 1.

COMPLY WITH THE PROVISIONS OF

Manufacturer

Manufacturer

# OPERABLE CONTROL DEVICE

14

11' - 11

11' - 11"

ALL PARTITION ADDED TO BE SUBMITTED FOR APPROVAL WITH SITE SPECIFIC STATE AGENCY APPROVAL. 48x40 (Total Area 1920sf)

SEE 8/A0.2

108x40 AREA = 4320SF

108x40 (Total Area 4320sf

MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND

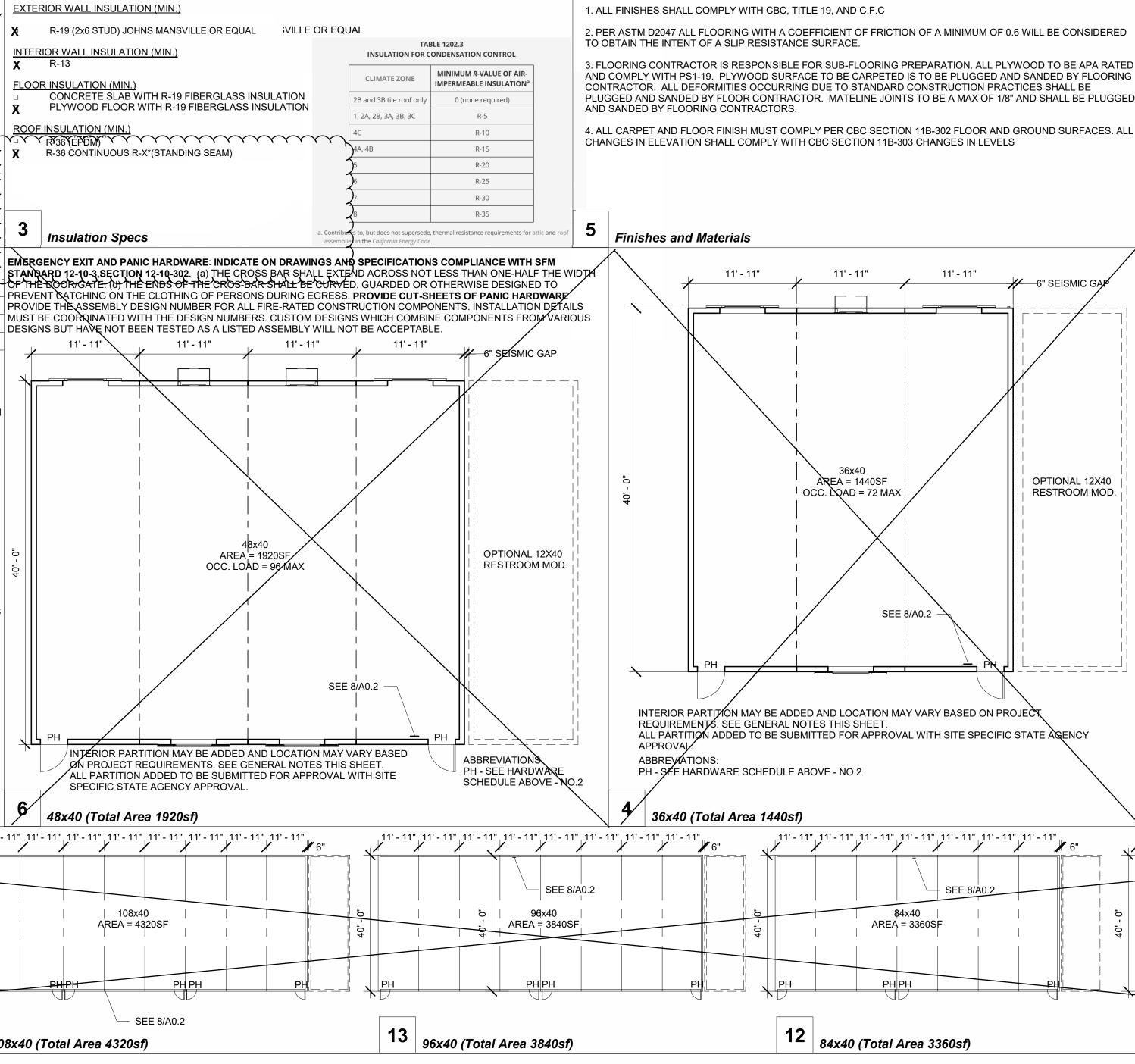
SPACE SHALL BE PROVIDED. EXIT DOORS MUST BE SEPERATED BY A DISTANCE APART EQUAL TO OR NOT LESS THAN ONE-HALF OF THE MAXUMUM OVERALL DIAGONAL DIMENSION FOR ALL NONSPRINKLERED BUILDINGS. EXIT DOORS MUST BE SEPERATED BY A DISTANCE APART EQUAL TO OR NOT LESS THAN ONE-THIRD OF THE MAXUMUM OVERALL DIAGONAL DIMENSION FOR ALL SPRINKLERED BUILDINGS. ALL EXIT AND EXIT ACCESS DOORWAYS MUST COMPLY WITH CBC SECTION 1015 EXIT AND EXIT ACCESS DOORWAYS AND CBC SECTION 1016 EXIT ACCESS TRAVEL

EXTERIOR OR ADJACENT TO ANY ABRASIVE SURFACE THEN A SMOOTH TROWEL SURFACE MUST BE PROVIDED AT

10. FOR PLASTER WALLS PROVIDE CONTROL JOINTS AT ALL MODLINES, ENDWALLS @ 2'-0 FROM EDGE, 10'-0" o/c @

11. FOR HVAC UNITS WHICH HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" AND LOCATED IN PEDESTRIAN

INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND



		1 1001	Dase	TION	LOIL	rtour	ragin	Type	110.		
CLASSRO	DOM	Carp.	4" TS	Tack	Tack	Tack	Tack	CP	8'-6"		
LASSROO	<del>M w/ PH</del>	Carp.	-4" TS-	Tack	Tack	Tack	Tack	CP	<u>8'-6"</u>		
SINGLE C	ec.	<del>SV</del>	6" TS	FRP	FRP	FRP	FRP	CP	<del>8'-0"</del>		
SINGLE C	CC.	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"		_
bbreviatio	<u>ns:</u>										
FLOORIN		<u> </u>			עד 1. דע					4600; DIRECT GLUE	.
U	ARP:		WN WN			PEAUR	TIPE D;	ULA55 2;	DENSIT	4000; DIRECT GLUE	·
S	V:	SH	EET VINYL		IG						
V	CT:	VIN	NYL COMP	OSITION I	ILE						
BASE	" TS:	<u>۸</u> ۳ -	TOP SET B	ASE							
6'	" TS:	6" -	TOP SET B	ASE							
WALLS											
T	ACK:	1/2	" VINYL TA	CKBOAR	D CLASS 1	OVER 1/2	' GYPSUM	BOARD B	ACKING		
F	RP:	1/8	" FIBER RE	EINFORCE	D PANEL	OVER 1/2"	WATER RI	ESISTANT	GYPSUM	BOARD	_
G	YP:	1/2	" GYPSUM	BOARD;	TAPE; TE	XTURE; P	AINTED FI	NISH			
Р	LY:	1/2	" PLYWOC	D FINISH							
N	F:		FINISH SO			SE					
	1.			J. U OLLI		0L					
<u>CEILING</u> C	P:	AC	OUSTICAL	LAY IN GI	RID CEILIN	IG PANELS	6				
н	C:						AINTED FII	NISH			
G	iBP:	1/2	" GYPSUM	BOARD V	VASHABLE	PANELS	(PAINTED)				

**Finish Schedule** 

Floor Base Front Left Rear Right

Flooring

Room Number

Wall Finish

Ceiling

Ht.

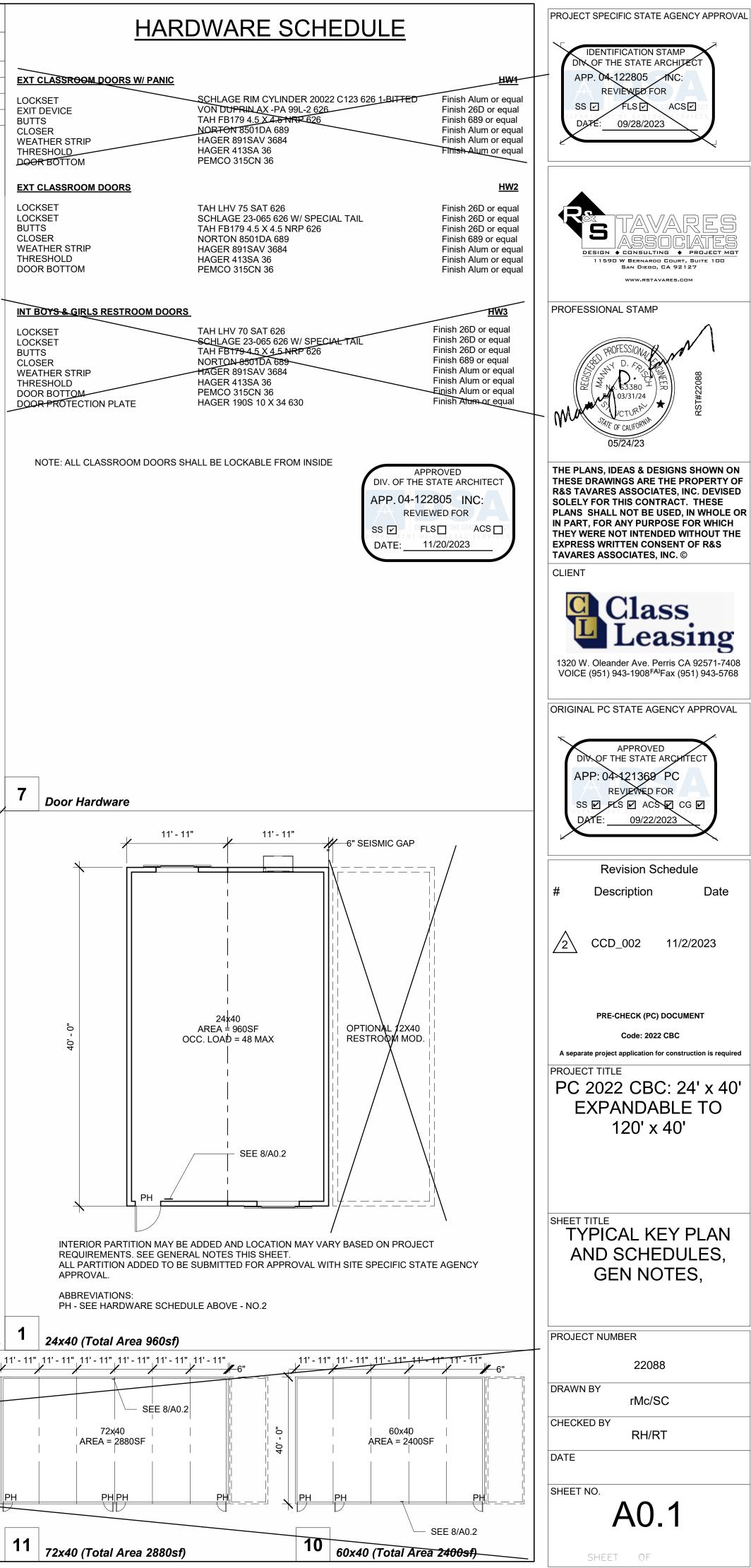
Type

Notes

Finishes Notes

2. PER ASTM D2047 ALL FLOORING WITH A COEFFICIENT OF FRICTION OF A MINIMUM OF 0.6 WILL BE CONSIDERED

3. FLOORING CONTRACTOR IS RESPONSIBLE FOR SUB-FLOORING PREPARATION. ALL PLYWOOD TO BE APA RATED AND COMPLY WITH PS1-19. PLYWOOD SURFACE TO BE CARPETED IS TO BE PLUGGED AND SANDED BY FLOORING PLUGGED AND SANDED BY FLOOR CONTRACTOR. MATELINE JOINTS TO BE A MAX OF 1/8" AND SHALL BE PLUGGED



height of the character.

raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

11B.703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

11B.703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

11B.703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

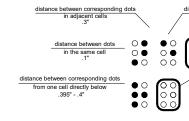


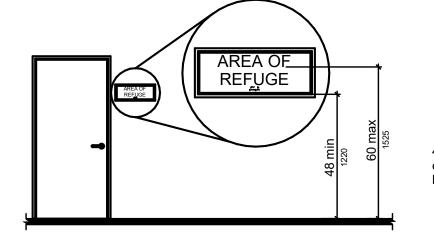
Figure 703.3.1 Braille Measurement

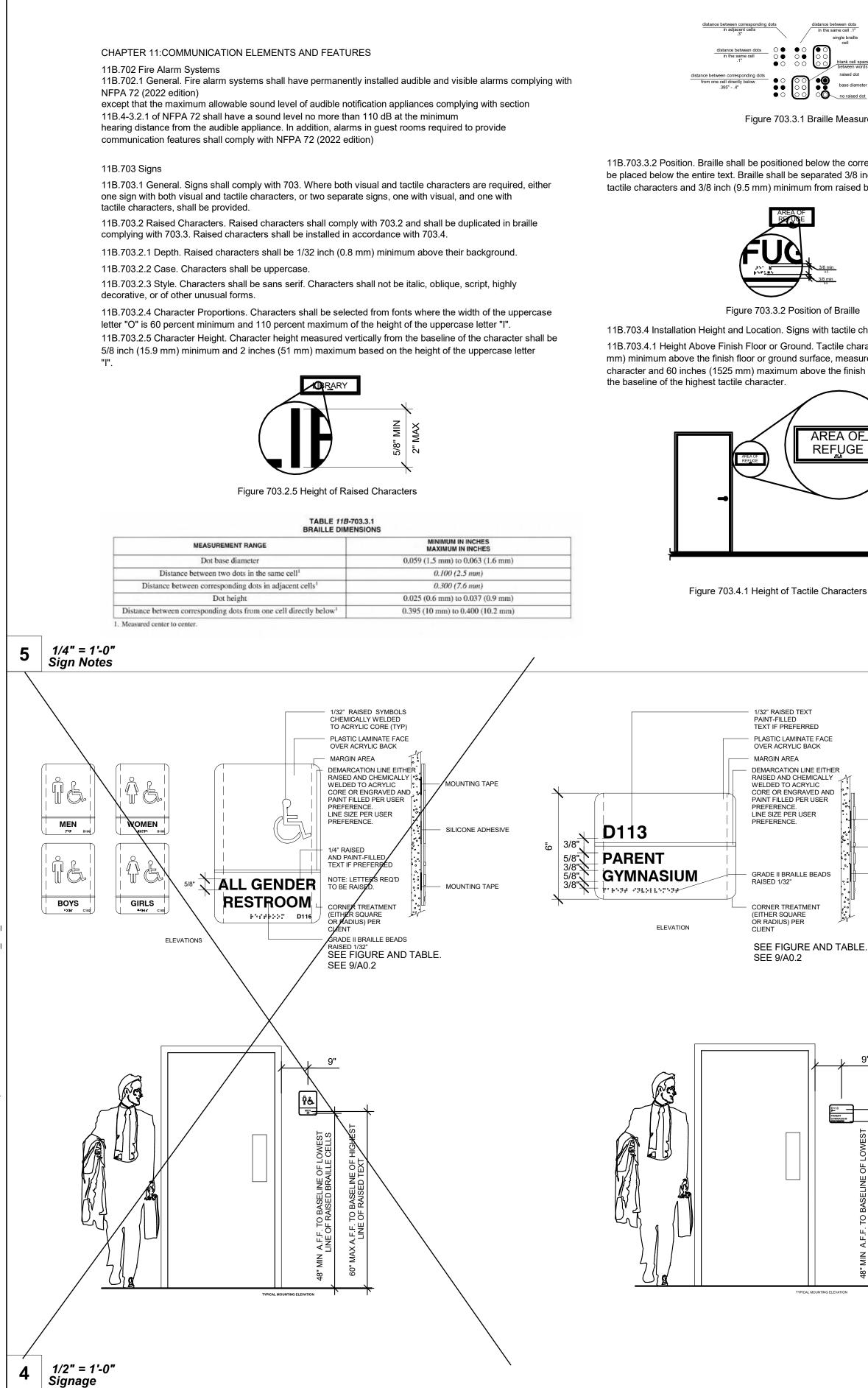
11B.703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.



Figure 703.3.2 Position of Braille

11B.703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4. 11B.703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest braille character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from





11B.703.2.6 Stroke Thickness for raised characters. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the

# 11B.703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent

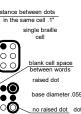
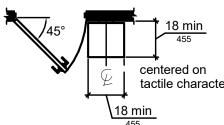


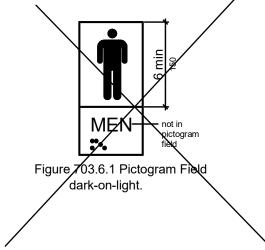
Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

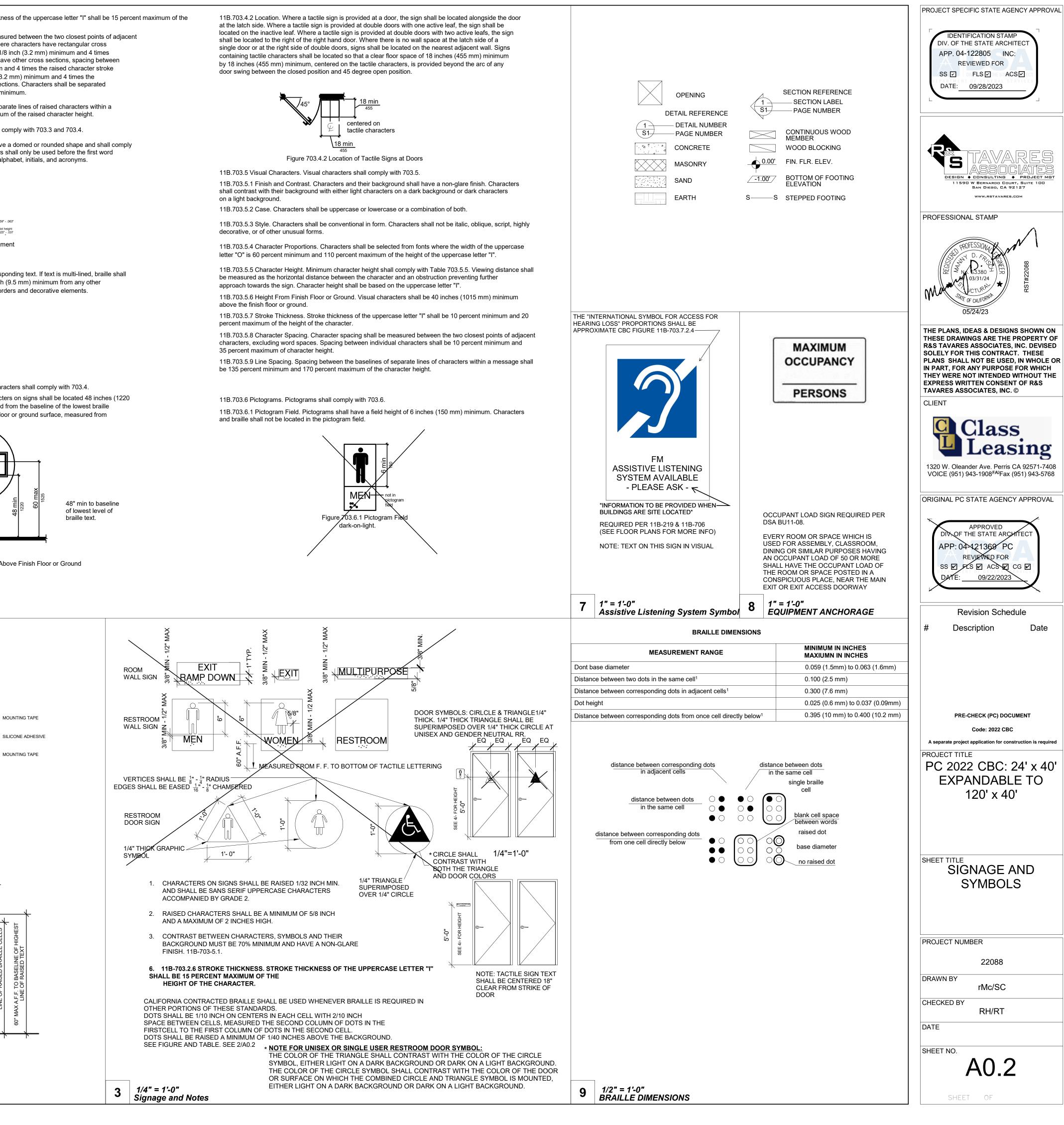
at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum



decorative, or of other unusual forms.

letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".





#### DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC Application Number: School Name:

11-111111 DSA File Number: Increment Number:

School District:

Date Created: 2023-05-16 13:57:04

### 2022 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

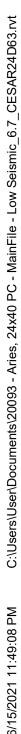
\*\*NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

	FO COLUMNS							
	1. TYPE			2. PERFORMED BY				
<b>Con</b> t requ	t <b>inuous</b> – Indicates that a continuous special inspection is ired		performe represent LOR (Lab	oratory of Record) – Indicates that the test or special inspection shall				
	<b>Ddic</b> – Indicates that a periodic special inspection is required – Indicates that a test is required		and Acce PI (Projec by a proje inspector	when specifically approved by DSA.				
				al Inspection) – Indicates that the special inspection shall be performed propriately qualified/approved special inspector.				
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND A	LUMINUM USE	D FOR STRUCTUR	RAL PURPOSES				
	Test or Special Inspection	Туре	Performed By	Code References and Notes				
	<ul> <li>a. Verify identification of all materials and:</li> <li>Mill certificates indicate material properties that comply with requirements.</li> <li>Material sizes, types and grades comply with requirements.</li> </ul>			Table 1705A.2.1 Item 3a3c. 2202A.1; AISI S100-20 Section A3.1 &A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * Byspecial inspector or qualified technician when performed off-site.				
$\checkmark$	<b>b</b> . Test unidentified materials	Test	LOR	2202A.1.				
✓	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.				
$\checkmark$	<b>d</b> . Verify and document steel fabrication per DSA- approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses ( <b>1705A.2.4</b> ).				
	S/A3. WELDING:			•				
	Test or Special Inspection	Туре	Performed By	Code References and Notes				
<b>V</b>	<b>a</b> . Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	<b>1705A.2.5, Table 1705A.2.1 Items 4 &amp; 5</b> ; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.				
$\checkmark$	<b>b</b> . Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.				
$\checkmark$	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.				
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			•				
	Test or Special Inspection	Туре	Performed By	Code References and Notes				
$\checkmark$	<b>a</b> . Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1         4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.				
$\checkmark$	<b>b</b> . Inspect single-pass fillet welds $\leq 5/16''$ , floor and roof deck welds.	Periodic	SI	<b>1705A.2.2, Table 1705A.2.1 Items 5a.5 &amp; 5a.6</b> ; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.				
$\checkmark$	c. Inspect welding of stairs and railing systems.	Periodic	SI	<b>1705A.2.1</b> ; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.				
	Test or Special Inspection	Туре	Performed By	Code References and Notes				
	S/A6. NONDESTRUCTIVE TESTING:							
	Test or Special Inspection	Туре	Performed By	Code References and Notes				
	a. Ultrasonic	Test	LOR	<b>1705A.2.1, 1705A.2.5</b> ; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.				
✓	<b>b</b> . Magnetic Particle	Test	LOR	<b>1705A.2.1, 1705A.2.5</b> ; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.				

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form 2. DSA 292

NOTE: THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC BEING INCORPORATED INTO AND EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.



DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC		PROJECT SPECIFIC STATE AGENCY APPROVAL
Application Number:         School Name:         School District:           11-111111         1         1		
DSA File Number: Increment Number: Date Created: 2023-05-16 14:08:48		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
2022 CBC IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project.		APP. 04-122805 INC: REVIEWED FOR
Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed		
on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but	DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC         Application Number:       School Name:         School District:	DATE: 09/28/2023
not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).	11-111111     11       DSA File Number:     Increment Number:       Date Created:	
**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.	2023-05-16 14:19:31	
KEY TO COLUMNS     2. PERFORMED BY	2022 CBC	
GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized	<b>IMPORTANT</b> : This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer	
Continuous – Indicates that a continuous special inspection is       representative.         required       LOR (Laboratory of Record) – Indicates that the test or special inspection shall	of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special	<b>TS</b> IAVARES
be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.	inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but	DESIGN ♦ CONSULTING ♦ PROJECT MGT 11590 W Bernardo Court, Suite 100 San Diego, CA 92127
Periodic – Indicates that a periodic special inspection is required       PI (Project Inspector) – Indicates that the special inspection may be performed         by a project       PI (Project Inspector) – Indicates that the special inspection may be performed	not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).	WWW.RSTAVARES.COM
Test – Indicates that a test is required       inspector when specifically approved by DSA.         SI (Special Inspection) – Indicates that the special inspection shall be performed	**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.	PROFESSIONAL STAMP
by an appropriately qualified/approved special inspector. Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report	KEY TO COLUMNS	
S1. GENERAL:	1. TYPE     2. PERFORMED BY	AND PROFESSIONAL
Test or Special Inspection       Type       Performed By       Code References and Notes         Image: Code References and Notes       Image: Code References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References and Notes       Image: References and Notes       Image: References and Notes         Image: Code References </td <td>GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized</td> <td></td>	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized	
<ul> <li>Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.</li> <li>Foundation excavations are extended to proper</li> </ul>	Continuous – Indicates that a continuous special inspection is representative.	
depth and have reached proper material.         • Materials below footings are adequate to achieve the design bearing capacity.	LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation	ATTE OF CALIFORNIA
S2. SOIL COMPACTION AND FILL:	Periodic – Indicates that a periodic special inspection is required       and Acceptance (LEA) Program. See CAC Section 4-335.	05/24/23
Test or Special Inspection       Type       Performed By       Code References and Notes         Image: Special Inspection       Type       Performed By       Code References and Notes         Image: Special Inspection       a. Verify use of proper materials, densities and inspect lift       Continuous       LOR*       * Under the supervision of a geotechnical engineer or LOR's	PI (Project Inspector) – Indicates that the special inspection may be performed         by a project	THE PLANS, IDEAS & DESIGNS SHOWN ON
thicknesses, placement and compaction during placement of fill.       engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.         Image: Description of fill.       Image: Description of a geotechnical engineer or LOR's	Test – Indicates that a test is required       inspector when specifically approved by DSA.	THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED
engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.	SI (Special Inspection) – Indicates that the special inspection shall be performed         by an appropriately qualified/approved special inspector.	SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH
C1. CAST-IN-PLACE CONCRETE       Test or Special Inspection       Type       Performed By       Code References and Notes	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES         Test or Special Inspection       Type         Performed By       Code References and Notes	THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S
Image: Construction of the state of the	Image: Type       Tendined by       Code References and Notes         Image: Type       Tendined by       Tendined by         Image: Type       Tendit	TAVARES ASSOCIATES, INC. ©
Image: Boldentifiy, sample, and test reinforcing steel.       Test       LOR       1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)	Mill certificates indicate material properties that comply with requirements.     A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.	CLIENT
Image: C. During concrete placement, fabricate specimens     Test     LOR     Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.       for strength tests, perform slump and air content     tests, and determine the temperature of the     Test	Material sizes, types and grades comply with requirements.	<b>Ç</b> lass
Image: State of the temperature of the concrete.       Image: State of the temperature of the concrete (f c).       Image: State of the temperature of the concrete (f c).       Image: State of the temperature of the concrete (f c).       Image: State of temperature of the concrete (f c).       Image: State of temperature of the concrete (f c).       Image: State of temperature of the concrete (f c).       Image: State of temperature of temperature of the concrete (f c).       Image: State of temperature of temper	Image: Dest unidentified materials     Test     LOR     2202A.1.	<b>Leasing</b>
Image: Constitution of the section	Image: Section of the sear welds of HSS shapes       Periodic       SI       DSA IR 17-3.         Image: Section of the sear welds of HSS shapes       Periodic       SI       Not applicable to cold-formed steel light-frame construction, except	1320 W. Oleander Ave. Perris CA 92571-7408
in Section <b>1705A.3.3.1</b> , or eliminated per <b>1705A.3.3.2</b> . See IR 17-13. (See Appendix (end of this form) for exemptions.)	approved construction documents.	VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
C5. POST-INSTALLED ANCHORS:	S/A3. WELDING:       Test or Special Inspection       Type       Performed By       Code References and Notes	ORIGINAL PC STATE AGENCY APPROVAL
Test or Special Inspection       Type       Performed By       Code References and Notes         Image: See Notes       Siten Value       1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic),	Image: Type       Tenomined by       Code References and Notes         Image: Type       Tenomined by       Tenomined by         Image: Typ	ORIGINAL POSTATE AGENCT APPROVAL
<b>1705A.3.8</b> (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.	AWS designation listed on the DSA-approved documents and the WPS.       structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.	APPROVED
Image: Construction of the specific and a specifi	Image: Second state     Discond state       Image: Second state     Image: Second state       Image: Sec	DIV OF THE STATE ARCHITECT APP: 04-121369 PC
S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	compliance.     Image: Compliance in the second secon	REVIEWED FOR
Test or Special Inspection     Type     Performed By     Code References and Notes	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	SS I FLS I ACS I CG I DATE: 09/22/2023
Mill certificates indicate material properties that comply with requirements.     A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6.* By special inspector or qualified technician when performed off-site.	Test or Special Inspection       Type       Performed By       Code References and Notes         Image: Signature of the system	
<ul> <li>Material sizes, types and grades comply with requirements.</li> <li>b. Test unidentified materials</li> <li>Test</li> <li>LOR</li> <li>2202A.1.</li> </ul>	Image: Sign of the system       a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.       Continuous       Sign of the system       Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	Revision Schedule
Image: C. Examine seam welds of HSS shapes     Periodic     SI     DSA IR 17-3.	$\checkmark$ b. Inspect single-pass fillet welds $\leq$ 5/16", floor and roofPeriodicSI1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	# Description Date
Image: Sign of the steel fabrication per DSA- approved construction documents.       Periodic       Sign of the steel light-frame construction, except for trusses (1705A.2.4).	C. Inspect welding of stairs and railing systems. Periodic SI 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 &	
S/A3. WELDING:         Test or Special Inspection       Type         Performed By       Code References and Notes	Image: Dispersion     Type     D1.3; DSA IR 17-3.       Test or Special Inspection     Type     Performed By     Code References and Notes	
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents       Periodic       SI       1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	
and the WPS.     steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.       Image: Display a steel of the steel of	Test or Special Inspection     Type     Performed By     Code References and Notes	
compliance.     Periodic     SI       Image: C. Verify WPS, welder qualifications and equipment.     Periodic     SI       DSA IR 17-3.	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.       Continuous       SI       Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	
S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):         Test or Special Inspection       Type         Performed By       Code References and Notes	$\checkmark$ b. Inspect single-pass fillet welds $\leq 5/16''$ .PeriodicSITable 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	PRE-CHECK (PC) DOCUMENT
Image: Signature       a. Inspect groove welds, multi-pass fillet welds, single pass       Continuous       Signature       Table 1705A.2.1 Items 5a.1 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.	Test or Special Inspection     Type     Performed By     Code References and Notes	Code: 2022 CBC A separate project application for construction is required
$\checkmark$ b. Inspect single-pass fillet welds $\leq$ 5/16", floor and roofPeriodicSI1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); D8A IR 17-3.	S/A6. NONDESTRUCTIVE TESTING:	PROJECT TITLE
c. Inspect welding of stairs and railing systems.       Periodic       SI       1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.	Test or Special Inspection     Type     Performed By     Code References and Notes       Image: Contract of the second	PC 2022 CBC: 24' x 40'
Image: Construction of reinforcing steel weldability other than ASTM A706.       Periodic       SI       1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.         Image: Construction of the steel weldability other than ASTM A706.       Operations of the steel weldability of the steel wel	Image: Image: a. Ultrasonic         Test         LOR         1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS           D1.1, AWS         D1.8; DSA IR 17-2.         D1.1, AWS         D1.8; DSA IR 17-2.	EXPANDABLE TO 120' x 40'
Image: Sign of the section of the s	Image: Description of the second system         Test         LOR         1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS	120 X 40
Test or Special Inspection     Type     Performed By     Code References and Notes	D1.1, AWS D1.8; DSA IR 17-2.	
$\checkmark$ b. Inspect single-pass fillet welds $\leq$ 5/16".PeriodicSITable 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.	1. Structure   Testing and langesting   shareters   Verified Depart Form DCA 201	
Test or Special Inspection     Type     Performed By     Code References and Notes       S/A6. NONDESTRUCTIVE TESTING:     V	1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291	
Test or Special Inspection     Type     Performed By     Code References and Notes	Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form 2. DSA 292	SHEET TITLE DSA-103 T&I
a. Ultrasonic     Test     LOR     1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS       D1.1, AWS D1.8; DSA IR 17-2.     D1.1, AWS D1.8; DSA IR 17-2.	Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292	PLYWOOD
Image: b. Magnetic Particle         Test         LOR         1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS           D1.1, AWS D1.8; DSA IR 17-2.         D1.1, AWS D1.8; DSA IR 17-2.		FLOORS
1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291		
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291		
2 Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA		PROJECT NUMBER
<sup>3.</sup> 292 A Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form		22088
<sup>- *</sup> DSA 292 - Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA		DRAWN BY rMc/SC
<sup>3.</sup> 292		CHECKED BY
NOTES:		RH/RT
THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC BEING	NOTE: THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY.	DATE
INCORPORATED INTO AND EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.	A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC BEING INCORPORATED INTO AND EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.	SHEET NO.
IF THERE IS A GEOTECHNICAL REPORT, THE GEOTECH ENGINEER SHOULD DO THE INSPECTION INSTEAD OF PROJECT INSPECTOR (PI).		A0_4
	1	
03 PLYWOOD FLOOR (CONCRETE FOUNDATION)	DSA-103 PLYWOOD FLOOR (WOOD FOUNDATION)	SHEET OF

# UL U419 OR UL U465 (OR EQ) TO BE USED FOR INT. STC RATING. WOOD STUD MAY BE USED ILO OF MTL STUD

	Fire Test UL U419 or MEA 81- 98-M Steel Stud (Non-loadbearing) Interior Partitions Sound Test: RAL-TL11-125	Fire Rating 1 hr.	stc 40	Thickness (in.) <mark>4-7/8</mark> "	<ul> <li>Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally SHEETROCK Brand FIRECODE Core (To Steel Studs - 3-5/8 in. wide min. 25 gauge steel studs @ max 24 in. 0C - 362S125-18</li> <li>Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally SHEETROCK Brand FIRECODE Core (To Visit U419 2)</li> </ul>
4 <sup>7</sup> /s"	Fire Test UL U465	Fire Rating 1 hr.	<mark>sтс</mark> 40	Thickness (in.) 4-7/8"	<ul> <li>Gypsum Board - 5/8 in. thick board, applied vertically, attached to studs with 1 in. long, Type S -12 screws, spaced 8 along the edges and 12 in. OC of the board - SHEETROCK Brand FIRECODE Core (Type X)</li> <li>Steel Studs - 3-5/8 in. wide min. 25 gauge steel. Attached to floor and ceiling with fasteners, 24 in. OC - 362S125-18</li> <li>Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally SHEETROCK Brand FIRECODE Core (Type X)</li> </ul>
UL U457 (OR	EQ) TO BE USED FOR EXT.	STC RA	TING .	WOOD	STUD MAY BE USED ILO OF MTL STUD
	Fire Test UL U457 Steel Stud (Non-loadbearing) Interior Partitions Sound Test: USG-840222	Fire Rating 1 hr.	STC 50	Thickness (in.) 4-3/4"	<ul> <li>Cement Board - 1/2 thick board, square edge - DUROCK Brand Cement Board Next Gen</li> <li>Steel Studs - 3-5/8 in. wide by 1-1/4 in. deep, min. 20 gauge steel, max 16 in. OC - 362S125-30</li> <li>Batts and Blankets - 3 in. mineral wool batt insulation</li> <li>Gypsum Board - 5/8 in. thick gypsum board applied vertically - SHEETROCK Brand FIRECODE Core (Type X)</li> <li>Visit U457 2 U457 2</li> </ul>

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS 🗹 🛛 FLS 🗹 TESTACS 🗹 DATE: 09/28/2023 DESIGN & CONSULTING & PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM PROFESSIONAL STAMP THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF **R&S TAVARES ASSOCIATES, INC. DEVISED** SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT Leasing 1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908<sup>FAJ</sup>Fax (951) 943-5768 ORIGINAL PC STATE AGENCY APPROVAL APPROVED DIV. OF THE STATE ARCH APP: 04-121369 SS V FLS V ACS V CG **Revision Schedule** Date Description PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is require PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40' SHEET TITLE CALGREEN SPEC'S PROJECT NUMBER 22088 DRAWN BY rMc/SC CHECKED BY RH/RT DATE SHEET NO. A0.5

SHEET OF

PROJECT SPECIFIC STATE AGENCY APPROVAL

e (Type X)

e (Type X)

d 8 in. OC

-**18** e (Type X) ACOUSTIC CONTROL- When the Pre-check building is site adapted, the building and site features need to comply with the CALGreen Code, Section 5.507.4 for the specific site location, and when PC building is place adjacent to another PC building, the adjoining wall section for interior sound transmission must meet the minimum requirement of a STC rating of 40 (per 2022 CALGreen Code, Section 507.4.3).

# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **NONRESIDENTIAL MANDATORY MEASURES, SHEET 1** (January 2023)

Y N/A RESPON. PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	Y N/A RESPON. PARTY	<b>5.106.2 STORMWATER POLLUTION PRE</b> <b>LAND.</b> Comply with all lawfully enacted stor more of land, or (2) disturb less than one ac	rmwater discharge regulations for project	ts that (1) disturb one acre or			
	<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		<b>Note:</b> Projects that (1) disturb one acre or m larger common plan of development or sale applicable National Pollutant Discharge Elim Associated with Construction and Land Dist the Lahontan Regional Water Quality Contro	must comply with the post-construction nination System (NPDES) General permi urbance Activities issued by the State W	requirements detailed in the t for Stormwater Discharges ater Resources Control Board or			
	<b>301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG]</b> The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.		The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.					
	A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.							
	<b>301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:</b> <b>Note:</b> On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 <i>et seq.</i> for definitions,			n 5.106.4.1. For buildings within the aut vith Section 5.106.4.2 G Comply with Sections 5.106.4.1.1 and	hority of the Division of the State			
	types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. <b>301.3.2 Waste Diversion.</b> The requirements of Section 5.408 shall be required for additions and		to generate visitor traffic, provio entrance, readily visible to pase	<b>le parking.</b> If the new project or an add de permanently anchored bicycle racks v sers-by, for 5% of new visitor motorized v	vithin 200 feet of the visitors'			
	alterations whenever a permit is required for work. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) SECTION 302 MIXED OCCUPANCY BUILDINGS		5.106.4.1.2 Long-term bicycle tenant-occupants, provide secu	r alterations which add nine or less visito e <b>parking.</b> For new buildings with tenan ure bicycle parking for 5 percent of the te	t spaces that have 10 or more			
	<ul> <li>302.1 MIXED OCCUPANCY BUILDINGS</li> <li>302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.</li> </ul>		provide secure bicycle parking	erations that add 10 or more tenant-occu for 5 percent of the tenant vehicular parl				
	<ul> <li>SECTION 303 PHASED PROJECTS</li> <li>303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new</li> </ul>		<ul> <li>minimum of one bicycle parking facility.</li> <li><b>5.106.4.1.4</b> For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.</li> <li><b>5.106.4.1.5</b> Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 should be bicycle parking facility.</li> </ul>					
	construction (or newly constructed) shall apply. <b>303.1.1 Initial Tenant improvements.</b> The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.		be convenient from the street a 1. Covered, lockable en 2. Lockable bicycle roor	and shall meet one of the following: closures with permanently anchored rac ms with permanently anchored racks; or ly anchored bicycle lockers.				
	ABBREVIATION DEFINITIONS:         HCD       Department of Housing and Community Development         BSC       California Building Standards Commission         DSA-SS       Division of the State Architect, Structural Safety		<b>Note:</b> Additional informa Sacramento Area Bicycl	ation on recommended bicycle accommo				
	OSHPD     Office of Statewide Health Planning and Development       LR     Low Rise       HR     High Rise       AA     Additions and Alterations       N     New		5.106.4.2.1 and 5.106.4.2.2 5.106.4.2.1 Student bicycle p accessed with a minimum of fo	<b>parking.</b> Provide permanently anchored our two-bike capacity racks per new build <b>king.</b> Provide permanent, secure bicycle	bicycle racks conveniently ing.			
	CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES		with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or					
	DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL			ly anchored bicycle lockers. g. [N] Construction to provide electric ve	hicle infrastructure and facilitate ed in accordance with			
	<b>5.101.1 SCOPE</b> The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.			basis where the local enforcing agency				
	SECTION 5.102 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not		<ul> <li>this section is not feasible based upon one of the following conditions:</li> <li>a. Where there is no local utility power supply</li> <li>b. Where the local utility is unable to supply adequate power.</li> <li>c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of</li> </ul>					
	numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire. <b>LOW-EMITTING AND FUEL EFFICIENT VEHICLES.</b> Eligible vehicles are limited to the following:		2. Parking spaces ac	.5.3, may adversely impact the construct cessible only by automated mechanical of ly with this code section				
	<ol> <li>Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.</li> <li>High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.</li> </ol>		<b>[N</b> ] EV capable spaces shall requirements: 1. Raceways complyi diameter shall be p	spaces. shall be provided in accordance with Table 5.106.5.3.1 and the following nplying with the California Electrical Code and no less that 1-inch (25 mm) be provided and shall originate at a service panel or a subpanel(s) serving shall terminate in close proximity to the proposed location of the EV capable				
	<b>NEIGHBORHOOD ELECTRIC VEHICLE (NEV).</b> A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.		<ul> <li>and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may used to serve multiple EV charging spaces.</li> <li>2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EV</li> </ul>					
	<ul> <li>TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.</li> <li>VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.</li> </ul>		<ol> <li>The electrical syste to supply full rated</li> <li>The service panel protective devices</li> </ol>	em and any on-site distribution transform amperage at each EV capable space. or subpanel circuit directory shall identify space(s) as "EV CAPABLE". The racewa	ers shall have sufficient capacity the reserved overcurrent			
	Note: Source: Vehicle Code, Division 1, Section 668         ZEV. Any vehicle certified to zero-emission standards.		Note: A parking space serve charging space shall count a	isibly marked as "EV CAPABLE." d by electric vehicle supply equipment o as at least one standard automobile parki le minimum parking space requirements	ng space only for the purpose of			
	SECTION 5.106 SITE DEVELOPMENT 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a		agency. See vehicle Code S	ection 22511.2 for further details.				
	larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures: 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control		TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE) <sup>2</sup>			
	ordinance. <b>5.106.1.2 Best Management Practices (BMPs).</b> Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.		0-9 10-25	0	0			
	1. Soil loss BMPs that should be considered for implementation as appropriate for each project include,		26-50	8	2			
	<ul> <li>but are not limited to, the following:</li> <li>a. Scheduling construction activity during dry weather, when possible.</li> <li>b. Preservation of natural features, vegetation, soil, and buffers around surface waters.</li> </ul>		51-75 76-100	13 17	3 4			
	<ul><li>c. Drainage swales or lined ditches to control stormwater flow.</li><li>d. Mulching or hydroseeding to stabilize disturbed soils.</li><li>e. Erosion control to protect slopes.</li></ul>		101-150 151-200	25 35	6 9			
	<ul><li>f. Protection of storm drain inlets (gravel bags or catch basin inserts).</li><li>g. Perimeter sediment control (perimeter silt fence, fiber rolls).</li><li>h. Sediment trap or sediment basin to retain sediment on site.</li></ul>		201 AND OVER	20% of total <sup>1</sup>	25% of EV capable spaces <sup>1</sup>			
	<ul><li>i. Stabilized construction exits.</li><li>j. Wind erosion control.</li><li>k. Other soil loss BMPs acceptable to the enforcing agency.</li></ul>			nt electrical supply. EVCS (EV capable spaces provided wit EV capable spaces shown in column 2.				
	<ol> <li>Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:         <ul> <li>a. Dewatering activities.</li> <li>b. Material handling and waste management.</li> <li>c. Building materials stockpile management.</li> </ul> </li> </ol>		<b>5.106.5.3.2 Electric vehicle charg</b> EV capable spaces shall be pro 5.106.5.3.1. The EVCS required		number indicated in Table with EVSE in any combination o			
	<ul> <li>d. Management of washout areas (concrete, paints, stucco, etc.).</li> <li>e. Control of vehicle/equipment fueling to contractor's staging area.</li> <li>f. Vehicle and equipment cleaning performed off site.</li> </ul>		One EV charger with multiple c	onnectors capable of charging multiple apacity required by Section 5.106.5.3.1				
	<ul><li>g Spill prevention and control.</li><li>h. Other housekeeping BMPs acceptable to the enforcing agency.</li></ul>		accumulatively supplied to the I					

specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs. 5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVSC shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.

ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.

- Exceptions: 1. On a case-by-case basis where the local enforcing agency has determined compliance with this
- section is not feasible based upon one of the following conditions:
- Where there is no local utility power supply. b. Where the local utility is unable to supply adequate power.

5.106.5.3.3 Use of automatic load management systems (ALMS).

- c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation
- of Section 5.106.5.3, may adversely impact the construction cost of the project. When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California

### Electrical Code and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces. [N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare

raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:

- 1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
- 2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table
- 5.106.5.4.1 3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty
- vehicles 4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

#### TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE INI

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
	10,000 to 90,000	1 or 2	200
Grocery	10,000 10 90,000	3 or Greater	400
	Greater than 90,000	1 or Greater	400
	10,000 to 135,000	1 or 2	200
Retail	10,000 10 100,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
		1 or 2	200
Warehouse	20,000 to 256,000	3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N]. | Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and

2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);

3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

- 1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
- 2. Emergency lighting. 3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
- 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8
- Alternate materials, designs and methods of construction. 5. Luminaires with less than 6,200 initial luminaire lumens.

UPLIGHT AND GLARE (BUG) RATINGS 1,2					
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE CALIFORNIA GREEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL NEEDS. THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

#### NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER. CONTRACTOR. INSPECTOR ETC.)

					,
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)					
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING ₅ (G)	N/A	G0	G0	G0	G1

I. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy* Code and Chapter 10 of the Callifornia Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet U-value limits for "all other outdoor lighting"

#### 5.106.8.1 Facing- Backlight

I/A RESPON PARTY

Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line. Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point

to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

#### .106.8.2 Facing-Glare.

For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

#### Note: [N]

1.See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. 2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.

3. Refer to the *California Building Code* for requirements for additions and alterations.

.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

- Swales. 2. Water collection and disposal systems.
- 3. French drains.
- 4. Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

lieu of shade tree planting.

Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

**5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

**Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in

**5.106.12.2 Landscape areas.** Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

**Exceptions:** Playfields for organized sport activity are not included in the total area calculation.

**5.106.12.3.** Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:

1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting 2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

### DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL 5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

#### DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL **5.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater convevance.

#### SECTION 5.302 DEFINITIONS

dishwashers.

**5.302.1 Definitions.** The following terms are defined in Chapter 2 (and are included here for reference) EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

**METERING FAUCET**. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

**POTABLE WATER.** Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

**POTABLE WATER.** [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

**RECYCLED WATER.** Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 09/28/2023
DESIGN & CONSULTING & PROJECT MGT DESIGN & CONSULTING & PROJECT MGT DI 590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP B PROFESSIONAL STAMP B PROFESSIONAL STAMP B R PROFESSIONAL STAMP B R PROFESSIONAL STAMP B R R R R R R R R R R R R R
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
CLIENT CLIENT CLIENS CLIENS Leasing 1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
ORIGINAL PC STATE AGENCY APPROVAL
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE CAL GREEN CHECKLIST
PROJECT NUMBER 22088 DRAWN BY
rMc/SC CHECKED BY RH/RT DATE
SHEET NO. A0.6

# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

	NONRESIDENT	IAL	MANDATO
N/A RESPON. PARTY		Y N/A RESPON. PARTY	
	SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections		
	503.1.1 and 503.1.2.		SECTION 5.402 DEFINITIONS
	<ul> <li>5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:</li> <li>1. For each individual leased, rented or other tenant space within the building projected to consume</li> </ul>		5.402.1 DEFINITIONS. The following terms are
	more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.		<b>ADJUST.</b> To regulate fluid flow rate and air path a damper.
	2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:		<b>BALANCE.</b> To proportion flows within the distribution according to design quantities.
	<ul> <li>a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).</li> <li>b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).</li> <li>c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).</li> </ul>		<b>BUILDING COMMISSIONING.</b> A systematic qu process, including verifying and documenting that
	<b>5.303.1.2 Excess consumption.</b> A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.		tested, operated and maintained to meet the ow ORGANIC WASTE. Food waste, green waste,
	5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and		soiled paper waste that is mixed in with food was
	urinals) and fittings (faucets and showerheads) shall comply with the following: <b>5.303.3.1 Water Closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per		TEST. A procedure to determine quantitative per SECTION 5.407 WATER RESISTA
	flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.		5.407.1 WEATHER PROTECTION. Provide a w California Building Code Section 1402.2 (Weath ordinance, whichever is more stringent.
	<b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.		5.407.2 MOISTURE CONTROL. Employ moistu
	5.303.3.2 Urinals. 5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed		5.407.2.1 Sprinklers. Design and mainta 5.407.2.2 Entries and openings. Design
	0.125 gallons per flush. <b>5.303.3.2.2 Floor-mounted Urinals.</b> The effective flush volume of floor-mounted or other urinals shall		rain to prevent water intrusion into building
	not exceed 0.5 gallons per flush.		5.407.2.2.1 Exterior door protect intrusion by using nonabsorbent flo such openings plus at least one of
	<ul> <li>5.303.3.3 Showerheads. [BSC-CG]</li> <li>5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA</li> </ul>		<ol> <li>An installed awning at lease</li> <li>The door is protected by</li> </ol>
	WaterSense Specification for Showerheads. 5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one		<ol> <li>The door is protected by</li> <li>The door is recessed at I</li> <li>Other methods which pro</li> </ol>
	showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to		5.407.2.2.2 Flashing. Install flash
	allow only one shower outlet to be in operation at a time. <b>Note:</b> A hand-held shower shall be considered a showerhead.		SECTION 5.408 CONSTRUCTION
	5.303.3.4 Faucets and fountains.		RECYCLING 5.408.1 CONSTRUCTION WASTE MANAGEMI
	<b>5.303.3.4.1 Nonresidential Lavatory faucets.</b> Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.		<ul> <li>5.408.1 CONSTRUCTION WASTE MANAGEMI</li> <li>non-hazardous construction and demolition waste meet a local construction and demolition waste r</li> </ul>
	<b>5.303.3.4.2 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate,		5.408.1.1 Construction waste management ordinance,
	but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.		1. Identifies the construction and c
	<b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].		<ul> <li>usage, recycling, reuse on the p</li> <li>2. Determines if construction and bulk mixed (single stream).</li> </ul>
	<b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle.		<ol> <li>Identifies diversion facilities whe</li> <li>Specifies that the amount of construction by weight or volume, but not by</li> </ol>
	<b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].		5.408.1.2 Waste Management Company documentation that the percentage of con
	<b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.		complies with this section.
	<b>5.303.3.4.6 Pre-rinse spray value</b> When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance		<b>Note:</b> The owner or contractor shall make will be diverted by a waste management of
	Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.		Exceptions to Sections 5.408.1.1 and 5.
	<b>FOR REFERENCE ONLY:</b> The following table and code section have been reprinted from the <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).		<ol> <li>Alternate waste reduction methodicalities capable of compliance</li> <li>Demolition waste meeting local and markets.</li> </ol>
	TABLE H-2		5.408.1.3 Waste stream reduction alter not exceed two pounds per square foot of
	STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019		as approved by the enforcing agency. 5.408.1.4 Documentation. Documentatio
	PRODUCT CLASS MAXIMUM ELOW RATE (gpm)		compliance with Sections 5.408.1.1, throu necessary and shall be accessible during
	[spray force in ounce force (ozf)]Incomination in Econ real (gpm)Product Class 1 (≤ 5.0 ozf)1.00		Notes:
	Product Class 2 (> 5.0 ozf and $\leq 8.0$ ozf)1.20Product Class 3 (> 8.0 ozf)1.28		<ol> <li>Sample forms found in "A Guide located www.dgs.ca.gov/BSC/F Resources-List-Folder/CALGree</li> </ol>
	Product Class 3 (> 8.0 ozf)       1.28         5.303.4 COMMERCIAL KITCHEN EQUIPMENT.		management plan. 2. Mixed construction and demoliti
	5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm		Resources Recycling and Reco 5.408.2 UNIVERSAL WASTE. [A] Additions ar
	when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. <b>Note:</b> This code section does not affect local jurisdiction authority to prohibit or require disposer		provisions in Section 301.3 for nonresidential ad items such as fluorescent lamps and ballast and Universal Waste materials are disposed of prope
	installation. 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California		materials shall be included in the construction do
	Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.		Note: Refer to the Universal Waste Rule 5.408.3 EXCAVATED SOIL AND LAND CLEAR
	<b>5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.</b> Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1		vegetation and soils resulting primarily from land material may be stockpiled on site until the stora
	of the California Plumbing Code and in Chapter 6 of this code.		Exception: Reuse, either on or off-site, o
]	SECTION 5.304 OUTDOOR WATER USE 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water		Notes: 1. If contamination by disease or p
	Efficient Landscape Ordinance (MWELO), whichever is more stringent.		Commissioner and follow its dir 2. For a map of know pest and/or
	<ol> <li>The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.</li> </ol>		Food and Agriculture. (www.cd
	<ol> <li>MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.</li> </ol>		
	<b>5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.</b> For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 100 of Chapter		SECTION 5.410 BUILDING MAINT
	Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i> , except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.		5.410.1 RECYCLING BY OCCUPANTS. Provid identified for the depositing, storage and collection paper, corrugated cardboard, glass, plastics, org
	<b>Exception</b> : Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.		ordinance, if more restrictive.
	5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape		<b>Exception</b> : Rural jurisdictions that meet a Code 42649.82 (a)(2)(A) et seq. shall also
	area equal to or greater than 500 square feet. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate		<b>5.410.1.1 Additions.</b> All additions conductive resulting in an increase of 30% or more in
			Exception: Additions within a tena
	landscape area equal to or greater than 1,200 square feet.		floor area.
	DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		floor area. <b>5.410.1.2 Sample ordinance</b> . Space allo Division 30 of the <i>Public Resources Code</i> Recycling Access Act of 1991 (Act).
	DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE		<b>5.410.1.2 Sample ordinance.</b> Space allo Division 30 of the <i>Public Resources Code</i>

are defined in Chapter 2 (and are included here for reference) patterns at the terminal equipment, such as to reduce fan speed or adjust

ribution system, including sub-mains, branches and terminals,

quality assurance process that spans the entire design and construction that building systems and components are planned, designed, installed, owner's project requirements.

te, landscape and pruning wste, nonhazardous wood waste, and food vaste.

#### e performance of a system or equipment TANCE AND MOISTURE MANAGEMENT weather-resistant exterior wall and foundation envelope as required by ather Protection). manufacturer's installation instructions or local

isture control measures by the following methods.

ntain landscape irrigation systems to prevent spray on structures. ign exterior entries and/or openings subject to foot traffic or wind-driven lings as follows:

ection. Primary exterior entries shall be covered to prevent water t floor and wall finishes within at least 2 feet around and perpendicular to of the following:

least 4 feet in depth. by a roof overhang at least 4 feet in depth.

at least 4 feet. provide equivalent protection.

ashings integrated with a drainage plane.

#### IN WASTE REDUCTION. DISPOSAL AND

**EMENT.** Recycle and/or salvage for reuse a minimum of 65% of the vaste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or te management ordinance, whichever is more stringent.

gement plan. Where a local jurisdiction does not have a construction and nce, submit a construction waste management plan that:

nd demolition waste materials to be diverted from disposal by efficient he project or salvage for future use or sale

d demolition waste materials will be sorted on-site (source-separated) or where construction and demolition waste material collected will be taken. construction and demolition waste materials diverted shall be calculated by both.

**any.** Utilize a waste management company that can provide verifiable onstruction and demolition waste material diverted from the landfill

nake the determination if the construction and demolition waste material t compan

5.408.1.2:

rina debris. ethods developed by working with local agencies if diversion or recycle nce with this item do not exist cal ordinance or calculated in consideration of local recycling facilities

ternative. The combined weight of new construction disposal that does t of building area may be deemed to meet the 65% minimum requirement

ation shall be provided to the enforcing agency which demonstrates rough 5.408.1.3. The waste management plan shall be updated as ing construction for examination by the enforcing agency.

ide to the California Green Building Standards Code (Nonresidential)" /Resources/Page-Content/Building-Standards-Commissionreen may be used to assist in documenting compliance with the waste

plition debris processors can be located at the California Department of ecovery (CalRecycle).

and alterations to a building or tenant space that meet the scoping additions and alterations, shall require verification that Universal Waste and mercury containing thermostats as well as other California prohibited operly and are diverted from landfills. A list of prohibited Universal Waste documents.

ule link at: http://www.dtsc.ca.gov/universalwaste/

ARING DEBRIS. 100 percent of trees, stumps, rocks and associated nd clearing shall be reused or recycled. For a phased project, such orage site is developed.

of vegetation or soil contaminated by disease or pest infestation.

r pest infestation is suspected, contact the County Agricultural direction for recycling or disposal of the material. or disease quarantine zones, consult with the California Department of .cdfa.ca.gov)

#### NTENANCE AND OPERATIONS

ovide readily accessible areas that serve the entire building and are ection of non-hazardous materials for recycling, including (at a minimum) organic waste, and metals or meet a lawfully enacted local recycling

et and apply for the exemption in Public Resources also be exempt from the organic waste portion of this section.

nducted within a 12-month period under single or multiple permits, e in floor area, shall provide recycling areas on site.

nant space resulting in less than a 30% increase in the tenant space

allocation for recycling areas shall comply with Chapter 18, Part 3, ode. Chapter 18 is known as the California Solid Waste Reuse and

ocal agencies may be found in Appendix A of the document at the

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

N/A RESPON PARTY

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

- Commissioning requirements shall include:
- 1. Owner's or Owner representative's project requirements. 2. Basis of design.
- 3. Commissioning measures shown in the construction documents.
- 4. Commissioning plan. 5. Functional performance testing
- 6. Documentation and training. 7. Commissioning report.
- Exceptions:
- 1. Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within
- unconditioned warehouses.
- 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

#### Informational Notes

- 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
- 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

- Environmental and sustainability goals. 2. Building sustainable goals.
- 3. Indoor environmental quality requirements.
- 4. Project program, including facility functions and hours of operation, and need for after hours operation.
- 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

- 1. Renewable energy systems.
- 2. Landscape irrigation systems. Water reuse system.
- 5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: 1. General project information.
- 2. Commissioning goals.
- 3. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent.
- Equipment and systems to be tested, including the extent of tests
- c. Functions to be tested d. Conditions under which the test shall be performed.
- e. Measurable criteria for acceptable performance.
- 4. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

**5.410.2.5.1 Systems manual.** [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The

- systems manual shall include the following: 1. Site information, including facility description, history and current requirements.
- 2. Site contact information. 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
- 4. Maior systems.
- 5. Site equipment inventory and maintenance notes.
- 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

- 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
- 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the Systems Manual.
- 4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

- 1. Renewable energy systems.
- 2. Landscape irrigation systems. 3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

PROJECT SPECIFIC STATE AGENCY APPROVAL **IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT** APP. 04-122805 INC: REVIEWED FOR SS I FLS ACS NOT APPLICABLE **RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER** DATE: 09/28/2023 WNER, CONTRACTOR, INSPECTOR ETC.) 5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services. 5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related S regulations DESIGN CONSULTING PROJECT MG **5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required 11590 W BERNARDO COURT, SUITE 100 by the enforcing agency. SAN DIEGO, CA 92127 WWW.RSTAVARES.COM DIVISION 5.5 ENVIRONMENTAL QUALITY PROFESSIONAL STAMP SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) **ARTERIAL HIGHWAY.** A general term denoting a highway primarily for through traffic usually on a continuous route. A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made. **1 BTU/HOUR.** British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu the amount of heat required to melt a ton (2,000 pounds) of ice at  $32^0$  Fahrenheit. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), THE PLANS, IDEAS & DESIGNS SHOWN ON except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm THESE DRAWINGS ARE THE PROPERTY OF to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. **R&S TAVARES ASSOCIATES, INC. DEVISED** SOLELY FOR THIS CONTRACT. THESE COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium PLANS SHALL NOT BE USED, IN WHOLE OR density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, IN PART, FOR ANY PURPOSE FOR WHICH structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or THEY WERE NOT INTENDED WITHOUT THE finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). EXPRESS WRITTEN CONSENT OF R&S Note: See CCR, Title 17, Section 93120.1. TAVARES ASSOCIATES, INC. © DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a CLIENT 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.). DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity. ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, Leasing trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road. self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground 1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908FAJFax (951) 943-5768 support equipment, tractors, boats, and the like, are not included. ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles ORIGINAL PC STATE AGENCY APPROVAL **ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).** The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle. APPROVED ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as DIV. OF THE STATE ARCHITECT the fluctuating noise level integrated over the time of period of interest. APP: 04-121369 PC EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may REVIEWED FOR not be divided or have grade separations at intersections. SS I FLS I ACS I CG I **FREEWAY.** A divided arterial highway with full control of access and with grade separations at intersections. 09/22/202 GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one. **Revision Schedule** GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Description Date Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14. HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009). PRE-CHECK (PC) DOCUMENT **MERV.** Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999. Code: 2022 CBC **MAXIMUM INCREMENTAL REACTIVITY (MIR).** The maximum change in weight of ozone formed by adding a A separate project application for construction is required compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O<sup>3</sup>/g ROC). PROJECT TITLE PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this PC 2022 CBC: 24' x 40' article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). EXPANDABLE TO **PSIG.** Pounds per square inch, guage. 120' x 40' **REACTIVE ORGANIC COMPOUND (ROC).** Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere SCHRADER ACCESS VALVES. Access fittings with a valve core installed. SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter. SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet SHEET TITLE or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected CAL GREEN to remote compressor units or condensing units. **VOC.** A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with CHECKLIST vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a) Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES 5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, PROJECT NUMBER Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances. 5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance 22088 Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. DRAWN BY rMc/SC SECTION 5.504 POLLUTANT CONTROL

CHECKED BY

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5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

	IONKESIDEN		
5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Fin	ish materials shall comply with Sections 5.504.4.1 throug	Y N/A RESPO	
5.504.4.6.			GRAMS OF VOC PER LITER OF COATING, LESS
the requirements of the following standards:	esives, sealants, and caulks used on the project shall me		COATING CATEGORY
<ol> <li>Adhesives, adhesive bonding primers, adh comply with local or regional air pollution con</li> </ol>	esive primers, sealants, sealant primers and caulks shall rol or air quality management district rules where		SPECIALTY COATINGS
applicable, or SCAQMD Rule 1168 VOC limit		ALUMINUM ROOF COATINGS	
products also shall comply with the Rule 116 (chloroform, ethylene dichloride, methylene c	prohibition on the use of certain toxic compounds nloride, perchloroethylene and trichloroethylene), except for	or	BASEMENT SPECIALTY COATINGS
aerosol products as specified in subsection 2			BITUMINOUS ROOF COATINGS
	of adhesives, and sealant or caulking compounds (in		BITUMINOUS ROOF PRIMERS
units of product, less packaging, which do no than 16 fluid ounces) shall comply with states	weigh more than one pound and do not consist of more vide VOC standards and other requirements, including		BOND BREAKERS
prohibitions on use of certain toxic compound	s, of California Code of Regulations, Title 17, commencing	g	CONCRETE CURING COMPOUNDS
with Section 94507.			CONCRETE/MASONRY SEALERS
TABLE 5.504.4.1 - ADHESIVE VOC	LIMIT <sub>1,2</sub>		
Less Water and Less Exempt Compounds in Gra	ne nor Liter		DRIVEWAY SEALERS
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT		DRY FOG COATINGS
	50		
	50		FIRE RESISTIVE COATINGS
CARPET PAD ADHESIVES			FLOOR COATINGS
OUTDOOR CARPET ADHESIVES	150		FORM-RELEASE COMPOUNDS
WOOD FLOORING ADHESIVES	100		GRAPHIC ARTS COATINGS (SIGN PAINT
	60		HIGH-TEMPERATURE COATINGS
SUBFLOOR ADHESIVES	50		INDUSTRIAL MAINTENANCE COATINGS
CERAMIC TILE ADHESIVES	65		LOW SOLIDS COATINGS1
VCT & ASPHALT TILE ADHESIVES	50		MAGNESITE CEMENT COATINGS
DRYWALL & PANEL ADHESIVES	50		MASTIC TEXTURE COATINGS
COVE BASE ADHESIVES	50		METALLIC PIGMENTED COATINGS
MULTIPURPOSE CONSTRUCTION ADHESIVE			MULTICOLOR COATINGS
STRUCTURAL GLAZING ADHESIVES	100		PRETREATMENT WASH PRIMERS
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250		PRIMERS, SEALERS, & UNDERCOATERS
OTHER ADHESIVES NOT SPECIFICALLY LIST	ED 50		REACTIVE PENETRATING SEALERS
SPECIALTY APPLICATIONS			RECYCLED COATINGS
PVC WELDING	510		ROOF COATINGS
CPVC WELDING	490		RUST PREVENTATIVE COATINGS
ABS WELDING	325		SHELLACS:
PLASTIC CEMENT WELDING	250		
ADHESIVE PRIMER FOR PLASTIC	550		CLEAR
CONTACT ADHESIVE	80		OPAQUE
SPECIAL PURPOSE CONTACT ADHESIVE	250		SPECIALTY PRIMERS, SEALERS & UNDE
STRUCTURAL WOOD MEMBER ADHESIVE	140		STAINS
TOP & TRIM ADHESIVE	250		STONE CONSOLIDANTS
SUBSTRATE SPECIFIC APPLICATIONS			SWIMMING POOL COATINGS
	30		TRAFFIC MARKING COATINGS
PLASTIC FOAMS	50		TUB & TILE REFINISH COATINGS
POROUS MATERIAL (EXCEPT WOOD)	50		WATERPROOFING MEMBRANES
WOOD	30		WOOD COATINGS
	80		WOOD PRESERVATIVES
FIBERGLASS			ZINC-RICH PRIMERS
1. IF AN ADHESIVE IS USED TO BOND DISSIN WITH THE HIGHEST VOC CONTENT SHALL B	ILAR SUBSTRATES TOGETHER, THE ADHESIVE E ALLOWED.		1. GRAMS OF VOC PER LITER OF COATING, INC
2. FOR ADDITIONAL INFORMATION REGARD			2. THE SPECIFIED LIMITS REMAIN IN EFFECT U
CONTENT SPECIFIED IN THIS TABLE, SEE SC			THE TABLE.
DISTRICT RULE 1168, www.arb.ca.gov/DRDB/S	C/CURHTML/R1168.PDF		3. VALUES IN THIS TABLE ARE DERIVED FROM ARCHITECTURAL COATINGS SUGGESTED CON
			FROM THE AIR RESOURCES BOARD. 5.504.4.3.2 Verification. Verification
TABLE 5.504.4.2 - SEALANT VOC L         Less Water and Less Exempt Compounds in Gra			the enforcing agency. Documentation 1. Manufacturer's product spe 2. Field verification of on-site
SEALANTS	CURRENT VOC LIMIT		
ARCHITECTURAL	250		<b>5.504.4.4 Carpet Systems.</b> All carpet installed in the building interior sh
MARINE DECK	760		Health, "Standard Method for the Testing ar Sources Using Environmental Chambers." \
NONMEMBRANE ROOF	300		Specifications 01350).
ROADWAY	250		See California Department of Public Health
SINGLE-PLY ROOF MEMBRANE	450		https://www.cdph.ca.gov/Programs/CCDPH
OTHER	420		5.504.4.4.1 Carpet cushion. All carp requirements of the California Depart
SEALANT PRIMERS			Evaluation of Volatile Organic Chemic
ARCHITECTURAL			Chambers,"Version 1.2, January 201 01350).
	250		See California Department of Public F
NONPOROUS	775		https://www.cdph.ca.gov/Progra
POROUS			5.504.4.4.2 Carpet adhesive. All carp
	500		5.504.4.5 Composite wood products. Har
MARINE DECK	760		composite wood products used on the interio
OTHER	750		formaldehyde as specified in ARB's Air Toxi seq.). Those materials not exempted under
NOTE: FOR ADDITIONAL INFORMATION REG CONTENT SPECIFIED IN THESE TABLES, SEE			Table 5.504.4.5.
DISTRICT RULE 1168.			5.504.4.5.3 Documentation. Verifica
5.504.4.3 Paints and coatings. Architectural point	and coatings shall comply with VOC limits in Table 1 of		requested by the enforcing agency. D 1. Product certifications and specifications and spe
	leasure, as shown in Table 5.504.4.3, unless more		<ol> <li>Chain of custody certifications.</li> <li>Product labeled and invoiced as n</li> </ol>
stringent local limits apply. The VOO sectors limits	coatings that do not most the definitions for the survey "		CCR, Title 17, Section 93120, et s
stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be	determined by classifying the coating as a Flat, Nonflat		
stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be or Nonflat-High Gloss coating, based on its gloss, a	e determined by classifying the coating as a Flat, Nonflat defined in Subsections 4.21, 4.36 and 4.37 of the 2007		<ol> <li>Exterior grade products marked a Engineered Wood Association, the</li> </ol>
stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be	e determined by classifying the coating as a Flat, Nonflat defined in Subsections 4.21, 4.36 and 4.37 of the 2007 fleasure, and the corresponding Flat, Nonflat or		<ol><li>Exterior grade products marked a</li></ol>
stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be or Nonflat-High Gloss coating, based on its gloss, a California Air Resources Board Suggested Control I Nonflat-High Gloss VOC limit in Table 5.504.4.3 sha 5.504.4.3.1 Aerosol Paints and coatings.	e determined by classifying the coating as a Flat, Nonflat defined in Subsections 4.21, 4.36 and 4.37 of the 2007 deasure, and the corresponding Flat, Nonflat or II apply. erosol paints and coatings shall meet the PWMIR Limits fo		<ol> <li>Exterior grade products marked a Engineered Wood Association, the standards.</li> <li>Other methods acceptable to the other</li> </ol>
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stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be or Nonflat-High Gloss coating, based on its gloss, a California Air Resources Board Suggested Control I Nonflat-High Gloss VOC limit in Table 5.504.4.3 sha <b>5.504.4.3.1 Aerosol Paints and coatings.</b> A ROC in Section 94522(a)(3) and other require compounds and ozone depleting substances <i>Regulations</i> , Title 17, commencing with Secti	e determined by classifying the coating as a Flat, Nonflat defined in Subsections 4.21, 4.36 and 4.37 of the 2007 Measure, and the corresponding Flat, Nonflat or II apply. erosol paints and coatings shall meet the PWMIR Limits for ments, including prohibitions on use of certain toxic in Sections 94522(c)(2) and (d)(2) of <i>California Code of</i>	or	<ol> <li>Exterior grade products marked a Engineered Wood Association, the standards.</li> <li>Other methods acceptable to the other</li> </ol>
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stringent local limits apply. The VOC content limit fo coatings categories listed in Table 5.504.4.3 shall be or Nonflat-High Gloss coating, based on its gloss, a California Air Resources Board Suggested Control I Nonflat-High Gloss VOC limit in Table 5.504.4.3 sha <b>5.504.4.3.1 Aerosol Paints and coatings.</b> A ROC in Section 94522(a)(3) and other require compounds and ozone depleting substances <i>Regulations</i> , Title 17, commencing with Secti Bay Area Air Quality Management District additional states and the substances of the subst	e determined by classifying the coating as a Flat, Nonflat defined in Subsections 4.21, 4.36 and 4.37 of the 2007 Measure, and the corresponding Flat, Nonflat or II apply. erosol paints and coatings shall meet the PWMIR Limits for ments, including prohibitions on use of certain toxic in Sections 94522(c)(2) and (d)(2) of <i>California Code of</i> on 94520; and in areas under the jurisdiction of the	ōor	<ul> <li>4. Exterior grade products marked a Engineered Wood Association, the standards.</li> <li>5. Other methods acceptable to the other of TABLE 5.504.4.5 - FORMALDEHY MAXIMUM FORMALDEHYDE EMISSIONS IN PRODUCT</li> <li>HARDWOOD PLYWOOD VENEER CORE</li> </ul>
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DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOC

COATING, LESS WATER & LESS EXEMI	
G CATEGORY	CURRENT VOC LIMIT
100	400
IGS	400
	400
INGS	50
ERS	350
	350
POUNDS	350
ALERS	100
	50
	150
3S	350
S	350
	100
	250
S (SIGN PAINTS)	500
ATINGS	420
CE COATINGS	250
	120
ATINGS	450
NGS	100
DATINGS	500
	250
RIMERS	420
IDERCOATERS	100
SEALERS	350
	250
	50
ATINGS	250
	730
	550
ALERS & UNDERCOATERS	100
	250
	450
GS	340
NGS	100
ATINGS	420
RANES	250
	275
	350

OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

MAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN

DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, UGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE

tion. Verification of compliance with this section shall be provided at the request of Documentation may include, but is not limited to, the following: irer's product specification cation of on-site product containers

ilding interior shall meet the requirements of the California Department of Public for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor ntal Chambers." Version 1.2, January 2017 (Emission testing method for California

of Public Health's website for certification programs and testing labs. pgrams/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**ushion.** All carpet cushion installed in the building interior shall meet the California Department of Public Health, "Standard Method for the Testing and Organic Chemical Emissions from Indoor Sources Using Environmental 1.2, January 2017 (Emission testing method for California Specifications

ment of Public Health's website for certification programs and testing labs. lph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**Ihesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

products. Hardwood plywood, particleboard and medium density fiberboard sed on the interior or exterior of the buildings shall meet the requirements for ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et exempted under the ATCM must meet the specified emission limits, as shown in

tation. Verification of compliance with this section shall be provided as rcing agency. Documentation shall include at least one of the following: ons and specifications.

nd invoiced as meeting the Composite Wood Products regulation (see ction 93120, et seq.). oducts marked as meeting the PS-1 or PS-2 standards of the

Association, the Australian AS/NZS 2269 or European 636 3S

### ceptable to the enforcing agency.

RMALDEHYDE LIMITS1				
E EMISSIONS IN PARTS PER MILLION				
	CURRENT LIMIT			
NEER CORE	0.05			
MPOSITE CORE	0.05			
	0.09			
DARD	0.11			
BERBOARD2	0.13			
DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR OR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR E CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.				
RBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).				

**5.504.4.6 Resilient flooring systems.** Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

N/A RESPON. PARTY

#### See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

#### 5.504.4.7 Thermal insulation Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.

Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.

Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

**Exceptions:** Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

#### SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

#### SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO<sub>2</sub>) MONITORING. For buildings or additions equipped with demand control ventilation, CO<sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.

- (DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements: The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows
- When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
- A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have
- exceeded 1,100ppm. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
- The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon
- dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

#### SECTION 5.507 ENVIRONMENTAL COMFORT

**5.507.4 ACOUSTICAL CONTROL.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

**Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

**5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

contain CFCs.

- 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
- 2. Lon or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L<sup>dn</sup> noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L<sub>en</sub> - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation

**5.507.4.2.1** Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

**5.507.4.2.2** Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

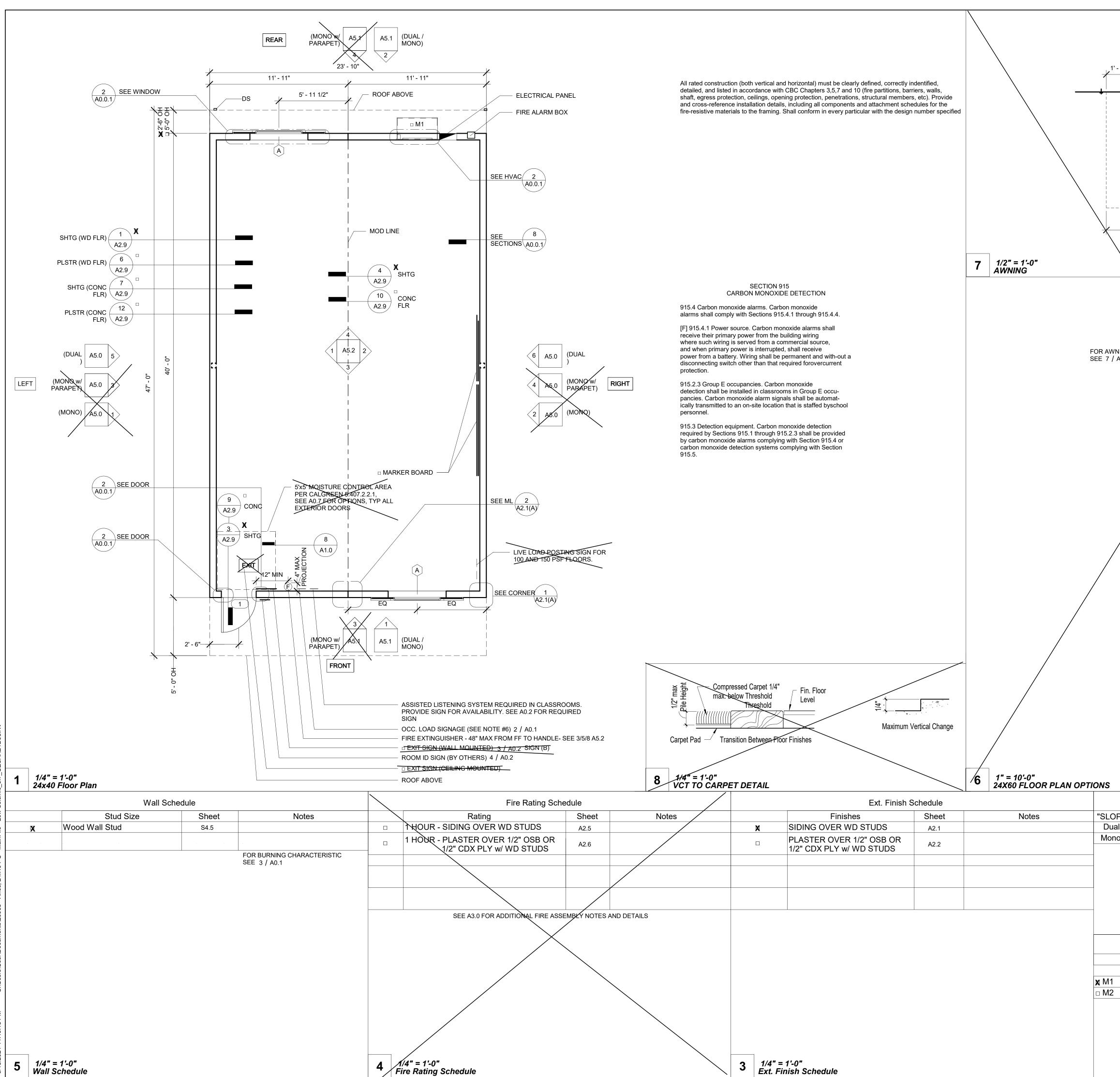
Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc\_icc\_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY 5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

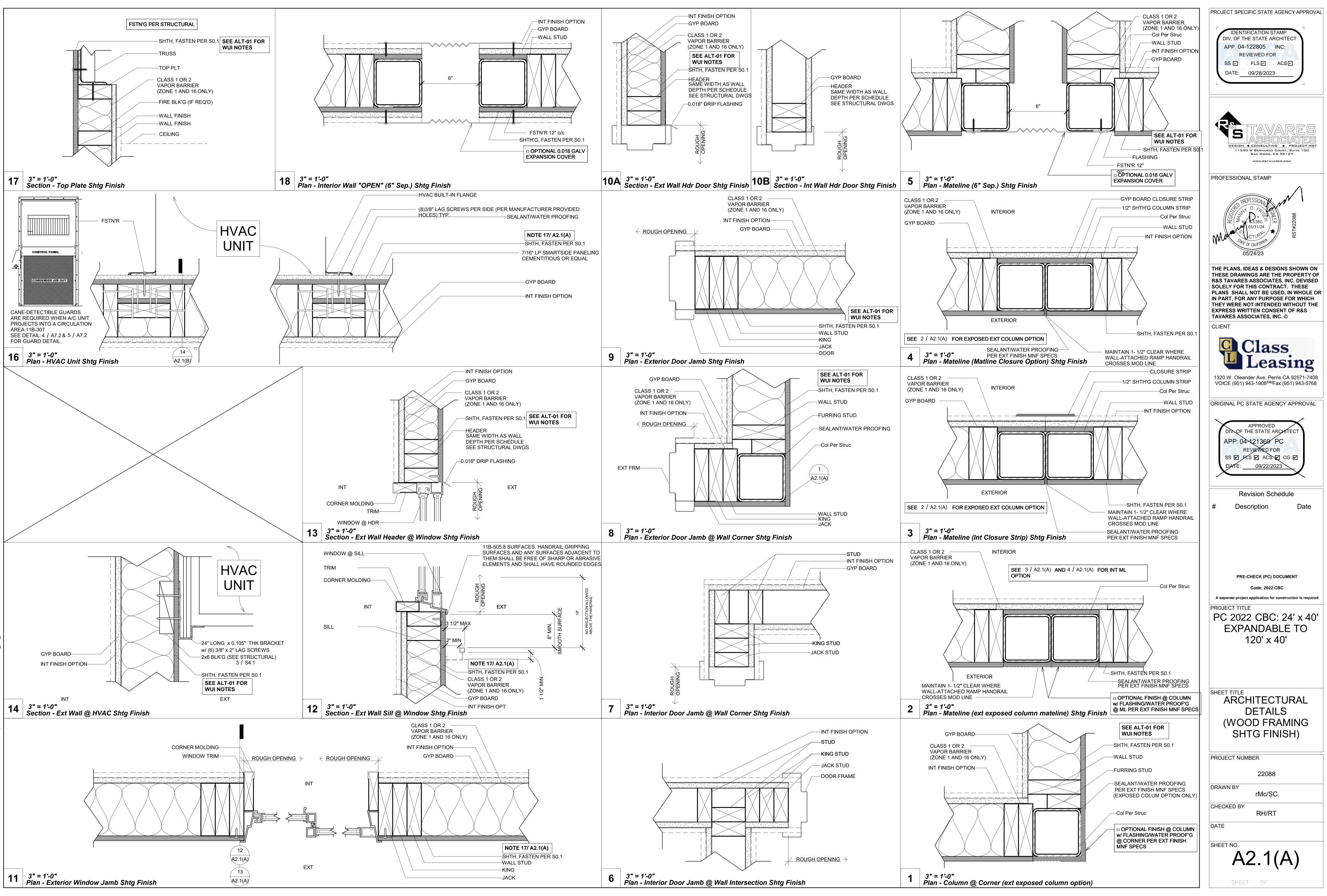
5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

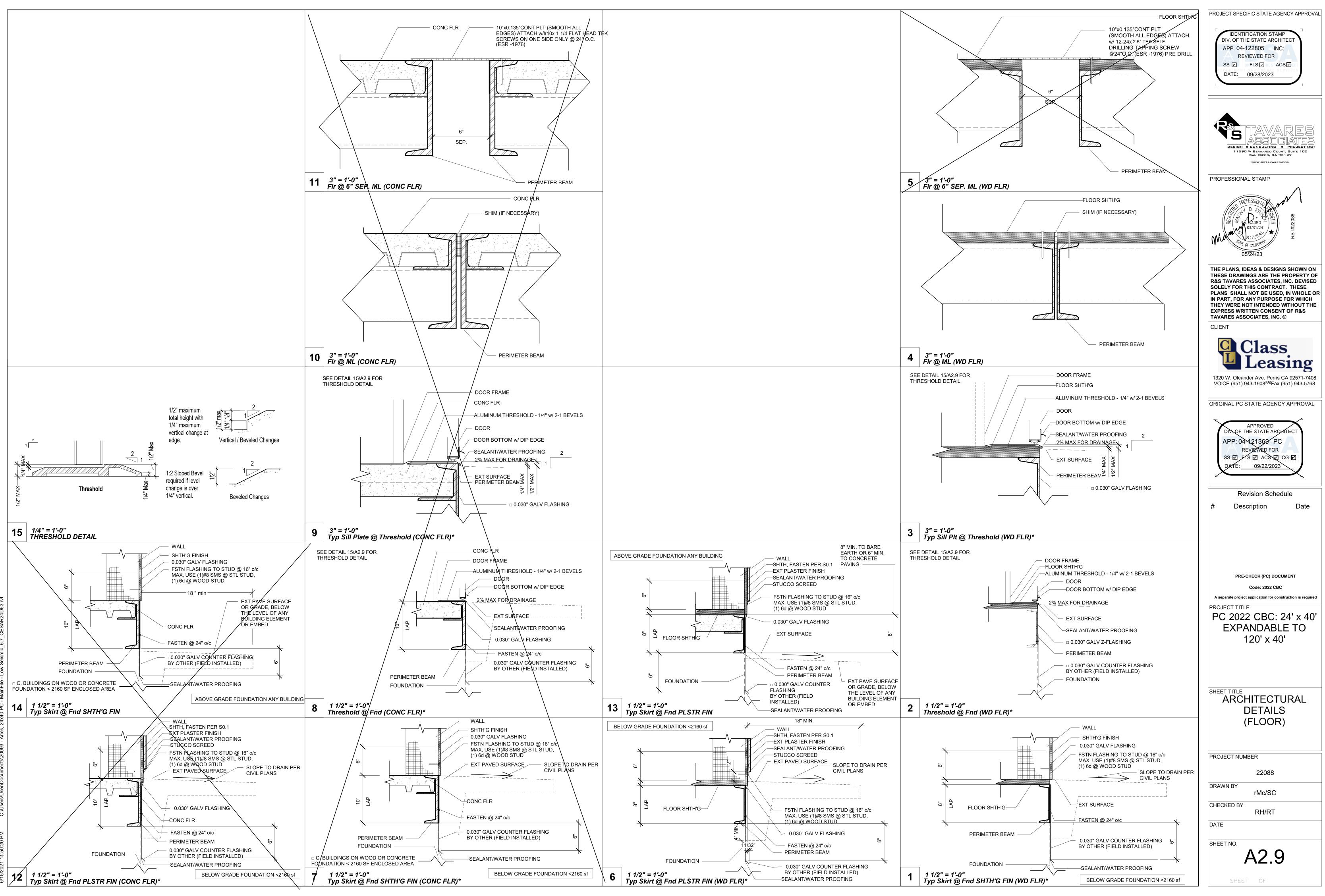
	PROJECT SPECIFIC STATE AGENCY APPROVAL
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
	APP. 04-122805 INC: REVIEWED FOR
Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER OWNER, CONTRACTOR, INSPECTOR ETC.)	SS 🗹 FLS 🗹 ACS 🗹 DATE: 09/28/2023
5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the	
provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.	
<b>Exception:</b> Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide ( $CO_2$ ), and potentially other refrigerants.	CONSULTING + PROJECT MET
<b>5.508.2.1 Refrigerant piping.</b> Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.	11590 W BERNARDO COURT, SUITE 100 San Diego, CA 92127 www.rstavares.com
<ul><li>5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.</li><li>5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a</li></ul>	PROFESSIONAL STAMP
refrigerant charge of 5 pounds or less. <b>5.508.2.1.2.1 Anchorage.</b> One-fouth-inch OD tubing shall be securely clamped to a rigid base to	ROFESSIONAL
keep vibration levels below 8 mils. 5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure	B B C C C C C C C C C C C C C
controls, valve pilot lines and oil.  Exception: Single-flared tubing connections may be used with a multiring seal coated with	
industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.	05/24/23
<ul> <li>5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.</li> <li>5.508.2.2 Valves. Valves Valves and fittings shall comply with the <i>California Mechanical Code</i> and as</li> </ul>	THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF
5.508.2.2 Valves. Valves valves and littings shall comply with the <i>California Mechanical Code</i> and as follows. 5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall	R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE
5.508.2.2.1 Pressure relief valves. For vessels containing righ-GWP reingerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve. 5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall	PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE
be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.	EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
<b>5.508.2.2.2 Access valves.</b> Only Schrader access valves with a brass or steel body are permitted for use.	CLIENT
<b>5.508.2.2.1 Valve caps.</b> For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.	C Class Leasing
<ul><li>5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.</li><li>5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves</li></ul>	Leasing
designed to have seal caps. <b>Exception:</b> Valves with seal caps that are not removed from the valve during stem	1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
operation. 5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent	ORIGINAL PC STATE AGENCY APPROVAL
5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to	
maximize energy efficiency. 5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted	APPROVED DIV. OF THE STATE ARCHITECT
with a device tha indicates the level of refrigerant in the receiver. <b>5.508.2.5 Pressure testing.</b> The system shall be pressure tested during installation prior to evacuation and	APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I
charging. 5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and	DATE: 09/22/2023
appropriate tracer gas to bring system pressure up to 300 psig minimum. <b>5.508.2.5.2 Leaks.</b> Check the system for leaks, repair any leaks, and retest for pressure using the same	
gauge. <b>5.508.2.5.3 Allowable pressure change.</b> The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.	Revision Schedule # Description Date
<b>5.508.2.6 Evacuation.</b> The system shall be evacuated after pressure testing and prior to charging.	
<b>5.508.2.6.1 First vacuum.</b> Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.	
<b>5.508.2.6.2 Second vacuum.</b> Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.	
<b>5.508.2.6.3 Third vacuum.</b> Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.	
CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS	PRE-CHECK (PC) DOCUMENT Code: 2022 CBC
702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper	A separate project application for construction is required PROJECT TITLE
installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems.	PC 2022 CBC: 24' x 40'
<ul> <li>Examples of acceptable HVAC training and certification programs include but are not limited to the following:</li> <li>1. State certified apprenticeship programs.</li> <li>2. Public utility training programs.</li> </ul>	EXPANDABLE TO 120' x 40'
<ol> <li>Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</li> <li>Programs sponsored by manufacturing organizations.</li> <li>Other programs acceptable to the enforcing agency.</li> </ol>	
<b>702.2 SPECIAL INSPECTION [HCD].</b> When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or	
other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:	SHEET TITLE CAL GREEN
<ol> <li>Certification by a national or regional green building program or standard publisher.</li> <li>Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.</li> <li>Successful completion of a third party apprentice training program in the appropriate trade.</li> <li>Other programs acceptable to the enforcing agency.</li> </ol>	CHECKLIST
Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the	
project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).	PROJECT NUMBER
<b>[BSC-CG]</b> When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing	22088
compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.	DRAWN BY rMc/SC
<b>Note:</b> Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.	CHECKED BY RH/RT
703 VERIFICATIONS	DATE
<b>703.1 DOCUMENTATION.</b> Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate	SHEET NO.
section or identified applicable checklist.	A0.8
RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.	

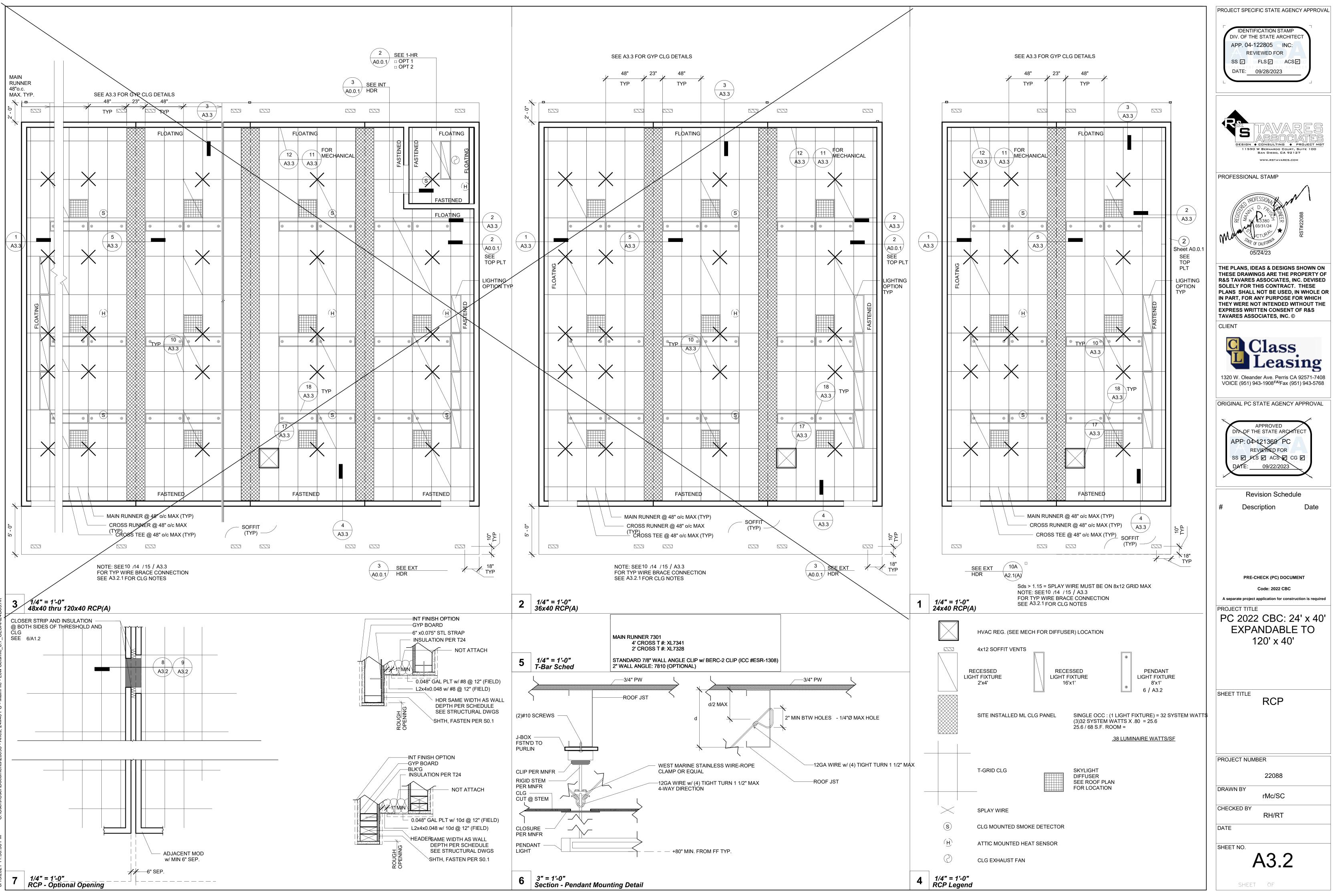


/	PROJECT SPECIFIC STATE AGENCY APPROVAL
-0" 3'-0" +/- 16" FOR UPPER WELD TAB/ LAB BOLT STL POST	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 09/28/2023
	DESIGN CONSULTING PROJECT MGT 1590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
5' - 0"	PROFESSIONAL OTAINING PROFESSIONAL D. AP CHIEFE NM. 63380 T 03/31/24 STATE OF CALIFORMIN 05/24/23
NING A1.0 OPT. WALL & DOOR AS NEEDED	THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
	CCLASS Leasing 1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 FAJFax (951) 943-5768
AWNING OPTION C AWNING (SEE S6.0)	APPROVED DIV OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
	Revision Schedule # Description Date PRE-CHECK (PC) DOCUMENT
AWNING OPTION D OPT. WALL & DOOR AS NEEDED	code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
Roofing SchedulePE"EDPMStanding SeamParapetNotesIA4.2.2X A4.0.2N/AoA4.2.1A4.0.1A4.4.1	SHEET TITLE 24x40 FLOOR PLAN
HVAC Unit Keynote Type Type Comments	PROJECT NUMBER 22088 DRAWN BY rMc/SC CHECKED BY
Wall Mounted HVAC       See (M)-Sheets         Roof Mounted HVAV       See (M)-Sheets	CHECKED BY RH/RT DATE SHEET NO. SHEET OF



2021 11:49:32 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic\_6.7\_





#### IR 25-2

#### 1. CEILING SYSTEM GENERAL NOTES

1.01	Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM
	E580.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.

1.03	Ceiling systems. The following ceiling sy Manufacturer:	ystem(s) is/are part of the scope of this project: <u>ARMSTONG (OR EQUAL)</u>
	Product Name:	PRELUDE XL AND PRELUDE XL HIGH RECYLED CONTENT(HRC)
	Evaluation Report Type and Number:	ICC ESR#1308
	Main Runner Part, Model, or Catalog No	umber: <u>7301</u>
	Cross Runner Part, Model, Catalog Nur	nber: <u>4" CROSS T # XL7341 / 2" CROSS T # XL7328</u>
1.04	Seismic Wall Clip:	STANDARD 7/8" WALL ANGLE CLIP w/ BERC2 CLIP
	Manufacturer's Model:	<u>7810</u>

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide <sup>3</sup>/<sub>4</sub>" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide  $\frac{3}{4}$ " clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

#### 2. MATERIALS

- 2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
- 2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.
- 2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength ( $F_Y$ ) of 30 ksi and minimum ultimate strength ( $F_{U}$ ) of 48 ksi.

#### 3. ATTACHMENT OF HANGER AND BRACING WIRES

- 3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
- 3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.

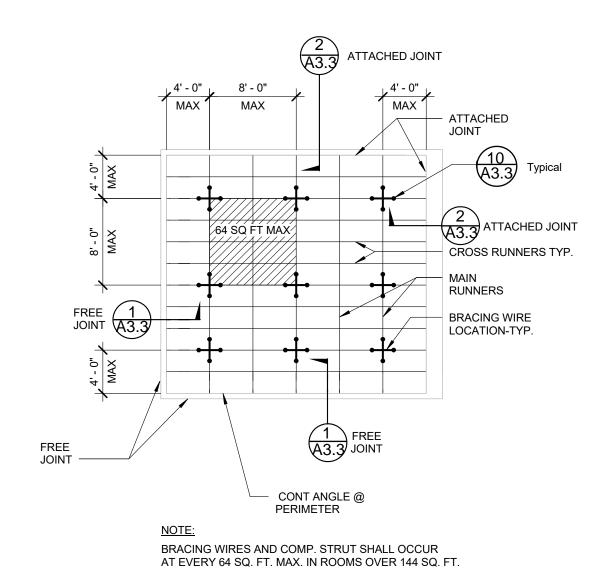
Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00

IR 25-2 (Revised 03/18/22) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

Page 17 of 71

NOTE:

BERG2 2" BEAM-END RETAINING CLIP -Allows you to create a code-compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.



#### IR 25-2

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

- 3.04 Slack safety wires shall be considered hanger wires for installation and testing
- requirements. 3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

#### 4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

- 4.02 Expansion anchors shall be: NA
- 4.03 Power-Actuated Fasteners shall be: NA
- 4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
- 4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires. 4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive
- means prior to installing post-installed anchors.
- 4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes. 5. TESTING
- 5.01 All field testing must be performed in the presence of the project inspector.
- 5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
- 5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A5.

#### 6. LUMINAIRES

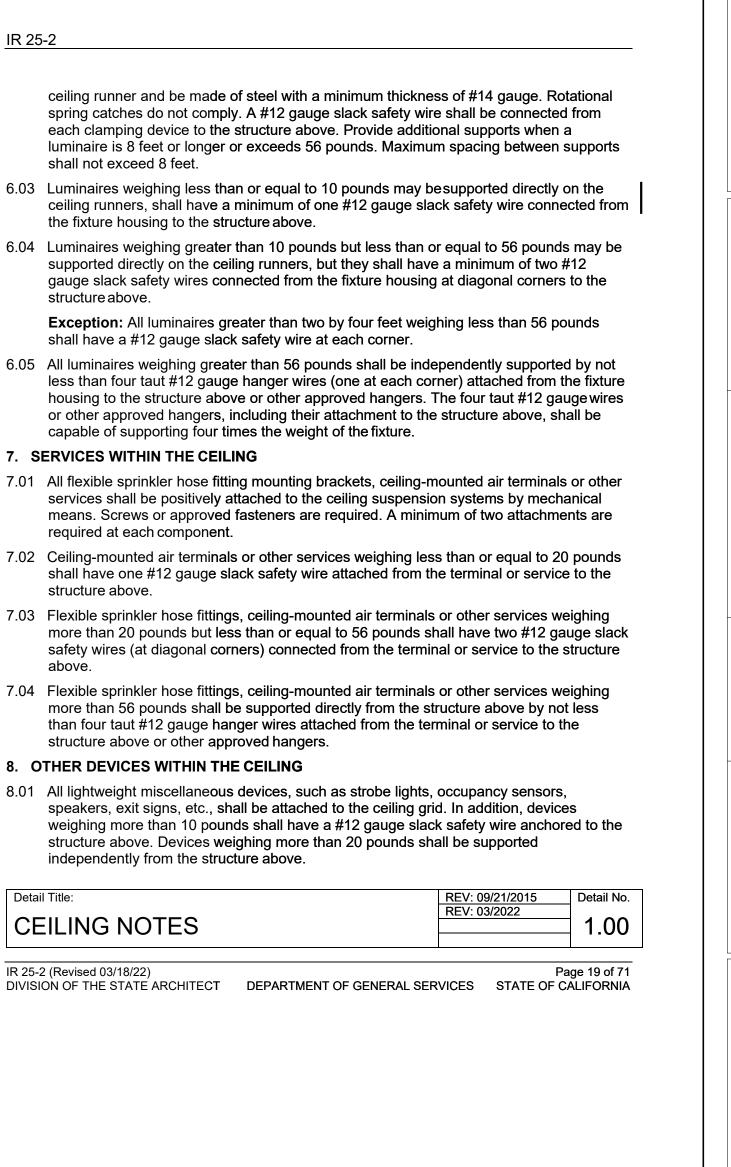
- 6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
- 6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting

Detail Title:	REV: 09/21/2015	Detail No.
	REV: 03/2022	
CEILING NOTES		1.00

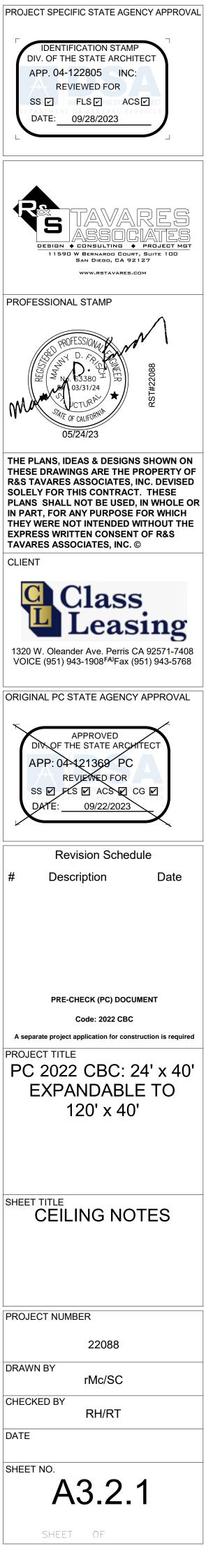
IR 25-2 (Revised 03/18/22) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

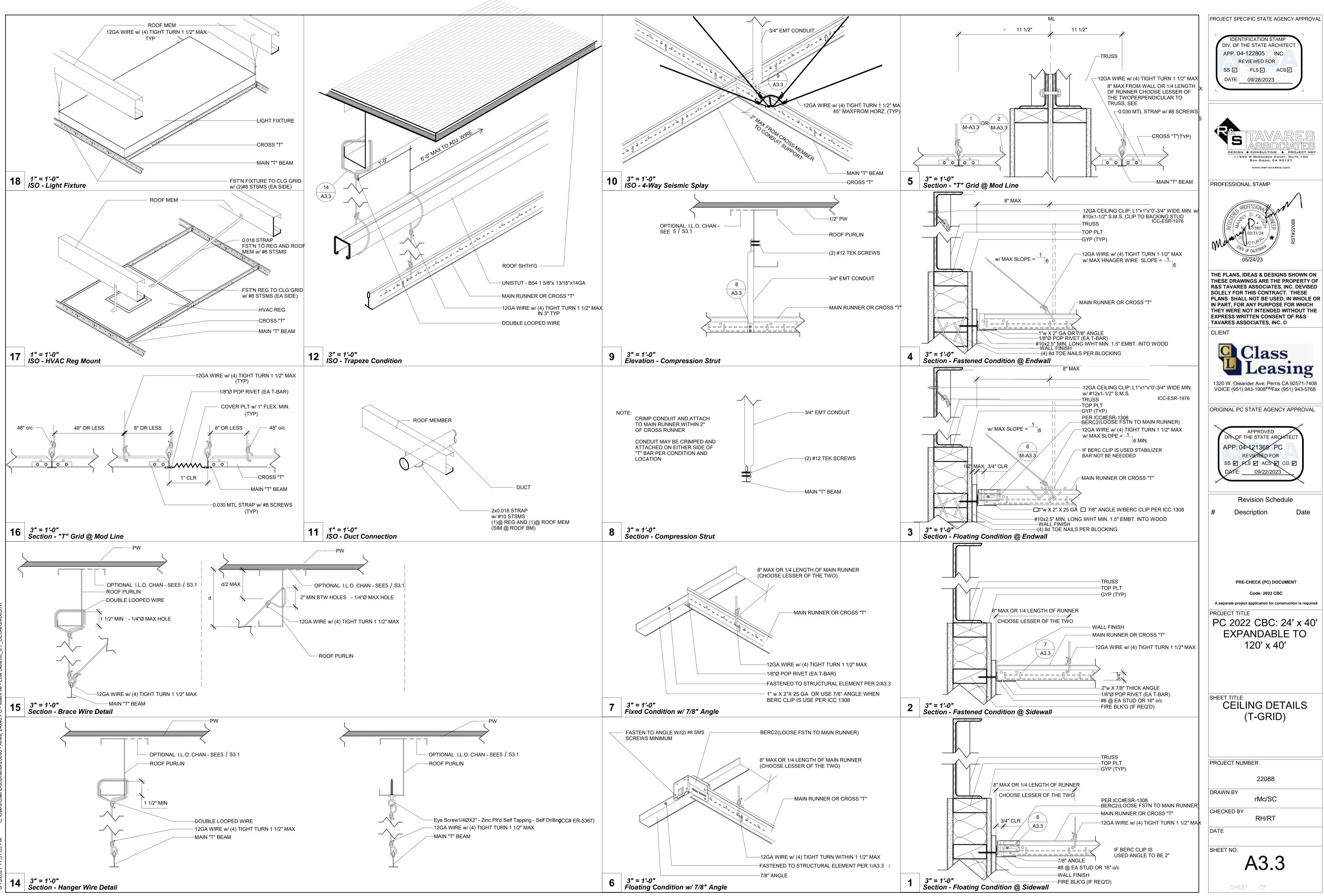
Page 18 of 71

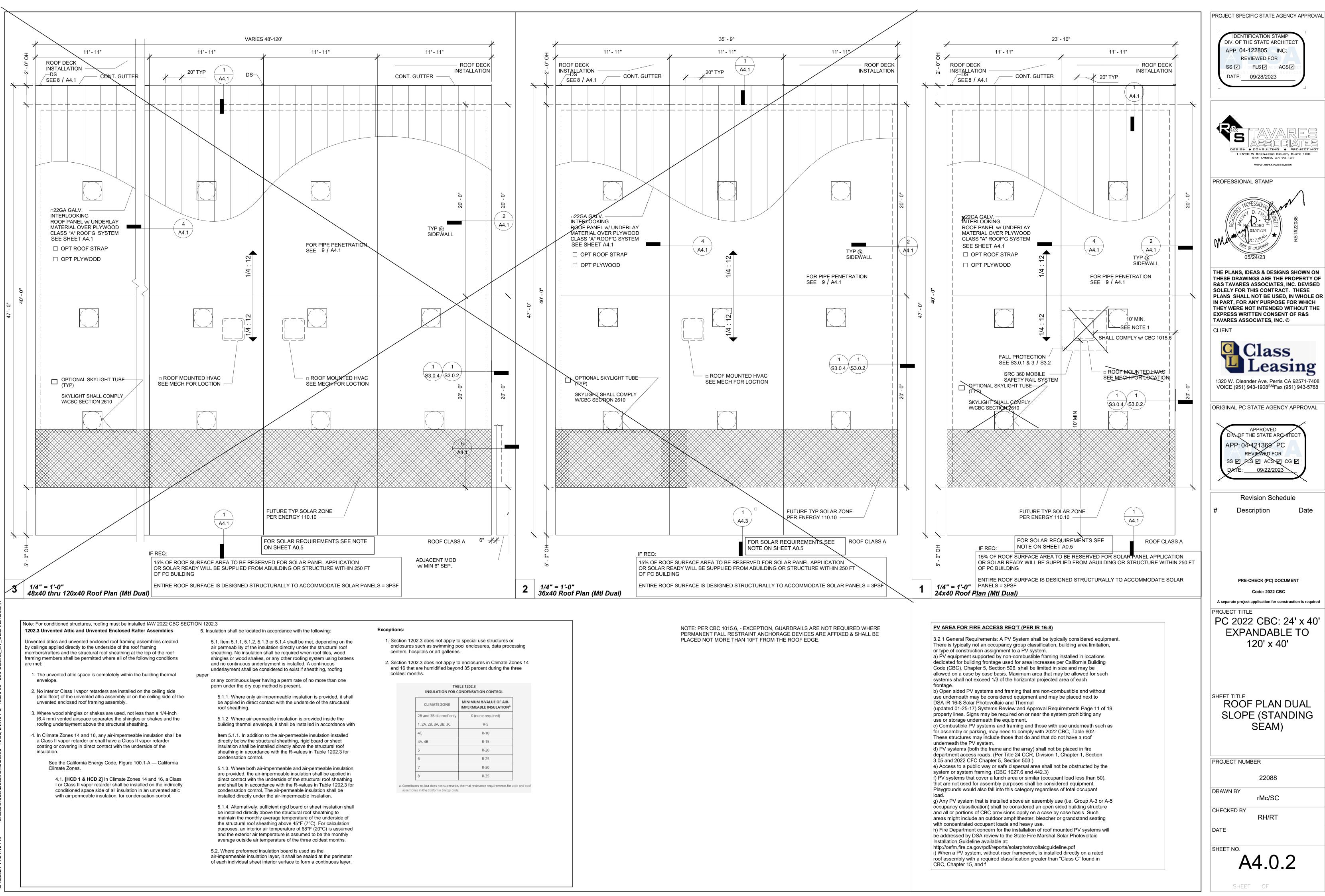
#### IR 25-2



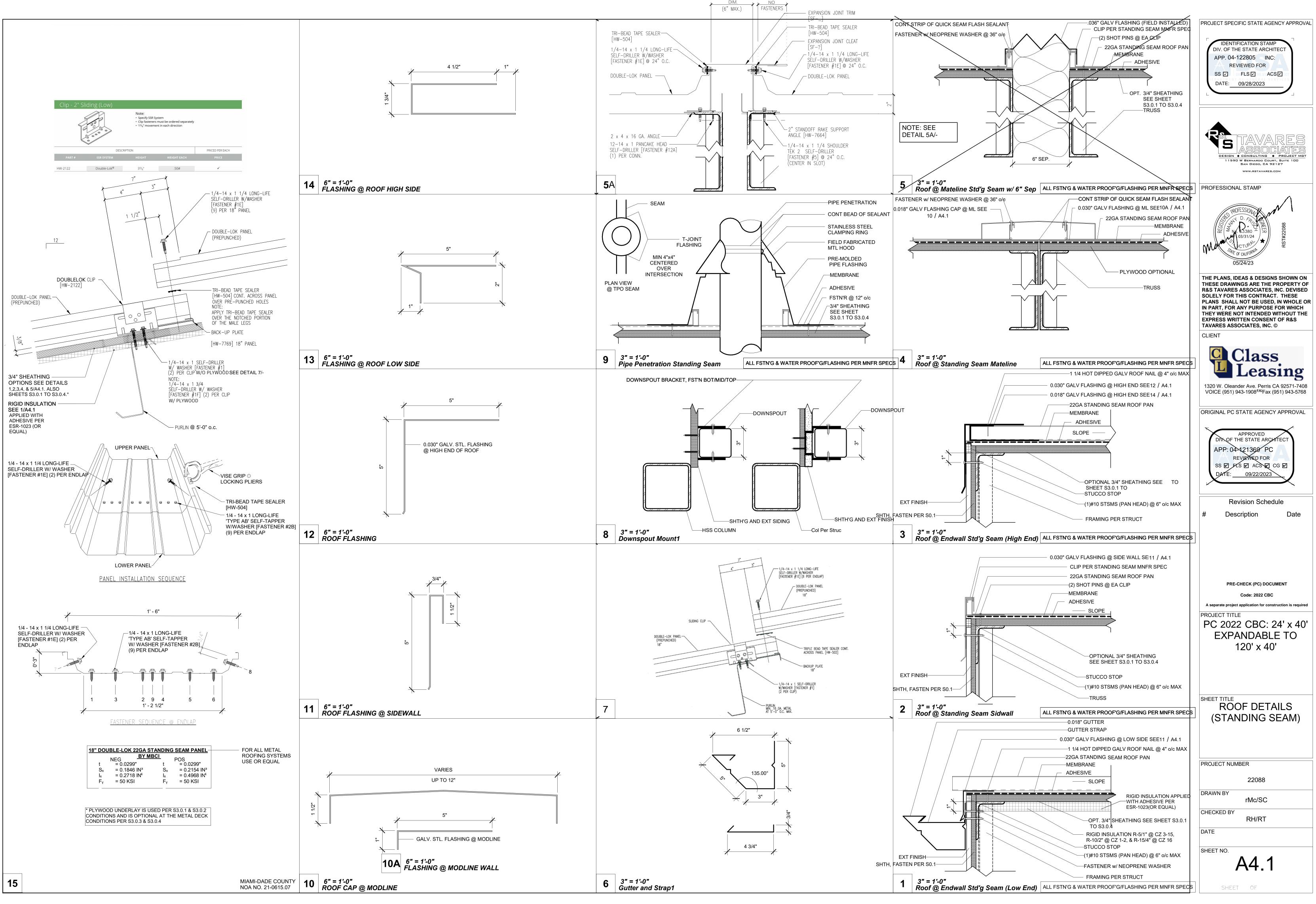
NOTE: 1.ITEMS SHOWN WITH A MFR CALLOUT MAY BE SUBSTITUTED WITH AN OR EQUAL OR GREATER PRODUCT WITH DSA APPROVAL



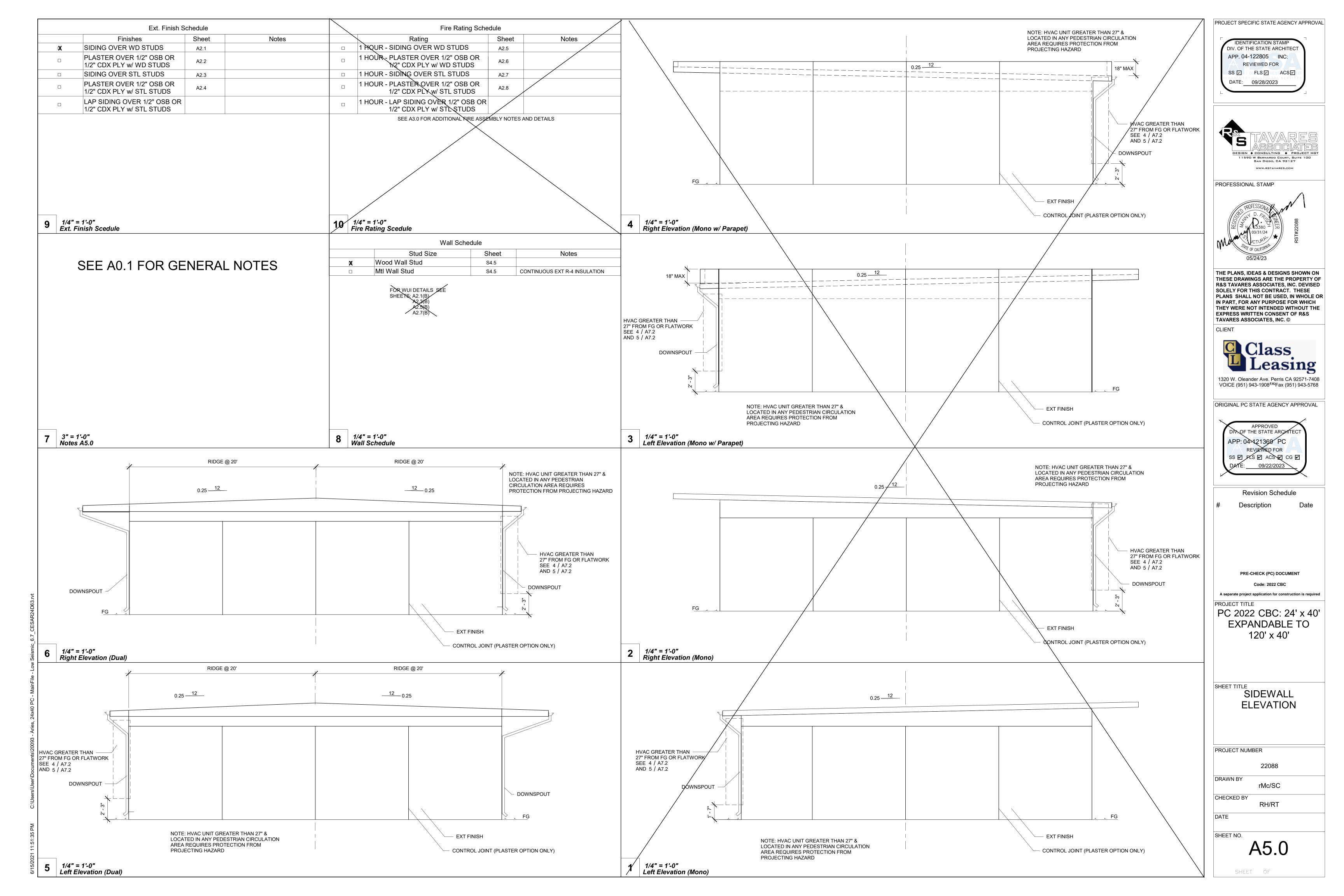




ON FOR CONDENSATION CONTROL							
ONE	IE MINIMUM <i>R</i> -VALUE OF AIR IMPERMEABLE INSULATION						
oof only 0 (none required)							
B, 3C	R-5						
	R-10						
	R-15						
	R-20						
	R-25						
	R-30						
	B-35						

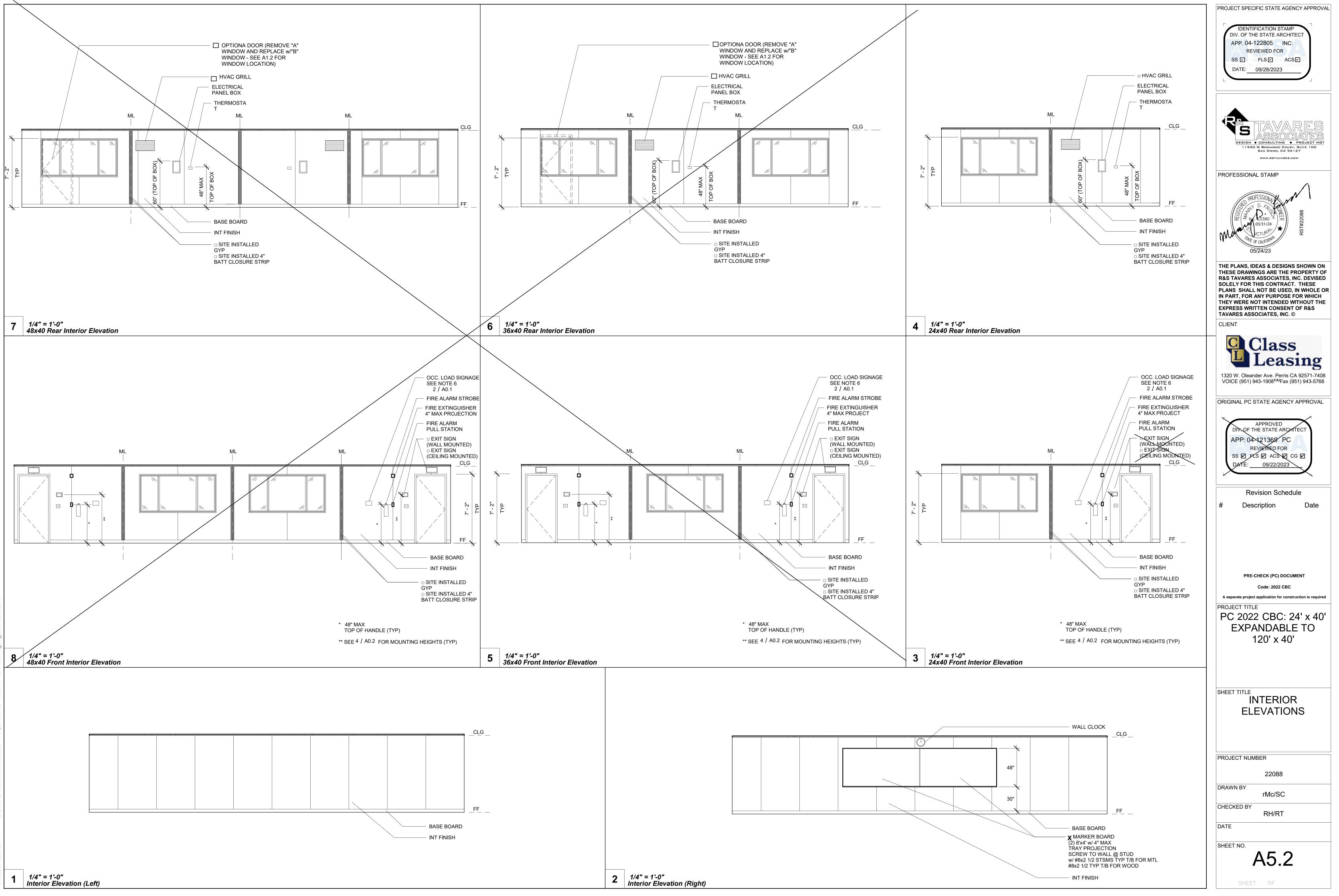


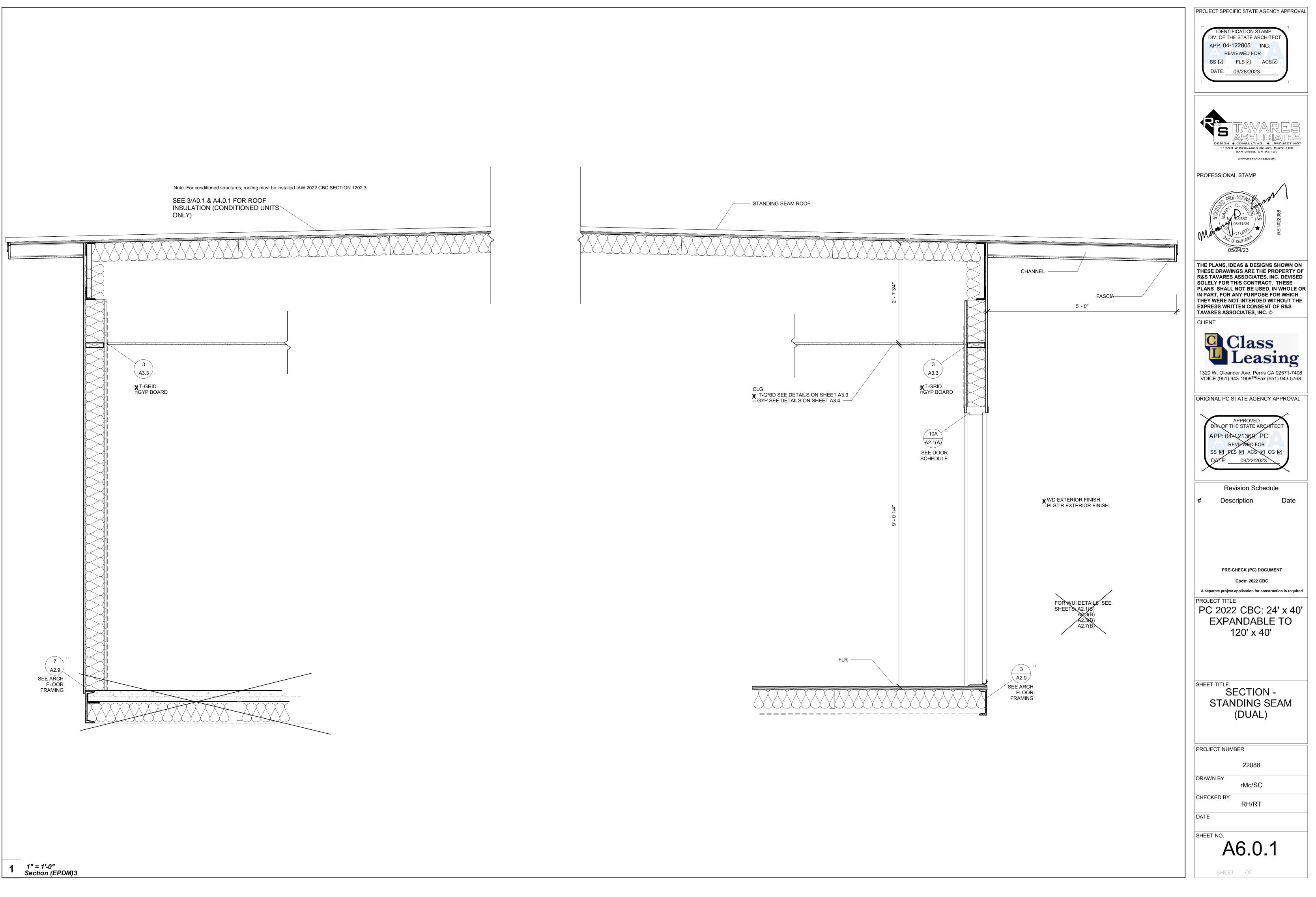
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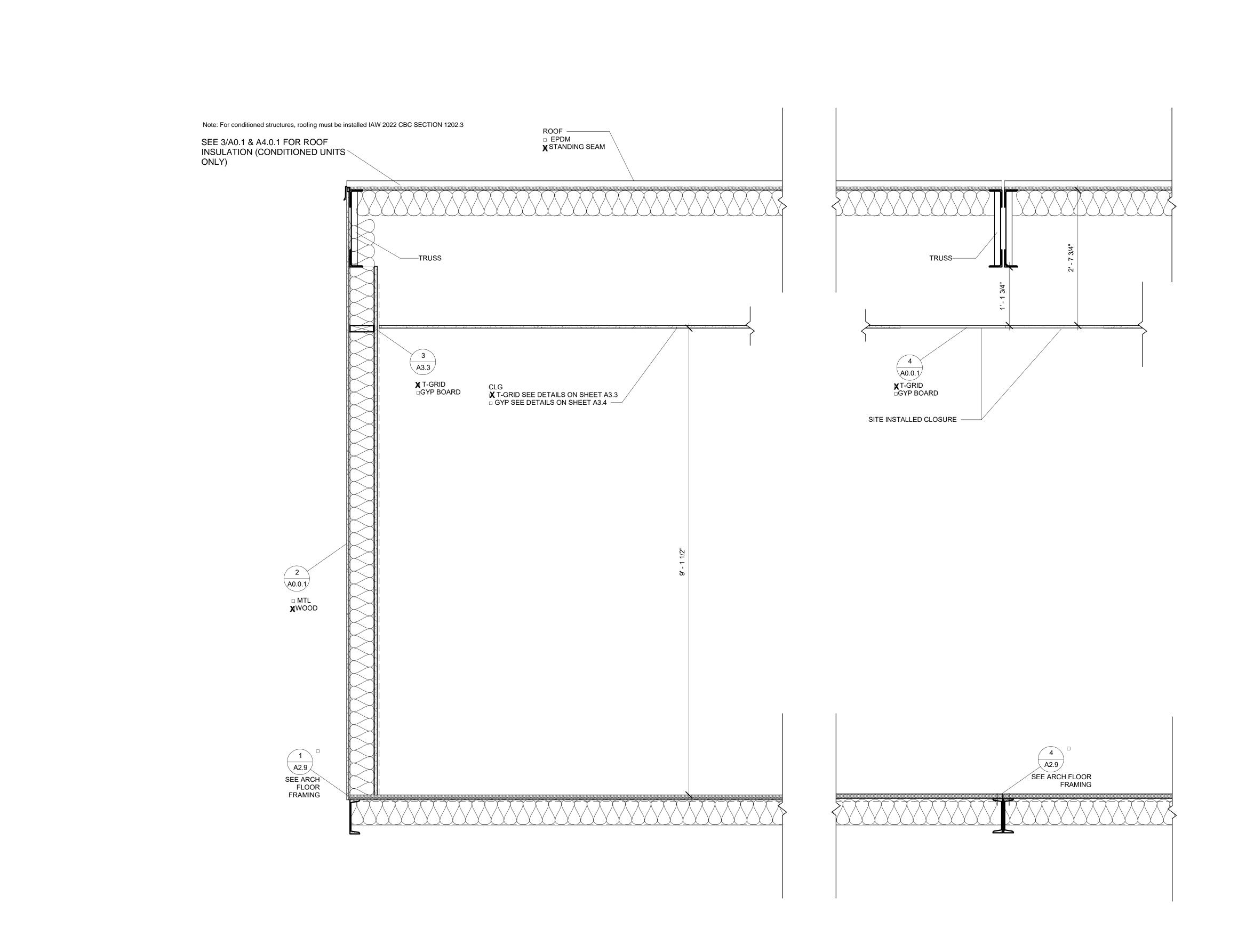




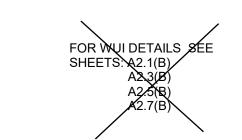
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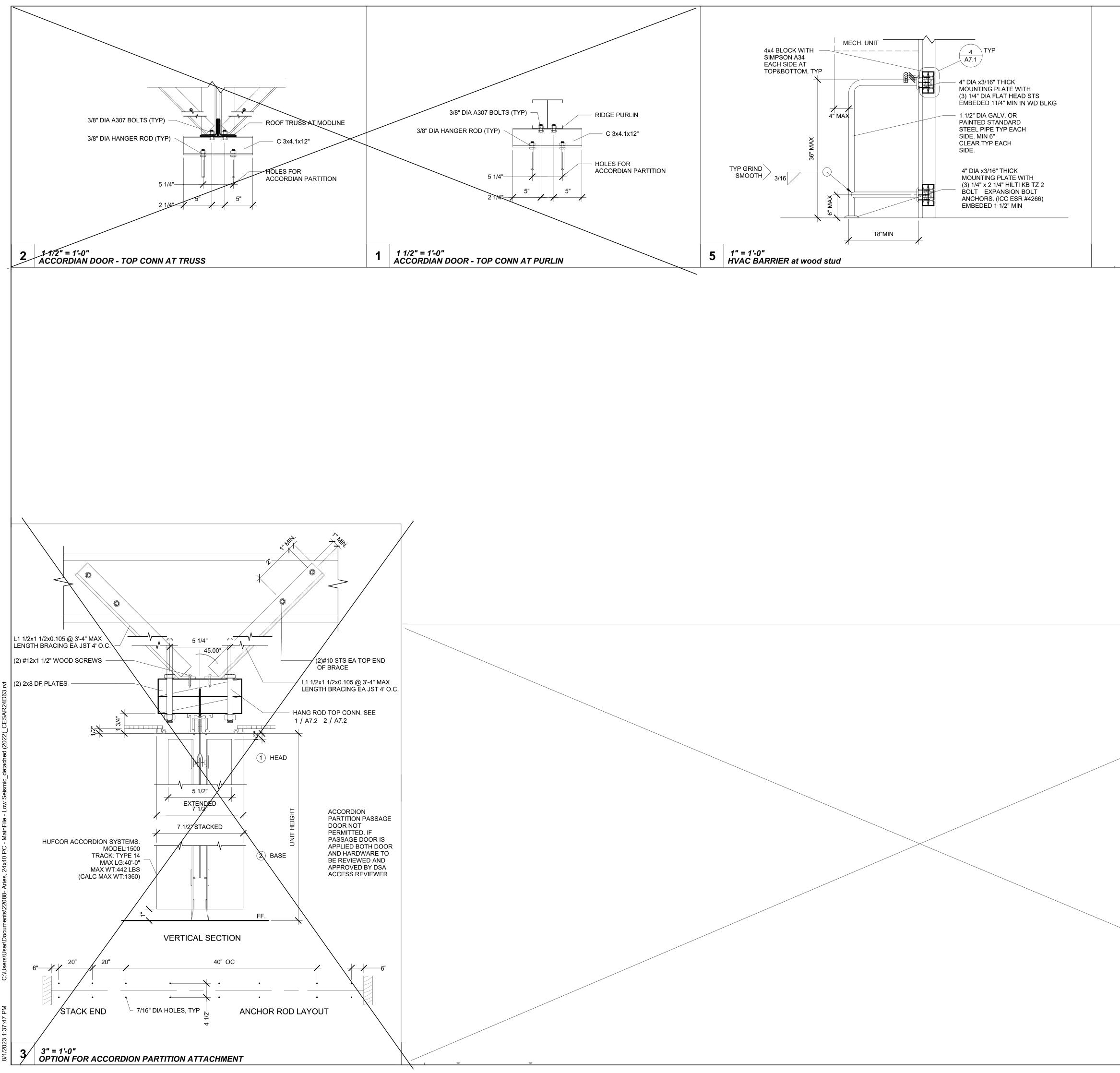






PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 09/28/2023
DESIGN & CONSULTING & PROJECT MGT 1590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP BROFESSIONAL STAMP BROFES
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE SECTION
PROJECT NUMBER 22088 DRAWN BY
rMc/SC CHECKED BY RH/RT DATE
<b>SHEET NO.</b> <b>Аб.2</b> SHEET OF





PROJECT SPECIFIC STATE AGENCY APPROVAL
DATE: 09/28/2023
DESIGN + CONSULTING + PROJECT MET 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP BODY PROFESSIONAL STAMP BODY PROFESSIONAL STAMP BODY PROFESSIONAL STAMP BODY
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Class Leasing 1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 FAIFax (951) 943-5768
ORIGINAL PC STATE AGENCY APPROVAL
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required
PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE ADDITIONAL OPTION DETAILS
PROJECT NUMBER 22088
DRAWN BY rMc/SC CHECKED BY RH/RT DATE
<b>SHEET NO.</b> <b>А7.2</b> SHEET OF

INSPECTOR AND THE DISTRICT

WIRE	CAPACITY	WIRE	NO. OF CONDUCTOR PERMITTED				
SIZE		TYPE	1/2" C	3/4" C	1" C	1 1/4" C	
#12	20A	THHN	9	16	25	45	
#10	30A	THHN	5	10	16	28	
#8	45A	THHN	2	5	8	14	
#6	65A	THHN	1	3	5	10	
#4	85A	THHN	1	2	4	7	

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

### CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

вох	SIZE	CU. IN.	MAX	(NO. OF	CONDUC	TORS
BUA	SIZE	CO. IN.	#12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

\* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

# **2** JUNCTION BOX SIZE TABLE

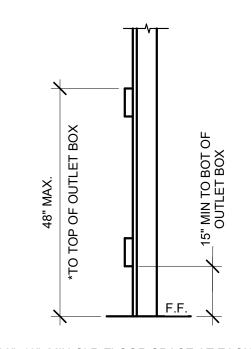
915.4 CARBON MONOXIDE ALARMS. CARBON MONOXIDE ALARMS SHALL COMPLY WITH SECTIONS 915.4.1 THROUGH 915.4.4.

[F] 915.4.1 POWER SOURCE. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM BATTERY. WIRING SHALL BE PERMANENT AND WITH-OUT A DISCONNECTING SWITCH OTHER THAN REQUIRED FOR OVERCURRENT PROTECTION.

915.2.3 GROUP E OCCUPANCIES. CARBONS MONOXIDE DETECTION SHALL BE INSTALLED IN CLASSROOMS IN GROUP E OCCUPANCIES. CARBON MONOXIDE ALARM SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN ON-SITE LOCATION THAT IS STAFFED BY SCHOOL PERSONNEL.

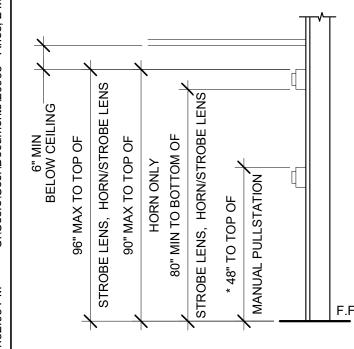
915.3 DETECTION EQUIPMENT. CARBON MONOXIDE DETECTION REQUIRED BY SECTIONS 915.1 THROUGH 915.2.3 SHALL BE PROVIDED BY CARBON MONOXIDE DETECTION SYSTEMS COMPLYING WITH SECTION 915.5.

### **CARBON MONOXIDE DETECTION - SECTION 915**



\* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

#### - 4 MOUTING ELEV.



25" MAX FOR SIDE APPROACH KNEE PROV APPP STATION CLEARAN 🗕 25" MAX 🚽

\* SEE DETAIL 2/M0.2

THE KNEE/TOE SPACE MUST EXTEND TO THE SAME DEPTH AS THE ACCESSIBLE OUTLET/SWITCH LOCATED ABOVE- 25" MAX 11.B308.2.2

OVER OBSTRUCTION

#### NOTES:

1. PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION.

2. THE SWITCH OR SWITCHES INSTALLED IN EMERGENCY LIGHTING CIRCUITS SHALL BE SO ARRANGED THAT ONLY AUTHORIZED PERSONNEL WILL HAVE CONTROL OF EMERGENCY LIGHTING. (CEC art. 700.20)

3. PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B). BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

4. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS.

5. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES. THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

#### NOTES:

250.56

GROUND RODS.

BURIED IN A TRENCH 30" DEEP MINIMUM.

# THE PROJECT INSPECTOR AND THE DISTRICT.

#### TYPICAL GROUNDING DETAILS

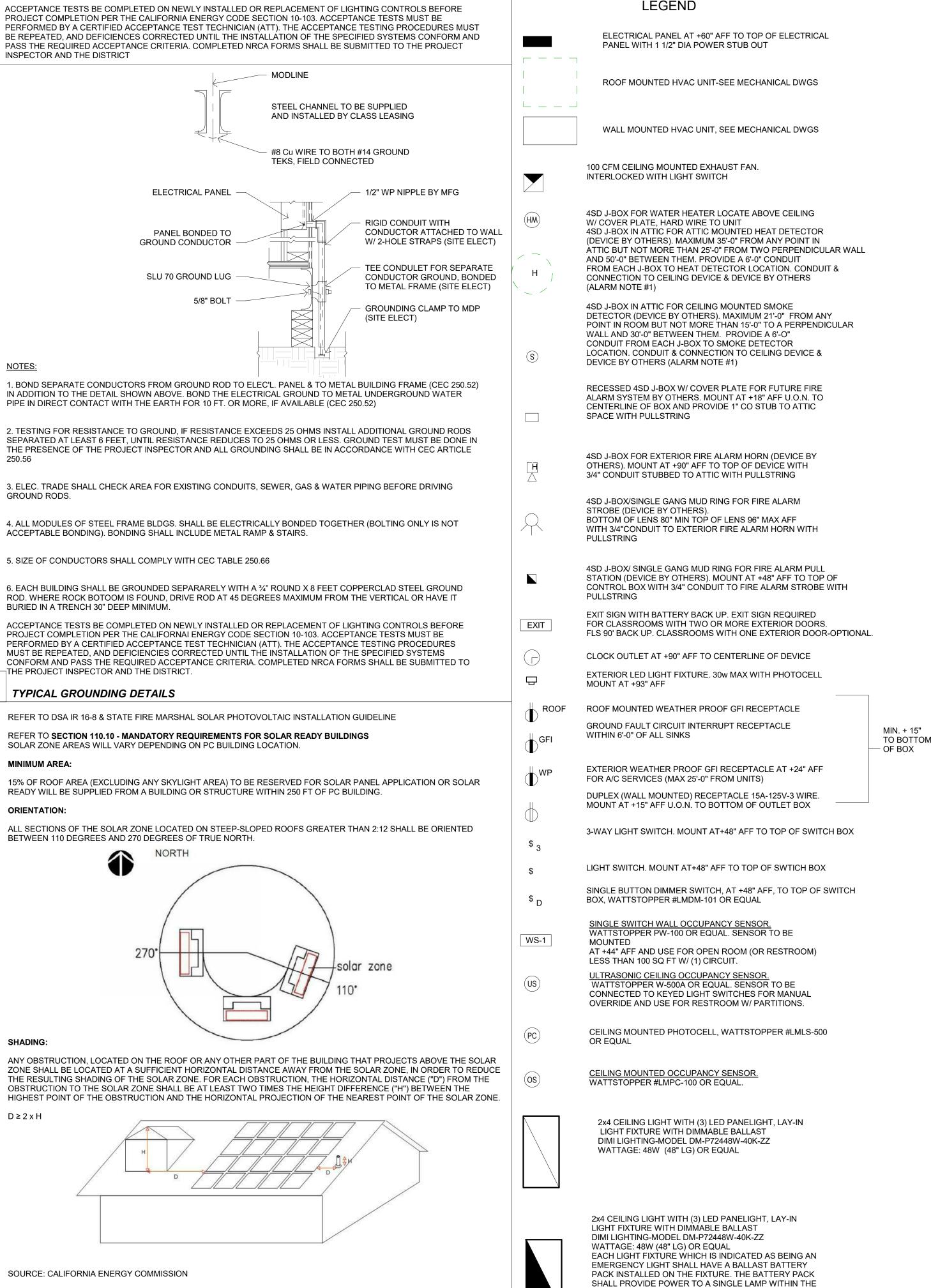
#### MINIMUM AREA:

**ORIENTATION:** 

27

#### SHADING:

D ≥ 2 x H



SOURCE: CALIFORNIA ENERGY COMMISSION

STRUCTURAL DESIGN LOADS:

INTERCONNECTION PATHWAYS:

THE LOCATION FOR INVERTERS AND METERING EQUIPMENT AND A PATHWAY FOR ROUTING OF CONDUIT FROM THE SOLAR ZONE TO THE POINT OF INTERCONNECTION WITH THE ELECTRICAL SERVICE WILL VARY DEPENDING ON PC BUILDING LOCATION.

SOLAR ZONE AREA

FIRE ALARM MOUNTING HEIGHTS

ENTIRE ROOF SURFACE IS DESIGNED STRUCTURALLY TO ACCOMMODATE SOLAR PANELS = 3 PSF

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

THE FIXTURE OFF.

FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT

FIXTURE Equipped WITH A BATTERY PACK SHALL BE

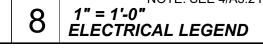
WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE

FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE

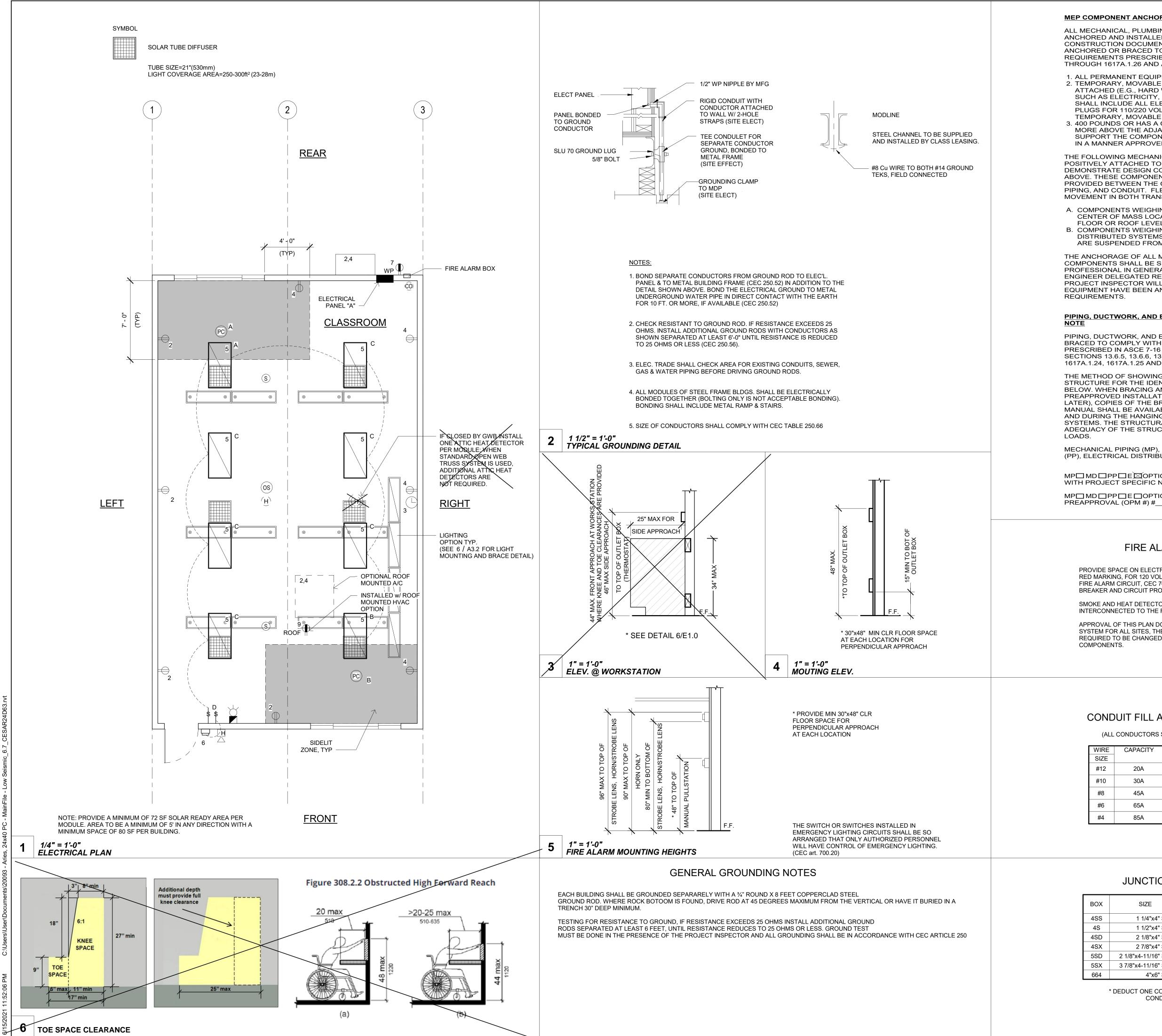
OPERATED USING BATTERY POWER LIGHTING CONTROL

SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT

ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE



1.	INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) - 2020 EDITION AND NATIONAL FIRE PROTECTION ASSOCIATION FIRE CODES (NFPA). AND 2022 CBC ELECTRICAL CODE.	
2.	ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED AND ADJUSTED FOR FIELD CONDITIONS.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
3.	RECEPTACLES AND TELEPHONE/DATA OUTLETS SHALL BE INSTALLED 18" AFF TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.	SS I FLS I ACS I T
4.	CONTRACTOR SHALL FIELD TEST AND PROVIDE TEST REPORT VERIFYING THAT RECEPTACLES ARE WIRED AND FUCTION PROPERLY.	DATE: 09/28/2023
5.	CONTRACTOR SHALL LABEL EACH RECEPTACLE, LIGHT FIXTURE, TOGGLE SWITCH, SAFETY SWITCH AND OCCUPANCY SENSOR WITH PANEL NAME AND BRANCH CIRCUIT ID.	
6.	WEATHERPROOF RECEPTACLES SHALL BE TYPE TO PROTECT RECEPTACLE FROM WEATHER WHEN PLUG INSERTED.	
7.	THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR SHALL ASSUME NOTES LISTING MATERIAL AND/OR EQUIPMENT BEGIN WITH THE WORDS "SUPPLY AND INSTALL" U.O.N.".	CONSULTING + PROJECT MET
8.	CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE SUBMITTING MATERIAL AND BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE SITE. BY THE ACT OF SUBMITTING PROPOSED MATERIALS FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS RESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS, WHICH MAY EXIST.	PROFESSIONAL STAMP
9.	CONTRACTOR'S SCOPE SHALL INCLUDE ALL WORK SHOWN ON THE PLANS AND SPECIFICATIONS. SUBSTITUTION REQUESTS FOR EQUIPMENT SPECIFIED SHALL BE SUBMITTED FOR CONSIDERATION TO THE OWNER AND ENGINEER IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD, OR THE WORK OF OTHER CONTRACTORS.	PROFESSION PROFESSION D. AP CHIEFE BOD D. AP CHIEFE D. AP CHIEFE
10.	COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.	05/24/23 THE PLANS, IDEAS & DESIGNS SHOWN ON
11.	UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME.	THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR
12.	ALL PENETRATIONS IN RATED WALLS (INDICATED IN ARCHITECTURAL LIFE SAFETY PLANS), ARE TO BE INSTALLED USING THE APPROPRIATE UL RATED PENETRATION ASSEMBLIES.	IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S
13.	EQUIPMENT SHALL BE LISTED, LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AS RECOGNIZED BY THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AN HEALTH ADMINISTRATION.	TAVARES ASSOCIATES, INC. ©
14.	ALL ELECTRICAL EQUIPMENT CONNECTORS SHALL BE 75° RATED.	CLASS
15.	ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.	
	<ul> <li>A. ALL PERMANENT EQUIPMENT AND COMPONENTS.</li> <li>B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.</li> <li>C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.</li> </ul>	1221 Harley Knox Boulevard Perris, CA 92571 ORIGINAL PC STATE AGENCY APPROVAL
16.	THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC
	<ul> <li>A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.</li> <li>B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.</li> </ul>	REVIEWED FOR SS PLS ACS CG CG DATE: 09/22/2023
17.	FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT I NSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.	Revision Schedule # Description Date
18.	ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2022 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26	
19.	THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.	PRE-CHECK (PC) DOCUMENT
20.	COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.	Code: 2022 CBC
21.	THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	A separate project application for construction is required PROJECT TITLE
22.	ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.	PC 2022 CBC: 24' x 40'
23.	NON-CURRENT CARRYING METAL PARTS OF THE SYSTEM SHALL BE PROPERLY GROUNDED TO COMPLY WITH NEC REQUIREMENTS.	EXPANDABLE TO 120' x 40'
24.	EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.	
25.	TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250	
26.	PROVIDE A GREEN WIRE GROUND CONDUCTOR IN ALL CONDUITS WITH POWER OR LIGHTING CONDUCTORS.	GENERAL NOTES
27.	BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)	
28.	CHECK RESISTANT TO GROUND ROD. IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).	PROJECT NUMBER
29.	ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.	22088 DRAWN BY AM
30.	SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66	CHECKED BY
31.	PER CEC210.8(B) ALL RECEPTACLES AT THE FOLLOWING LOCATIONS SHALL HAVE GROUND- FAULT CIRCUIT INTERRUPTER (GFCI) - (1) BATHROOMS, (2) KITCHENS, (3) SINKS (WITHIN 6 FT), (4) INDOOR WET AREAS, (5) LOCKER ROOMS, (6) GARAGE, SERVICE BAYS OR SIMILAR, (7) ROOFTOPS, (8) OUTDOORS.	DATE
32.	IF CLOSED BY GWB INSTALL ONE ATTIC HEAT DETECTOR PER MODULE: WHEN STANDARD OPEN WEB TRUSS SYSTEM IS USED ADDITIONAL ATTIC HEAT DETECTORS ARE NOT REQUIRED.	SHEET NO. E0.1



ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

#### MEP COMPONENT ANCHORAGE NOTE

1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 3. 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

 $MP \square MD \square PP \square E \boxtimes OPTION 1: DETAILED ON THE APPROVED DRAWINGS$ WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH HCAI

### FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B). BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES, THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE

### CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

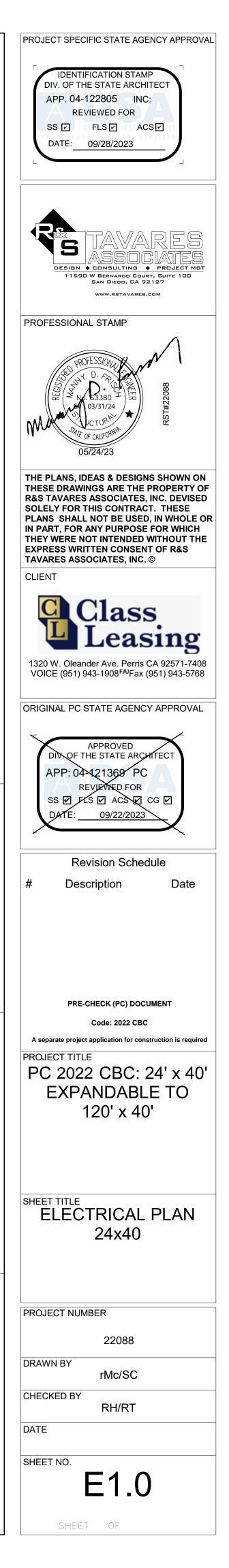
(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE	CAPACITY	WIRE	NO. OF CONDUCTOR						
SIZE		TYPE	1/2" C	3/4" C'MITT1" C		1 1/4" C			
#12	20A	THHN	9	16	25	45			
#10	30A	THHN	5	10	16	28			
#8	45A	THHN	2	5	8	14			
#6	65A	THHN	1	3	5	10			
#4	85A	THHN	1	2	4	7			

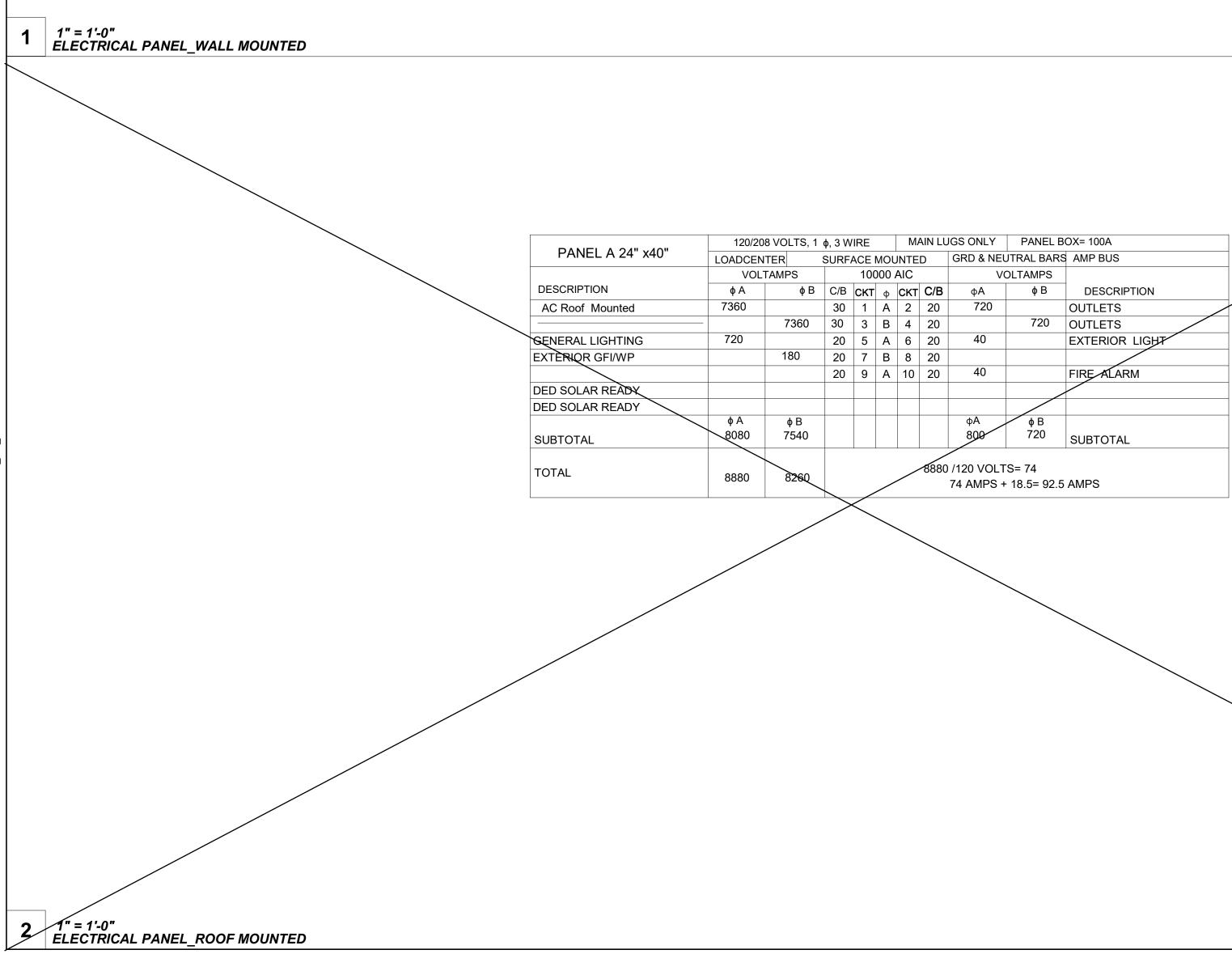
### JUNCTION BOX SIZE TABLE

зох	SIZE	CU. IN.	MAX	(NO. OF	CONDUC <sup>.</sup>	TORS
507	SIZE	CO. IN.	#12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

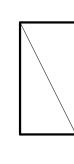
\* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX



	120/208	120/208 VOLTS, 1¢, 3 WIRE MAIN LUC					AIN LU	JGS ONLY	PANEL E	OX= 100A	
PANEL A 24" x40"	LOADCENT	CENTER SURFACE MOUNTED					D	GRD & NEU	GRD & NEUTRAL BARS AMP BUS		
	VOLT	AMPS		100	0000 AIC		V	OLTAMPS			
DESCRIPTION	φA	φB	C/B	СКТ	φ	СКТ	C/B	φA	φB	DESCRIPTION	
AC WALL MOUNTED	6670		30	1	Α	2	20	720		OUTLETS	
		6670	30	3	В	4	20		720	OUTLETS	
GENERAL LIGHTING	720		20	5	А	6	20	40		EXTERIOR LIGHT	
EXTERIOR GFI/WP		180	20	7	В	8	20				
			20	9	Α	10	20	40		FIRE ALARM	
DED SOLAR READY											
DED SOLAR READY											
SUBTOTAL	фА 7390	φ B 6850						фА 800	φ B 720	SUBTOTAL	
TOTAL	8190	7570	8190 /120 VOLTS= 68.25 76.25 AMPS + .94= 77.19 AMPS								



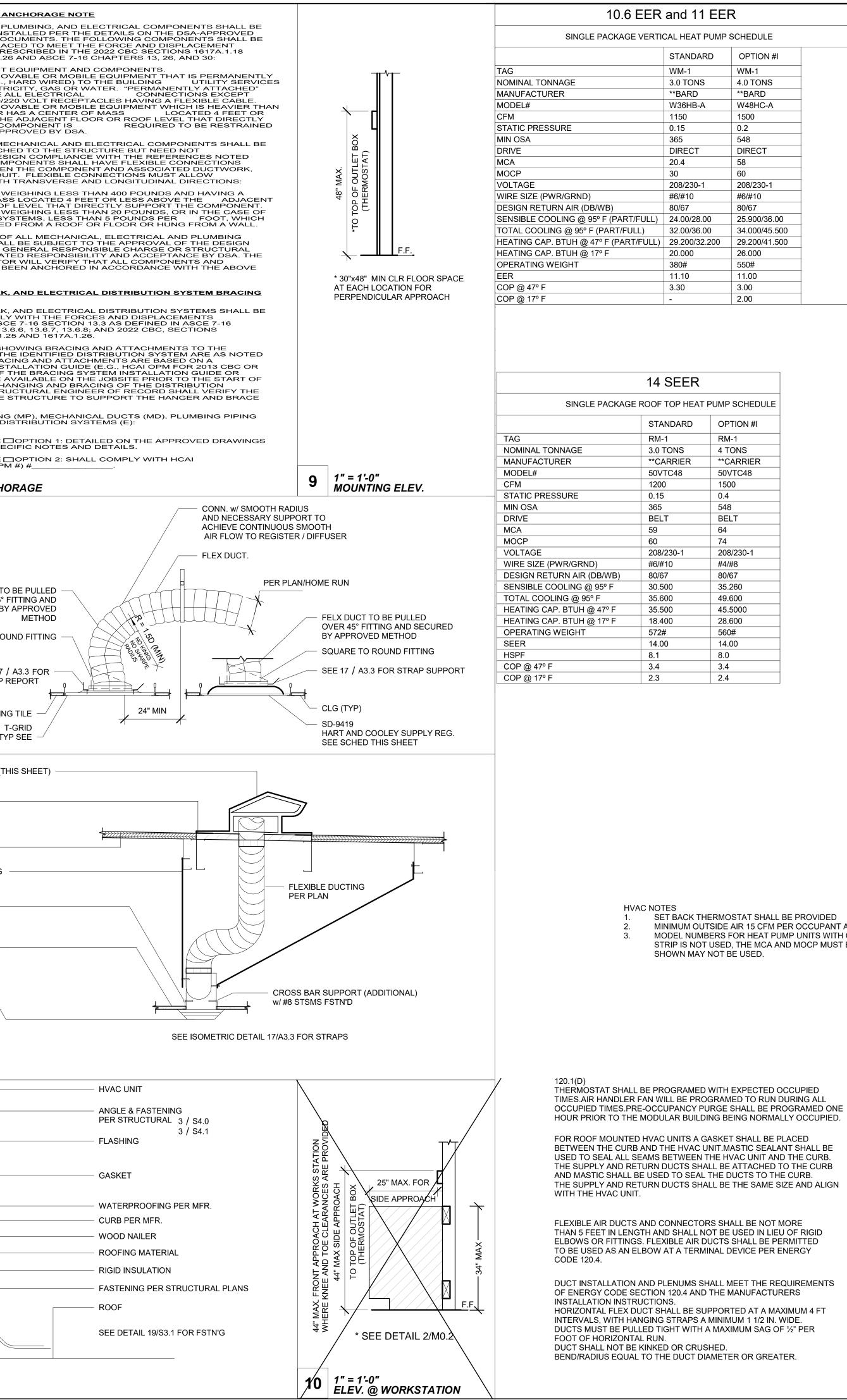




3 1" = 1'-0" LEGEND

LEGEND		PROJECT SPECIFIC STATE AGENCY APPROVAL
ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS		REVIEWED FOR SS I FLS ACS ACS DATE: 09/28/2023
WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS		
100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH		RETAVARES
4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)		DESIGN & CONSULTING PROJECT MGT 1 1 590 W BERNARDO COURT, SUITE 1 00 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM PROFESSIONAL STAMP
4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)		PROFESSIONA PROFESSIONA D. A. D.
RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING		05/24/23 THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED
4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING		SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING		CLIENT Class Leasing
4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING		1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. FLS 90' BACK UP. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL		ORIGINAL PC STATE AGENCY APPROVAL
CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF		APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC
ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS	MIN. + 15" TO BOTTOM — OF BOX	REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS) DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX		Revision Schedule # Description Date
3-WAY LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWITCH BOX		
LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWTICH BOX SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL		PRE-CHECK (PC) DOCUMENT
SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.		Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40'
ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.		EXPANDABLE TO 120' x 40'
CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL		
CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.		
2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL		SCHEDULES 24x40
		PROJECT NUMBER
2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY		22088 DRAWN BY rMc/SC
EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE		CHECKED BY RH/RT DATE
ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.		SHEET NO. E1.1
NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA		SHEET OF

ABB.					CRIPTION						SYMBOL	
WM					L MOUNTED	) UNIT					WM-1	ALL MECHANICAL, ANCHORED AND IN CONSTRUCTION D
				(SEE	SCHEDULE	E THIS SI	HEET)				RM-1	ANCHORED OR BR REQUIREMENTS P THROUGH 1617A.1
RM				(SEE	SCHEDULE	E THIS SI	,					1. ALL PERMANEN 2. TEMPORARY, M ATTACHED (E.G SUCH AS ELEC
P.O.C CO					NT OF CONN						P.O.C	SUCH AS ELEC SHALL INCLUDE PLUGS FOR 110 TEMPORARY, M
BT				SEN	SOR ASS TIMER						(BT)	3. 400 POUNDS OF MORE ABOVE T SUPPORT THE IN A MANNER A
STAT				THE	RMOSTAT						(T)	THE FOLLOWING N POSITIVELY ATTAC DEMONSTRATE DE
UC				UND	ERCUT DOC	DR						ABOVE. THESE CO PROVIDED BETWE PIPING, AND CONE
MVD				MAN	IUAL VOLUM	1E DAMP	ER					A. COMPONENTS CENTER OF M
FD				FIRE	DAMPER						•	FLOOR OR RO B. COMPONENTS DISTRIBUTED ARE SUSPEND
VTR				VEN	T THRU ROO	DF					$\square$	THE ANCHORAGE COMPONENTS SH
ER												PROFESSIONAL IN ENGINEER DELEG PROJECT INSPEC EQUIPMENT HAVE
CR CD					URN CEILING							REQUIREMENTS.
(L)												<u>NOTE</u> PIPING, DUCTWOI
EAD				EXH	AUST AIR DI	UCT						BRACED TO COM PRESCRIBED IN A SECTIONS 13.6.5, 1617A.1.24, 1617A
RAD				RET	URN AIR DU	СТ						THE METHOD OF STRUCTURE FOR BELOW. WHEN BF
SAD				SUP	PLY AIR DUC	СТ						PREAPPROVED IN LATER), COPIES C MANUAL SHALL B AND DURING THE
EF				EXH	AUST FAN						EF -	AND DURING THE SYSTEMS. THE ST ADEQUACY OF TH LOADS.
CO2					BON MONOX SOR	XIDE					(CO2)	MECHANICAL PIPI (PP), ELECTRICAL
1" = LEG				-								
			ХПУП									
					\( \)							<b>5</b> 1" = 1'-0" EQUIPMENT ANC
SYM.	USE	MFR/MC	DDEL	CFM	SOUND LEVEL	SP	VOLTS	ø	POWER	WGT#	NOTES	
EF A	BATHROOM EXHAUST	*BROAN	NL100	109	1.0 SONES	0.25	120	1	87 WATTS	22.80#	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT	
											SWITCH WITH BROAN ROOF CAP #634.	FLEX DUCT
B	BATHROOM EXHAUST	*BROAN	N L200	210	2.0 SONES	0.25	120	1	127 WATTS	23#	PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #634.	OVER 4 SECURED SQUARE TO
EF C	DATUDOON	1			1	1	1	1		1		SQUARE IUI
	BATHROOM EXHAUST	*BROAN	N L300	308	2.8 SONES	0.25	120	1	212 WATTS	23.10#	PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH	SEE
EF	EXHAUST	*BROAN		308 100	SONES	0.25	120	1		23.10#	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF.	SEE STRA
	EXHAUST BATHROOM EXHAUST * OR APPROV	*BROAN	N 676		SONES				WATTS 156		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA.	- SEE - STRA
D	EXHAUST BATHROOM EXHAUST	*BROAN ED EQUAI	N 676 L.	100	4.0 SONES	0.25			WATTS 156		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF.	SEE 1 STRA
D 1" = CEIL	EXHAUST BATHROOM EXHAUST *OR APPROV <b>1'-0"</b>	*BROAN ED EQUAI	N 676 L. <b>HAUS</b> 7	100 <b>T FAN S</b>	SONES 4.0 SONES	0.25	120		WATTS 156		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF.	H. CEI
D 1" = CEIL	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" .ING MOUNT	*BROAN ED EQUAI	N 676 L. <b>HAUS</b> 7	100 <b>T FAN S</b> E SCH	SONES 4.0 SONES	0.25 . <b>E</b> (SUF	120		WATTS 156		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH	- SEE - STRA
D 1" = CEIL	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" .ING MOUNT	*BROAN ED EQUAI	N 676 L. HAUST RILLE NECK S	100 <b>T FAN S</b> E SCH	SONES SONES SCHEDULE	0.25 .E (SUF M GE)	2PLY)	1	156 WATTS	7#	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH	ROOF CAP PER SCHEDULE ATTACH PER MFR.
□       1" =   CEIL ERFOI	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN ED EQUAI	N 676 L. HAUST	100 <b>T FAN S</b> E SCH	SONES SONES SCHEDULE	0.25 .E (SUF M GE)	2PLY)	1	WATTS 156	7#	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE ALL 4-SIDES (CONT.)
□     <i>1" =</i>   <i>CEIL</i> 	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" .ING MOUNT	*BROAN ED EQUAI	N 676 L. HAUST RILLE NECK S	100 <b>T FAN S</b> E SCH SIZE	SONES SONES SCHEDULE	0.25 0.25 .E (SUF M GE) 50	PLY)		156 WATTS	7# NOTES	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING
□     1" =   CEIL ERFOI	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN ED EQUAI	N 676 L. HAUS RILLE NECK S	100 T FAN S E SCH	SONES 4.0 SONES SCHEDULE IEDULE CFN ( RANG 0-1	0.25 0.25 .E (SUF MGE) 50 230	PLY)		UNATTS 156 WATTS TAIL FOR M	NOTES	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING
□     <i>1" =</i>   <i>CEIL</i>     CEIL	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN ED EQUAI	N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-:	0.25 0.25 0.25 (SUF MGE) 50 230 350	PLY)		TAIL FOR M	7# 7# NOTES	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
□     1" =   CEIL ERFOI	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN ED EQUAI	N 676 L. HAUS RILLE NECK S 6"@ 8"@	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE CFN ( RANG 0-1: 150-1	0.25 0.25 0.25 (SUF MGE) 50 230 350	PLY)		TAIL FOR M	7# 7# NOTES	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN ED EQUAI	N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
D       1" =         1" =       CEIL         CEIL       T-BA	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA		N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANO 0-1: 150-: 230-: 350-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR
р 1" = СЕІЦ ЕRFOI	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA		N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANO 0-1: 150-: 230-: 350-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
D       1" =         1" =       CEIL         CEIL       16         Interview       16         Interview       T-BA	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA		N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANO 0-1: 150-: 230-: 350-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULI ATTACH PER MFR. MASTIC SET FLANGE
I" =   CEIL   CEIL   CEIL   CEIL   T-BA   ed Curve B	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA 6x16-4W		N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANO 0-1: 150-: 230-: 350-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULI ATTACH PER MFR. MASTIC SET FLANGE
D       1" =         1" =       CEIL         CEIL       CEIL         SRFOI       16         T-BAI       T-BAI         ad Curve B       1" =	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA	*BROAN	N 676	100 T FAN S E SCH SIZE	SONES 4.0 SONES SCHEDULE IEDULE (RANO 0-1: 150-: 230-: 350-:	0.25 0.25 0.25 (SUF MGE) 50 230 350 460	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
D       1" =         1" =       CEIL         CEIL       16         T-BA       T-BA         ad Curve B       1" =         PFG       PFG	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA 6x16-4W		N 676	100 T FAN S E SCH	SONES SONES SCHEDULE (RANG 0-1: 150-: 230-: 350-: 460-: 460-:	.E (SUF MGE) 50 230 350 460 640 640	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M	7# 7# NOTES AKE AND AKE AND AKE AND AKE AND	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE
D       1" =         1" =       CEIL         ERFOI       16         T-BA       T-BA         ed Curve B       1" =         PFG       PFG	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA Sx16-4W		N 676	100 T FAN S E SCH	SONES SONES SCHEDULE (RANG 0-1: 150-: 230-: 350-: 460-:	.E (SUF MGE) 50 230 350 460 640 640	PLY)		TAIL FOR M TAIL FOR M TAIL FOR M		EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BA       17" =         d Curve I       1" =         PFG       PFG	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA Sx16-4W		N 676	100 T FAN S E SCH SIZE Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø	SONES SONES SCHEDULE (RANG 0-11 150-1 230-1 350-1 460-1 460-1 CFM	0.25 .E (SUF MGE) 50 230 350 460 640 640 640 640	2PLY) 2PLY) 2 SE 3		TAIL FOR M TAIL FOR M TAIL FOR M	7#         7#         NOTES         MAKE AND	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BA       16         ced Curve B       17" =         PFG       17" =	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA Sx16-4W		N 676	100         T FAN S         E SCH         SIZE         Ø	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 350-: 460-: 460-: CFM (RANG 0-23	(RET (SUF (SUF) 50 230 350 460 640 640 640	2PLY) 2   SE 3   SE 3		WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M	7#     7#     NOTES     MAKE AND     M	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN' PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         RFOI       16         T-BA       T-BA         d Curve I       PFG         RFOF       RFOF	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" RATED FA Sx16-4W		N 676	100         T FAN S         E SCH         SIZE         Ø	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 350-: 460-: 460-: CFM (RANG	(RET (SUF (SUF) 50 230 350 460 640 640 640	2PLY) 2   SE 3   SE 3		TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M	7#     7#     NOTES     MAKE AND     M	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN' PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         RFOI       16         T-BAI       17" =         d Curve I       17" =         PFG       RFOF	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" MG MOUNT RATED FA 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 1'-0" Blade, 4-way throwson		N 676	100         T FAN S         E SCH         SIZE         0	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 350-: 460-: 460-: CFM (RANG 0-23	(RET 460 460 460	2PLY) 2   120		WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M	7#         7#         NOTES         MAKE AND         MAKE AND<	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN' PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         CEIL       CEIL         RFOI       16         T-BA       Curve B         cd Curve B       PFG         RFOF       Curve B	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA Sx16-4W S		N 676	100         T FAN S         E SCH         SIZE         Ø	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: CFM (RANG 0-23 230-2	(RET 460 460 460 460 460			TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M	7#         7#         NOTES         MAKE AND         MAN FOR S	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN' PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BAI       10         Image: Second Curve B       17" =         PFG       RFOF         ERFOI       100	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" RATED FA 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 1'-0" SCHED (SU RATED FA		N 676	100         T FAN S         E SCH         SIZE         0	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: CFM (RANG 0-2: 230-: 460-: 230-: 460-:	(SUF (SUF (SUF) 50 230 350 460 640 640 640 640 640 640 640 640			WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M CH CLG PL CH CLG PL CH CLG PL	7#         7#         7#         NOTES         MAKE AND         MAN FOR S         AN FOR S	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BAI       10         D       17         T-BAI       17         RFOF       17         T-BAI       17         T-BAI       17         T-BAI       17         T-BAI       17         T-BAI       17	EXHAUST BATHROOM EXHAUST *OR APPROV 1'-0" ING MOUNT RATED FA Sx16-4W Sx1		N 676	100         T FAN S         E SCH         SIZE         0	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: 460-: CFM (RANG 0-23 230-2 230-2 350-2	(SUF (SUF (SUF) 50 230 350 460 640 640 640 640 640 640 640 640			WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M CH CLG PLA CH CLG PLA	7#         7#         7#         NOTES         MAKE AND         MAN FOR S         AN FOR S	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN' PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BAI       10         D       17         T-BAI       17         RFOF       17         T-BAI       17         PFG       17         T-BAI       17         D       17         D       17         T-BAI       17         D       17         D       17         D       17         D       17         T-BAI       17         D       17 </td <td>EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" RATED FA 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 1'-0" SCHED (SU RATED FA</td> <td></td> <td>N 676</td> <td>100         T FAN S         E SCH         SIZE         0</td> <td>SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: CFM (RANG 0-2: 230-: 460-: 230-: 460-:</td> <td>(SUF (SUF (SUF) 50 230 350 460 640 640 640 640 640 640 640 640</td> <td></td> <td></td> <td>WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M CH CLG PL CH CLG PL CH CLG PL</td> <td>7#         7#         7#         NOTES         MAKE AND         MAN FOR S         AN FOR S</td> <td>EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE</td> <td>ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —</td>	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" RATED FA 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 5x16-4W 1'-0" SCHED (SU RATED FA		N 676	100         T FAN S         E SCH         SIZE         0	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: CFM (RANG 0-2: 230-: 460-: 230-: 460-:	(SUF (SUF (SUF) 50 230 350 460 640 640 640 640 640 640 640 640			WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M CH CLG PL CH CLG PL CH CLG PL	7#         7#         7#         NOTES         MAKE AND         MAN FOR S         AN FOR S	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
D       1" =         1" =       CEIL         ERFOI       16         T-BAI       10         D       17         T-BAI       17         RFOF       17         T-BAI       17         PFG       17         T-BAI       17         Perfor       17	EXHAUST BATHROOM EXHAUST * OR APPROV 1'-0" ING MOUNT RATED FA 5x16-4W		N 676	100         T FAN S         E SCH         SIZE         0	SONES SONES SCHEDULE IEDULE (RANG 0-1: 150-: 230-: 460-: CFM (RANG 0-2: 230-: 460-: 230-: 460-:	(SUF (SUF (SUF) 50 230 350 460 640 640 640 640 640 640 640 640			WATTS 156 WATTS TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M TAIL FOR M CH CLG PL CH CLG PL CH CLG PL	7#         7#         7#         NOTES         MAKE AND         MAN FOR S         AN FOR S	EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH MODEL MODEL MODEL MODEL MODEL MODEL MODEL SIZE	ROOF CAP PER SCHEDULE ATTACH PER MFR. MASTIC SET FLANGE — ALL 4-SIDES (CONT.) SHTG AND — ROOFING STRAP(2-SIDES) AND FSTN PER 17 / A3.3 FAN MOUNT w/ — (2)#8 STSMS FSTN'R TO 2'-0" CROSSBAR T-GRID CLG AND PANEL —
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\$10.4(c)         Required Acceptance T           Controls         Required Acceptance T           Nake and Model - \$10.2(c)         Required Acceptance T           Nake and Model - \$10.2(c) <td></td> <td>Thermostat (Sensor)</td> <td></td> <td></td> <td></td>		Thermostat (Sensor)			
Make and Model Controls     Measured Acceptance Te Recommiser     Measured Acceptance Te Recommiser       Economiser     Responsible Person Recommiser     Responsible Person Responsible	Make and Model Controls     Measured Acceptance Te Recommiser     Measured Acceptance Te Recommiser       Economiser     Responsible Person Recommiser     Responsible Person Responsible	Make and Model Controls     Measured Acceptance Te Recommiser     Measured Acceptance Te Recommiser       Economiser     Responsible Person Recommiser     Responsible Person Responsible	Make and Model coverside - 9 100 2(e)     Hesponsible Person Recamentary       Exponsible Exponsible Controls     Hesponsible Person Required Acceptance Te Required Acceptance Te Make and Model - 9 100 4(e)     Hesponsible Person Required Acceptance Te Required Acceptance Te Make and Model - 9 100 4(e)       Economiser Controls     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)       Weikland NDM     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)       Weikland NDM     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)       Weikland NDM     Responsible Person Required Acceptance Te Make and Model - 9 100 4(e)     Responsible Person Required Acceptance Te Required Acceptance Te Required Acceptance Te Responsible Person Required Acceptance Te Responsible Person Responsible Person Responsible Person Responsible Person Responsible Person Responsible Pe	Make and Model coverside - 3 120.2(a)     Responsible Person Recommitter       Exponentiater     9.100.4(a)       Responsible Person Responsible Person Responsibl	Make and Model coverside - 3 120.2(a)     Responsible Person Recommitter       Exponentiater     9.100.4(a)       Responsible Person Responsible Person Responsibl		Setback – § 110.2(c) Heat Pumps – § 110.2(b)			NRCA-MCH-03-A
Economizer Index and Model = 9 10.4(e)     Image: Control Section 10 (Control Recommizer Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Re	Economizer Index and Model = 9 10.4(e)     Image: Control Section 10 (Control Recommizer Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Re	Economizer Index and Model = 9 10.4(e)     Image: Control Section 10 (Control Recommizer Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommizer Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Control Recommiser Re	Economizer Index and Model = 9 10.4(e)         Image of the equived Acceptance Te Network Acceptance	Economizer Index and Model = 9 100.4(e)         Image of the second	Economizer Index and Model = 9 100.4(e)         Image of the second		Make and Model Occupancy Sensor or 4 hr			Required Acceptance Te
Make and Model - 9 140.4(c)     MRCAMCH 02A and 05       Controls     Responsible Person       Read and Model - 9 100.4(c)     Responsible Person       Read and Model - 9 120.4(c)     Responsible Person       Nake and Model - 9 120.2(c)     Responsible Person       Responsible Person     Responsible Person	Make and Model - 9 140.4(c)     MRCAMCH 02A and 05       Controls     Responsible Person       Read and Model - 9 100.4(c)     Responsible Person       Read and Model - 9 120.4(c)     Responsible Person       Nake and Model - 9 120.2(c)     Responsible Person       Responsible Person     Responsible Person	Make and Model - 9 140.4(c)     MRCAMCH 02A and 05       Controls     Responsible Person       Read and Model - 9 100.4(c)     Responsible Person       Read and Model - 9 120.4(c)     Responsible Person       Nake and Model - 9 120.2(c)     Responsible Person       Responsible Person     Responsible Person	Make and Model - 5 140.4(c)     NRCA-MCH-02A and 05       Controls     Responsible Person       Read and Model - 6 140.4(c)     Responsible Person       Fault Detection Software     Responsible Person       Nate and Model - 6 120.2(c)     Responsible Person       Responsible Person     Responsible Person       Nate and Model - 120.2(c)     Responsible Person       Responsible Person     Responsible Person       Responsible Person     Responsible Person       Nate and Model - 120.2(c)     Responsible Person       Responsible Person     Responsible Person       Responsible Person <td>Make and Model - 9:100.4(c)     NRCA-MCI-02-A and 0       Controls     Responsible Fersion       Result Detection Software     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     Responsible Fersion       Responsible Fersion     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     N</td> <td>Make and Model - 9:100.4(c)     NRCA-MCI-02-A and 0       Controls     Responsible Fersion       Result Detection Software     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     Responsible Fersion       Responsible Fersion     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     N</td> <td></td> <td>Economizer</td> <td></td> <td></td> <td></td>	Make and Model - 9:100.4(c)     NRCA-MCI-02-A and 0       Controls     Responsible Fersion       Result Detection Software     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     Responsible Fersion       Responsible Fersion     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     N	Make and Model - 9:100.4(c)     NRCA-MCI-02-A and 0       Controls     Responsible Fersion       Result Detection Software     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     Responsible Fersion       Responsible Fersion     Responsible Fersion       Nate and Model - 9:100.1(c)     Responsible Fersion       Network     N		Economizer			
Make and Model = 5 140.4(c)     MRCA MCH 022 A and 54       Full Detection Software Full Detection Software Full Detection Software Full Detection Software In CRM from 172 - 9 120.1(c)     Responsible Person)       In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       If economizer     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make Model     Responsible Per	Make and Model = 5 140.4(c)     MRCA MCH 022 A and 54       Full Detection Software Full Detection Software Full Detection Software Full Detection Software In CRM from 172 - 9 120.1(c)     Responsible Person)       In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       If economizer     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make Model     Responsible Per	Make and Model = 5 140.4(c)     MRCA MCH 022 A and 54       Full Detection Software Full Detection Software Full Detection Software Full Detection Software In CRM from 172 - 9 120.1(c)     Responsible Person)       In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer In CRM from 172 - 9 120.1(c)     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       If economizer is not used specify     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       If economizer     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make and Model - 1220.1(d)     Responsible Person)     Responsible Person)       Make Model     Responsible Per	Make and Model = 5 100.4(c)     NICLANCH O2A and D3       Full Detection Software Full Detection Software Full Detection Software Full Detection Software Full Detection Software Full Detection Software Full Detection Software In CRM from 172 - 9 120.1(c)     IResponsible Person) Required Acceptance Te NICLANCH C2A and TA Required Acceptance Te NICLANCH C2A.       Ventilation Control Ventilation Software Make and Model - 1220.1(d)     IResponsible Person) Required Acceptance Te NICLANCH C2A.       Demand Control Ventilation Cost of the control Ventilation Software Make and Model - 1220.1(d)     IResponsible Person) Required Acceptance Te NICLANCH C2A.       Make and Model - 1220.1(d)     IResponsible Person) Required Acceptance Te NICLANCH C2A.     IResponsible Person) Required Acceptance Te NICLANCH C2A.       Make and Model - 1220.1(d)     IRESPONSIBLE Reson NICLANCH C2A.     IResponsible Person) Required Acceptance Te NICLANCH C2A.       Make and Model - 1220.1(d)     IRESPONSIBLE Reson NICLANCH C2A.     IRESPONSIBLE Reson NICLANCH C2A.       In Demand Control Ventiliation Controls Make Model Model - 1220.1(C) T. TIL TERS REEQ D FOR ALL	Make and Model = 5 140.4(c)     NRCA ACI-102A and 13       Fault Detection Software Fault Detection Software Hake and Model = 510.2(t)     NRCA ACI-12A and 13- NRCA ACI-12A and 13- NR	Make and Model = 5 140.4(c)     NRCA ACI-102A and 13       Fault Detection Software Fault Detection Software Hake and Model = 510.2(t)     NRCA ACI-12A and 13- NRCA ACI-12A and 13- NR		Make and Model – § 140.4(e) Economizer			NRCA-MCH-02-A and 05 (Responsible Person)
Full Detection Software     Required Acceptance Te       NotXide Air     NRCA-MCH23 Acr 13A       Outside Air     NRCA-MCH23 Acr 13A       In CMF from 724 - 9 120 1(c)3     NRCA-MCH23 Acr 13A       Vertilation Kit     Responsible Person)       If economizer is not used specify     NRCA-MCH23 Acr 13A       Demand Control Vertilation     Responsible Person)       Co.3 second with population     Responsible Person)       Nake and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Make and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Minimum DV Outside Air in CFM     NRCA-MCH22 Acr       135 x conditioned floor area -     NRCA-MCH22 Acr       NRCA-MCH22 Acr     NRCA-MCH22 Acr       Network Model - 432.0 1(d)4     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     Acr       Network Model - 120.1 (C)1. FILTERS REQU'D FOR ALL	Full Detection Software     Required Acceptance Te       NotXide Air     NRCA-MCH23 Acr 13A       Outside Air     NRCA-MCH23 Acr 13A       In CMF from 724 - 9 120 1(c)3     NRCA-MCH23 Acr 13A       Vertilation Kit     Responsible Person)       If economizer is not used specify     NRCA-MCH23 Acr 13A       Demand Control Vertilation     Responsible Person)       Co.3 second with population     Responsible Person)       Nake and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Make and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Minimum DV Outside Air in CFM     NRCA-MCH22 Acr       135 x conditioned floor area -     NRCA-MCH22 Acr       NRCA-MCH22 Acr     NRCA-MCH22 Acr       Network Model - 432.0 1(d)4     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     Acr       Network Model - 120.1 (C)1. FILTERS REQU'D FOR ALL	Full Detection Software     Required Acceptance Te       NotXide Air     NRCA-MCH23 Acr 13A       Outside Air     NRCA-MCH23 Acr 13A       In CMF from 724 - 9 120 1(c)3     NRCA-MCH23 Acr 13A       Vertilation Kit     Responsible Person)       If economizer is not used specify     NRCA-MCH23 Acr 13A       Demand Control Vertilation     Responsible Person)       Co.3 second with population     Responsible Person)       Nake and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Make and Model - 432.0 1(d)4     NRCA-MCH22 Acr       Minimum DV Outside Air in CFM     NRCA-MCH22 Acr       135 x conditioned floor area -     NRCA-MCH22 Acr       NRCA-MCH22 Acr     NRCA-MCH22 Acr       Network Model - 432.0 1(d)4     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     NRCA-MCH22 Acr       Network Model - 120.1 (Acr     Acr       Network Model - 120.1 (C)1. FILTERS REQU'D FOR ALL	Full Detection Software     Required Acceptance Te       NCLMSCH 2A or 134     INCLMSCH 2A or 134       Outside Air     In CAMCH 2A or 134       In CAM from 72+ 9.120.1(c)3     INCLMSCH 2A or 134       Vertilation Kit     Responsible Person)       If economics is not used specify     INCLMSCH 2A       Demand Control Vertilation     Responsible Person)       Co.2 second with population     Responsible Person)       Make and Model     INCLMSCH 2A       Make and Model - 432.0.1(d)4     INCLMSCH 2A       Make Model     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A       If DOC to the zone § 120.2(h)     INCLMSCH 2A	Full Detection Software     Required Acceptance T       NotXide Air     IREQNOVED Ac 13-0       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       NotXide Air     IREquired Acceptance T       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       Westiliation Kit     Responsible Person)       If economiser is not used specify     IREsponsible Person)       Make and Model     IREsponsible Person)       Co2 sensor with point display     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       If DEC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I <t< td=""><td>Full Detection Software     Required Acceptance T       NotXide Air     IREQNOVED Ac 13-0       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       NotXide Air     IREquired Acceptance T       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       Westiliation Kit     Responsible Person)       If economiser is not used specify     IREsponsible Person)       Make and Model     IREsponsible Person)       Co2 sensor with point display     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       If DEC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I     <t< td=""><td></td><td>Make and Model – § 140.4(e)</td><td></td><td></td><td>NRCA-MCH-02-A and 05</td></t<></td></t<>	Full Detection Software     Required Acceptance T       NotXide Air     IREQNOVED Ac 13-0       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       NotXide Air     IREquired Acceptance T       In CPM from 724 - 9 120.1(r)3     IREquired Acceptance T       Westiliation Kit     Responsible Person)       If economiser is not used specify     IREsponsible Person)       Make and Model     IREsponsible Person)       Co2 sensor with point display     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       Make and Model - 1520.1(g)4     IREsponsible Person)       If DEC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DDC to be zone § 120.2(h)     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I     IREsponsible Person)       If DR Size I <t< td=""><td></td><td>Make and Model – § 140.4(e)</td><td></td><td></td><td>NRCA-MCH-02-A and 05</td></t<>		Make and Model – § 140.4(e)			NRCA-MCH-02-A and 05
In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Ri         Responsible Person)         Responsible Person)           Make and Model         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co2 Sensor with ppm display         Required Acceptance Te         Required Acceptance Te           Minimum DSV Outside Arin (CFM)         Required Acceptance Te         Required Acceptance Te           S conditioned floar area -         Size Conditioned floar area -         Required Acceptance Te           S conditioned floar area -         Size Conditioned floar area -         Required Acceptance Te           Make model         Responsible Person)         Required Acceptance Te           MicA-MCH-02-A         Responsible Person)         Required Acceptance Te           Make model         Responsible Person)         Required Acceptance Te           MicA-MCH-02-A	In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co Sensor with ppm display         Required Acceptance Te         NICA-MCH-02.A           Minimum DSV Outside Air (CFM)         Required Acceptance Te         NICA-MCH-02.A           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make and Model         NICA-MCH-02.A         Required Acceptance Te           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make Model         MINIMUM DSV Outside Air (CFM)         Required Acceptance Te           MicA-MCH-02.A         Responsible Person)         Required Acceptance Te           Make Model         MINIMUM CONTRACT         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A <td< td=""><td>In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co Sensor with ppm display         Required Acceptance Te         NICA-MCH-02.A           Minimum DSV Outside Air (CFM)         Required Acceptance Te         NICA-MCH-02.A           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make and Model         NICA-MCH-02.A         Required Acceptance Te           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make Model         MINIMUM DSV Outside Air (CFM)         Required Acceptance Te           MicA-MCH-02.A         Responsible Person)         Required Acceptance Te           Make Model         MINIMUM CONTRACT         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         <td< td=""><td>In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co2 Sensor with ppm display         Required Acceptance Te         NICA-ACH-02-A           Minimum DSV Outside Arin CFM         Responsible Person)         Required Acceptance Te           S conditioned floar area -         120.1(d)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Responsible Person         Responsible Person)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Make mode if 120.2(h)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Memod Side Thermostat or         NICA-MCH-02-A         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsid Responsid Responsible Person)</td><td>In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model</td><td>In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model</td><td></td><td>Fault Detection Software Make and Model - § 120.2(i)</td><td></td><td></td><td>Required Acceptance Te NRCA-MCH-12-A or 13-/</td></td<></td></td<>	In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co Sensor with ppm display         Required Acceptance Te         NICA-MCH-02.A           Minimum DSV Outside Air (CFM)         Required Acceptance Te         NICA-MCH-02.A           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make and Model         NICA-MCH-02.A         Required Acceptance Te           S conditioned floar area -         1320.1(d)4         Responsible Person)           Make Model         MINIMUM DSV Outside Air (CFM)         Required Acceptance Te           MicA-MCH-02.A         Responsible Person)         Required Acceptance Te           Make Model         MINIMUM CONTRACT         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A         Responsible Person)           Required Acceptance Te         NICA-MCH-02.A <td< td=""><td>In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co2 Sensor with ppm display         Required Acceptance Te         NICA-ACH-02-A           Minimum DSV Outside Arin CFM         Responsible Person)         Required Acceptance Te           S conditioned floar area -         120.1(d)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Responsible Person         Responsible Person)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Make mode if 120.2(h)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Memod Side Thermostat or         NICA-MCH-02-A         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsid Responsid Responsible Person)</td><td>In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model</td><td>In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model</td><td></td><td>Fault Detection Software Make and Model - § 120.2(i)</td><td></td><td></td><td>Required Acceptance Te NRCA-MCH-12-A or 13-/</td></td<>	In CM from T24 - 9 120.1(c)3           In CM from T24 - 9 120.1(c)3         Required Acceptance Te           Ventilation Rt         Responsible Person)         Responsible Person)           Heconomizer is not used specify         Responsible Person)         Required Acceptance Te           Demand Control Ventilation         Responsible Person)         Required Acceptance Te           Co2 Sensor with ppm display         Required Acceptance Te         NICA-ACH-02-A           Minimum DSV Outside Arin CFM         Responsible Person)         Required Acceptance Te           S conditioned floar area -         120.1(d)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Responsible Person         Responsible Person)         Responsible Person)           S conditioned floar area -         120.1(d)         Responsible Person)           Make mode if 120.2(h)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Memod Side Thermostat or         NICA-MCH-02-A         Responsible Person)           Responsible Person)         Responsible Person)         Responsible Person)           Responsid Responsid Responsible Person)	In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model	In CPM from T24 - § 120.1(c)3           In CPM from T24 - § 120.1(c)3         Required Acceptance T           Ventilation Ki         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Demand Control Ventilation         Responsible Person         Responsible Person           Co2 Sensor with ppm display         Responsible Person         Responsible Person           Make and Model         NRCA-MCH-02A         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Si S conditioned floar area -         Image and Model         Responsible Person           Make Model         Image and Model         Responsible Person           Make Model         Responsible Person         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model         Responsible Person           If DDC to the zone § 120.2(h)         Image and Model		Fault Detection Software Make and Model - § 120.2(i)			Required Acceptance Te NRCA-MCH-12-A or 13-/
Vertilation Nt     Responsible Person) Required Acceptance Te NICA-MCH 02-A       Hale and Model.     NICA-MCH 02-A       Co2 sensor with ppm display     Required Acceptance Te NICA-MCH 02-A       Minimum DCV Outside Air In CFM 15 X conditioned Figura 14     Responsible Person) Required Acceptance Te NICA-MCH 02-A       S conditioned Thermostat or Controls     Responsible Person) Required Acceptance Te NICA-MCH 02-A       BUILDING SIZE     3 1/2 TON HVAC     H TON HVAC       BUILDING SIZE     3 1/2 TON HVAC     4 TON HVAC       0     24' x 40'     1       0     36' x 40'     2       0     60' x 40'     2       0     72' x 40'     3       0     96' x 40'     4       108' x 40'     4       120' x 40'     5	Vertilation Nt     Responsible Person) Required Acceptance Te NICA-MCH 02-A       Hale and Model.     NICA-MCH 02-A       Co2 sensor with ppm display     Required Acceptance Te NICA-MCH 02-A       Minimum DCV Outside Air In CFM 15 X conditioned Figura 14     Responsible Person) Required Acceptance Te NICA-MCH 02-A       S conditioned Thermostat or Controls     Responsible Person) Required Acceptance Te NICA-MCH 02-A       BUILDING SIZE     3 1/2 TON HVAC     H TON HVAC       BUILDING SIZE     3 1/2 TON HVAC     4 TON HVAC       0     24' x 40'     1       0     36' x 40'     2       0     60' x 40'     2       0     72' x 40'     3       0     96' x 40'     4       108' x 40'     4       120' x 40'     5	Vertilation Nt     Responsible Person) Required Acceptance Te NICA-MCH 02-A       Hale and Model.     NICA-MCH 02-A       Co2 sensor with ppm display     Required Acceptance Te NICA-MCH 02-A       Minimum DCV Outside Air In CFM 15 X conditioned Figura 14     Responsible Person) Required Acceptance Te NICA-MCH 02-A       S conditioned Thermostat or Controls     Responsible Person) Required Acceptance Te NICA-MCH 02-A       BUILDING SIZE     3 1/2 TON HVAC     H TON HVAC       BUILDING SIZE     3 1/2 TON HVAC     4 TON HVAC       0     24' x 40'     1       0     36' x 40'     2       0     60' x 40'     2       0     72' x 40'     3       0     96' x 40'     4       108' x 40'     4       120' x 40'     5	Vertilation Nt     Responsible Person) Required Acceptance Te NICA-MCH 02-A       Hale and Model.     NICA-MCH 02-A       Co2 sensor with ppm display     Required Acceptance Te NICA-MCH 02-A       Minimum DCV Outside Air In CFM 15 X conditioned Figura 14     Responsible Person) Required Acceptance Te NICA-MCH 02-A       S conditioned Thermostat or Controls     Responsible Person) Required Acceptance Te NICA-MCH 02-A       BUILDING SIZE     3 1/2 TON HVAC     H TON HVAC       BUILDING SIZE     3 1/2 TON HVAC     4 TON HVAC       0     24' x 40'     1       0     36' x 40'     2       0     60' x 40'     2       0     72' x 40'     3       0     96' x 40'     4       108' x 40'     4       120' x 40'     5	Vertilation tit     Responsible Person)       He committee in out und specify     Required Acceptance T       Make and Model.     Required Acceptance T       Co2 sensor with ppm display     Required Acceptance T       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Responsible Person     Responsible Person </td <td>Vertilation tit     Responsible Person)       He committee in out und specify     Required Acceptance T       Make and Model.     Required Acceptance T       Co2 sensor with ppm display     Required Acceptance T       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Responsible Person     Responsible Person<!--</td--><td></td><td></td><td></td><td></td><td>Required Acceptance Te</td></td>	Vertilation tit     Responsible Person)       He committee in out und specify     Required Acceptance T       Make and Model.     Required Acceptance T       Co2 sensor with ppm display     Required Acceptance T       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person)       Responsible Person     Responsible Person       Minimum DEV Outside Air In CM 13 Xs conditioned from area - 5 120.1014     Responsible Person)       Responsible Person     Responsible Person       Responsible Person     Responsible Person </td <td></td> <td></td> <td></td> <td></td> <td>Required Acceptance Te</td>					Required Acceptance Te
Demand Control Ventilation Co2 Sensor with ppm display 1.5 % Information DCV Dulide Air in CPM 1.5 % In	Demand Control Ventilation Co2 Sensor with ppm display 1.5 % Information DCV Dulide Air in CPM 1.5 % In	Demand Control Ventilation Co2 Sensor with ppm display 1.5 % Information DCV Dulide Air in CPM 1.5 % In	Demand Control Ventilation Co2 Sensor with ppm display 1.5 % Information DCV Dulide Air in CPM 1.5 % In	Demand Control Ventilation Co2 Sensor with topm display 135 and Model - \$120.1(2)4         Responsible Person) NRCA-MCH-05-A           Millimum DCV Quick A for ICTM 135 and Model - \$120.2(b)         Responsible Person) Responsible Person) Person Sheet Acceptance To NRCA-MCH-02-A           Demand Sheet Thermostat or Controls Make Model 1 DDC to the zone § 120.2(b)         Responsible Person) Person Controls Make Model 1 DDC to the zone § 120.2(b)           HVAC SCHEDULE         # OF HVAC BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 44' x 40'         1         Responsible Person) Person Responsible Person)         Responsible Person) Person Responsible Person           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         HVAC         Responsible Person)         Responsible Person)           I 24' x 40'         1         1         1         1         1           I 36' x 40'         2         1         1         1           I 48' x 40'         3         1         1         1           I 108' x 40'         4         1	Demand Control Ventilation Co2 Sensor with topm display 135 and Model - \$120.1(2)4         Responsible Person) NRCA-MCH-05-A           Millimum DCV Quick A for ICTM 135 and Model - \$120.2(b)         Responsible Person) Responsible Person) Person Sheet Acceptance To NRCA-MCH-02-A           Demand Sheet Thermostat or Controls Make Model 1 DDC to the zone § 120.2(b)         Responsible Person) Person Controls Make Model 1 DDC to the zone § 120.2(b)           HVAC SCHEDULE         # OF HVAC BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 44' x 40'         1         Responsible Person) Person Responsible Person)         Responsible Person) Person Responsible Person           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         Responsible Person)         Responsible Person)           I 201 column 5 120.2(b)         # OF HVAC         HVAC         Responsible Person)         Responsible Person)           I 24' x 40'         1         1         1         1         1           I 36' x 40'         2         1         1         1           I 48' x 40'         3         1         1         1           I 108' x 40'         4         1		If economizer is not used specify			(Responsible Person) Required Acceptance Te
Make and Model     Utility     NRCA-MCH-06-A       Minimum OVOUSIGA AIR IN CTM     1     Responsible Person)       9 120.1014E     NRCA-MCH-06-A     NRCA-MCH-06-A       Demand Shed Thermostat or Controls     NRCA-MCH-06-A     NRCA-MCH-06-A       Make Model     HVAC     NRCA-MCH-06-A       Make Model     NRCA-MCH-06-A     NRCA-MCH-06-A       Indication of the state of	Make and Model     Utility     NRCA-MCH-06-A       Minimum OVOUSIGA AIR IN CTM     1     Responsible Person)       9 120.1014E     NRCA-MCH-06-A     NRCA-MCH-06-A       Demand Shed Thermostat or Controls     NRCA-MCH-06-A     NRCA-MCH-06-A       Make Model     HVAC     NRCA-MCH-06-A       Make Model     NRCA-MCH-06-A     NRCA-MCH-06-A       Indication of the state of	Make and Model     Utility     NRCA-MCH-06-A       Minimum OVOUSIGA AIR IN CTM     1     Responsible Person)       9 120.1014E     NRCA-MCH-06-A     NRCA-MCH-06-A       Demand Shed Thermostat or Controls     NRCA-MCH-06-A     NRCA-MCH-06-A       Make Model     HVAC     NRCA-MCH-06-A       Make Model     NRCA-MCH-06-A     NRCA-MCH-06-A       Indication of the state of	Make and Model     Utility     NRCA-MCH-06-A       Minimum OVOUSIGA AIR IN CTM     1     Responsible Person)       9 120.1014E     NRCA-MCH-06-A     NRCA-MCH-06-A       Demand Shed Thermostat or Controls     NRCA-MCH-06-A     NRCA-MCH-06-A       Make Model     HVAC     NRCA-MCH-06-A       Make Model     NRCA-MCH-06-A     NRCA-MCH-06-A       Indication of the state of	Make and Model     NRCA MCHOGA       Minimum DVOutide Air in CMI     Responsible Person       \$ 120.1014E     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     HOA       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     3       BUIL DING SIZE     3 1/2 TON </td <td>Make and Model     NRCA MCHOGA       Minimum DVOutide Air in CMI     Responsible Person       \$ 120.1014E     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     HOA       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     3       BUIL DING SIZE     3 1/2 TON   <!--</td--><td></td><td>Demand Control Ventilation</td><td></td><td></td><td>(Responsible Person)</td></td>	Make and Model     NRCA MCHOGA       Minimum DVOutide Air in CMI     Responsible Person       \$ 120.1014E     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     Responsible Person       Demand Shed Thermostat or     Responsible Person       Controls     Responsible Person       WRCA MCHO2 A     HOA       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     H VAC       BUIL DING SIZE     3 1/2 TON     4 TON       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     1       BUIL DING SIZE     3 1/2 TON     3       BUIL DING SIZE     3 1/2 TON </td <td></td> <td>Demand Control Ventilation</td> <td></td> <td></td> <td>(Responsible Person)</td>		Demand Control Ventilation			(Responsible Person)
§ 120.16/4E       MICA-MCH-20-X         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       MiCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       60' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       3       1         108' x 40'       4       1         1096' x 40'       4       1         100' x 40'       5       1	§ 120.16/4E       MICA-MCH-20-X         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       MiCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       60' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       3       1         108' x 40'       4       1         1096' x 40'       4       1         100' x 40'       5       1	§ 120.16/4E       MICA-MCH-20-X         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       MiCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       60' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       3       1         108' x 40'       4       1         1096' x 40'       4       1         100' x 40'       5       1	§ 120.16/4E       MICA-MCH-20-X         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       MiCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       60' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       3       1         108' x 40'       4       1         1096' x 40'       4       1         100' x 40'       5       1	\$ 120.16/4E       NICA-MCH-12A         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       Responsible Person) Required Acceptance Te NRCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       48' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       4       1         108' x 40'       4       4         120' x 40'       5       5	\$ 120.16/4E       NICA-MCH-12A         Demand Shed Thermositat or Controls Make Model I DDC to the zone § 120.2(h)       Responsible Person) Required Acceptance Te NRCA-MCH-11-A         HVAC SCHEDULE       # OF HVAC         BUILDING SIZE       3 1/2 TON       4 TON HVAC         0       24' x 40'       1         0       36' x 40'       1         0       48' x 40'       2         0       60' x 40'       2         0       72' x 40'       3         0       96' x 40'       4         108' x 40'       4       1         108' x 40'       4       1         108' x 40'       4       4         120' x 40'       5       5		Make and Model - §120.1(d)4 Minimum DCV Outside Air in CFM			NRCA-MCH-06-A (Responsible Person)
Controls         Required Acceptance Te           Mack Model J DOC to the zone § 120.2(h)         # OF HVAC           HVAC SCHEDULE         # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 4' x 40'         1           3 6' x 40'         1           3 6' x 40'         1           4 8' x 40'         2           72' x 40'         3           96' x 40'         4           108' x 40'         3           96' x 40'         4           120' x 40'         5	Controls         Required Acceptance Te           Mack Model J DOC to the zone § 120.2(h)         # OF HVAC           HVAC SCHEDULE         # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 4' x 40'         1           3 6' x 40'         1           3 6' x 40'         1           4 8' x 40'         2           72' x 40'         3           96' x 40'         4           108' x 40'         3           96' x 40'         4           120' x 40'         5	Controls         Required Acceptance Te           Mack Model J DOC to the zone § 120.2(h)         # OF HVAC           HVAC SCHEDULE         # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 4' x 40'         1           3 6' x 40'         1           3 6' x 40'         1           4 8' x 40'         2           72' x 40'         3           96' x 40'         4           108' x 40'         3           96' x 40'         4           120' x 40'         5	Controls         Required Acceptance Te           Mack Model J DOC to the zone § 120.2(h)         # OF HVAC           HVAC SCHEDULE         # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           2 4' x 40'         1           3 6' x 40'         1           3 6' x 40'         1           4 8' x 40'         2           72' x 40'         3           96' x 40'         4           108' x 40'         3           96' x 40'         4           120' x 40'         5	Controls         Recurred Acceptance Te           Mate Model If DDC to the zone § 120.2(h)         HVAC SCHEDULE           # OF HVAC         BUILDING SIZE           BUILDING SIZE         3 1/2 TON         4 TON           -         24' x 40'         1           -         36' x 40'         1           -         36' x 40'         2           -         60' x 40'         2           -         60' x 40'         3           -         84' x 40'         3           -         96' x 40'         4           -         108' x 40'         4           -         120' x 40'         5	Controls         Recurred Acceptance Te           Mate Model If DDC to the zone § 120.2(h)         HVAC SCHEDULE           # OF HVAC         BUILDING SIZE           BUILDING SIZE         3 1/2 TON         4 TON           -         24' x 40'         1           -         36' x 40'         1           -         36' x 40'         2           -         60' x 40'         2           -         60' x 40'         3           -         84' x 40'         3           -         96' x 40'         4           -         108' x 40'         4           -         120' x 40'         5		§ 120.1(d)4E			NRCA-MCH-02-A
HVAC SCHEDULE           # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           48' × 40'         2           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC SCHEDULE           # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           48' × 40'         2           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC SCHEDULE           # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           48' × 40'         2           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC SCHEDULE           # OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           48' × 40'         2           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           36' × 40'         1           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' × 40'         1           36' × 40'         1           36' × 40'         1           60' × 40'         2           72' × 40'         3           96' × 40'         4           108' × 40'         4           108' × 40'         4           120' × 40'         5		Controls Make Model			Required Acceptance Te
# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	# OF HVAC           BUILDING SIZE         3 1/2 TON HVAC         4 TON HVAC           24' x 40'         1           36' x 40'         1           48' x 40'         2           60' x 40'         2           72' x 40'         3           96' x 40'         3           96' x 40'         4           108' x 40'         4           108' x 40'         4           120' x 40'         5           MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL					 ]
BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5	BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5	BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5	BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5	BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	BUILDING SIZE       3 1/2 TON HVAC       4 TON HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5		HVAC S	SCHEDUL	_E	
3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         1       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	3 1/2 TON       4 TON         HVAC       HVAC         HVAC       HVAC         1       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL			# OI	F HVAC	]
HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	HVAC       HVAC         24' x 40'       1         36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL		BUILDING SIZE			]
36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	36' x 40'       1         48' x 40'       2         60' x 40'       2         72' x 40'       3         96' x 40'       3         96' x 40'       4         108' x 40'       4         120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL					1
□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL	□       48' x 40'       2         □       60' x 40'       2         □       72' x 40'       3         □       84' x 40'       3         □       96' x 40'       4         □       108' x 40'       4         □       120' x 40'       5         MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL			1		-
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SECTION 915 CARBON MONOXIDE DETECTION

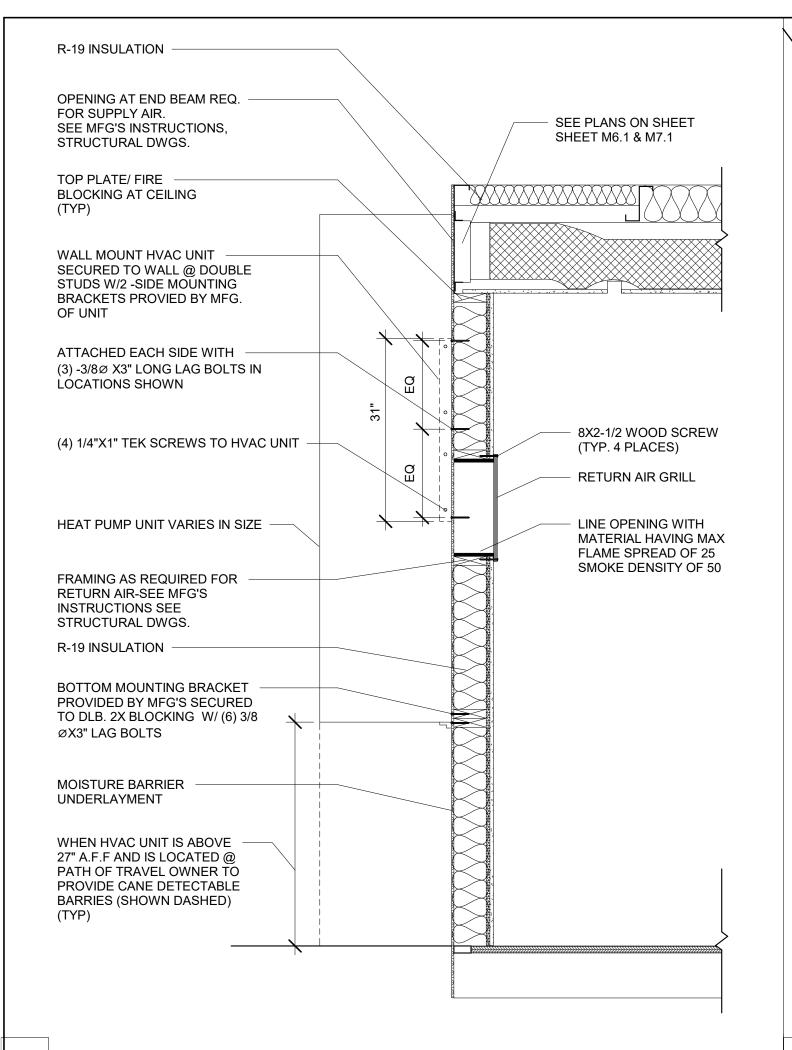
915.2.3 Group E occupancies. Carbon monoxide detection shall be installed in classrooms in Group E occupancies. Carbon monoxide alarm signals shall be automatically transmitted to an on-site location that is staffed byschool personnel.

915.3 Detection equipment. Carbon monoxide detection required by Sections 915.1 through 915.2.3 shall be provided by carbon monoxide alarms complying with Section 915.4 or carbon monoxide detection systems complying with Section 915.5.

CFC 915.1 - Classrooms which contain a fuel-burning appliance or a fuel-burning fireplace or are supplied by a forced-air furnace shall be provided with a carbon monoxide detexction system. Provide a carbon monoxide detection system

GENERAL NOTE: UTLILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN ACCOMMODATE DIFFERENTIAL MOVEMENTS

PROJECT SPECIFIC STATE AGENCY APPROVAL IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
REVIEWED FOR SS I FLS ACS DATE: 09/28/2023
DESIGN & CONSULTING & PROJECT MGT DESIGN & CONSULTING & PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
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PROFESSIONA PROFESSIONA D. AP 03/31/24 SMTE OF CALLFORMIN 05/24/23 PROFESSIONA B8072#
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APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE MISCELLANEOUS NOTES & DETAILS
PROJECT NUMBER
22088
DRAWN BY rMc/SC CHECKED BY
RH/RT
SHEET NO.
M0.1



#### 3/4" = 1'-0" HVAC @ WALL SECTION

#### **SEQUENCE OF OPERATIONS**

#### BARD W48HC-A

#### **Sequence of Operation**

#### Cooling

Circuit R-Y1 makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. (See *NOTE* under **Condenser Fan Operation** concerning models equipped with low ambient control.) The G (indoor motor) circuit is automatically completed by the thermostat on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation. On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in heat contactor for the strip heat and blower operation. On a call for third stage heat, R-W3 makes bringing on second heat contactor, if so equipped.

#### Heating

A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changeover from cycle to cycle and the other constantly energizing solenoid coil during heating season—thus eliminating pressure equalization noise except during defrost, are to be used.

On "Auto" option, a circuit is completed from R-B/W1 and R-Y1 on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor, starting compressor and outdoor motor. R-G also make starting indoor blower motor. Heat pump heating cycle now in operation.

The second option has no "Auto" changeover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y1 circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in the heat contactor for the strip heat and blower operation. On a call for third stage heat, R-B/W1 breaks, dropping out heat pump, and R-W3 makes, bringing on second heat contactor, if so equipped.

#### Balanced Climate<sup>™</sup> Mode

Balanced Climate<sup>™</sup> is a great comfort feature that can easily be applied under any normal circumstances. If the Bard air conditioning system is being set up in a typical environment where 72°F is the lowest cooling setpoint, remove the Y1/Y2 jumper and install a 2-stage cooling thermostat. This will increase the humidity removal up to 35% and provide a much more comfortable environment. This mode will also increase the supply temperature when in heating mode. When Balanced Climate mode is activated, it is employed in both heating and cooling modes.

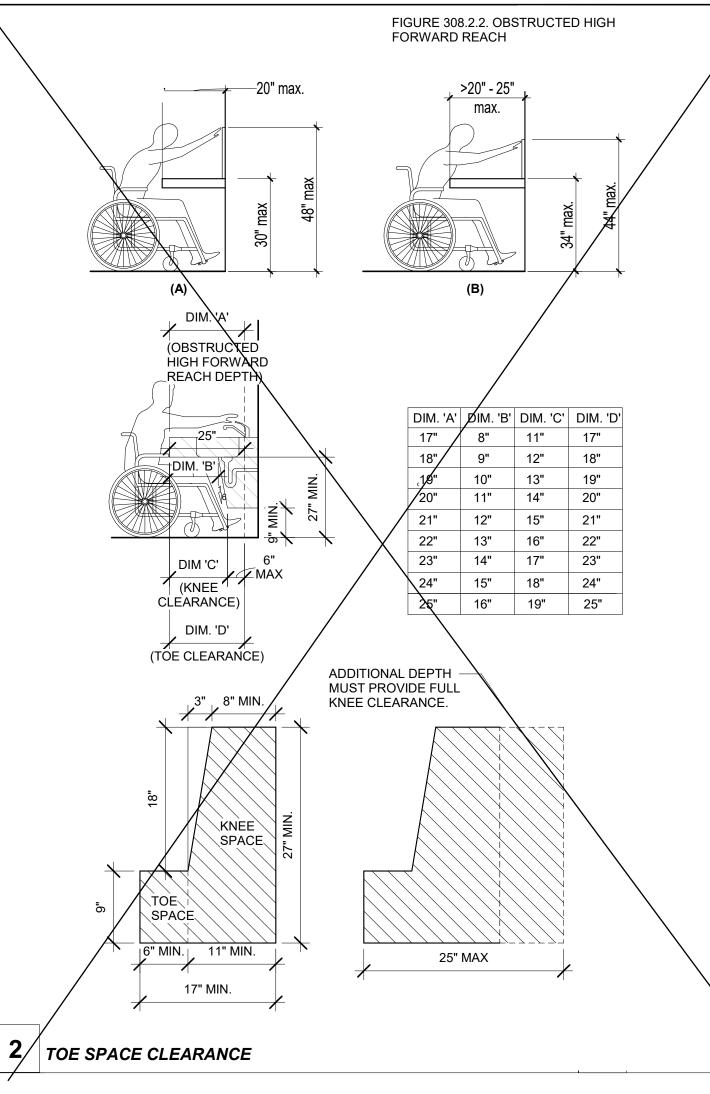
**NOTE:** Units with mechanical dehumidification require an additional connection to be made when enabling Balanced Climate. Refer to dehumidification supplemental instructions for this step.

If the application is likely to require air conditioning operation below 60°F outdoor conditions, a low ambient control (LAC) kit must be installed. The LAC kit is equipped with an outdoor temperature switch that disables Balanced Climate mode when the outdoor temperature drops below 50°F. This prevents potential evaporator coil freeze up issues. The LAC kit also comes with an evaporator freeze protection thermostat that cuts out the compressor if the evaporator begins to freeze up.

If the unit is being installed with any ventilation package, a Bard LAC kit must be installed. Failure to utilize an LAC with any air conditioner can cause coil freeze up.

Balanced Climate can readily be applied to duct-free (supply and return air grille) applications. It may also be applied to ducted applications with **limited static** of 0.20" ESP (total including both supply and return statics). Consult Bard Application Engineering for details prior to implementation.

**CAUTION:** Balanced Climate is not a replacement for a dehumidification (hot gas reheat) unit for extreme applications, but rather an enhancement feature for *limited climates and applications.* 



#### BARD C60HC1 & C42HC1

#### Sequence of Operation

**Cooling Stage 1** – Circuit R-Y makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. The G (indoor motor) circuit is automatically completed on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation.

**Cooling Stage 2** – Circuit R-Y1 makes at the thermostat, energizing the 2nd stage solenoid in the compressor. Default position is not energized. Compressor will run at low capacity until this solenoid is energized.

**Heating Stage 1** – A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changeover from cycle to cycle and the other constantly energizing solenoid coil during heating season and thus eliminating pressure equalization noise except during defrost, are to be used. On "Auto" option, a circuit is completed from R-B and R-Y on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor starting compressor and outdoor motor. R-G also make, starting indoor blower motor. Heat pump heating cycle now in operation. The second option has no "Auto" changeover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for Stage 1 heat completes R-Y circuit, pulling in compressor contactor and starting compressor and outdoor motor. R-G also make, starting indoor blower motor.

**Heating Stage 2** – Circuit R-Y2 makes at the thermostat, energizing the 2nd stage solenoid in the compressor.

#### **Pressure Service Ports**

High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure tables 6A and 6B cover all models. It is imperative to match the correct pressure table to the unit by model number.

This unit employs high-flow Coremax valves instead of the typical Shrader type valves.

WARNING! Do NOT use a Schrader valve core removal tool with these valves. Use of such a tool could result in eye injuries or refrigerant burns!

To change a Coremax valve without first removing the refrigerant, a special tool is required which can be obtained at www.fastestinc.com/en/SCCA07H. See the replacement parts manual for replacement core part numbers.

#### CARRIER 50VTC48L

#### **OPERATION**

Sequence of Operation—When free cooling is not available, the compressor will be controlled by the thermostat. When free cooling is available, the outdoor-air damper is modulated by the Economizer control to provide a 50° to 55°F (10° to 12.8°C) supply-air temperature into the zone. As the supply-air temperature fluctuates above 55° (12.8°C) or below 50°F (10°C), the dampers will be modulated (open or close) to bring the supply-air temperature back within the set points. For Economizer operation, there must be a thermostat call for the fan (G). This will move the damper to its minimum position during the occupied mode. **NOTE:** The DCV Max potentiometer must be closed (CCW)

when not using CO<sub>2</sub> sensor. Above 50°F (10°C) supply-air temperature, the dampers will modulate from 100% open to the minimum open position. From  $50^{\circ}$ F to  $45^{\circ}$ F ( $10^{\circ}$  to  $7.2^{\circ}$ C) supply-air temperature, the dampers will maintain at the minimum open position. Below 45°F (7.2°C), the dampers will be completely shut. As the supply-air temperature rises, the dampers will come back open to the minimum open position once the supply-air temperature rises to 48°F (8.9°C). If power exhaust is installed, as the outdoor-air damper opens and closes, the power exhaust fans will be energized and deenergized. If fieldinstalled accessory CO<sub>2</sub> sensors are connected to the Economizer control, a demand controlled ventilation strategy will begin to operate. As the CO<sub>2</sub> level in the zone increases above the CO<sub>2</sub> set point, the minimum position of the damper will be increased proportionally. As the CO<sub>2</sub> level decreases because of the increase in fresh air, the outdoor-air damper will be proportionally closed. Damper position will follow the higher demand condition from DCV mode or free cooling mode. Damper movement from full closed to full open (or vice versa) will take between  $1 \frac{1}{2}$  and  $2 \frac{1}{2}$  minutes. If free cooling can be used as determined from the appropriate changeover command (dry bulb, enthalpy curve, or differential enthalpy), a call for cooling (Y1 closes at the thermostat) will cause the control to modulate the dampers open to maintain the supply air temperature set point at 50° to 55°F ( $10^{\circ}$  to  $12.8^{\circ}$ C). As the supply air temperature drops below the set point range of  $50^{\circ}$  to  $55^{\circ}$ F ( $10^{\circ}$ to 12.8°C), the control will modulate the outdoor-air dampers closed to maintain the proper supply-air temperature.

### 120.1(D)

THERMOSTAT SHALL BE PROGRAMED WITH EXPECTED OCCUPIED TIMES.AIR HANDLER FAN WILL BE PROGRAMED TO RUN DURING ALL OCCUPIED TIMES.PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT.MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4.

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2 IN. WIDE. DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCT SHALL NOT BE KINKED OR CRUSHED.

BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE

OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND

AT THE TIME OF ROUGH INSTALLATION, DURING IN THE FACTORY OR ON THE CONSTRUCTION SITE, DURING SHIPMENT (IF APPLICABLE) AND UNTIL FINAL STARTUP OF THE HEATING COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE PROCTED TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM

#### 1/4" = 1'-0" MECHANICAL NOTES

DELIVERED TO THE OWNER.

#### TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

	Climate	Required High Lin	nit (Economizer Off When):
Device Type <sup>a</sup>	Zones	Equation <sup>b</sup>	Description
	1, 3, 5, 11-16	T <sub>OA</sub> > 75°F	Outdoor air temperature exceeds 75°F
Eived Dry Bulb	2, 4, 10	T <sub>OA</sub> > 73°F	Outdoor air temperature exceeds 73°F
Fixed Dry Bulb	6, 8, 9	T <sub>OA</sub> > 71°F	Outdoor air temperature exceeds 71°F
	7	T <sub>OA</sub> > 69°F	Outdoor air temperature exceeds 69°F
	1, 3, 5, 11-16	T <sub>OA</sub> > T <sub>RA</sub> °F	Outdoor air temperature exceeds return air temperature
Differential Dry	2, 4, 10	T <sub>OA</sub> > T <sub>RA</sub> -2°F	Outdoor air temperature exceeds return air temperature minus 2°F
Bulb	6, 8, 9	T <sub>OA</sub> > T <sub>RA</sub> -4°F	Outdoor air temperature exceeds return air temperature minus 4°F
	7	T <sub>OA</sub> > T <sub>RA</sub> -6°F	Outdoor air temperature exceeds return air temperature minus 6°F
Fixed Enthalpy <sup>C</sup> + Fixed Drybulb	All	h <sub>OA</sub> > 28 Btu/lb <sup>C</sup> or T <sub>OA</sub> > 75°F	Outdoor air enthalpy exceeds 28 Btu/lb of dry air <sup>C</sup> or Outdoor air temperature exceeds 75°F

Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e)1 unless approval for use is provided by the Energy Commission Executive Director. Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Btu/lb

of the setpoint listed. At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is oproximately 30.7 Btu/lb.

This attachment summarizes Indicate NA for all non-applica		pment and contro	ls required for ea	ch size modular building.
		LIST OF MECHANIC		
Any substitutions of equip	ment made to the a	pproved PC must b	e equal or better th	an the equipment listed belo
Modular size and equipment type	4.0 TON WM HVAC	5.0 TON WM HVAC	3 TON WM HVAC	Responsible for programing/commissioning (builder or HVAC contractor)
HVAC Equipment Make and Model	BARD W46HC-A	BARD W60H1	BARD W36 HB	NA
BTUH Heating Cooling	41,500 45,500	51,000 55,500	38,500 40,000	NA
Indoor/Blower Fan BHP/HP CFM @ at ? inch WC	1/3-825-2 2.5 24"-2900	1/3-825-2 4.1 24"-3700	1/3-825-2 2.5 24"-2900	NA
Strip Heating Maximum allowed or Not Allowed if not modeled	PER TITLE 24	PER TITLE 24	PER TITLE 24	NA
Minimum allowed SEER, EER, HSPF and/or COP, and Phase	14, 11, 3.40, 3	14, 11, 3.30 ,3	14, 11, 3.40, 3	NA
Thermostat Make and Model Setback – § 110.2(c)	BARD #8403-061	BARD #8403-061		(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Heat Pumps – § 110.2(b) Shut-off and Reset Make and Model Occupancy Sensor or 4 hr override – § 120.2(e)	C48H1 STANDARD BUILT-IN	C60H1 STANDARD BUILT-IN	C42H1 STANDARD BUILT-IN	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Economizer Equipment Make and Model – § 140.4(e)	ECON-NC5	ECON-NC5	ECON-NC5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Controls Make and Model – § 140.4(e)	ECON-WD5	ECON-WD5	ECON-WD5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Fault Detection Software Make and Model - § 120.2(i)	ECON-DB5	ECON-DB5	ECON-DB5	(Responsible Person) Required Acceptance Test NRCA-MCH-12-A or 13-A
Outside Air In CFM - § 120.1(c)3	PER TITLE 24	PER TITLE 24	1 74	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Ventilation Kit If economizer is not installed specify Make and Model.	N/A	N/A	N/A	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
<b>Demand Control Ventilation</b> Co2 Sensor with ppm display Make and Model - §120.1(d)4	PER BARD SPECIFICAIONS	PER BARD SPECIFICAIONS	SFECIFICAIONS	(Responsible Person) Required Acceptance Test NRCA-MCH-06-A
Minimum Designed Outside Air in CFM - § 120.1(c)3	PER TITLE 24	PER TITLE 24	04	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Shed Thermostat Make Model If DDC to the zone § 120.2(h)				(Responsible Person) Required Acceptance Test NRCA-MCH-11-A

ALL ECONOMIZE
CONTRACTOR T
Climate Zone
Azimuth
(Front Orientation)
30°
75°
120°
165°
210°
255°
300°
345°
Climate Zone 1
Azimuth
(Front Orientation)
30°
75°
120°
165°
105
210°
0
255°
300°
345°
Climete Zer - 1
Climate Zone 2 Azimuth
(Front Orientation)
30°
75°
120°
165°
210°
2550
255°
300°
- * *
345°
Reference: Energy Code,
Reference: Energy Code, * In the event that there **This table is not currer

NOTE: SEE M0.1 AND CUT SHEETS FOR ADDITIONAL EQUIPMENT OPTIONS

	PC DESIGN REVIEV Title 24, Part 6, DSA Application Calculation Date/Time of Ene Model Name and Option: 24's Total Floor A HVAC System Type:	, Energy Code #: 04-121369 ergy Report: 2023-07-26 XX x40' PC (Wood Frame Walls) rea: 960 ft <sup>2</sup>			
Imdale)					
	Standard Design	Proposed Design	Margin	Margin %	Worst Ca
TDV-E	366.40	297.14	69.26	18.9028%	
TDV-T SOURCE	366.40 36.24	297.14 30.65	69.26 5.59	<u>18.9028%</u> 15.4249%	
TDV-E	358.72	295.30	63.42	17.6795%	**
TDV-T SOURCE	358.72 35.63	295.30 30.56	63.42 5.07	<u>17.6795%</u> 14.2296%	**
TDV-E	363.47	296.43	67.04	18.4444%	
TDV-T	363.47	296.43	67.04	18.4444%	
SOURCE TDV-E	36.01 366.46	30.64 297.42	5.37 69.04	<u>14.9125%</u> 18.8397%	
TDV-T	366.46	297.42	69.04	18.8397%	
SOURCE	36.22	30.64	5.58	15.4059%	
TDV-E TDV-T	366.40 366.40	297.14 297.14	69.26 69.26	<u>18.9028%</u> 18.9028%	
SOURCE	36.24	30.65	5.59	15.4249%	
TDV-E TDV-T	358.72 358.72	295.30 295.30	63.42 63.42	17.6795% 17.6795%	**
SOURCE	358.72	295.30 30.56	5.07	17.6795% 14.2296%	**
TDV-E	363.47	296.44	67.03	18.4417%	
TDV-T SOURCE	363.47 36.01	296.44 30.64	67.03 5.37	<u>18.4417%</u> 14.9125%	
TDV-E	366.46	297.42	69.04	14.9125%	
TDV-T	366.46	297.42	69.04	18.8397%	
SOURCE	36.22	30.64	5.58	15.4059%	
n Springs)					
TOV 5	Standard Design	Proposed Design	Margin	Margin %	Worst Ca
TDV-E TDV-T	378.51 378.51	303.65 303.65	74.86 74.86	<u>19.7775%</u> 19.7775%	
SOURCE	33.26	26.66	6.60	19.8437%	
TDV-E TDV-T	369.92 369.92	301.77 301.77	68.15 68.15	<u>18.4229%</u> 18.4229%	**
SOURCE	32.57	26.55	6.02	18.4833%	**
TDV-E	370.43	302.74	67.69	18.2734%	
TDV-T SOURCE	370.43 32.71	302.74 26.64	67.69 6.07	<u>18.2734%</u> 18.5570%	
TDV-E	378.42	303.43	74.99	19.8166%	
TDV-T SOURCE	378.42	303.43	74.99	<u>19.8166%</u> 19.8014%	
TDV-E	33.23 378.51	26.65 303.65	6.58 74.86	19.7775%	
TDV-T	378.51	303.65	74.86	19.7775%	
SOURCE TDV-E	33.26 369.92	26.66 301.77	6.60 68.15	19.8437% 18.4229%	**
TDV-T	369.92	301.77	68.15	18.4229%	**
SOURCE	32.57	26.55	6.02 67.69	18.4833%	**
TDV-E TDV-T	370.43 370.43	302.74 302.74	67.69	<u>18.2734%</u> 18.2734%	
SOURCE	32.71	26.64	6.07	18.5570%	
TDV-E TDV-T	378.42 378.42	303.43 303.43	74.99 74.99	<u>19.8166%</u> 19.8166%	
SOURCE	33.23	26.65	6.58	19.8014%	
e Canyon)	Standard Design	Proposed Design	Margin	Margin %	Worst Ca
TDV-E	307.24	278.52	28.72	9.3477%	**
TDV-T	307.24	278.52	28.72	9.3477%	**
SOURCE TDV-E	54.83 341.77	41.05 272.69	13.78 69.08	<u>25.1322%</u> 20.2124%	
TDV-T	341.77	272.69	69.08	20.2124%	
SOURCE	65.39	40.97	24.42	37.3452%	
TDV-E TDV-T	307.35 307.35	273.40 273.40	33.95 33.95	<u> </u>	
SOURCE	54.88	41.01	13.87	25.2733%	1
TDV-E	309.02	273.26	35.76	11.5721%	
TDV-T	309.02	273.26	35.76	11.5721%	
SOURCE TDV-E	54.91 307.24	41.02 273.52	13.89 33.72	25.2959% 10.9751%	
TDV-T	307.24	273.52	33.72	10.9751%	
SOURCE	54.83	41.05	13.78	25.1322%	
TDV-E TDV-T	341.77 341.77	272.69 272.69	69.08 69.08	<u>20.2124%</u> 20.2124%	
SOURCE	65.39	40.97	24.42	20.2124%	
TDV-E	307.35	273.40	33.95	11.0460%	
TDV-T	307.35	273.40	33.95	11.0460%	
SOURCE	54.88	41.01 273.26	13.87 35.76	<u>25.2733%</u> 11.5721%	
TDV-F			55.70		
TDV-E TDV-T	309.02 309.02	273.26	35.76	11.5721%	

PROJECT SPECIFIC STATE AGENCY APPROVA
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
REVIEWED FOR
DATE: 09/28/2023
<b>RS</b> TAVARES
DESIGN CONSULTING PROJECT MGT
SAN DIEGO, CA 92127 Phone: (858) 444-3344 www.rstavares.com
PROFESSIONAL STAMP
PROFESSIONAL
STATE OF CALIFORNIA
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED
SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OF IN PART, FOR ANY PURPOSE FOR WHICH
THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
CLIENT
CLASS
LEASING LLC
1221 Harley Knox Boulevard Perris, CA 92571
ORIGINAL PC STATE AGENCY APPROVAL
APPROVED
DIV. OF THE STATE ARCHITECT APP: 04-121369 PC
REVIEWED FOR SS I FLS I ACS I CG I
DATE: 09/22/2023
Revision Schedule
# Description Date
PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO 120' x 40'
SHEET TITLE
MISCELLANEOUS
NOTES & DETAILS
PROJECT NUMBER
22088
DRAWN BY
Author CHECKED BY
CHECKED BY Checker
DATE
M0.2

#### **BUILDING ENERGY ANALYSIS REPORT**

PROJECT: 24X40 (PC 04-121369) - Wall AC Climate Zone 14 Palmdale, CA

Project Designer: R & S Tavares Associates 11590 W. Bernardo Court, Suite 100 San Diego, Ca. 92127

Report Prepared by: LAL B. SAHGAL LSA CONSULTING ENGINEERS 83, WINDSWEPT WAY MISSION VIEJO, CA 92692 (949) 830-4746

Job Number:

Date: 7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC – www.energysoft.com.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

B. PROJECT SUMMARY							
Table B shows which building of permit application.	components a	re included in the	e performance calculation. Ij	f ind	licated as not inc	luded, the project must show compliance prescri	ptively if within the
В	uilding Comp	onents Complyin	ng via Performance			Building Components Complying Pre	scriptively
Envelope (See Table C)	Nonres	Performance	Solar Thermal Water		Performance	The following building components are ONLY eligible for p	
Envelope (See Table G)	MultiFam	Not Included	Heating (See Table I3)	$\boxtimes$	Not Included	and should be documented on the NRCC form listed if w permit application (i.e. compliance will not be shown of	
Machanical (Sac Table II)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)		Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
Mechanical (See Table H)	MultiFam	Not Included			Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see		Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
Table I)	MultiFam	Not Included	Table J)	$\boxtimes$	Not Included	Building Components Complying with Man	datory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)		Performance	Electrical power systems, commissioning, solar escalator requirements are mandatory and sho on the NRCC form listed if applicable (i.e. com shown on the NRCC-PRF-E.)	uld be documented pliance will not be
	MultiFam	Not Included			Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)		Performance	Commissioning 120.8	NRCC-CXR-E is required
				⊠	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

Schema Version: rev 20220601

Report Generated: 2023-07-25 10:52:04

NRCC-PRF-E

Compliance ID: EnergyPro-4958-0723-0144

NRCC-PRF-E

(Page 2 of 17)

Nonreside
C3. TDV EN
Receptacle
Process
Other Ltg
Process M
TOTAL (TOT

Process
TOTAL (T
<sup>1</sup> Notes:

Nonres
C5. SOU
Recept
Process
Other L

Nonresidential Performance Compliance Method (Page 6 of 17) C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft<sup>2</sup>/yr) COMPLIES<sup>2</sup> Proposed Design (SOURCE) Compliance Margin (SOURCE)<sup>1</sup> Energy Component Standard Design (SOURCE) Space Heating 3.73 6.14 -2.41 Space Cooling 3.47 3.65 -0.18 14.94 8.15 6.79 Indoor Fans Heat Rejection 0 0 0 Pumps & Misc. 0 0 0 5.99 5.99 0 Domestic Hot Water 2.57 1.71 0.86 Indoor Lighting Flexibility ---------EFFICIENCY COMPLIANCE TOTAL 30.7 25.64 5.06 (16.5%) Photovoltaics ----------Batteries ----------TOTAL COMPLIANCE 30.7 25.64 5.06 (16.5%) <sup>1</sup> Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

#### CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144

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Cover Page	1
Table of Contents Form NRCC/LMCC-PRF-E Certificate of Compliance	2 3
HVAC System Heating and Cooling Loads Summary	20

Nonresidential Performance Compliance Met	nod		(Page 3 of 17)		
C1. COMPLIANCE SUMMARY					
	COMPLIES <sup>3</sup>				
	Time Dependent	Time Dependent Valuaton (TDV)			
	Efficiency <sup>1</sup> (kBtu/ft <sup>2</sup> - yr)	Total <sup>2</sup> (kBtu/ft <sup>2</sup> - yr)	Total <sup>2</sup> (kBtu/ft <sup>2</sup> - yr)		
Standard Design	358.72	358.72	30.7		
Proposed Design	295.31	295.31	25.64		
Compliance Margins	63.41	63.41	5.06		
	Pass	Pass	Pass		

<sup>2</sup> Compliance Totals include efficiency, photovoltaics and batteries <sup>3</sup> Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

#### CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

#### Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE C	NRCC-PRF-E		
Nonresidential Performance Compliance Method			(Page 5 of 17)
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS <sup>1</sup>			
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Receptacle	67.93	67.93	
Process			
Other Ltg			
Process Motors			
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	426.65	363.24	63.41 (14.9%)
<sup>1</sup> Notes: This table is not used for Energy Code Compliance.	·	÷	•

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2023-07-25 10:52:04 Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE C	COMPLIANCE METHOD		NRCC-PRF-E
Nonresidential Performance Compliance Method			(Page 7 of 17)
C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS <sup>1</sup>			
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) <sup>1</sup>
Receptacle	4.92	4.92	
Process			
Other Ltg			
Process Motors			
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	35.62	30.56	5.06 (14.2%)
<sup>1</sup> Notes: This table is not used for Energy Code Compliance.			
C6. 'ABOVE CODE' QUALIFICATIONS			
This project is pursuing CalGreen Tier 1	☐ This project	is pursuing CalGreen Tier 2	

CEF	TIFICATE OF COMPLIANCE - NO	NRESID
No	nresidential Performance Compl	iance N
Pro	ject Name:	
A. G	eneral Information	
1	Project Name	24X40
2	Run Title	Title 24
3	Project Location	Climat
4	City	Palmda
6	Zip code	99999
8	Climate Zone	14
10	Building Type(s)	• Nonr
12	Project Scope	• New
14	Total Conditioned Floor Area in Scope (ft <sup>2</sup> )	960
16	Total Unconditioned Floor Area (ft <sup>2</sup> )	0
18	Nonresidential Conditioned Floor Area	960
20	Residential Conditioned Floor Area	0

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFOR	RMANCE COMPLIANCE METHOD		NRCC-PRF-E
Nonresidential Performance Compliance Method			(Page 4 of 17)
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE CO	MPONENTS (Annual TDV Energy Use, kBtu/ft <sup>2</sup> - yr)	)	
	COMPLIES <sup>2</sup>		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Space Heating	25.61	42	-16.39
Space Cooling	93.22	95.25	-2.03
Indoor Fans	152.65	81.72	70.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	54.63	54.6	0.03
Indoor Lighting	32.61	21.74	10.87
Flexibility			
EFFICIENCY COMPLIANCE TOTAL	358.72	295.31	63.41 (17.7%)
Photovoltaics			
Batteries			
TOTAL COMPLIANCE	358.72	295.31	63.41 (17.7%)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Nonresidential Performance Compliance Method (Page 8 of 17)							
C7. ENERGY USE SUMMARY							
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)	
Space Heating	0.8	1.3	-0.5				
Space Cooling	2.3	2.3	0				
Indoor Fans	5.2	2.8	2.4				
Heat Rejection							
Pumps & Misc.							
Domestic Hot Water	2	2	0				
Indoor Lighting	1.2	0.8	0.4				
Flexibility							
EFFICIENCY TOTAL	11.5	9.2	2.3	0	0	0	
Photovoltaics							
Batteries							
ENERGY USE SUBTOTAL	11.5	9.2	2.3	0	0	0	
Receptacle	2.5	2.5	0				
Process							
Other Ltg							
Process Motors							
ENERGY USE TOTAL	14	11.7	2.3	0	0	0	

Ionresidential Performance Compliance Method (Page 8 of 17)						
C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.8	1.3	-0.5			
Space Cooling	2.3	2.3	0			
Indoor Fans	5.2	2.8	2.4			
Heat Rejection						
Pumps & Misc.						
Domestic Hot Water	2	2	0			
Indoor Lighting	1.2	0.8	0.4			
Flexibility						
EFFICIENCY TOTAL	11.5	9.2	2.3	0	0	0
Photovoltaics						
Batteries						
ENERGY USE SUBTOTAL	11.5	9.2	2.3	0	0	0
Receptacle	2.5	2.5	0			
Process						
Other Ltg						
Process Motors						
ENERGY USE TOTAL	14	11.7	2.3	0	0	0

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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Schema Version: rev 20220601
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ENTIAL PERFORMANCE COMPLIANCE METHOD					NRCC-PRF-E
Method					(Page 1 of 17)
24X40	) (PC 0	4-121369) - Wall AC	Date Pre	pared:	2023-07-25
(PC 04-121369) - Wall AC					
4 Analysis					
e Zone 14					
ale	5	Standards Version		Compliance 2022	
	7	Compliance Software (v	version)	EnergyPro 9.1	
	9	Building Orientation (de	eg)	75	
residential	11	Weather File		PALMDALE_STYP20.epw	
complete scope	13	Number of Dwelling Un	nits	0	
	15	Total # of hotel/motel r	rooms	0	
	17	Fuel Type		Natural gas	
	19	Total # of Stories (Habit Above Grade)	table	1	

#### CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144

PROJEC	T SPECIFIC STATE AGENCY APPROVAL
DIV AP SS	IDENTIFICATION STAMP         . OF THE STATE ARCHITECT         . OF THE STATE ARCHITECT         . OF . 04-122805         INC:         . REVIEWED FOR         . □         . FLS □         ACS □         . OF . 09/28/2023
	ATE: 09/28/2023
	<b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>
PROFES	SSIONAL STAMP
M	PROFESSION PROFES
THESE R&S TA SOLELY PLANS IN PART THEY W EXPRES TAVARE	ANS, IDEAS & DESIGNS SHOWN ON DRAWINGS ARE THE PROPERTY OF VARES ASSOCIATES, INC. DEVISED (FOR THIS CONTRACT. THESE SHALL NOT BE USED, IN WHOLE OR F, FOR ANY PURPOSE FOR WHICH (ERE NOT INTENDED WITHOUT THE SS WRITTEN CONSENT OF R&S ES ASSOCIATES, INC. ©
	Class Leasing
VOICE (9	CINTO CA. 92581 951) 943-1908 FAX (951)943-5768
ORIGINA	AL PC STATE AGENCY APPROVAL
AF	APPROVED W OF THE STATE ARCHITECT PP: 04-121369 PC REVIEWED FOR G I FLS I ACS I CG I ATE: 09/22/2023
#	Revision Schedule Description Date
A separa PROJEC	PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC Interproject application for construction is required CT TITLE 2022 CBC: 24' x 40' XPANDABLE TO 120' x 40'
SHEET 2	<sup>ΤΙΤLE</sup> 4'x40' T24 CZ 14 (WALL AC)
PROJEC	CT NUMBER
	22088
DRAWN	
DRAWN	BY rMc/SC
	BY rMc/SC ED BY

		NONRESIDENT											NRCC-PRF-E
onresidential Perfo	rmance C	ompliance Meth	nod									(1	Page 9 of 17)
. ENERGY USE INTENS	SITY (EUI)												
		Standard D	esign (kB	Btu/ft² / yr)	Proposed De	sign (kBtu/ft² / yı	rr)	Margin (kB	tu/ft² / y	r)	м	argin Perce	entage
ROSS EUI <sup>1</sup>			49.76			11.58		8.1	.8			16.44	
ET EUI <sup>1</sup>			49.76			41.58	_	8.1	.8			16.44	
lotes: Gross EUI is Er	nergy Use	 Total (not includ	ling PV)/1	Total Building	Area. Net EUI is	Energy Use Tota	al (includii	ng PV)/Total	Building	Area.			
. EXCEPTIONAL CONE		Coomotry Dorf	ormanco	Modeling An	proach which is	not canable of m	adaling	daulighting of	ntrols a	ad accur	mas the pro	corintino S	condany
he project uses the /lit Control requiren	nents are	met. PRESCRIPT											
econdary Daylit Zon ne building does no			ating. Vei	erify that servi	ce water heatin	g is not required	and is no	ot included in	the desi	gn.			
roject is claiming Ex	ception 2	to Section 140.	10(a): No	PV system is	required where	the required PV s	system si	ize is less tha	n 4 kWdo				
ENVELOPE GENERAL		TION (conditione	d spaces o	only)									
01				02			03	8				04	
Opaque Surfaces		tion	Total	I Gross Surface	Area (ft <sup>2</sup> )	Total		ion Area (ft <sup>2</sup> )				o Wall Ratio	o (%)
North-F				240 400			32					13.33 0	
South-F	acing <sup>3</sup>			240			32	2				13.33	
West-Fa	-			400 <b>1280</b>			0 64					0 5	
Roc				960			14					1.46	
es		·	<i>с</i> ,		45 0010011			45 00/00"					
orth-Facing is orient st-Facing is oriented											v),		
uth-Facing is orient est-Facing is oriente	ed to with	in 45 degrees oj	f true sou	ith, including	45 00'00" west	of south (SW), bu	ıt excludir	ng 45 00'00"	east of s	outh (SE			
											·	1.055	
Building Energy Eff	iciency St	andards - 2022	vonreside	ential Complia		rt Version: 2022.0 ma Version: rev 2		L					2-25 10:52:04 8-0723-0144
		NONDECIDENT											
RTIFICATE OF COM					NIT LIANCE IVIE								NRCC-PRF-E
onresidential Perfor	mance Co	mpliance Meth	od									(Pa	ige 12 of 17)
NONDECIDENT			CTE + 2										
NONRESIDENTIAL /		03			06	07	08	09	10	<b>)</b>	11	12	13
		Design OA	(	Supp	ly Fan			II	l Return / R	elief Far	n		
Name or Item Tag	Qty	CEM	CFM	Power	Power Units	Control Fa	an Type	CFM	Pow	/er	Power Units	Contro	Status <sup>1</sup>
AC-1	1	364.8	L,100	0.5	BHP (	Constant Vol	N/A	N/A	N/	A	N/A	N/A	N
atus: N - New, A - Alte	red, E - Exi	sting											
. SYSTEM SPECIAL FEA	TURES												
01				02			03					04	
System I	Name			Equipment Ty	/pe	Inte	erlocks per	r 140.4(n) <sup>1</sup>			her Special F (s) With CO		
AC-	1		Single I	Package VHP	Air System		No	)		Zone		xed DB	
es: This table includes	controls re	lated to the perfo	rmance pa	ath only. For pr	ojects using the p	rescriptive path, m	andatory (	and prescriptiv	e controls	s require	ements are do	cumented o	n the
C-MCH-E.		interlocks are not	provided,	NA means no o	operable opening	5.							
	ided, No =												
s = interlocks are prov			EL/MOTE							06			
s = interlocks are prov		USE AREA & HOT	EL/MOTEL			04		05		00			07
s = interlocks are prov NONRESIDENTIAL / 01			EL/MOTEL	03	nical Ventilation	04		05	Con			DCV or Oco	07 cupant Sensor
s = interlocks are prov	COMMON	USE AREA & HOT 02 lation Function		03	nical Ventilation	04 y OA CFM		05 aust CFM	- Cone		Area (sf)	DCV or Oco	
s = interlocks are prov . NONRESIDENTIAL / 01	COMMON Vent Educat	USE AREA & HOT 02		03 Mecha	nical Ventilation Suppl				- Cone		Area (sf)	DCV or Oco Contro	cupant Sensor
s = interlocks are prov . NONRESIDENTIAL / 0 01 Zone Name	COMMON Vent Educat	USE AREA & HOT 02 llation Function ion - Classrooms		03 Mecha # of People	nical Ventilation Suppl	y OA CFM		aust CFM	- Cond	ditioned	Area (sf)	DCV or Oco Contro	cupant Sensor ls, or Both
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Zone Name	COMMON Vent Educat	USE AREA & HOT 02 llation Function ion - Classroom: ages 9-18)	5	03 Mecha # of People 24	Inical Ventilation Suppl	<b>y OA CFM</b> 164.8	Exha	o O		ditioned 960 Repo	Area (sf)	DCV or Occ Control	cupant Sensor Is, or Both DCV
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NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online There are no Certificates of Verification applicable to this project

Schema Version: rev 20220601

Mechanical

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Report Generated: 2023-07-25 10:52:04

Compliance ID: EnergyPro-4958-0723-0144

									1-	
Nonresidential	Performance Co	mpliance Me	ethod						(Ра	ge 10 of 1
G4. NONRESIDEN	ITIAL AIR BARRIER									
		01							02	
		Building Stor	ry Name						Air Barrier	
		Com-Flo	or 1						No air barrier	
G5. OPAQUE SUF	FACE ASSEMBLY S	UMMARY								
01	02	03	04	05	0	6	07	08	09	10
Surface Name	Construction	Area (ft <sup>2</sup> )	Framing	Cavity	Continuo	us R-Value	Units	Value	Description of Assembly Layers	Statu
Surface Name	Туре	Area (It-)	Туре	R-Value	Interior	Exterior	Onits	value	Description of Assembly Layers	Statt
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

CA Building Energy Efficient	cy Standards - 2022 Nonresider	ntial Con	npliance		ersion: 2022.0.0 /ersion: rev 202				Generated: 2 e ID: Energy		
CERTIFICATE OF COMPLIAN	NCE - NONRESIDENTIAL PERFO	RMANC	E COMPLIAN		D					NRCO	C-PRF-E
Nonresidential Performance	ce Compliance Method									(Page 13	3 of 17)
H11. ZONAL SYSTEM AND TER	MINAL UNIT SUMMARY										<u></u>
01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capa	city (kBtuh)	)	Airflow (cfm)	)		Fan		
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	
K1. INDOOR CONDITIONED LI	GHTING GENERAL INFO										
01	02		03		04			05		06	
								Additional	(Custom) Allo	wance	
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Insta	Illed Lighting P (Watts)	ower	Lighting Contr (Watt			gory Footnote Watts)	s Area	Category Foot (Watts)	notes
Classroom, Lecture, or Training Vocational	960		384		0			0		0	
Building Totals:	960		384		0			0		0	
<sup>1</sup> See Table 140.6-C <sup>2</sup> See NRCC-LTIE for unconditio <sup>3</sup> Lighting information for existir	ned spaces ng spaces modeled is not included	in this tal	ble								

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220601	Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIA	NCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method		(Page 16 of 17)
Documentation Author's Declaration Statement		
1. I certify that this Certificate of Compliance documentation is accurate and	complete.	
Documentation Author Name: LAL B. SAHGAL	Documentation Author Signat	ure:
Company: LSA CONSULTING ENGINEERS	Signature Date:	
Address: 83, WINDSWEPT WAY	CEA/HERS Certification Identif	fication (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746	
Responsible Person's Declaration statement		
<ol> <li>I am eligible under Division 3 of the Business and Professions Code to Compliance (responsible designer)</li> <li>The energy features and performance specifications, materials, comp Certificate of Compliance conform to the requirements of Title 24, Performance documents, worksheets, calculations, plans and specifications</li> <li>I understand that a registered copy of this Certificate of Compliance the enforcement agency for all applicable inspections, and I will take</li> <li>I understand that a registered copy of this Certificate of Compliance occupancy, and I will take the necessary steps to accomplish these responses.</li> </ol>	ponents, and manufactured devices for the art 1 and Part 6 of the California Code of this Certificate of Compliance are consistent ations submitted to the enforcement age shall be made available with the building the necessary steps to accomplish this re- is required to be included with the docum	he building design or system design identified on this Regulations. ent with the information provided on other applicable ncy for approval with this building permit application. permit(s) issued for the building, and made available to equirement.
Responsible Designer Name:	Responsible Designer Signatur	re:
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:
Responsible Designer Name:	Responsible Designer Signatur	re:
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2023-07-25 10:52:04 Compliance ID: EnergyPro-4958-0723-0144

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIA	NCE METH	IOD	NRCC-PRF-
Nonresidential Performance Compliance Method			(Page 17 of 1
Responsible Designer Name: Lal Sahgal		Responsible Designer Signature:	
Company: LSA Consulting Engineers			
Address: 83, Windswept Way		Date Signed:	
City/State/Zip: Mission Viejo, Ca. 92692		License #: M26885	
Phone:		Title:	Scope:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	•	Version: 2022.0.000 a Version: rev 20220601	Report Generated: 2023-07-25 10:52:0 Compliance ID: EnergyPro-4958-0723-014

CERTIFICATE OF C					MANCE	COMPLIAN	ICE METH	HOD							(Pa	NRCC-
7A. FENESTRATION	N ASSEMBLY S	SUMMAR	RY (NONRESIE	DENTIAL)												
01 Fenestration	Fenestrat	tion Type	02 e/ Product Typ	oe / Frame	Type	03 Certifica	ation	04 Assembly		05 Are	a Ov	06 verall	07 Overall SH	GC	08 Overall V	T Si
Assembly Name		Verti	cal fenestrat	ion	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Metho	od1			(ft <sup>2</sup>	) U-f	actor				
Windows		Ope	erable windo N/A	w		NFR	С	Manufa	ctured	64	0	.35	0.24		0.5	
Sola tube		Fi	Skylight xed window N/A	,		NFR	С	Manufa	ctured	14	0	.39	0.37		0.65	
lotes: Newly inst lues are for the c	-		hall have a co	-		-		-		-					-	•
.6 and are used i tatus: N - New, A	in the analys	sis.														
. DRY SYSTEM EQ	QUIPMENT (FU	JRNACES	6, AIR HANDLI 03	NG UNITS,	HEAT PU	JMPS, VRF, E 05	CONOMI 06		07	08		09	10		11	1
				Total		Heat	ting			Tota		ooling		- E	conomizer	
uipment Name	Equipment <sup>-</sup>	Туре	Qty	Heatin Outpu (kBtu/ł	g (	upp Heat Output (kBtu/h)	Efficien Unit	·   FTT10	ciency	Coolin Outp (kBtu/	ng Effi ut l	ciency Unit	Efficiency		Type (if present)	Stat
AC-1 atus: N - New, A	Single Pack VHP Air Sys	stem	1	34.37		13.65	СОР	> 3	3.3	34.5	6	EER	11		Fixed DB	1
Building Energy RTIFICATE OF C	COMPLIANCE	E - NON	RESIDENTIA	L PERFOR			Schema	Version: 20 a Version: r HOD		501			Report Gen mpliance ID		ergyPro-495	
. INDOOR CONDI		TING SCI	HEDULE													
minaire Schedule			ent installed l	ighting in c	ondition		nd portab	le lighting ov		t <sup>2</sup> in off	ices)					
01			02 Iplete Lumina			03			04 Insta	lled Wa	ntts (Conditio	05 oned)			0	6
Name or Item	n Tag	fluores	iption (i.e. 3-l cent troffer, F mmable elect	32T8,	Watt	ts per lumin	aire	How is W	attage dete	ermined	d Total N	umber of	Luminaires		Installed	d Watts
L-1		2:	ballast) x4 LED Panel	 		48		Ac	cording to	5		8			38	34
ighting power de	nsities were u	ised in th	e compliance	model Buil	ding Depa	artments wi	ll need to	check prescr	iptive form.	s for Lui	minaire Sche	dule detai	ils.			
INDOOR CONDI																
hting Control Cre	edits Schedule	e (include 02	es all lighting	controls in	stalled in 03		d space fo	or complianc	e credit pe 05	r 140.6(	(a)2 and Tab 06	le 140.6-A	() 07		08	09
rea Description			Area (must nts of Table	Туре	of Lighti	ing Control	Ad	Power ljustment	Lumina Item Ta		Watts per Luminaire		# of minaires		ghting ntrolled	Control (Wat
1 First Floor	_	6-A and :	170.2-L) ecture, or		N1//	•	Fac	ctor (PAF)	L-1	ag	48		8		Watts) 384	0
5-1-First Floor	Trair	ning Voc	ational		N/A	A		N/A				•				0
										Li	ghting Cont	rol Credits	(Conditione	ed) Tot	tal (Watts)	0
INDOOR CONDI	ITIONED LIGH			GHTING CO	NTROL					Li	ghting Cont	rol Credits	(Conditione	ed) Tot	tal (Watts)	0
		TING MA	ANDATORY LIC	GHTING CO	NTROL					Li	ghting Cont	rol Credits	(Conditione	ed) Tot	tal (Watts)	0
ilding Level Cont	rols	01			NTROL					Li	ghting Conti		(Conditione	ed) Tot	tal (Watts)	0
ilding Level Cont	rols	01	Response 110		NTROL							2 30.1(c) & 1		ed) Tot	tal (Watts)	0
ilding Level Conti	mandatory D	01 Demand I Requi ontrols	Response 110	).12(c)		bliance	•	: Version: 20	022.0.000	5hut-Ofi	0 f Controls 13	2 80.1(c) & 1 iired	. <b>60.5(b)4C</b> Report Gen	nerate	ed: 2023-07	7-25 10:
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Iding Level Contained and a second se	rols Mandatory E Mandatory C M	01 Demand I Requi ontrols Standard (STE 04-12 <sup>7</sup> NG CH /stems out (Btul out (Cfm) system in) ir (%) ir (cfm/s STEM F 51 °F	Response 110         ired         ds - 2022 No         EM HEA         1369) - W         IECKS         in         n		al Comp ANC SYS <sup>1</sup> SYS <sup>1</sup> A Bard V Bard V Bard V A A A A A A A A A A A A A	TEM LOA	D Cotal Ro n Venter Return Return R Supply L SYST MENT S I Coil d System AL SYST MENT S I Coil D Coil	a Version: r <b>B LOAI</b> bom Loads d Lighting Air Ducts Return Fan Ventilation Supply Fan v Air Ducts <u>FEM LOAD</u> <u>ELECTION</u> <u>m Output</u> <u>n conditions</u> ) <u>FEM PEAK</u> 23 °F	222.0.000 ev 20220€ DS SU CFN 2 3 4 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	501 501 501 501 501 501 501 501 501 501	0 f Controls 13 Requ 0 f Controls 13 Requ 0 1 2 8 8 9 1 1,446 0 9,547 1,535 1,446 0 9,547 1,535 1,446 0 9,547 1,535 1,446 0 29,467 29,467 29,467 29,467 29,467	2 00.1(c) & 1 ired Co PEAK Laten 9,0 -5,0 4,0 4,0 4,0 4,0 100000000000000000000000000000000000	.60.5(b)4C         Report Gen         mpliance ID         Di         FI         COIL         t         COIL         t         COIL         t         COIL         t         200         338         338         338         262         973         973         PM         ROOM	errate 7/20 1007 A 230 365 365 4 365 7 70 60 /	ed: 2023-07 ergyPro-495 6/2023 Area 960 G. PEAK Sensible 11,785 586 (0 20,216 -1,535 -1,535 (0 20,216 -1,535 -1,535 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,535 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 -1,536 (0 20,216 (0 20,216 (0 20,216 (0 20,216) (0 20,216 (0 20,216) (0 20,216 (0 20,216) (0 20	7-25 10: 8-0723

		COMPLIANCE - NC Performance Comp			IANCE COMPLIAI		DD						NRCC-PRF-I ge 11 of 17
	G7A FENESTRATIC												
			•				04		05	06	07	08	09
		Fenestration T	ype/ Product Ty	pe / Frame T	vne		Assembly Met	thod			Overall SHGC	Overall VT	Status
					NFF	RC	Manufactur	ed	64	0.35	0.24	0.5	N
			Skylight										
	Sola tube			1	NFF	₹C	Manufactur	ed	14	0.39	0.37	0.65	N
				-				-					. ,
	<sup>2</sup> Status: N - New,	A - Altered, E - Exi	5	ING UNITS, F	IEAT PUMPS, VRF,	ECONOMIZE	ERS ETC.)						
	01	02	03	04			07		08		10	11	12
				Total		iting			Total	Cooling			
	Equipment Name	Equipment Type	Qty	Heating Output	Output (kBtu/b)		y Efficienc	y Ca	ooling utput		Efficiency		Status <sup>1</sup>
<text></text>		VHP Air System		34.37	13.65	СОР	3.3	3	4.56	EER	11	Fixed DB	Ν
	CERTIFICATE OF	COMPLIANCE - NO	ONRESIDENTIA	L PERFORM	- -	Schema	Version: rev 20			Cc	•	nergyPro-4958	-0723-014 NRCC-PRF-
9         9				lighting in co	nditioned space, a	and portable	lighting over 0.	.3 w/ft <sup>2</sup> ir	offices)				
Auton tam ta     Description (b) 3 target table)     Term table table     Term table tab			02					4				06	
Image: Name of the structure           12         And Decomposition of the structure struct	Name or liter	De	scription (i.e. 3-l	amp 🔶				Installed	Watts (C	onditioned)	I		
	wanne or iter	-	dimmable elect		Watts per lumir	naire	How is Wattag	ge determ	ined <sup>·</sup>	Total Number o	f Luminaires	Installed	Watts
Bit DOOR CONTINUE USERING CONTINUE CREATER         11 Float Float       0 </td <td></td> <td>lonciti</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>aile</td> <td>384</td> <td>Ļ</td>		lonciti			-			-			aile	384	Ļ
uputed control					ing Departments w	ill need to ch	neck prescriptive	e forms foi	r Luminai	re Schedule det	ails.		
0         0					alled in condition		compliance cre	dit ner 14	0.6(a)2 a	nd Table 140 6			
And Decurption       match tage number of table       type of tables is compared and tables in the set of tables in tables in the set of tables in table		-						-	0.6(a)2 a		·	08	09
international control provided and control to the control of the control	Area Description	meet requirer	ments of Table	Туре	of Lighting Control	l Adju	istment					Controlled	
All INDOOR CONTINUE UNITING CONTINUE         NUMBER CONTINUE UNITING CONTINUE         Bailing Load Contentional Uniting Continue         Multiple Contentional Uniting Continue         Bailing Load Contentional Uniting Contenting Contentional Uniting Contentional Uniting Co							or (PAF)						
Improve Display         Improve Display         Set MACK UIT ES FORMER IDS.21(4)         Set MACK UIT ES FORMER UITS.21(4)         Set MACK UIT ES FORMER UITS.21(4)         Madatory Former UITS.21(4)         Provem Weather UITS.21(4)         Madatory Former UITS.21(4)         Provem Variance UITS.21(4)         Datatory Variance UITS.21(4)         Provem Variance UITS.21(4)         Provem Variance UITS.21(4)         Provem Variance UITS.21(4)         Output of Provem Variance UITS	S-1-FIrst Floor	Training \	/ocational		N/A	r			Lightin	g Control Credi	ts (Conditioned)		
Import District         Import District         Set VERC L11 E for mandatory controls         Mandatory Controls         Set VERC L11 E for mandatory controls         Temport Version 2022 0.000 Satema Version: Tex 2022000         Temport Version: 2022 0.000 Satema Version: Tex 2022000         Temport Version: Tex 2022000         Output for Tex 10000       Temport Version: Tex 2022000         Temport Version: Tex 2022000         Output for Tex 10000       Temportex 202000         Output f	K4. INDOOR COND				ITROL							<b>I</b>	
Medidary Danase Response 10.12(c) Required         But-off Counds 128-10 (2.8.100)K           See NECCUT-L for mandatary controls         Report Version: 2022.0.000 Control Version: 2022.0.0000 Control Version: 2022.0.000 Control Version: 2022	Building Level Con	itrols											
Numeric         Numeric           See NRCC LIF Efor muldately controls.         Report Veniors 2022.000           CA Building, Chergy (Florency Standards - 2022 Nonesulential Compliance         Report Veniors 2022.000           Compliance To Lings (Stream Veniors)         Compliance To Lings (Stream Veniors)           Project Name         Date           24Add (PC Od+121369) - Wall AC         Stream Veniors)           System Name         Biology (PC Od+121369) - Wall AC           System Name         Stream Veniors)           Output per System         Stream Veniors)           Collugate (Blub)         33.000           Total Room Loads         2.054           Collugate (Blub)         33.000           Total Coput (Blub)         30.000           Total Coput (Blub)         30.000           Total Coput (Blub)		Mandatory Dema		12(c)				Shut	-Off Cont		160 5(b)4C		
		Re	quired	,(0)				51141			100.5(5)40		
Operation of the state	See NRCC-LTI-E for	r mandatory control	5										
Project Kesne 24X40 (PC C04-121369) - Wall AC System Name AC-1 Heating System Uniput per System States Output per System States Output (Buhy) Total Output (Buhy) Output (Buhy) Total Output (Buhy) Output (Buhy) Output (Buhy) Total Output (Buhy) Output (Buhy) Total Output (Buhy) Output (Buhy)	CA Building Energ	gy Efficiency Stand	ards - 2022 No	nresidentia									
24X40 (PC 04-12/389) - Wall AC       7/26/2023         String       Bit         ENGINEENNE       Bit         AC-1       Bit         ENGINEENNE       SYSTEM LOAD         Number of System       33.000         Output per System       Total Room Loads         CFM devines       11.768         Output per System       33.000         Output per System       11.446         Output per System       38.000         Total Output (Btuh)       38.000         Total Ou					l Compliance					C			
System     Flor Area       System     1       Heating System     1       Output per System     33.000       Total Room Loads     COLLCOOLING PEAK       Output per System     1       Output (Buth)     33.000       Total Room Loads     0       Output (Buth)     30.000       Total Output (Septorn Name)     1.000       Air System     1.000       Air System     1.000       Air System     1.000       Air System     1.000       Outside Air (cfm/segh)     0.0322       Outside Air (cfm/segh)     0.0322       Outside Air (cfm/segh)     0.0322       Total Alujusted System Output     2.0.407			rem He <i>l</i>			Schema	Version: rev 20	0220601	IMAF		ompliance ID: E	nergyPro-4958	
ENGINEERING CHECKS       SYSTEM LOAD         Number of Systems       1         Heating System       33.000         Output per System       33.000         Output (Buth)       33.000         Total Output (Buth)       36.000         Total Output (Buth)       36.000         Total Output (Buth)       36.000         Total Output (Buth)       36.000         Total Output (Buth)       30.000         Air System       1.040         Air System       1.040         Air System       1.040         Outside Air (Chin)       33.2%         Output (Buth)       33.2%         Output (Buth)       33.2%         Output (Buth)       33.2%	Pro	oject Name		ATING		Schema	Version: rev 20	0220601	IMAF		ompliance ID: E	nergyPro-4958	
Number of System         COIL COOLING PEAK         COIL HTG. PEAK           Heating System         33.000         Total Output (Btuh)         33.000           Output per System         30.000         20.01<	Pro 24 Sy	oject Name IX40 (PC 04-1 /stem Name		ATING		Schema	Version: rev 20	0220601	IMAF		ompliance ID: E Date	nergyPro-4958 26/2023 r Area	
Output per System         33.000           Total Quipt (Binkingh)         33.001           Output (Binkingh)         36.40           Output (Binkingh)         36.40           Output (Binkingh)         36.40           Output (Binkingh)         36.40           Output (Binkingh)         36.00           Output (Binkingh)         36.00           Total Output (Binkingh)         36.00           Total Output (Binkingh)         36.00           Total Output (Binkingh)         36.00           Total Output (Binkingh)         37.5           Outside Ari (System Output         29.467           Outside Ari (System Output         29.467           Outside Ari (System PSCHROMETRICS (Airstream Temperatures at Time of Heatin	Pro 24 Sy AC	oject Name IX40 (PC 04-1 /stem Name C-1	21369) - W	ATING	AND COC	Schema V	Version: rev 20	0220601	IMAF		ompliance ID: E Date	nergyPro-4958 26/2023 r Area	
Output (Btuh/sett)       33,000         Output (Btuh/sett)       34,40         Cooling System       36,000         Total Output (Btuh/sett)       36,000         Total Output (Btuh)       37,60         Total Output (Btuh)       37,60         Total Output (Btuh/sett)       37,61         Airfow (effm)       1,03         Bard WaDHB       29,467       4,973         Outside Air (%)       33,2%1       113,177         Outside Air (%)       32,2%1       114,40       29,467         Outside Air (%)       32,2%1       114,40       29,467 </td <td>Pro 24 Sy AC El</td> <td>oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING (</td> <td>21369) - W</td> <td>ATING</td> <td>AND COC</td> <td>Schema V</td> <td>Version: rev 20</td> <td>0220601 SUN</td> <td></td> <td>RY</td> <td>ompliance ID: E Date 7/ Floor</td> <td>nergyPro-4958 26/2023 r Area 960</td> <td></td>	Pro 24 Sy AC El	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING (	21369) - W	ATING	AND COC	Schema V	Version: rev 20	0220601 SUN		RY	ompliance ID: E Date 7/ Floor	nergyPro-4958 26/2023 r Area 960	
Output (Buth)       344         Cooling System       90.000         Output (Buth)       360.00         Total Output (Buth)       360.00         Total Output (Buth)       37.5         Total Output (Buth)       10.0         HX       Coll (Coll (C	Pro 24 Sy AC EI Nu	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System eating System	21369) - W CHECKS ns	ATING /all AC 1	AND COC	Schema V	Version: rev 20	COII CFM	- COOL Sens	ING PEAK	Date 7/ Floor COIL H nt CFM	26/2023 r Area 960 TG. PEAK Sensible	
Cooling System       30.000         Output (Bruh)       36.000         Total Output (Bruh)       37.0         Total Output (Bruh)       32.00         Total Output (Bruh)       1.00         Bard W380HB       29.407         Airflow (cfm/stn)       33.27         Outside Air (%)       33.27         Outside Air (%)       33.27         Outside Air (%)       33.27         Outside Air (%)       33.27         Total Adjusted System Output       29.407         Outside Air (%)       33.27         Outside Air (%)       33.27         Total Adjusted System Output       29.407         Outside Air (%)       30.30         Total Adjuste	Pro 24 Sy AC EI Nu	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System eating System Output per Sys	21369) - W CHECKS ns	ATING /all AC 1 33,000	AND COC	Schema V DLING AD Total Room	Mersion: rev 20	COII CFM	- COOL Sens	ING PEAK ible Late 18,927 9	Date 7/ Floor COIL H nt CFM	26/2023 r Area 960 TG. PEAK Sensible	
Couple of Subministry       Supply Fan       1.335       -1.535         Total Output (Bluh/sqtt)       37.5       Supply Air Ducts       1.446       589         Total Output (Bluh/sqtt)       37.5       TOTAL SYSTEM LOAD       42.901       4.262       31.644         Air System       1.100       HVAC EQUIPMENT SELECTION	Pro 24 Sy AC EI Nu	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System eating System Output per Sys Total Output (B	21369) - W CHECKS ns tem tuh)	ATING /all AC 1 33,000 33,000	AND COC	Schema V DLING AD Total Room	m Loads Lighting	COII CFM	- COOL Sens	ING PEAK ible Late 28,927 9 0	Date 7/ Floor COIL H nt CFM	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785	
Ioual Output (Tons)       3.0         Total Output (Tons)       3.0         Total Output (Tons)       3.0         Total Output (Gatt/Ton)       3200         Air System       1.00         HYAC EQUIPMENT SELECTION       42.901         Air System       1.100         HYAC EQUIPMENT SELECTION       31.644         Air System       1.100         HYAC EQUIPMENT SELECTION       31.644         Air Gow (cfm/acti)       1.15         HY Supply Air Ducts       29.467         Air Gow (cfm/acti)       1.16         HYAC EQUIPMENT SELECTION       31.644         Air Gow (cfm/acti)       1.16         HYAC EQUIPMENT SELECTION       31.644         Air Gow (cfm/acti)       1.15         HYAC EQUIPMENT SELECTION       31.644         Air Gow (cfm/acti)       1.15         HYAC EQUIPMENT SELECTION       29.467         Outside Air (%)       33.2%         Outside Air (%)       30.2%         Stopply Fan	Pro 24 Sy AC EI Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System eating System Output per Sys Total Output (B Output (Btuh/se	21369) - W CHECKS ns tem tuh)	ATING /all AC 1 33,000 33,000 34.4	AND COC	Schema V DLING AD Total Room rn Vented Return A	m Loads Lighting Air Ducts	COII 2,054	- COOL Sens 4 2	<b>ING PEAK</b> <b>ible Late</b> 18,927 9 0 1,446 0	Date 7/ Floor COIL H nt CFM 0,600 230	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0	
1000 Output (Blulvigt)       37.6         Total Output (Stulvigt)       320.0         Total Output (Stulvigt)       320.0         Total Output (Stulvigt)       320.0         Air System       1.00         HVAC EQUIPMENT SELECTION         Airlow (cfm)       1.10         Bard W36HB       29.467         Airlow (cfm)       1.15         HP Supplemental Coli       13.848         Airlow (cfm/con)       366.7         Outside Air (cfm/sqft)       0.38         Outside Air (cfm/sqft)       0.38         Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Jul 3 PM         Jan 1 AM       HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)         13*F       51*F       52*F       110*F       123*F         Outside Air (Striggt)       Heating Coil       Aux. Heat Coil       122*F         Outside Air       Supply Fan       Heating Coil       Aux. Heat Coil       122*F         Outside Air       Supply Fan       B0 / 65*F       50 / 57*F       60 / 57*F         Outside Air       Supply Fan       60 / 65*F       50 / 57*F       61.9%       60 / 57*F         Outside Air       Supply Fan       Cooling Coil       <	Pro 24 Sy AC EI Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 <b>NGINEERING (</b> umber of System eating System Output per Sys Total Output (B Output (Btuh/so ooling System Output per Sys	21369) - W CHECKS ns tem tuh) qft)	ATING /all AC 1 33,000 33,000 34.4 36,000	AND COC	Schema V DLING AD Total Room rn Vented Return A Re Ve	m Loads Lighting Air Ducts Aturn Fan entilation	COII 2,054	- COOL Sens 4 2	ING PEAK ible Late 18,927 9 0 1,446 0 9,547 -5	Date 7/ Floor COIL H nt CFM 0,600 230	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 589	
Total Output (sqfvTon)       3200       TOTAL SYSTEM LOAD       42,801       4,282       31,644         Air System       1,100       HVAC EQUIPMENT SELECTION       13,777         Airflow (cfm/sqft)       1,15       HP Supplemental Coil       13,647         Airflow (cfm/sqft)       1,15       HP Supplemental Coil       13,647         Outside Air (%)       332.%       Total Adjusted System Output       29,467       4,973       13,646         Outside Air (%)       332.%       Total Adjusted System Output       29,467       4,973       27,425         Outside Air (%)       332.%       Total Adjusted System Output       29,467       4,973       27,425         Outside Air (%)       332.%       Total Adjusted System Output       29,467       4,973       27,425         Outside Air (%)       332.%       Total Adjusted System Output       29,467       4,973       27,425         Outside Air (%)       341.00H       Jan 1 AM       HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       Jul 3 PM       Jan 1 AM         13 *F       51 *F       52 *F       110 *F       123 *F       F       F       F       F       60 / 67 *F       F       F       F       F       F       F       F	Pro 24 Sy AC EI Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System output per Sys Total Output (B Output (Btuh/se ooling System Output per Sys Total Output (B	21369) - W CHECKS ns   tem tuh)   qft) tem   tuh)	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000	AND COC	Schema V DLING AD Total Rood rn Vented Return A Re Ve Su	m Loads Lighting Air Ducts sturn Fan entilation pply Fan	COII 2,054	- COOL Sens 4 2	ING PEAK ible Late 8,927 9 0 1,446 0 9,547 -5 1,535	Date 7/ Floor COIL H nt CFM 0,600 230	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 520,216 -1,535	
CFM per System       1.100       HVAC EQUIPMENT SELECTION         Airflow (cfm)       1.100       Bard W30HB       29,467       4.973       13,777         Airflow (cfm/sqft)       1.16       HP Supplemental Coll       1       13,648         Airflow (cfm/Ton)       386.7       1014 Adjusted System Output       29,467       4.973       13,777         Outside Air (%)       33.2%       Total Adjusted System Output       29,467       4.973       27,425         Outside Air (%)       0.33       Total Adjusted System Output       29,467       4.973       27,425         Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Juli 3 PM       Jan 1 AM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       122 °F       10 °F       122 °F         Outside Air       Supply Fan       Heating Coil       Aux. Heat Coil       122 °F       70 °F         G9 °F       SUpply Fan       Heating Coil       Aux. Heat Coil       122 °F       70 °F       70 °F         COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)       102 /69 °F       86 /66 °F       58 /57 °F       60 / 67 °F         Outside Air       Supply Fan       Cooling Coil       61.9%       ROOM       60 / 67 °F	Pro 24 Sy AC EI Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System output per System Output per System Output (Btuh/so Output (Btuh/so Output per System Output per System Total Output (B Total Output (B	21369) - W CHECKS ns tem tuh) qft) tem tuh) ons)	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 3.0	AND COC	Schema V DLING AD Total Rood rn Vented Return A Re Ve Su	m Loads Lighting Air Ducts sturn Fan entilation pply Fan	COII 2,054	- COOL Sens 4 2	ING PEAK ible Late 8,927 9 0 1,446 0 9,547 -5 1,535	Date 7/ Floor COIL H nt CFM 0,600 230	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 520,216 -1,535	
Outside Air (bit (cfm/sqft)       1.100       Bard W36HB       29.467       4.973       13,777         Airflow (cfm/sqft)       1.15       HP Supplemental Coli       13,648       13,648         Airflow (cfm/sqft)       0.33.2%       Total Adjusted System Output       29.467       4.973       13,777         Outside Air (%)       0.33.2%       Total Adjusted System Output       29.467       4.973       27.425         Outside Air (cfm/sqft)       0.33       Total Adjusted System Output       29.467       4.973       27.425         Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Jul 3 PM       Jan 1 AM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       122 °F       110 °F       123 °F         Outside Air       Supply Fan       Heating Coli       Aux. Heat Coli       122 °F         Outside Air       Supply Fan       Heating Coli       Aux. Heat Coli       122 °F         COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)       70 °F       69 °F       60 / 67 °F         Outside Air       Supply Fan       Supply Fan       Cooling Coli       60 / 67 °F       60 / 67 °F         Outside Air       Supply Fan       Cooling Coli       Goling Coli       61.9%       ROOM	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 <b>NGINEERING (</b> umber of System Output per System Output per System Output (Btuh/so Ooling System Output ger System Output per System Output ger System	21369) - W CHECKS ns   tem   tuh)   qft)   tem   tuh)   ons)   tuh/sqft)	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 3.0 37.5	AND COC	AD Total Rood rn Vented Return A Re Ve Supply A	m Loads Lighting Air Ducts Sturn Fan entilation pply Fan Air Ducts	COII 2,054	- COOL Sens 4 2	<b>ING PEAK</b> <b>ible Late</b> 1,446 0 9,547 -5 1,535 1,446	COIL H           COIL H           0,600         230           338         365	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 5 20,216 -1,535 589	
Airflow (cfm/sqtt)       1.15       HP Supplemental Coll       13,648         Airflow (cfm/Sqtt)       33.2%       Total Adjusted System Output       29,667       4,973       27,425         Outside Air (cfm/Sqtt)       0.38       (Adjusted System Output       29,667       4,973       27,425         Outside Air (cfm/Sqtt)       0.38       Total Adjusted System Output       29,667       4,973       27,425         Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Jul 3 PM       Jan 1 AM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       122 °F       122 °F         Outside Air       Supply Fan       Heating Coil       Aux. Heat Coil       122 °F         Outside Air       Supply Fan       86 / 66 °F       58 / 57 °F       70 °F         Outside Air       Supply Fan       68 / 66 °F       58 / 57 °F       60 / 57 °F         Outside Air       Supply Fan       Cooling Coil       60 / 57 °F       60 / 57 °F         Outside Air       Supply Fan       Cooling Coil       60 / 57 °F       60 / 57 °F	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 <b>NGINEERING (</b> umber of System Output per System Output per System Output (Btuh/set Output (Btuh/set Output (Btuh/set Output (Btuh/set Output per System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (Set Total Output (Set	21369) - W CHECKS ns tem tuh) qft) tem tuh/sqft) qft/Ton)	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 30,000 37.5 320.0	AND COC	AD Total Rood rn Vented Return A Re Ve Supply A AL SYSTE	M Loads Lighting Air Ducts Humination poly Fan Air Ducts	COII 2,054	- COOL Sens 4 2	<b>ING PEAK</b> <b>ible Late</b> 1,446 0 9,547 -5 1,535 1,446	COIL H           COIL H           0,600         230           338         365	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 5 20,216 -1,535 589	
Dutside Air (%)       33.2%       Total Adjusted System Output       29,467       4.973       27,425         Outside Air (cfm/sqft)       0.38       TIME OF SYSTEM PEAK       Juli 3 PM       Jan 1 AM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       Image: Color of the addition	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System output per System Output per System Output (Btuh/so Output (Btuh/so Output (Btuh/so Output ger System Output per System Total Output (B Total Output (B Total Output (So Total Output (So Total Output (So Total Output (So Total Output (So Total Output (So	21369) - W CHECKS ns tem tuh) qft) tem tuh/sqft) qft/Ton)	ATING /all AC 1 33,000 33,000 34,4 36,000 36,000 36,000 30,000 37,5 320,0 1,100	AND COC	AD Total Rood rn Vented Return A Re Ve Supply A AL SYSTE	M Loads Lighting Air Ducts Humination poly Fan Air Ducts	COII 2,054	- COOL Sens 4 2 5	LING PEAK       ible     Late       28,927     9       0     1,446       0     9       9,547     -5       1,535     1,446       2,901     4	COIL H           COIL H           COIL CFM           0,600         230           ,338         365	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 31,644	
Outside Air (cfm/sqft)       0.38       (Adjusted for Peak Design conditions)         Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Juli 3 PM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       Image: Condition of the stress	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/se Ooling System Output per System Output per System Output per System Output Qutput (B Total Output (B Total Output (B Total Output (B Total Output (Se Total Output (Se) Total Output (Se)	21369) - W CHECKS ns tem tuh) qft) tem tuh/sqft) qft/Ton) n	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 37.5 320.0 1,100 1,100	AND COC SYSTEM LOA Retur TOTA Bard W36HB	Schema V DLING AD Total Rood rn Vented Return A Re Ve Supply A Supply A AL SYSTE	M Loads Lighting Air Ducts Humination poly Fan Air Ducts	COII 2,054	- COOL Sens 4 2 5	LING PEAK       ible     Late       28,927     9       0     1,446       0     9       9,547     -5       1,535     1,446       2,901     4	COIL H           COIL H           COIL CFM           0,600         230           ,338         365	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 5 20,216 -1,535 589 0 31,644 31,644	
Note: values above given at ARI conditions       TIME OF SYSTEM PEAK       Juli 3 PM       Jan 1 AM         HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)       Image: Stream Str	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 <b>NGINEERING (</b> umber of System output per System Output per System Output (Btuh/se ooling System Output per System Output per System Output Output (B Total Output (B Total Output (B Total Output (B Total Output (S Total Output (S	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 36,000 37.5 320.0 1,100 1,100 1,100 1,15 366.7	AND COC SYSTEM LOA Retur TOTA Bard W36HB HP Supplementa	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil	Version: rev 24	COII 2,054	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         '9,467       4	00000000000000000000000000000000000000	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 0 0 20,216 -1,535 589 0 31,644	
HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak) 13 °F 51 °F 52 °F 110 °F 123 °F Outside Air Supply Fan Heating Coil Aux. Heat Coil 122 °F 1,100 cfm ROOM 70 °F COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak) 102 / 69 °F 84 / 66 °F 88 / 56 °F 58 / 57 °F Outside Air Supply Fan Cooling Coil 61.9% ROOM 101 / 57 °F 0 Utside Air Supply Fan Cooling Coil 61.9% ROOM 101 / 57 °F	Pro 24 Sy AC El Nu He	oject Name IX40 (PC 04-1 /stem Name C-1 <b>NGINEERING (</b> umber of System output per System Output per System Output (Btuh/so Ooling System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (B Total Output (B Total Output (S ir System CFM per Syster Airflow (cfm/sq Airflow (cfm/sq Airflow (cfm/sq	21369) - W	ATING /all AC 1 33,000 33,000 34,4 36,000 36,000 36,000 30,00 37,5 320,0 1,100 1,100 1,100 1,15 366,7 33,2%	AND COC SYSTEM LOA Retur TOTA HVAC EQUIP Bard W36HB HP Supplementa	Schema V DLING AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil al Coil	Version: rev 24	COII 2,054	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         '9,467       4	00000000000000000000000000000000000000	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 0 0 20,216 -1,535 589 0 31,644	
Image: Colling System Psychrometrics (Airstream Temperatures at Time of Cooling Peak)         COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)         102 / 69 °F         84 / 66 °F         S8 / 57 °F         OUtside Air         Supply Fan         Cooling Coil         102 / 69 °F         84 / 66 °F         S8 / 57 °F         Outside Air         Outside Air         Supply Fan         Cooling Coil         1,100 cfm         Outside Air         Supply Fan         Cooling Coil         1,100 cfm         OUTSIDE SUPPLY Fan         Cooling Coil         1,100 cfm         60 / 57 °F         61.9%		oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System output per System Output per System Output (Btuh/se Output (Btuh/se Output (Btuh/se Output (Btuh/se Output Qutput (B Total Output (B Total Output (B Total Output (Cfm Total Output (S Total Output (S To	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 30,000 37.5 320.0 1,100 1,100 1,100 1,100 1,100 1,15 366.7 33.2% 0.38 onditions	AND COC SYSTEM LOA Retur TOTA HVAC EQUIP Bard W36HB HP Supplementa HP Supplementa Total Adjusted (Adjusted for Per (Adjusted for Per	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil al Coil ad System eak Design c OF SYSTE	Version: rev 24	0220601 SUN COII 2,054 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         1,446       0         9,547       -5         1,535       -4         2,901       4         '9,467       4         '9,467       4	00000000000000000000000000000000000000	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 0 0 20,216 -1,535 589 0 31,644 31,644	
Outside Air 365 cfm 1,100 cfm 89 °F COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak) 102 / 69 °F 84 / 66 °F 86 / 66 °F 58 / 57 °F Outside Air 365 cfm 100 cfm Supply Fan Cooling Coll 100 cfm 0 / 57 °F 0 / 57 °F		oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System output per System Output per System Output (Btuh/se Output (Btuh/se Output (Btuh/se Output (Btuh/se Output Qutput (B Total Output (B Total Output (B Total Output (Cfm Total Output (S Total Output (S To	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 30,000 37.5 320.0 1,100 1,100 1,100 1,100 1,100 1,15 366.7 33.2% 0.38 onditions	AND COC SYSTEM LOA Retur TOTA HVAC EQUIP Bard W36HB HP Supplementa HP Supplementa Total Adjusted (Adjusted for Per (Adjusted for Per	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil al Coil ad System eak Design c OF SYSTE	Version: rev 24	0220601 SUN COII 2,054 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         1,446       0         9,547       -5         1,535       -4         2,901       4         '9,467       4         '9,467       4	00000000000000000000000000000000000000	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 0 0 20,216 -1,535 589 0 31,644 31,644	
69 °F COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak) 102 / 69 °F 84 / 66 °F 86 / 66 °F 58 / 57 °F Outside Air 365 cfm 1,100 cfm 60 / 57 °F 60 / 57 °F 61.9%	Pro 24 Sy AC EI Nu He CC	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/so Ooling System Output (Btuh/so Ooling System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (S Total	21369) - W	ATING /all AC 1 33,000 33,000 34,4 36,000 36,000 36,000 30,00 37,5 320,0 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,000 1,000 1,000 1,000 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1	AND COC SYSTEM LOA Retur TOTA Bard W36HB HP Supplementa (Adjusted for Pe (Adjusted for Pe TIME ( (Adjusted menta)	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE AL SYSTE al Coil ed System eak Design c OF SYSTE nperatures	Version: rev 24	0220601 SUN COII 2,054 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         1,446       0         9,547       -5         1,535       -4         2,901       4         '9,467       4         '9,467       4	00000000000000000000000000000000000000	nergyPro-4958 26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 0 0 20,216 -1,535 589 0 31,644 31,644	
COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)         102 / 69 °F         84 / 66 °F         S8 / 57 °F         Outside Air         365 cfm         1.100 cfm         Cooling Coil         60 / 57 °F         60 / 57 °F         60 / 57 °F         60 / 57 °F         Supply Fan         Cooling Coil         1,100 cfm	Pro 24 Sy AC EI Nu He Co Ai Ai 13	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/sd Ooling System Output per System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (Cfm) Airflow (cfm/sq Airflow (cfm/sq Outside Air (%) Outside Air (%) Outside Air (%) Outside Air (%)	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 36,000 34.4 36,000 36,000 30,000 34.4 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 30,000 34.4 36,000 30,000 50,000 50,000 52 °F	AND COC SYSTEM LOA Retur	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil ad Coil CF SYSTE nperatures 123	Version: rev 24	0220601 SUN COII CFM 2,054 365 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         9,467       4         9,467       4         9,467       4	Ompliance ID: E       Date       7/       Floor       COIL H       0,600       230       ,338       365       ,262       ,973       ,973       ,973       ,973       ,973	26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 20,216 -1,535 589 31,644 31,644 27,425 Jan 1 AM	
102 / 69 °F       84 / 66 °F       86 / 66 °F       58 / 57 °F         Outside Air       Supply Fan       60 / 57 °F         365 cfm       Supply Fan       Cooling Coil         1,100 cfm       61.9%       ROOM	Pro 24 Sy AC EI Nu He Co Ai Ai 13	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/so Ooling System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (B Total Output (B Total Output (S ir System CFM per System Airflow (cfm/sq Airflow (cfm/sq	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 36,000 34.4 36,000 36,000 30,000 34.4 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 30,000 34.4 36,000 30,000 50,000 50,000 52 °F	AND COC SYSTEM LOA Retur	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil ad Coil CF SYSTE nperatures 123	Version: rev 24	0220601 SUN COII CFM 2,054 365 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         9,467       4         9,467       4         9,467       4	Ompliance ID: E         Date         7/         Floor         0         COIL H         0,600         230         ,338         365         ,262         ,973 <td>26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM</td> <td></td>	26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM	
102 / 69 °F       84 / 66 °F       86 / 66 °F       58 / 57 °F         Outside Air       Supply Fan       60 / 57 °F         365 cfm       Supply Fan       Cooling Coil         1,100 cfm       61.9%       ROOM	Pro 24 Sy AC EI Nu He Co Ai Ai 13	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/so Ooling System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (B Total Output (B Total Output (S ir System CFM per System Airflow (cfm/sq Airflow (cfm/sq	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 36,000 34.4 36,000 36,000 30,000 34.4 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 30,000 34.4 36,000 30,000 50,000 50,000 52 °F	AND COC SYSTEM LOA Retur	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil ad Coil CF SYSTE nperatures 123	Version: rev 24	0220601 SUN COII CFM 2,054 365 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         9,467       4         9,467       4         9,467       4	Ompliance ID: E         Date         7/         Floor         0         COIL H         0,600         230         ,338         365         ,262         ,973 <td>26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM</td> <td></td>	26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM	
102 / 69 °F       84 / 66 °F       86 / 66 °F       58 / 57 °F         Outside Air       Supply Fan       60 / 57 °F         365 cfm       Supply Fan       Cooling Coil         1,100 cfm       61.9%       ROOM	Pro 24 Sy AC EI Nu He Co Ai Ai 13	oject Name IX40 (PC 04-1 /stem Name C-1 NGINEERING ( umber of System Output per System Output per System Output (Btuh/so Ooling System Output per System Output per System Total Output (B Total Output (B Total Output (B Total Output (B Total Output (B Total Output (S ir System CFM per System Airflow (cfm/sq Airflow (cfm/sq	21369) - W	ATING /all AC 1 33,000 33,000 34.4 36,000 36,000 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 36,000 34.4 36,000 36,000 30,000 34.4 36,000 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 34.4 36,000 30,000 30,000 34.4 36,000 30,000 50,000 50,000 52 °F	AND COC SYSTEM LOA Retur	AD Total Rood rn Vented Return A Return A Re Ve Supply A AL SYSTE MENT SE al Coil ad Coil CF SYSTE nperatures 123	Version: rev 24	0220601 SUN COII CFM 2,054 365 365	- COOL Sens 4 2 5	ING PEAK         ible       Late         8,927       9         0       1,446         0       9,547         1,535       1,446         2,901       4         9,467       4         9,467       4         9,467       4	Ompliance ID: E         Date         7/         Floor         0         COIL H         0,600         230         ,338         365         ,262         ,973 <td>26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM</td> <td></td>	26/2023 r Area 960 TG. PEAK Sensible 11,785 589 0 0 0 20,216 -1,535 589 0 0 13,777 13,648 27,425 Jan 1 AM	
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	MPLIANCE - NON			MANCE COMPLIA	NCE METH	HOD						(F	NRCC-PF Page 11 of
RATION	ASSEMBLY SUMMA	•	DENTIAL)	T								 T	
ion	Fenestration Typ	02 e/ Product Ty	pe / Frame	Type	cation	04 Assembly N	/lethod	05 Area	06 Overal U-facto	I Over	07 rall SHGC	08 Overall	VT Sta
a <b>me</b> cific		ical fenestra		Met		Manufact	turad	(ft <sup>2</sup> )			0.24	0.5	
vs	Ор	erable windo N/A Skylight	5W	NF	ĸc	Manufact	tured	64	0.35		0.24	0.5	
e	F	ixed window N/A	/	NF	RC	Manufact	tured	14	0.39		0.37	0.65	
r the glo used in		ed by the m	-	FRC Label Certifico er, and are shown			-					-	•
	,	5	ING UNITS,	HEAT PUMPS, VRF,	ECONOMI	ZERS ETC.)							
	02	03	04	05 He	06 ating	07	,	08	09 Coolin		10	11	12
ame E	Equipment Type	Qty	Total Heatin Outpu	g Supp Heat	Efficien Unit			Total Cooling Output	Efficier Unit	· I FTTI	ciency	Economizer Type (if present)	Statu
	Single Package /HP Air System	1	(kBtu/) 34.37	n)	СОР	, 3.3		<b>kBtu/h)</b> 34.56	EER		11	Fixed DB	N
	Efficiency Standar			ial Compliance MANCE COMPLIA	Schema	Version: 202 a Version: rev <b>HOD</b>		1		•		ted: 2023-0 nergyPro-49	
	formance Compli		d									(1	Page 14 of
	ONED LIGHTING SC		lighting in o	conditioned space,	and portab	le lighting ove	r 0.3 w/ft <sup>2</sup>	in offices)					
01		02 nplete Lumina		03			04 Installe	ed Watts (	Conditioned	05 d)		(	06
or Item T	ag fluores	ription (i.e. 3- scent troffer, l immable elec	F32T8,	Watts per lumi	naire	How is Wat	tage deterr	mined	Total Num	per of Lumin	aires	Installe	ed Watts
L-1		ballast) 2x4 LED Pane		48 ding Departments v	.,,		ording to			8		3	84
ption	Primary Function meet requirement 140.6-A and Classroom, Le Training Vo	ents of Table 170.2-L) ecture, or cational		e of Lighting Contro	I Ad	Power ljustment ctor (PAF)	Luminaire Item Tag L-1	Lu	atts per minaire 48 ng Control C	# of Luminair 8 Credits (Cond	es C	Lighting controlled (Watts) 384 Total (Watts)	Control C (Watt: 0 0
CONDITI	ONED LIGHTING M	ANDATORY LI		INTROL									
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IV	landatory Demand		0.12(c)				Shi	ut-Off Cor	02 1trols 130.1	(c) & 160.5(b	b)4C		
	landatory Demand Requ andatory controls	Response 110	D.12(c)				Shi	ut-Off Cor			6)4C		
Energy HV Proje 24X4 Syste AC	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 em Name	<b>Response 110</b> irred ds - 2022 No <b>EM HE/</b> 1369) - W	onresident	ial Compliance	Schema DLING	Version: 202 a Version: rev <b>B LOAD</b>	2.0.000 / 2022060	1	trols 130.1	Repo	rt Genera nce ID: Er Date 7/2	nted: 2023-0 nergyPro-49 26/2023 Area 960	
Energy HV Proje 24X4 Syste AC- <sup>-1</sup> ENG	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 em Name 1 SINEERING CH ber of Systems	Response 110 iired ds - 2022 No EM HE/ 1369) - W	onresident	AND CO	Schema DLING	a Version: rev	2.0.000 / 2022060 <b>S SUI</b>		Required	Repo Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H	26/2023 Area 960 TG. PEAK	
-E for ma Energy Proje 24X4 Syste AC- <sup>-1</sup> ENG Heat	Requ andatory controls Efficiency Standar CAC SYSTI Ct Name 40 (PC 04-12 CT Name 1 BINEERING CH	Response 110 iired ds - 2022 No EM HE/ 1369) - W	onresident	SYSTEM LO	Schema OLING AD	a Version: rev	2.0.000 / 2022060 <b>S SUI</b>	1 <b>VIMAI</b> IL COO Sen:	Required Required	Repor Compliar	rt Genera nce ID: Er Date 7/2 Floor	26/2023 Area 960	
-E for ma Energy Proje 24X4 Syste AC-' ENC Num Heat	Requ andatory controls Efficiency Standar <b>AC SYSTI</b> ct Name 40 (PC 04-12 m Name 1 <b>BINEERING CH</b> ber of Systems ting System Output per System Total Output (Btu	Response 110         iired        ds - 2022 No         EM HE/         1369) - W         HECKS	ATING /all AC 33,00 33,00	SYSTEM LO	Schema DLING AD Total Ro rn Vente	a Version: rev <b>E LOAD</b> bom Loads d Lighting	2.0.000 2022060 S SUI	1 <b>VIMAI</b> IL COO Sen:	Required Required Required LING PEA sible L 28,927 0	Repor Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H	26/2023 Area 960 TG. PEAK Sensible 11,78	158-0723-0
-E for ma Energy Proje 24X4 Syste AC ENG Num Heat	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 em Name 1 GINEERING CH ber of Systems ing System Output per System	Response 110         iired        ds - 2022 No         EM HE/         1369) - W         HECKS	onresident ATING /all AC 33,00	SYSTEM LO	Schema DLING AD Total Ro rn Venter Return	a Version: rev	2.0.000 2022060 S SUI	1 <b>VIMAI</b> IL COO Sen:	LING PEA sible L 28,927	Repor Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H	26/2023 Area 960 TG. PEAK Sensible	158-0723-0
Energy Froje 24X4 Syste AC ENG Num Heat	Requ andatory controls Efficiency Standar AC SYSTI to Name 40 (PC 04-12 m Name 1 SINEERING CH aber of System Output per System Output (Btuh/sqft ling System Output per System	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         iii	onresident ATING /all AC 33,00 33,00 34. 36,00	<b>SYSTEM LO.</b> 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Schema OLING AD Total Ro rn Venter Return R	oom Loads d Lighting Air Ducts Return Fan /entilation	2.0.000 2022060 <b>S SUI</b> <b>CO</b> <b>CFM</b> 2,03	1 <b>VIMAI</b> IL COO	Required         Required	Repor Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H	26/2023 Area 960 TG. PEAK Sensible 11,78 58 20,21	158-0723-0
Energy Energy Proje 24X4 Syste AC- ENG Num Heat	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 m Name 1 BINEERING CH ber of Systems ing System Output per System Total Output (Btuh/sqft ling System	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         inh)         inh)	onresident ATING /all AC 33,00 33,00 34.	<b>SYSTEM LO</b> <b>SYSTEM LO</b> <b>Retu</b>	Schema DLING AD Total Ro rn Venter Return R V S	a Version: rev E LOAD oom Loads d Lighting Air Ducts Return Fan	2.0.000 2022060 <b>S SUI</b> <b>CO</b> <b>CFM</b> 2,03	1 VMAI	LING PEA sible L 28,927 0 1,446 0	Repor Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>-</sup> CFM 230	26/2023 Area 960 TG. PEAK Sensible 11,78	258-0723-0 35 39 0 16 35
Energy Energy Proje 24X4 Syste AC ENG Num Heat Cool	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 cm Name 1 GINEERING CH ber of Systems cing System Output per System Output (Btuh/sqft ling System Output (Btuh/sqft ling System Output per System Output per System Output per System Output per System Output per System Output per System Output (Btuh/sqft ling Output (Btuh Total Output (Tor Total Output (Btu	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         in         ih)         in         ih)         in         ih)         ins)         ih/sqft)	onresident ATING /all AC 33,00 34,00 33,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,00 34,0000 34,0000 34,0000 34,0000000000	<b>SYSTEM LO</b> <b>SYSTEM LO</b> <b>Retu</b>	Schema DLING AD Total Ro rn Venter Return R V S Supply	a Version: rev <b>B LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation supply Fan Air Ducts	2.0.000 2022060 <b>S SUI</b> <b>CO</b> <b>CFM</b> 2,03	1 VMAI 1L COO 54 54	LING PE4 sible L 28,927 0 1,446 0 9,547 1,535 1,446	Repor Complian AK .atent 9,600	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>-</sup> CFM 230	26/2023 Area 960 TG. PEAK Sensible 11,78 58 20,21 -1,53 58	258-0723-0 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 35 39 0 16 35 35 39 0 16 35 35 39 0 16 35 35 39 16 35 35 35 35 35 35 35 35 35 35
Energy Energy Proje 24X4 Systee AC-' ENG Num Heat	Requ andatory controls Efficiency Standar AC SYSTI ct Name 40 (PC 04-12 m Name 1 BINEERING CH ber of System 0utput per System 0utput per System 0utput (Btuh/sqft ling System 0utput per System 0utput per System 0utput per System	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         in         ih)         in         ih)         in         ih)         ins)         ih/sqft)	onresident ATING /all AC 33,00 33,00 33,00 34. 36,00 36,00 36,00 3.	<b>SYSTEM LO</b> <b>SYSTEM LO</b> <b>Retu</b>	Schema DLING AD Total Ro rn Venter Return R V S Supply	a Version: rev bom Loads d Lighting Air Ducts Return Fan /entilation supply Fan	2.0.000 2022060 <b>S SUI</b> <b>CO</b> <b>CFM</b> 2,03	1 VMAI 1L COO 54 54	LING PEA sible L 28,927 0 1,446 0 9,547 1,535	Repor Complian	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>-</sup> CFM 230	26/2023 Area 960 TG. PEAK Sensible 11,78 58 20,21 -1,53	258-0723-0 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 39 0 16 35 35 39 0 16 35 35 39 0 16 35 35 39 0 16 35 35 39 16 35 35 35 35 35 35 35 35 35 35
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Energy Energy Proje 24X4 Syste AC-' ENG Num Heat Cool Co	Requinandatory controls	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         iired         iired         1369) - W         HECKS         iired         iired         1369) - W         HECKS         iired         iired         iired         HECKS         iired         iired         iired         iired         HECKS         iired         iired <t< td=""><td>ATING /all AC /all AC 33,00 33,00 33,00 34. 36,000 36,0000 36,0000 36,0000 36,0000000000</td><td>AND COO SYSTEM LOA SYSTEM LOA Retu Retu A O O HVAC EQUIF Bard W36HB HP Supplement A Total Adjusted (Adjusted for P TIME CAirstream Ter 110 °F</td><td>AD Total Ro rn Venter Return Return R V Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperaturn 12</td><td>a Version: rev <b>B LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation</td><td>2.0.000 2022060 <b>S SUI</b> CO CFM 2,03 36</td><td>1 VIMAI 54 54 55 55</td><td>Required         Required         Sible       L         28,927       0         1,446       0         9,547       1         1,535       1,446         42,901       1         29,467       1         29,467       1</td><td>Repor Compliant AK atent 9,600 -5,338 4,262 4,973</td><td>rt Genera nce ID: Er Date 7/2 Floor COIL H<sup>T</sup> CFM 230 365</td><td>26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 13,77 13,64 27,42 Jan 1 A</td><td>158-0723-0</td></t<>	ATING /all AC /all AC 33,00 33,00 33,00 34. 36,000 36,0000 36,0000 36,0000 36,0000000000	AND COO SYSTEM LOA SYSTEM LOA Retu Retu A O O HVAC EQUIF Bard W36HB HP Supplement A Total Adjusted (Adjusted for P TIME CAirstream Ter 110 °F	AD Total Ro rn Venter Return Return R V Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperaturn 12	a Version: rev <b>B LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation	2.0.000 2022060 <b>S SUI</b> CO CFM 2,03 36	1 VIMAI 54 54 55 55	Required         Sible       L         28,927       0         1,446       0         9,547       1         1,535       1,446         42,901       1         29,467       1         29,467       1	Repor Compliant AK atent 9,600 -5,338 4,262 4,973	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>T</sup> CFM 230 365	26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 13,77 13,64 27,42 Jan 1 A	158-0723-0
Energy Energy Proje 24X4 Syste AC ENG Num Heat Cool C	Requinandatory controls	Response 110         iired         rds - 2022 No         EM HE/         1369) - W         HECKS         m         ih)         is)         ih)         is)         ih/sqft)         t/Ton)         sqft)         ven at ARI c         PSYCHROI         Supply Fan	onresident ATING /all AC /all AC 33,00 34. 36,00 3,00 36,00 3,00 36,00 3,00 36,00 3,00 5,000 5,0000 5,0000 5,000 5,000 5,000 5,000 5,000 5	AND COO SYSTEM LOA SYSTEM LOA Retu Retu A O O HVAC EQUIF Bard W36HB HP Supplement A Total Adjusted (Adjusted for P TIME CAirstream Ter 110 °F	AD Total Ro rn Venter Return Return R V Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperaturn 12	a Version: rev <b>B LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation	2.0.000 2022060 SSUI CO CFM 2,02 36 0f Heatin	1 VIMAI 54 54 55 55	LING     PEA       sible     L       28,927     0       1,446     0       9,547     1,535       1,446     0       29,467     0       29,467     0       29,467     0	H         Repor         Compliat         AK         .atent         9,600         -5,338         4,262         4,973         4,973         Jul 3 PM	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>T</sup> CFM 230 365	26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 13,77 13,64 27,42 Jan 1 A	258-0723-0
Energy Froje 24X4 Syste AC-' ENG Num Heat Cool 0 0 0 0 0 0 0 0 0 0 0 0 0	Requ andatory controls	Response 11         iired         rds - 2022 No         EM HE/         1369) - V         HECKS         iired         iired         HECKS         iired         iired         HECKS         iired         iired         1369) - V         HECKS         iired	ATING /all AC /all AC 33,00 33,00 33,00 34. 36,00 36,00 36,00 36,00 36,00 36,00 33,00 34. 36,00 1,10	AND COO SYSTEM LO SYSTEM LO Retu Retu Retu HVAC EQUIF Bard W36HB HP Supplement TOT Aux. Heat Coil Aux. Heat	AD Total Ro rn Venter Return Return R Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperatur 12 Coil	a Version: rev <b>E LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation iupply Fan / Air Ducts <u>E M LOAD</u> <u>ELECTION</u> <u>ELECTION</u> <u>M Output</u> conditions) <u>FEM PEAK</u> <u>es at Time</u> 23 °F	2.0.000 2022060 SSU CO CFM 2,03 30 0f Heatin	1 <b>VIMAI</b> <b>IL COO</b> 54 54 55 55 55 55 55 55 55 55	Indext 130.1       Required       Sible       L       Required       Sible       L       28,927       0       1,446       0       9,547       1,535       1,446       29,467       29,467       29,467       1       2       1       1       2       1       1       2       1       2       1       2	H         Repor         Compliat         AK         .atent         9,600         -5,338         4,262         4,973         4,973         Jul 3 PM	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>T</sup> CFM 230 365	26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 13,77 13,64 27,42 Jan 1 A	258-0723-0
Energy Energy Proje 24X4 Syste AC- <sup>-1</sup> ENG Num Heat Cool	Requ andatory controls	Response 110         irired         rds - 2022 No         EM HE/         1369) - W         HECKS         m         h)         is)         ih)         is)         ih)         is)         ih/sqft)         t/Ton)         sqft)         ven at ARI c         PSYCHRO         Supply Fan         1,100 cfm         84 / 66	onresident ATING /all AC /all AC 33,00 33,00 33,00 34. 36,00 36,00 36,00 36,00 36,00 36,00 36,00 33,00 34. 36,00 52 °F Heating Heating Supply Far	AND COO SYSTEM LO SYSTEM LO Retu Retu Retu HVAC EQUIF HVAC EQUIF HP Supplement TOT Aux. Heat Cooling Coil	AD Total Ro rn Venter Return Return R Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperatur 12 Coil	a Version: rev <b>E LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation iupply Fan / Air Ducts <u>E M LOAD</u> <u>ELECTION</u> <u>ELECTION</u> <u>M Output</u> conditions) <u>FEM PEAK</u> <u>es at Time</u> 23 °F	2.0.000 2022060 SSU CO CFM 2,03 30 0f Heatin	1 <b>VIMAI</b> <b>IL COO</b> 54 54 55 55 55 55 55 55 55 55	Indext 130.1       Required       Sible       L       Required       Sible       L       28,927       0       1,446       0       9,547       1,535       1,446       29,467       29,467       29,467       1       2       1       1       2       1       1       2       1       2       1       2	H         Repor         Compliat         AK         .atent         9,600         -5,338         4,262         4,973         4,973         Jul 3 PM	rt Genera nce ID: Er Date 7/2 Floor COIL HT CFM 230 365	26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 13,77 13,64 27,42 Jan 1 A	258-0723-0
Energy Froje 24X4 Syste AC-' ENC Num Heat Cool 0 0 0 0 0 0 0 0 0 0 0 0 0	Requ andatory controls	Response 110         irired         rds - 2022 No         EM HE/         1369) - W         HECKS         m         h)         is)         ih)         is)         ih)         is)         ih/sqft)         t/Ton)         sqft)         ven at ARI c         PSYCHRO         Supply Fan         1,100 cfm         84 / 66	ATING ATING /all AC 33,00 33,00 33,00 33,00 34. 36,00 36,00 36,00 36,00 36,00 33,00 34. 36,00 33,00 34. 36,00 37. 320. Heating	AND COO SYSTEM LO SYSTEM LO Retu Retu Retu HVAC EQUIF HVAC EQUIF HP Supplement TOT Aux. Heat Cooling Coil	AD Total Ro rn Venter Return Return R Supply AL SYST MENT S al Coil ed System eak Design OF SYST mperatur 12 Coil	a Version: rev <b>E LOAD</b> bom Loads d Lighting Air Ducts Return Fan /entilation iupply Fan / Air Ducts <u>E M LOAD</u> <u>ELECTION</u> <u>ELECTION</u> <u>M Output</u> conditions) <u>FEM PEAK</u> <u>es at Time</u> 23 °F	2.0.000 2022060 SSU CO CFM 2,03 30 0f Heatin	1 <b>VIMAI</b> <b>IL COO</b> 54 54 55 55 55 55 55 55 55 55	Indext 130.1       Required       Sible       L       Required       Sible       L       28,927       0       1,446       0       9,547       1,535       1,446       29,467       29,467       29,467       1       2       1       1       2       1       1       2       1       2       1       2	H         Repor         Compliat         AK         .atent         9,600         -5,338         4,262         4,973         4,973         Jul 3 PM	rt Genera nce ID: Er Date 7/2 Floor COIL H <sup>T</sup> CFM 230 365	26/2023 Area 960 TG. PEAK Sensible 11,78 20,21 -1,53 58 31,64 27,42 Jan 1 A 27,42 Jan 1 A	258-0723-0

PROJECT SPECIFIC STATE AGENCY APPROVA	L
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS I FLS ACS I	
DATE: 09/28/2023	
DESIGN CONSULTING PROJECT MET DESIGN CONSULTING PROJECT MET LISSO W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM	
PROFESSIONAL STAMP	
PROFESSION PROFESSION D. F. D. F.	
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OF IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT	2
C Class Leasing	
1651 SOUTH JUANITA STREET SAN JACINTO CA. 92581 VOICE (951) 943-1908 FAX (951)943-5768	
ORIGINAL PC STATE AGENCY APPROVAL	
APPROVED DIV OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS PLS ACS CG C DATE: 09/22/2023	
Revision Schedule	
# Description Date	
PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC	
A separate project application for construction is required PROJECT TITLE	ו
PC 2022 CBC: 24' x 40' EXPANDABLE TO	
120' x 40'	
<sup>SHEET TITLE</sup> 24'x40' T24 CZ 14 (WALL AC)	
PROJECT NUMBER 22088	
DRAWN BY rMc/SC	
CHECKED BY RH/RT	
DATE 06/15/2021	-
SHEET NO. <b>M2.10</b>	

0	SHE	ΕT	(

		od							(Pag	ge 9 of 17
3. ENERGY USE INTENSITY (EUI)										
ROSS EUI <sup>1</sup>					[					
ROSS EUI <sup>1</sup>	Standard De	esign (kBtu/ft² / yr)	Proposed Desig		/ yr)	Margin (kBtu		r) N	largin Percent	age
		51.89		3.01		8.88			17.11	
ſ EUI <sup>1</sup>		51.89		3.01		8.88			17.11	
tes: Gross EUI is Energy Use	Total (not includi	ng PV)/Total Building	Area. Net EUI is E	Energy Use T	fotal (includin	g PV)/Total B	uilding A	Area.		
EXCEPTIONAL CONDITIONS										
e project uses the Simplified it Control requirements are condary Daylit Zones is requ e building does not include s oject is claiming Exception 2	met. PRESCRIPTI uired. service water hea	VE COMPLIANCE docu ating. Verify that servio	umentation (form ice water heating	is not requi	2-E) for the re red and is not	equirements o	of sectio the desig	n 140.6(d) Autom gn.		
ENVELOPE GENERAL INFORMA	TION (conditioned	l spaces only)								
01		02			03				04	
Opaque Surfaces & Orienta North-Facing <sup>1</sup>	tion	Total Gross Surface 240	Area (ft <sup>2</sup> )	Тс	otal Fenestratic	on Area (ft <sup>2</sup> )		Window	to Wall Ratio (%	6)
East-Facing <sup>2</sup>		400			0				0	
South-Facing <sup>3</sup>		240			32 0				13.33 0	
West-Facing <sup>4</sup> Total		400 <b>1280</b>			0 64				0 5	
Roof		960			14				1.46	
rth-Facing is oriented to with st-Facing is oriented to within uth-Facing is oriented to with est-Facing is oriented to withi Building Energy Efficiency Sta	45 degrees of tr in 45 degrees of n 45 degrees of t	ue east, including 45 ( true south, including 4 rue west, including 45	00'00" south of ed 45 00'00" west of 5 00'00" north of ance Report	ast (SE), but f south (SW), west (NW), I t Version: 20	excluding 45 , but excluding but excluding	00'00" north g 45 00'00" e	of east ( east of so uth of w	(NE), outh (SE),		
RTIFICATE OF COMPLIANCE -	NONDECIDENT									RCC-PRF-E
residential Performance Co	mpliance Metho	יd							(Page	12 of 17)
NONRESIDENTIAL / COMMON	USE AREA FAN SYS	TEMS SUMMARY								
01 02	03	04 05	06	07	08	09	10	11	12	13
ame or Item Tag Qty	Design OA		ly Fan				eturn / Re	- 1		- Status <sup>1</sup>
AC-1 1		<b>Power</b> ,100 0.5	Power Units BHP Co	Control	Fan Type N/A	CFM N/A	Pow N/A		S Control	N
s: N - New, A - Altered, E - Exis					,				.,	
YSTEM SPECIAL FEATURES										
01		02			03				04	
System Name		Equipment Ty	/pe		Interlocks per	140.4(n) <sup>1</sup>		•	Features and Co	
System Mame		Single Package VHP	Air System		No			Zone(s) With CC F	2 Sensor Vent ixed DB	. Control
AC-1	lated to the perfor	mance path only. For pro	ojects using the pre	escriptive path	n, mandatory a	nd prescriptive	controls	requirements are d	ocumented on t	he
-										
AC-1 : This table includes controls re -MCH-E.		vrovided, NA means no c	operable openings.							
AC-1 s: This table includes controls re -MCH-E. = interlocks are provided, No = .	interlocks are not p									
AC-1 s: This table includes controls re -MCH-E.	interlocks are not p		· · · ·	04		05		06	07	
AC-1 : This table includes controls re MCH-E. = interlocks are provided, No = i IONRESIDENTIAL / COMMON 01 Zone Name	use AREA & HOTE	L/MOTEL VENTILATION 03 Mecha	anical Ventilation		1		Cond	06 itioned Area (sf)	DCV or Occup	ant Senso
AC-1  This table includes controls re MCH-E. interlocks are provided, No =  IONRESIDENTIAL / COMMON 01 Cone Name Venti	interlocks are not p USE AREA & HOTE	L/MOTEL VENTILATION 03 Mecha # of People	anical Ventilation Supply	04 OA CFM 54.8	Exhau	D5 Ist CFM	- Cond			ant Senso or Both

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online There are no Certificates of Verification applicable to this project

Schema Version: rev 20220601

NRCA-ENV-02-F - NRFC label verification for fenestration

NRCA-MCH-05-A - Air Economizer Controls

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.

MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap

Form/Title

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with

NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Building Component

Envelope

Indoor Lighting

Mechanical

Mechanical

Mechanical

CA Building Energy Efficiency Standards - 2022 Nonresidential

Nonres Documen 1. I certif Documer Company Address: City/State Responsi I certify t

1. 2. 3. 4. 5. 6. Responsi Company Address: City/State Phone: Responsi Company Address: City/State Phone:

Report Generated: 2023-07-25 10:57:22

Compliance ID: EnergyPro-4958-0723-0145

CERTIFICATE O	F COMPLIANCE -	NONRESIDE	NTIAL PERFO	RMANCE CO	MPLIANCE N	IETHOD			r	NRCC-PRF-E
Nonresidential	Performance Co	mpliance Me	thod						(Pa	ge 10 of 17)
G4. NONRESIDEN	ITIAL AIR BARRIER									
		01							02	
		Building Stor	ry Name						Air Barrier	
		Com-Flo	or 1						No air barrier	
G5. OPAQUE SUR	FACE ASSEMBLY S	UMMARY								
01	02	03	04	05	0	6	07	08	09	10
Surface Name	Construction	Area (ft <sup>2</sup> )	Framing	Cavity	Continuo	us R-Value	Units	Value	Description of Assembly Layers	Status <sup>1</sup>
Surface Rune	Туре		Туре	R-Value	Interior	Exterior		value		Status
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N
<sup>1</sup> Status: N - New	ı, A - Altered, E -	Existing								

CA building Lifelgy Liftlefity 3	Standards - 2022 Nonresiden	ntial Com	npliance	•	ersion: 2022.0. /ersion: rev 20			•	Generated: 2 e ID: EnergyF		
CERTIFICATE OF COMPLIANCE		RMANC	E COMPLIAN	СЕ МЕТНО	D					NRCC	C-PRF-E
Nonresidential Performance (	Compliance Method									(Page 13	3 of 17)
H11. ZONAL SYSTEM AND TERMIN	NAL UNIT SUMMARY										
01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capa	city (kBtuh)		Airflow (cfm)			Fan		
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	
K1. INDOOR CONDITIONED LIGHT	TING GENERAL INFO										
01	02		03		04			05		06	
			U			nal Cuadita		Additional	(Custom) Allo	wance	
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Insta	lled Lighting P (Watts)	ower	Lighting Cont (Watt			gory Footnote Watts)	s Area	Category Foot (Watts)	tnotes
Classroom, Lecture, or Training Vocational	960		384		0			0		0	
Building Totals:	960		384		0			0		0	

<sup>3</sup>Lighting information for existing spaces modeled is not included in this table

ial Compliance	Report Version: 2022.0.000
	Schema Version: rev 20220601

#### Report Generated: 2023-07-25 10:57:22 Compliance ID: EnergyPro-4958-0723-0145

CERT	TIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE CO	OMPLIANCE METHOD	NRCC-PRF-E
Noni	residential Performance Compliance Method		(Page 16 of 17)
Docum	nentation Author's Declaration Statement		
1. I ce	ertify that this Certificate of Compliance documentation is accura	ate and complete.	
Docur	nentation Author Name: LAL B. SAHGAL	Documentation Author Si	gnature:
Comp	any: LSA CONSULTING ENGINEERS	Signature Date:	
Addre	ess: 83, WINDSWEPT WAY	CEA/HERS Certification Ide	entification (if applicable): M26885
City/S	tate/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746	
Respo	nsible Person's Declaration statement		
I certi	fy the following under penalty of perjury, under the laws of the	State of California:	
1. 2. 3. 4. 5. 6.	I am eligible under Division 3 of the Business and Professions Compliance (responsible designer) The energy features and performance specifications, material Certificate of Compliance conform to the requirements of Titl The building design features or system design features identif compliance documents, worksheets, calculations, plans and s I understand that a registered copy of this Certificate of Comp the enforcement agency for all applicable inspections, and I w I understand that a registered copy of this Certificate of Comp the enforcement agency for all applicable inspections, and I w I understand that a registered copy of this Certificate of Comp occupancy, and I will take the necessary steps to accomplish t	Code to accept responsibility for the buildin is, components, and manufactured devices f e 24, Part 1 and Part 6 of the California Code ied on this Certificate of Compliance are con pecifications submitted to the enforcement bliance shall be made available with the buil vill take the necessary steps to accomplish the bliance is required to be included with the de hese requirements.	For the building design or system design identified on this e of Regulations. Insistent with the information provided on other applicable agency for approval with this building permit application. ding permit(s) issued for the building, and made available to his requirement. ocumentation the builder provides to the building owner at
Respo	nsible Designer Name:	Responsible Designer Sigr	hature:
	any: R & S Tavares Associates		
Addre	ss: 11590 W. Bernardo Court, Suite 100	Date Signed:	
	tate/Zip: San Diego, Ca. 92127	License #:	
City/S	2	Title:	Scope:
City/S Phone			
Phone	onsible Designer Name:	Responsible Designer Sigr	nature:
Phone Respo		Responsible Designer Sigr	nature:
Phone Respo Comp	nsible Designer Name:	Responsible Designer Sign Date Signed:	nature:
Phone Respo Comp Addre	any: R & S Tavares Associates		nature:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601 Report Generated: 2023-07-25 10:57:22 Compliance ID: EnergyPro-4958-0723-0145

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIA	NRCC-PRF-			
Nonresidential Performance Compliance Method		(Page 17 of 17		
Responsible Designer Name: Lal Sahgal		Responsible Designer Signature:		
Company: LSA Consulting Engineers		1		
Address: 83, Windswept Way		Date Signed:		
City/State/Zip: Mission Viejo, Ca. 92692		License #: M26885		
Phone:		Title:		Scope:
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	•	Version: 2022.0.000 a Version: rev 20220601		Report Generated: 2023-07-25 10:57:2 Compliance ID: EnergyPro-4958-0723-014

FENESTRATIO	N ASSEMBLY SUM	MARY (NONRESI	DENTIAL)	03	3	04	05		06	07	08	
nestration embly Name	Fenestration	Type/ Product Ty	pe / Frame 1	Type Certific Meth		Assembly Method	Area (ft <sup>2</sup>		erall actor O	verall SHG	C Overall V	/т
erra Pacific Vindows	\ \	ertical fenestrat Operable windo		NFF	RC	Manufactured	64	0.	35	0.24	0.5	
ola tube		N/A Skylight Fixed window	1	NFI	RC	Manufactured	14	0.	39	0.37	0.65	
	-		-	RC Label Certifica		-	-				-	
nd are used	glass-only, deten in the analysis. A - Altered, E - E>		anufacturei	r, and are shown j	for ease of ve	erification. Site-l	ouilt fenes	stration val	ies are calc	ulated per	Nonresidentio	al App
		5		HEAT PUMPS, VRF,	FCONOMIZER	RS FTC.)						
01	02	03	04	05	06	07	08		09	10	11	
ment Name	Equipment Type	Qty	Total	Sunn Heat	ating		Tota	ı [	oling		Economizer Type (if	s
			Heating Output (kBtu/h	(kBtu/h)	Efficiency Unit	Efficiency	Coolir Outpi (kBtu/	ut L	ciency Init E	Efficiency	present)	
AC-1	Single Package VHP Air System		34.37	13.65	СОР	3.3	34.5	6 E	ER	11	Fixed DB	
ıs: N - New, /	A - Altered, E - E>	isting										
IFICATE OF (	y Efficiency Stan COMPLIANCE - N erformance Con	ONRESIDENTIA	L PERFORN	al Compliance MANCE COMPLIA	Schema V	ersion: 2022.0.00 /ersion: rev 2022 D				•	rated: 2023-0 EnergyPro-495	
		SCHEDULE										
	e (includes all perr		lighting in co	onditioned space, a	and portable l		/ft <sup>2</sup> in off	ices)				
01		02 Complete Lumina		03		04 In:	stalled Wa	tts (Conditio	05 ned)		0	)6
Name or Item	n Tag flu	escription (i.e. 3- prescent troffer, I e dimmable elect ballast)	-32T8,	Watts per lumi	naire	How is Wattage d	etermined	Total Nu	umber of Lur	ninaires	Installe	d Wat
L-1		ballast) 2x4 LED Pane		48		According			8		38	84
				ling Departments w	vill need to che	eck prescriptive fo	ms for Lur	ninaire Schei	dule details.			
	edits Schedule (ind			stalled in condition	ed space for c	compliance credit	per 140.6(	a)2 and Tabl	e 140.6-A)			
01	Primary Fund	02 tion Area (must		03		wer	5	06	0		08 Lighting	
Description		ments of Table	Туре	of Lighting Control		stment l	naire Tag	Watts per Luminaire	Lumin		Controlled (Watts)	Contr (V
-First Floor		, Lecture, or Vocational		N/A	N	I/A		48	8		384	
ng Level Cont	Training ITIONED LIGHTING trols Mandatory Dema	01 01 01 04 01 01 01 01 01 01 01 01 01 01 01 01 01			N		Li		ol Credits (Co	onditioned)	384 Total (Watts)	
IDOOR COND	Training ITIONED LIGHTING trols Mandatory Dema	01 01 01 04 01 01 01 01 01 01 01 01 01 01 01 01 01			N		Li	ghting Contr 02 f Controls 13	ol Credits (Co	onditioned)		
IDOOR COND ng Level Cont RCC-LTI-E for	Training ITIONED LIGHTING trols Mandatory Dema	n, Lecture, or Vocational MANDATORY Lie 01 and Response 110 equired Is	).12(c)	NTROL	Report Ve	L/A L ersion: 2022.0.00 /ersion: rev 2022	Shut-Off	ghting Contr 02 f Controls 13	ol Credits (Co 2 0.1(c) & 160. ired	.5(b)4C		
IDOOR COND ng Level Cont RCC-LTI-E for uilding Energ	Training ITIONED LIGHTING trols Mandatory Dema R mandatory contro	of Lecture, or Vocational	D.12(c)	NTROL	Report Ve Schema V	ersion: 2022.0.00 /ersion: rev 2022	Li <sub>1</sub> Shut-Off 90 0601	ghting Contr 02 f Controls 13 Requ	ol Credits (Co 2 0.1(c) & 160. ired	.5(b)4C	Total (Watts)	
IDOOR COND ng Level Cont RCC-LTI-E for uilding Energ	Training ITIONED LIGHTING trols Mandatory Dema R mandatory contro	a, Lecture, or Vocational MANDATORY Lie 01 and Response 110 equired Is dards - 2022 No	0.12(c) onresidentia	NTROL	Report Ve Schema V	ersion: 2022.0.00 /ersion: rev 2022	Li <sub>1</sub> Shut-Off 90 0601	ghting Contr 02 f Controls 13 Requ	ol Credits (Co 2 0.1(c) & 160. ired	5(b)4C	Total (Watts)	
IDOOR COND ng Level Cont RCC-LTI-E for uilding Energ	Training ITIONED LIGHTING trols Mandatory Dema mandatory contro gy Efficiency Stan VAC SYS oject Name X40 (PC 04- stem Name	a, Lecture, or Vocational MANDATORY Lie 01 and Response 110 equired Is dards - 2022 No	0.12(c) onresidentia	NTROL	Report Ve Schema V	ersion: 2022.0.00 /ersion: rev 2022	Li <sub>1</sub> Shut-Off 90 0601	ghting Contr 02 f Controls 13 Requ	ol Credits (Co 2 0.1(c) & 160. ired	onditioned) .5(b)4C port Gener liance ID: I Date 7	Total (Watts)	
IDOOR COND ng Level Cont RCC-LTI-E for uilding Energ Pro 24, Sys AC EN	Training ITIONED LIGHTING trols Mandatory Dema mandatory contro gy Efficiency Stan VAC SYS oject Name X40 (PC 04- stem Name C-1 NGINEERING	MANDATORY LIG MANDATORY LIG 01 and Response 110 equired Is dards - 2022 No TEM HEA 121369) - W	0.12(c) onresidentia	NTROL	Report Ve Schema V	ersion: 2022.0.00 /ersion: rev 2022	Li <sub>1</sub> Shut-Off 0601 UMM	ghting Contr 07 F Controls 13 Requ	ol Credits (Co 2 0.1(c) & 160. ired Re Comp	onditioned) .5(b)4C port Gener liance ID: I Date 7 Floo	rated: 2023-0 EnergyPro-49 /26/2023 or Area 960	
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	Performance C											
. FENESTRATIC	ON ASSEMBLY S	UMMARY (NONRE	SIDENTIAL)	03	3	04	05	06	(	07	08	
Fenestration sembly Name	Fenestrati	on Type/ Product	Type / Frame Ty	ype Certific Meth	Δ	Assembly Method	Area (ft <sup>2</sup> )	Overall U-factor	Overa	II SHGC	Overall V	T Sta
erra Pacific Windows		Vertical fenesti Operable win		NFF	RC	Manufactured	64	0.35	0.	.24	0.5	
Sola tube		N/A Skylight Fixed windo	w	NFF	RC	Manufactured	14	0.39	0.	.37	0.65	
	stalled fenestr	N/A ation shall have a					es found in T					
es are for the and are used	e glass-only, de d in the analysi	termined by the i s.	-	-		-	-				-	
	. A - Altered, E											
DRY SYSTEM E	EQUIPMENT (FU	RNACES, AIR HANI	DLING UNITS, H	EAT PUMPS, VRF,	ECONOMIZERS	S ETC.)	08	09	10	0	11	12
			Total		ating		Total	Cooling			Economizer	
pment Name	Equipment T	ype Qty	Heating Output	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Cooling Output	Efficience Unit	y Efficie	ency	Type (if present)	Stat
AC-1	Single Pack	-	(kBtu/h) 34.37	13.65	СОР	3.3	(kBtu/h) 34.56	EER	11	1	Fixed DB	
us: N - New,	VHP Air Syst											
TIFICATE OF	COMPLIANCE	tandards - 2022 M - NONRESIDENT	AL PERFORM		Schema Ve	rsion: 2022.0.000 ersion: rev 20220 D					ted: 2023-07 hergyPro-495	
NDOOR COND		ING SCHEDULE										
naire Schedul 01	lle (includes all j	permanent installe 02	d lighting in cor	nditioned space, a 03	nd portable lig	ghting over 0.3 w/ 04	ft <sup>2</sup> in offices)		05		0	6
		Complete Lumi Description (i.e.	3-lamp		I		alled Watts (			L		
Name or Iter	m Tag	fluorescent troffer one dimmable ele ballast)		Watts per lumir	naire H	low is Wattage de	termined	Total Numbe	er of Luminai	ires	Installe	d Watts
L-1	longiting ware w	2x4 LED Par		48	ill pood to show	According		ire Sebedule	8		38	34
	1											
		(includes all lightin		alled in conditione	ed space for co	ompliance credit p	er 140.6(a)2 a	nd Table 140	).6-A)			
01		02 unction Area (mus		03	04 Pow	ver Lumin		06 atts per	07 # of		08 Lighting	09 Control
a Description		uirements of Table -A and 170.2-L)	Туре о	of Lighting Control		(PAF)		minaire	Luminaires	c	ontrolled	(Wat
NDOOR COND	Train DITIONED LIGHT ntrols	om, Lecture, or ing Vocational 'ING MANDATORY 01 emand Response 1 Required		N/A TROL	N/	/A		48 g Control Cre 02 trols 130.1(c) Required		tioned) To	(Watts) 384 otal (Watts)	0
NDOOR COND	Train DITIONED LIGHT ntrols	01 Required				/A	Lightir	g Control Cre 02 trols 130.1(c)	edits (Condit	tioned) To	384	0
NDOOR CONE ding Level Con NRCC-LTI-E for	Train DITIONED LIGHT ntrols Mandatory D r mandatory co	01 Required	10.12(c)	TROL	N/	/A	Lightir Shut-Off Con	g Control Cre 02 trols 130.1(c)	edits (Condit	tioned) To	384	0
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NDOOR COND ding Level Con NRCC-LTI-E for Building Energ	Train Train Trois Mandatory D r mandatory coor rgy Efficiency S IVAC SY roject Name	01 emand Response 1 Required ntrols	10.12(c) Nonresidential	TROL	Report Ver Schema Ve	rsion: 2022.0.000	Lightir Shut-Off Con	02 trols 130.1(c) Required	edits (Condit	4C	384 otal (Watts) ted: 2023-07 nergyPro-495	0
NDOOR COND ling Level Con NRCC-LTI-E for suilding Energy H Pro 24	Train Train Trois Mandatory D r mandatory coor rgy Efficiency S IVAC SY roject Name	01 emand Response 1 Required ntrols	10.12(c) Nonresidential	TROL	Report Ver Schema Ve	rsion: 2022.0.000	Lightir Shut-Off Con	02 trols 130.1(c) Required	edits (Condit	4C	384 otal (Watts) ted: 2023-07 nergyPro-495 26/2023	0
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NDOOR COND ling Level Con NRCC-LTI-E for Building Energy AC El Nu He Nu He	Train DITIONED LIGHT Introls Mandatory D r mandatory con rgy Efficiency S IVAC SY roject Name 4X40 (PC 0 ystem Name C-1 NGINEERIN umber of Syste Output per Total Output Output (Btu Ooling Syste	oom, Lecture, or ing Vocational ING MANDATORY 01 emand Response 1 Required ntrols tandards - 2022 f <b>STEM HE</b> (4-121369) - 1 IG CHECKS stems m System ut (Btuh) uh/sqft) m System ut (Btuh)	10.12(c) Nonresidential	TROL	Report Ver Schema Ver DLING L AD Total Room 'n Vented L Return Ain Retur Ain Retur Ven	rsion: 2022.0.000 ersion: rev 20220 <b>_OADS SI</b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b>_</b> <b></b> <b></b> <b>_</b> <b>_</b> <b>_</b>	Lightir Shut-Off Con 0 0601 UMMAF	02 trois 130.1(c) Required	Report Compliance	tioned) Tr 4C Generation Ce ID: En Date 7/2 Floor COIL HT CFM 167	384 otal (Watts) ted: 2023-07 hergyPro-495 26/2023 Area 960 TG. PEAK Sensible 9,09 455	0 7-25 10:5 58-0723- 55-0723- 7 55-0723- 7 55-0723- 7 55-0723- 7 7 55-0723- 7 7 55-0723- 7 7 55-0723- 7 7 55-0723- 7 7 55-0723- 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
NDOOR COND ling Level Con NRCC-LTI-E for suilding Energy AC EI Nu He Sy AC	Train Train DITIONED LIGHT Introls Mandatory D r mandatory col rgy Efficiency S IVAC SY roject Name 4X40 (PC 0 ystem Name C-1 NGINEERIN umber of Syste Output per Total Output Output per Total Output Total Output	oom, Lecture, or ing Vocational ING MANDATORY 01 emand Response 1 Required ntrols tandards - 2022 f <b>STEM HE</b> (4-121369) - <b>IG CHECKS</b> stems m System ut (Btuh) uh/sqft) m System ut (Btuh) ut (Tons) ut (Btuh/sqft)	10.12(c) Nonresidential ATING Wall AC 1 33,000 33,000 34,4 36,000 36,000 36,000 3.0 37.5	TROL	Report Ver Schema Ver DLING L DLING L DLING L Return Ain Return Ain Return Ain Return Ain Supply Ain	A L-1	Lightir Shut-Off Con 0 0601 UMMAF 0 0 0601 UMMAF 1,653 1,653	02 trois 130.1(c) Required	edits (Condit ) & 160.5(b) Report Complianc	tioned) Tr 4C Generation Ce ID: En Date 7/2 Floor COIL HT CFM 167	384 otal (Watts) ted: 2023-07 hergyPro-495 26/2023 Area 960 FG. PEAK Sensible 9,097 455 (0) 16,924 -1,535 455	0 7-25 10:: 58-0723- 58-0723- 7 55 0 4 55 5 5
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	COMPLIANCE - NOI erformance Compl			NCE COMPLIAN							(Pa	age 11 of
7A. FENESTRATIO		ARY (NONRESID	ENTIAL)									
01		02		03 Cortific		04	05	06		07	08	0
Fenestration Assembly Name	Fenestration Ty			e Certific Meth	Δ	ssembly Method	Area (ft <sup>2</sup> )	Overall U-factor		erall SHGC	Overall V	T Sta
Sierra Pacific Windows		tical fenestrati perable windo N/A		NFF	RC	Manufactured	64	0.35		0.24	0.5	
Sola tube		Skylight Fixed window		NFF	30	Manufactured	14	0.39		0.37	0.65	
	talled fenestration	N/A	ortified NERC						A and Tah			
lues are for the A6 and are used Status: N - New, J	glass-only, determi in the analysis. A - Altered, E - Exist	ned by the ma ting	nufacturer, a	nd are shown f	for ease of ve	rification. Site-bu	-					•
1. DRY SYSTEM EC	QUIPMENT (FURNAC	03	NG UNITS, HEA	05	O6	07	08	09		10	11	12
				Hea	nting			Cooling	ß		Economizer	
quipment Name	Equipment Type	Qty	Total Heating Output	Supp Heat Output	Efficiency Unit	Efficiency	Total Cooling Output	Efficiene	y <sub>Eff</sub>	iciency	Type (if present)	Statu
			(kBtu/h)	(kBtu/h)			(kBtu/h)					
AC-1	Single Package VHP Air System	1	34.37	13.65	СОР	3.3	34.56	EER		11	Fixed DB	N
Building Energ	gy Efficiency Standa	ırds - 2022 Nor	nresidential C	ompliance	•	sion: 2022.0.000 rrsion: rev 20220					ted: 2023-07 hergyPro-495	
	COMPLIANCE - NOI	-	_	NCE COMPLIAI	NCE METHOD	)					(P	NRCC-PI age 14 of
. INDOOR COND		CHEDULE										
	e (includes all perma		ghting in cond	itioned space, a	nd portable lig	ghting over 0.3 w/	ft <sup>2</sup> in offices	)				
01		02		03		04		-	05		0	6
Name or the	Desc	mplete Luminai cription (i.e. 3-la	amp —		1	Inst	alled Watts	Conditioned	)	I		
Name or Iten	-	escent troffer, F dimmable electi ballast)		Watts per lumir	naire H	low is Wattage de	ermined	Total Numb	er of Lumi	naires	Installe	d Watts
L-1		2x4 LED Panel		48		According t	0		8		38	34
lighting power de	ensities were used in t	the compliance i	model Building	Departments w	ill need to cheo	ck prescriptive forn	ns for Lumine	aire Schedule	details.			
hting Control Cr	edits Schedule (inclu	des all lighting o							-			
01	02 Primary Functio	on Area (must		03	04 Pow	ver Lumin		06 /atts per	07 # of		08 Lighting	09 Control (
Area Description	meet requirem 140.6-A and		Type of	Lighting Control	Adjust Factor	ment Item		uminaire	# 01 Luminai	ires C	ontrolled (Watts)	(Watt
S-1-First Floor	Classroom, I Training Vo			N/A	N/	Ά L-1		48	8		384	0
ilding Level Cont	( Mandatory Demand	01 d Response 110. uired		:OL				02 ntrols 130.1(d Required		(b)4C	otal (Watts)	0
e NRCC-LTI-E for Building Energ	trols Mandatory Demand Req mandatory controls gy Efficiency Standa	01 d Response 110. uired	. <b>12(c)</b> nresidential C	Compliance	Schema Ve	rsion: 2022.0.000 ersion: rev 20220	Shut-Off Co	02 ntrols 130.1(d Required	c) & 160.5( Repo	( <b>b)4C</b> ort Genera ance ID: Er	ited: 2023-07	7-25 10:5
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me fic	Ve	ertical fenestra	tion	Me	thod <sup>1</sup>		(ft*)	U-facto	or			
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M EC	UIPMENT (FURNA	CES, AIR HANDL	ING UNITS,	HEAT PUMPS, VRI	F, ECONOMIZ	ERS ETC.)						
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ne	Equipment Type	Qty	Total Heating Output		Efficiend Unit	cy Efficiency	Total Cooling Output		·   FTT/	ciency	Economizer Type (if present)	Stat
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al Pe	OMPLIANCE - NG erformance Com TIONED LIGHTING (includes all perm	pliance Metho SCHEDULE	d				w/ft <sup>2</sup> in offic	es)	05		(P 	NRCC-I
Item	De	Complete Lumina scription (i.e. 3- rescent troffer, l	lamp –				nstalled Wat	ts (Conditione	d)			
	-	e dimmable elec ballast)	tronic	Watts per lum	ninaire	How is Wattage		Total Num	ber of Lumin	naires	Installe	
1 er de	nsities were used ir	2x4 LED Pane		48 ding Departments	will need to c	Accordi	-	inaire Schedul	8 e details.	I	38	54
	TIONED LIGHTING			stalled in condition	ned space for	compliance crod	t per 140 6/-	)2 and Table 1	40.6-41			
	(	iudes all lighting 02 ion Area (must		03		04	05	06	07		08 Lighting	09
tion	meet require 140.6-A a	ments of Table nd 170.2-L)	Туре	of Lighting Contro	ol Adj	ustment Lui	ninaire em Tag L-1	Watts per Luminaire 48	# of Luminair 8	res	Controlled (Watts)	Control (Wat
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PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP. 04-122805 INC:
DATE: 09/28/2023
DESIGN & CONSULTING & PROJECT MGT 11590 W. BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127
PHONE: (858) 444-3344 www.rstavares.com
PROFESSIONAL STAMP
PROFESSIONAL CONFESSIONAL
A CALIFORNIA
05/24/23
THE PLANS, IDEAS & DESIGNS SHOWN ON
THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED
SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR
IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE
EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
CLIENT
1221 Harley Knox Boulevard
Perris, CA 92571
DIV- OF THE STATE ARCHITECT APP: 04-121369 PC
REVIEWED FOR
SS I FLS I ACS I CG I DATE: 09/22/2023
Revision Schedule
# Description Date
PROJECT TITLE
PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'
SHEET TITLE
24'x40' T24 CZ 15
(WALL AC)
PROJECT NUMBER
22088
DRAWN BY rMc/CG
CHECKED BY
CHECKED BY RH/RT
CHECKED BY
CHECKED BY RH/RT DATE
CHECKED BY RH/RT DATE 06/15/2021

UILDING	ENERGY	ANALYSIS	REPORT

PROJECT: 24X40 (PC 04-121369) - Wall AC Climate Zone 16 Blue Canyon, CA

Project Designer: R & S Tavares Associates 11590 W. Bernardo Court, Suite 100 San Diego, Ca. 92127

Report Prepared by: LAL B. SAHGAL LSA CONSULTING ENGINEERS 83, WINDSWEPT WAY MISSION VIEJO, CA 92692 (949) 830-4746

Job Number:

Date: 7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards. This program developed by EnergySoft, LLC – www.energysoft.com.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD Nonresidential Performance Compliance Method

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

B. PROJECT SUMMARY							
Table B shows which building of permit application.	components a	re included in the	e performance calculation. Ij	f ind	licated as not inc	luded, the project must show compliance prescri	ptively if within the
В	uilding Comp	onents Complyin	ıg via Performance			Building Components Complying Pre	scriptively
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water		Performance	The following building components are ONLY eligible for and should be documented on the NRCC form listed if w	
Envelope (see Table G)	MultiFam	Not Included	Heating (See Table I3)	$\boxtimes$	Not Included	permit application (i.e. compliance will not be shown	
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see		Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included	Table J)	Ø	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see		Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included	Table J)	$\boxtimes$	Not Included	Building Components Complying with Man	datory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)		Performance	Electrical power systems, commissioning, solar escalator requirements are mandatory and sho on the NRCC form listed if applicable (i.e. com shown on the NRCC-PRF-E.)	uld be documented pliance will not be
	MultiFam	Not Included		$\boxtimes$	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)		Performance	Commissioning 120.8	NRCC-CXR-E is required
				$\boxtimes$	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

Report Version: 2022.0.000

Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFO	RMANCE COMPLIANCE METHOD		NRCC-PRF-E
Nonresidential Performance Compliance Method			(Page 6 of 17)
C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE	E COMPONENTS (Annual SOURCE Energy Use, kBtu	/ft <sup>2</sup> /yr)	
	COMPLIES <sup>2</sup>		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) <sup>1</sup>
Space Heating	16.26	11.75	4.51
Space Cooling	1.3	1.31	-0.01
Indoor Fans	16.75	8.32	8.43
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	13.04	13.04	0
Indoor Lighting	2.57	1.71	0.86
Flexibility			
EFFICIENCY COMPLIANCE TOTAL	49.92	36.13	13.79 (27.6%)
Photovoltaics			
Batteries			
TOTAL COMPLIANCE	49.92	36.13	13.79 (27.6%)
<sup>1</sup> Notes: This number in parenthesis following the Complian	ce Margin in column 4, represents the Percent	Better than Standard.	

NRCC-PRF-E

(Page 2 of 17)

Report Generated: 2023-07-26 13:02:48

Compliance ID: EnergyPro-4958-0723-0170

Recep
Proces
Other
Proces
TOTAL
<sup>1</sup> Notes

Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

|--|

COMPLIES<sup>3</sup>

Efficiency<sup>1</sup> (kBtu/ft<sup>2</sup> - yr)

307.23

273.51

33.72

Pass

<sup>3</sup> Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Cover Page Table of Contents Form NRCC/LMCC-PRF-E Certificate of Compliance HVAC System Heating and Cooling Loads Summary

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

<sup>1</sup> Efficiency measures include improvements like a better building envelope and more efficient equipment

Nonresidential Performance Compliance Method

<sup>2</sup> Compliance Totals include efficiency, photovoltaics and batteries

C1. COMPLIANCE SUMMARY

Standard Design

Proposed Design

Compliance Margins

1	
2	
З	
20	

NRCC-PRF-E

(Page 3 of 17)

Source Energy Use

Total<sup>2</sup> (kBtu/ft<sup>2</sup> - yr)

49.92

36.13

13.79 Pass

CER	TIFICATE OF COMPLIANCE - NO	NRESID
Nor	nresidential Performance Compl	iance N
Pro	ject Name:	
A. G	eneral Information	
1	Project Name	24X40
2	Run Title	Title 2
3	Project Location	Climat
4	City	Blue C
6	Zip code	99999
8	Climate Zone	16
10	Building Type(s)	• Noni
12	Project Scope	• New
14	Total Conditioned Floor Area in Scope (ft <sup>2</sup> )	960
16	Total Unconditioned Floor Area (ft <sup>2</sup> )	0
18	Nonresidential Conditioned Floor Area	960
20	Residential Conditioned Floor Area	0

Nonresidential Performance Compliance Method			(Page 4 of 1
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COM	MPONENTS (Annual TDV Energy Use, kBtu/ft <sup>2</sup> - yr	)	
	COMPLIES <sup>2</sup>		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Space Heating	51.5	114.86	-63.36
Space Cooling	19.06	18.57	0.49
Indoor Fans	169.42	83.19	86.23
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	36.19	36.19	0
Indoor Lighting	31.06	20.7	10.36
Flexibility			
EFFICIENCY COMPLIANCE TOTAL	307.23	273.51	33.72 (11%)
Photovoltaics			
Batteries			
TOTAL COMPLIANCE	307.23	273.51	33.72 (11%)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

C7. ENERGY USE SUMMARY						
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.1	3	-2.9	16.4		
Space Cooling	0.8	0.7	0.1			
ndoor Fans	5.6	2.8	2.8			
leat Rejection						
Pumps & Misc.						
Domestic Hot Water				13.6	13.6	0
ndoor Lighting	1.2	0.8	0.4			
lexibility						
EFFICIENCY TOTAL	7.7	7.3	0.4	30	13.6	16.4
Photovoltaics						
Batteries						
ENERGY USE SUBTOTAL	7.7	7.3	0.4	30	13.6	16.4
Receptacle	2.5	2.5	0			
Process						
Other Ltg						
Process Motors						
NERGY USE TOTAL	10.2	9.8	0.4	30	13.6	16.4

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220601	Repo Complia

Time Dependent Valuaton (TDV)

Total<sup>2</sup> (kBtu/ft<sup>2</sup> - yr)

307.23

273.51

33.72

Pass

eport Generated: 2023-07-26 13:02:48 pliance ID: EnergyPro-4958-0723-0170

Nonresidential Performance Compliance Method			(Page 5 of 1)
			(rage 5 of 1
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS <sup>1</sup>			
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) <sup>1</sup>
Receptacle	63.66	63.66	
Process			
Other Ltg			
Process Motors			"
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	370.89	337.17	33.72 (9.1%)
Notes: This table is not used for Energy Code Compliance.		•	

Schema Version: rev 20220601 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE C	OMPLIANCE METHOD		NRCC-PRF-E
Nonresidential Performance Compliance Method			(Page 7 of 17)
C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS <sup>1</sup>			
Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) <sup>1</sup>
Receptacle	4.92	4.92	
Process			
Other Ltg			
Process Motors			
TOTAL ( TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	54.84	41.05	13.79 (25.1%)
<sup>1</sup> Notes: This table is not used for Energy Code Compliance.	• •	·	• •
C6. 'ABOVE CODE' QUALIFICATIONS			

This project is pursuing CalGreen Tier 1

☐ This project is pursuing CalGreen Tier 2

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Report Version: 2022.0.000 Schema Version: rev 20220601

PENTIAL PERFORMANCE COMPLIANCE	METHOD				NRCC-PRF-E
Method					(Page 1 of 17)
24	X40 (PC 0	4-121369) - Wall AC	Date Pre	pared:	2023-07-26
(PC 04-121369) - Wall AC					
4 Analysis					
e Zone 16					
anyon	5	Standards Version		Compliance 2022	
	7	Compliance Software	(version)	EnergyPro 9.1	
	9	Building Orientation (	deg)	30	
residential	11	Weather File		BLUE-CANYON_STYP20.epw	
complete scope	13	Number of Dwelling L	Jnits	0	
	15	Total # of hotel/mote	l rooms	0	
	17	Fuel Type		Natural gas	
	19	Total # of Stories (Hab Above Grade)	oitable	1	

#### CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

NRCC-PRF-E

	IDENTIFICATION STAMP VIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
7	REVIEWED FOR
	DATE: 09/28/2023
	<b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>
PROFI	ESSIONAL STAMP
Ŵ	PROFESSION PROFESSION No. 53380 Exp. 03/31/24 PUCTURIN MIE OF CALLFORNIN 05/24/23
THESI R&S T SOLEI PLANS IN PAF THEY EXPRI TAVAI	PLANS, IDEAS & DESIGNS SHOWN ON E DRAWINGS ARE THE PROPERTY O AVARES ASSOCIATES, INC. DEVISED LY FOR THIS CONTRACT. THESE S SHALL NOT BE USED, IN WHOLE O RT, FOR ANY PURPOSE FOR WHICH WERE NOT INTENDED WITHOUT THE ESS WRITTEN CONSENT OF R&S RES ASSOCIATES, INC. ©
	Class Leasing
SAN JA	OUTH JUANITA STREET ACINTO CA. 92581
	(951) 943-1908 FAX (951)943-5768 NAL PC STATE AGENCY APPROVAL
	APPROVED DIV OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
#	Revision Schedule Description Date
PROJE PC	is required ECT TITLE
PROJE PC [	CODE: 2019 CBC arate project application for constructing is required ECT TITLE CO22 CBC: 24' x 40 EXPANDABLE TO
PROJE PC	CODE: 2019 CBC arate project application for constructions required ECT TITLE 2022 CBC: 24' x 40 EXPANDABLE TO 120' x 40' TITLE 24'x40' T24 CZ 16
PROJE PC	CODE: 2019 CBC arate project application for constructions required ECT TITLE 2 2022 CBC: 24' x 40 2 XPANDABLE TO 120' x 40' TTITLE 24'x40' T24 CZ 16 (WALL AC) ECT NUMBER 22088
PROJE PC SHEET	CODE: 2019 CBC arate project application for constructions required ECT TITLE 2022 CBC: 24' x 40 EXPANDABLE TO 120' x 40' TITLE 24'x40' T24 CZ 16 (WALL AC) ECT NUMBER 22088
PROJE PC SHEET	CODE: 2019 CBC arate project application for constructions required ECT TITLE 2 2022 CBC: 24' x 40 EXPANDABLE TO 120' x 40' TITLE 24'x40' T24 CZ 16 (WALL AC) ECT NUMBER 22088 'N BY Author KED BY

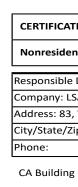
Nonresidential Performance Co												
	mpliance M	ethod									(Pag	ge 9 of 17)
8. ENERGY USE INTENSITY (EUI)												
	Standar	d Design (kBt	tu/ft² / yr)	Proposed De	sign (kBtu/ft <sup>2</sup>	² / yr)	Margin (kBt	tu/ft² / y	/r)	Ma	rgin Percent	age
GROSS EUI <sup>1</sup>		67.5			49		18.	.5			27.41	
IET EUI <sup>1</sup>		67.5			49		18.	.5			27.41	
Notes: Gross EUI is Energy Use	Total (not inc	cluding PV)/To	otal Building	l Area. Net EUI i	s Energy Use	Total (includ	ing PV)/Total I	Building	Area.			
1. EXCEPTIONAL CONDITIONS												
The project uses the Simplified aylit Control requirements are a Secondary Daylit Zones is requ The building does not include s Project is claiming Exception 2	net. PRESCRI ired. ervice water	IPTIVE COMP	LIANCE docu	imentation (for ce water heatir	m NRCC-LTI-C	02-E) for the	requirements ot included in	of section the desi	on 140.6 gn.			
G1. ENVELOPE GENERAL INFORMA	TION (conditio	oned spaces or	nly)									
01			02			03	3				04	
Opaque Surfaces & Orienta	ion	Total C	Gross Surface	Area (ft <sup>2</sup> )	т	otal Fenestra	tion Area (ft <sup>2</sup> )			Window to	o Wall Ratio (%	6)
North-Facing <sup>1</sup>			400			0					0	
East-Facing <sup>2</sup> South-Facing <sup>3</sup>			240 400			3:				1	13.33 0	
West-Facing <sup>4</sup>			240			32	2			1	13.33	
Total Roof			<b>1280</b> 960			<b>6</b> 4					<b>5</b> 1.46	
lotes	[		500			1	T				1.40	
ast-Facing is oriented to within outh-Facing is oriented to with /est-Facing is oriented to withi	45 degrees d in 45 degrees n 45 degrees	of true east, in s of true south of true west,	h, including including 45	45 00'00" west 5 00'00" north c ance Repo	of south (SW)	), but excludi but excludin 022.0.000	ng 45 00'00" e g 45 00'00" sc	east of so outh of w	outh (SE vest (SM	<i>v),</i> ort Generated	d: 2023-07-20 gyPro-4958-0	
North-Facing is oriented to with East-Facing is oriented to within South-Facing is oriented to within West-Facing is oriented to within CA Building Energy Efficiency Sta CERTIFICATE OF COMPLIANCE - Nonresidential Performance Co	45 degrees in 45 degrees andards - 202 NONRESIDE mpliance Me	of true east, ii s of true south of true west, 22 Nonresider NTIAL PERFO ethod	h, including 45 including 45 ntial Complia	45 00'00" west 5 00'00" north c ance Repo Sche	of south (SW), of west (NW), ort Version: 20 ma Version: r	), but excludi but excludin 022.0.000	ng 45 00'00" e g 45 00'00" sc	east of so outh of w	outh (SE vest (SM	<i>v),</i> ort Generated	gyPro-4958-( NR	
Tast-Facing is oriented to within South-Facing is oriented to with West-Facing is oriented to within CA Building Energy Efficiency Sta CERTIFICATE OF COMPLIANCE - Ionresidential Performance Co	45 degrees in 45 degrees andards - 202 NONRESIDE mpliance Me	of true east, ii s of true south of true west, 22 Nonresider NTIAL PERFO ethod	h, including 45 including 45 ntial Complia	45 00'00" west 5 00'00" north c ance Repo Sche	of south (SW), of west (NW), ort Version: 20 ma Version: r	), but excludi but excludin 022.0.000	ng 45 00'00" e g 45 00'00" sc	east of so outh of w	outh (SE vest (SM Repo Complia	<i>v),</i> ort Generated	gyPro-4958-( NR	0723-0170 CC-PRF-E
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A Building Energy Efficiency States A Building	45 degrees of in 45 degrees andards - 202 NONRESIDE mpliance Me JSE AREA FAN 03 Design OA CFM 364.8	of true east, ii s of true south of true west, 22 Nonresider NTIAL PERFO ethod	h, including 45 including 45 ntial Complia RMANCE CC MMARY 05 Supp	45 00'00" west 5 00'00" north c ance Repo Sche DMPLIANCE ME 06 ly Fan Power Units	of south (SW), of west (NW), ort Version: 2( ma Version: r THOD	), but excludi but excludin 022.0.000 rev 2022060: 08	ng 45 00'00" s g 45 00'00" s l 09 R	east of so buth of w	outh (SE vest (SM Repc Complia	V), ort Generated ance ID: Ener 11	gyPro-4958-( NR (Page 12	2723-017( CC-PRF-E 12 of 17) 13
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East-Facing is oriented to within South-Facing is oriented to within CA Building Energy Efficiency Sta CERTIFICATE OF COMPLIANCE - Nonresidential Performance Co 13. NONRESIDENTIAL / COMMON 01 02 Name or Item Tag Qty C AC-1 1 Status: N - New, A - Altered, E - Exis 48. SYSTEM SPECIAL FEATURES 01 System Name AC-1 otes: This table includes controls re RCC-MCH-E. Yes = interlocks are provided, No = i 19. NONRESIDENTIAL / COMMON	45 degrees of in 45 degrees and 45 degrees andards - 202 NONRESIDEI mpliance Me JSE AREA FAN 03 03 03 03 03 03 03 03 03 03 03 04.8 1 1 364.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of true east, in s of true south of true west, 22 Nonresider NTIAL PERFO ethod Systems SUN 04 1,100 Single Pa erformance pat not provided, N HOTEL/MOTEL N	h, including 4 including 45 including 45 mtial Complia RMANCE CC MMARY 05 Supp Power 0.5 02 Equipment Ty ackage VHP th only. For pro- th o	45 00'00" west 5 00'00" north of ance Repo Sche DMPLIANCE ME DMPLIANCE ME DMPLIA	of south (SW), of west (NW), ort Version: 20 ma Version: r THOD 07 Control Constant Vol Constant Vol	), but excludi but excludin 022.0.000 rev 2022060: 08 Fan Type N/A 03 Interlocks pe Nc h, mandatory	ng 45 00'00" s g 45 00'00" s l l 09 R CFM N/A N/A i r 140.4(n) <sup>1</sup>	east of subth of w	outh (SE vest (SM Repc Complia	V), prt Generated ance ID: Ener 11 Power Units N/A her Special Fe (s) With CO2 Fix ments are doc	gyPro-4958-0 NR (Page 12 Control N/A 04 atures and Co Sensor Vent ed DB cumented on the cumented on the commented on the cumented on the cumen	ant Sensor

CERTIFICATE OF COMPLIANCE	- NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance (	Compliance Method (Page 15 of 17)
L. DECLARATION OF REQUIRED C	RTIFICATES OF INSTALLATION
	n Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained ctor during construction and can be found online
Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)
	CERTIFICATES OF ACCEPTANCE n Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided instruction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).
Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to ) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
N. DECLARATION OF REQUIRED C	ERTIFICATES OF VERIFICATION
	n Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained ctor during construction and can be found online

There are no Certificates of Verification applicable to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170



Nonresidential	Performance Co	mpliance Me	ethod						(Pa	ge 10 of 17
	ITIAL AIR BARRIER									
		01							02	
		Building Stor	y Name						Air Barrier	
		Com-Flo	or 1						No air barrier	
G5. OPAQUE SUR	RFACE ASSEMBLY S	UMMARY								
01	02	03	04	05	0	6	07	08	09	10
	Construction	a (5:2)	Framing	Cavity	Continuo	us R-Value	11	Malara		
Surface Name	Туре	Area (ft²)	Туре	R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

	cy Standards - 2022 Nonresider		ipitance		ersion: 2022.0 ersion: rev 20				Generated: 2 e ID: Energyl		
CERTIFICATE OF COMPLIAN	NCE - NONRESIDENTIAL PERFO	RMANC	E COMPLIAN	СЕ МЕТНО	D					NRC	C-PRF-E
Nonresidential Performan	ce Compliance Method									(Page 1	3 of 17)
111. ZONAL SYSTEM AND TER	RMINAL UNIT SUMMARY										
01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capa	city (kBtuh)		Airflow (cfm)	)		Fan	•	
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	
1. INDOOR CONDITIONED LI	GHTING GENERAL INFO										
01	02		03		04			05		06	
								Additional	(Custom) Allo	wance	
Occupancy Type <sup>1</sup>	Conditioned Floor Area <sup>2</sup> (ft <sup>2</sup> )	Insta	lled Lighting P (Watts)	ower	Lighting Con (Wat			gory Footnote Watts)	s Area	Category Foo (Watts)	otnotes
Classroom, Lecture, or Training Vocational	960		384		0			0		0	
Building Totals:	960		384		0			0		0	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2023-07-26 13:02:48 Compliance ID: EnergyPro-4958-0723-0170

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE C	OMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method		(Page 16 of 17)
Documentation Author's Declaration Statement		
1. I certify that this Certificate of Compliance documentation is accur	rate and complete.	
Documentation Author Name: LAL B. SAHGAL	Documentation Author Signat	ture:
Company: LSA CONSULTING ENGINEERS	Signature Date:	
Address: 83, WINDSWEPT WAY	CEA/HERS Certification Identif	fication (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746	
Responsible Person's Declaration statement	· · · · · · · · · · · · · · · · · · ·	
<ol> <li>I certify the following under penalty of perjury, under the laws of the         <ol> <li>The information provided on this Certificate of Compliance is</li> <li>I am eligible under Division 3 of the Business and Professions Compliance (responsible designer)</li> <li>The energy features and performance specifications, materia Certificate of Compliance conform to the requirements of Tit</li> <li>The building design features or system design features identic compliance documents, worksheets, calculations, plans and s</li> <li>I understand that a registered copy of this Certificate of Com the enforcement agency for all applicable inspections, and I w</li> <li>I understand that a registered copy of this Certificate of Com occupancy, and I will take the necessary steps to accomplish</li> </ol> </li> </ol>	s true and correct. s Code to accept responsibility for the building de als, components, and manufactured devices for th cle 24, Part 1 and Part 6 of the California Code of ified on this Certificate of Compliance are consist specifications submitted to the enforcement age pliance shall be made available with the building will take the necessary steps to accomplish this re pliance is required to be included with the docur	he building design or system design identified on this Regulations. tent with the information provided on other applicable ency for approval with this building permit application. g permit(s) issued for the building, and made available to equirement.
Responsible Designer Name:	Responsible Designer Signatur	re:
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:
Responsible Designer Name:	Responsible Designer Signatur	re:
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

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ATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METH	HOD NRCC-PRF-E
ential Performance Compliance Method	(Page 17 of 17)
le Designer Name: Lal Sahgal	Responsible Designer Signature:
LSA Consulting Engineers	
3, Windswept Way	Date Signed:
/Zip: Mission Viejo, Ca. 92692	License #: M26885
	Title: Scope:
	Version: 2022.0.000         Report Generated: 2023-07-26 13:02:48           a Version: rev 20220601         Compliance ID: EnergyPro-4958-0723-0170

						00							NRCC-PRF-
	erformance Com											(F	Page 11 of 17
												•	
G7A. FENESTRATIO	N ASSEMBLY SUM	MARY (NONRESIE	DENTIAL)	03		04	4	05	= 1	06	07	08	09
Fenestration Assembly Name	Fenestration T	ype/ Product Ty	pe / Frame T	Certifica	ation	Assembly		Are	ea Ov	erall	Overall SHG		
Sierra Pacific		ertical fenestrat		Metho				(ft <sup>2</sup>					
Windows	(	Operable windo N/A	w	NFR	C	Manufa	actured	64	4 0	.35	0.24	0.5	N
Sola tube		Skylight Fixed window N/A			C	Manufa	octured	14	4 0	.39	0.37	0.65	N
	-	led fenestration shall have a certified NFF				-		-				-	
NA6 and are used	in the analysis.	ass-only, determined by the manufacture the analysis.			or ease of	verificatio	n. Site-bi	uilt fene	estration val	ues are ca	lculated per	<sup>-</sup> Nonresidenti	al Appendix
<sup>2</sup> Status: N - New,	A - Altered, E - Exi	isting											
H1. DRY SYSTEM EC	QUIPMENT (FURNA	CES, AIR HANDLI	NG UNITS, H	HEAT PUMPS, VRF, E			07	08	:	09	10	11	12
				Hea						oling			
Equipment Name	Equipment Type	Qty	Total Heating	I OUTBUT	Efficienc	cy Effici	ciency	Tota Cooli	ing Effi	ciency	Efficiency	Economizer Type (if present)	Status <sup>1</sup>
			Output (kBtu/h)	(kBtu/h)	Unit		,	Outp (kBtu		Jnit		presenty	
AC-1	Single Package VHP Air System	1	34.37	13.65	СОР	3	3.3	34.5	56	EER	11	Fixed DB	N
<sup>1</sup> Status: N - New, .	A - Altered, E - Exi	isting										·	
		ONRESIDENTIA	L PERFORM	Il Compliance	Schema	Version: 20 Version: r						rated: 2023-0 EnergyPro-49 (F	
K2. INDOOR COND		SCHEDULE											
	e (includes all perm		ighting in co	onditioned space, a	nd portable	e lighting ov		′ft <sup>2</sup> in of	fices)				
01		02 Complete Lumina		03			04 Inst	alled Wa	atts (Conditio	05 oned)		(	06
Name or Iten	n Tag fluo	escription (i.e. 3-l prescent troffer, F e dimmable elect	32T8,	Watts per lumin	aire	How is W	attago do	tormino	d Total N	umber of L	uminaires	Installe	ed Watts
		ballast)		-									
L-1 <sup>1</sup> If lighting power de	ensities were used in	2x4 LED Pane		48 ling Departments wi	ill need to c		cording		ıminaire Sche	8 dule details		3	84
K3. INDOOR COND		CONTROL CREDI	тѕ										
	-		controls inst	talled in conditione	d space for		-						
01	Primary Funct	02 tion Area (must		03		04 Power	05 Lumin		06 Watts per		07 # of	08 Lighting	09 Control Crea
Area Description		ments of Table nd 170.2-L)	Туре	of Lighting Control		ustment tor (PAF)	Item		Luminaire		inaires	Controlled (Watts)	(Watts)
S-1-First Floor		, Lecture, or Vocational		N/A		N/A	L-:	1	48		8	384	0
CA Building Energ	gy Efficiency Stand	dards - 2022 No	nresidentia	al Compliance	•	Version: 20 Version: r						rated: 2023-0 EnergyPro-49	
Гн	VAC SYS			AND COC									7
Pro	oject Name					20/1					Dat		
Sy	X40 (PC 04-1 stem Name	121309) - W										7/26/2023 or Area	_
AC	C-1 NGINEERING	CHECKS		SYSTEM LOA	<u> </u>							960	_
	umber of Syster		1	STOTEMEOA					COOLING F	PEAK	COIL	HTG. PEAK	
He	eating System						CF		Sensible	Latent		Sensible	
	Output per Sys Total Output (E		33,000 33,000	-		om Loads I Lighting	,	1,209	26,482	9,60	00 24	.8 11,78	35
	Output (Btuh/s		34.4			Air Ducts	•	E	1,324			58	9
Co	ooling System		36,000	-		eturn Far entilatior		365	0 3,129	-1,16	36	5 18,29	0
	Output per Sys Total Output (E		36,000			ipply Far		505	1,535			-1,53	
	Total Output (T		3.0	-	Supply	Air Ducts	5		1,324			58	9
	Total Output (E Total Output (s		37.5 320.0				)	_ [	33,795	8,43	33	29,72	4
Air	r System											•	
	CFM per System	m		HVAC EQUIPI Bard W36HB	MENT SE	LECTIO	N		31,415	2,90	1	13,77	7
	Airflow (cfm) Airflow (cfm/sc	ıft)	-	HP Supplementa	l Coil				01,110	2,00		13,64	
	Airflow (cfm/To		366.7 33.2%						31,415	2,90	11	27,42	5
$\vdash$	Outside Air (%) Outside Air (cf		0.38					L	51,413	2,90	<u> </u>		
	te: values above	given at ARI co		TIME C (Airstream Tem		EM PEAK		tine P	02K)	Jul 3 P	И	Jan 1 A	М
									eak)				
o	9 °F 51 °F →→→→→→ Putside Air 365 cfm	Supply Fan	52 °F	Coil Aux. Heat 0		4 °F						123 °F	
e	59 °F	1,100 cfm								F	ROOM	70 °F	
	←≁╵		-			•							
		MDEVOUS	METDIAS	(Airotros -	0005-1		0.04.0	<u>oliz</u>					4
		<u>M PSYCHRO</u>		(Airstream Ten 0/61 °F 48/46		es at Tim	e ot Co	oling P	reak)				-
85	/ 62 °F	19/60		ر با	1		F		1 1	P			
0	utside Air	•	<u> </u>				<b>→</b> [			F.		$\neg$	
:	365 cfm		Supply Fan 1,100 cfm	Cooling Coil								49 / 47 °F	
									45.3	% <b>F</b>	NOON	. <u>}</u>	
	75 / 60 °F					- A					7	74 / 59 °F	
													4

CERTIFICATE OF		- NONRESIDENTIA	LPERFOR			HOD							NRCC-PRF-E
Nonresidential I	Performance (	Compliance Method	ł									(F	Page 11 of 17)
G7A. FENESTRATIO	ON ASSEMBLY S	UMMARY (NONRESI	DENTIAL)	03		0	4	05	1	06	07	08	09
Fenestration Assembly Name	Fenestrat	ion Type/ Product Ty	pe / Frame	Type Certific Meth		Assembly	/ Method	Area (ft <sup>2</sup> )		erall actor	Overall SHG	C Overall \	/T Status <sup>2</sup>
Sierra Pacific	-	Vertical fenestrat											
Windows		Operable windo N/A	w	NFR	RC	Manufa	actured	64	0	.35	0.24	0.5	N
Sola tube		Skylight Fixed window	,	NFR	RC	Manufa	actured	14	0	.39	0.37	0.65	N
<sup>1</sup> Notes: Newly in	stalled fenestr	N/A	ertified NF	RC Label Certificat	e or use t	the CEC def	ault table	s found in	Table 11	0.6-A and	Table 110 6	-B Center of	Glass (COG)
values are for the	e glass-only, de	led fenestration shall have a certified NFR ass-only, determined by the manufacturer, the analysis.											
<sup>2</sup> Status: N - New,													
H1. DRY SYSTEM E	EQUIPMENT (FU	IRNACES, AIR HANDLI	ING UNITS,	HEAT PUMPS, VRF, I	ECONOMI	ZERS ETC.)							
01	02	03	04	05	06 ting		07	08		09	10	11	12
Equipment Name	Equipment T	ype Qty	Total		_			Total				Economizer Type (if	Status <sup>1</sup>
Equipment Name	Equipment	ype Qiy	Heating Output	Gutput	Efficien Unit	·   FTTI	ciency	Cooling Output		ciency Jnit	Efficiency	present)	Status
AC 1	Single Pack	age	(kBtu/h	1)			2.2	(kBtu/h)	<u> </u>		11	Fixed DR	N
AC-1 <sup>1</sup> Status: N - New,	VHP Air Sys	I	34.37	13.65	СОР		3.3	34.56		EER	11	Fixed DB	N
510103.77 7707,		Existing											
CERTIFICATE OF		tandards - 2022 No - NONRESIDENTIA Compliance Method	L PERFORI		Schema	Version: 20 a Version: r HOD						EnergyPro-49	7-26 13:02:48 58-0723-0170 NRCC-PRF-E Page 14 of 17)
K2. INDOOR CON								a.2 · ·	-)				
Luminaire Schedu	ule (includes all	permanent installed l 02	ighting in c	onditioned space, a	nd portab	le lighting ov	ver 0.3 w/1 04	tt <sup>-</sup> in office	s)	05	T	(	06
		Complete Lumina Description (i.e. 3-I				۰ــــــــــــــــــــــــــــــــــــ	-	alled Watts	(Conditio		l		
Name or Ite	em Tag	fluorescent troffer, F	З2Т8,	Watts per lumir	naire	How is W	/attage det	ermined	Total N	umber of Lu	ıminaires	Installe	d Watts
L-1		ballast) 2x4 LED Pane		48			ccording t	•		8		2	84
	densities were us	sed in the compliance			ill need to		-		naire Sche				
K3. INDOOR CONI	DITIONED LIGHT	TING CONTROL CREDI	ITS										
Lighting Control C	Credits Schedule	(includes all lighting	controls in	stalled in conditione	ed space fo	or complianc	e credit pe	er 140.6(a)2	2 and Tab	le 140.6-A)			
01	Primary	02 Function Area (must		03		04 Power	05		06		07	08 Lighting	09
Area Descriptior	n meet rec	quirements of Table 5-A and 170.2-L)	Туре	e of Lighting Control	Ad	ljustment ctor (PAF)	Lumina Item T		Watts per Luminaire		of inaires	Controlled (Watts)	Control Credit (Watts)
S-1-First Floor		oom, Lecture, or		N/A		N/A	L-1		48		8	384	0
	ITall	ing Vocational						Light	ting Contr	ol Credits (	Conditioned)	Total (Watts)	0
-		itandards - 2022 No			Schema	Version: 20 a Version: r	ev 20220	601	RY				7-26 13:02:48 58-0723-0170
	roject Name	)4-121369) - W									Dat	<sub>e</sub> /26/2023	
S	ystem Name	<u>, 121000)</u> W										or Area	-
	C-1			0/07544.04								960	4
	Iumber of Sy	NG CHECKS		SYSTEM LOA	D					DEVK		HTG. PEAK	-
	leating Syste			-			CFI		nsible	Latent	CFM	Sensible	,
	Output per	System	33,000		Fotal Ro	om Loads	<b>s</b> 1	,209	26,482	9,60	0 24	8 11,78	5
	Total Outp		33,000	-		d Lighting	-		1 324			58	90
C	Output (Bt		34.4	-		Air Ducts Return Far			1,324 0			58	0
	Output per		36,000	D		entilatior	-	365	3,129	-1,16	7 36	,	_
	Total Outp		36,000	-		upply Far			1,535			-1,53	
	Total Outp	ut (Tons) ut (Btuh/sqft)	3.0	-	Supply	Air Ducts	5		1,324			58	9
		ut (sqft/Ton)	320.0	ο τοτΑ	AL SYST		)		33,795	8,43	3	29,72	4
A	ir System		4.400										4
$\vdash$	CFM per S			0 HVAC EQUIP	MENT S	ELECTIO	N	<u> </u>	31,415	2,90	1	13,77	7
⊢	Airflow (cfi Airflow (cfi	•	-	5 HP Supplementa	al Coil			_	- ·,-riJ	2,30	-	13,64	_
	Airflow (cfi		366.7										]
	Outside Ai		33.2%	. eta / tajaete					31,415	2,90	1	27,42	5
N	ote: values ab	r (cfm/sqft) oove given at ARI co	onditions	TIME C	OF SYST					Jul 3 Pl	И	Jan 1 Al	м
H	EATING SYS	STEM PSYCHRON	METRICS					ting Peal	()				7
1	3 °F 5	51 °F	52 °F	110 ºF	12	24 °F							
	<b></b>	→ <u>(</u> )	→ੋ	<u> </u>			6			F		_	
C	Outside Air 365 cfm	Supply Fan	Heating	Aux. Heat (	Coil		B			B		<b>↓</b>	
		1,100 cfm	Tiodang									123 ºF	
										F	NOON		
	69 °F			-								70 °F	
	<b>←</b>											]	
			M <b></b>		a				L)				4
		STEM PSYCHRO				res at Tim	e of Coo	oung Pea	к)				-
85	5 / 62 °F	79 / 60 '	¥ ¥	30 / 61 °F 48 / 46	۴					-			
	Outside Air			→ 📑 —			<b>→</b>					Ţ	
C	Outside Air 365 cfm		Supply Far				<b>→</b>				4	9 / 47 °F	
C			Supply Far				<b>→</b>		45.39	% <b>F</b>		9 / 47 °F	
C							<b>→</b>		45.34	% <b>F</b>	ROOM	9 / 47 °F 4 / 59 °F	
C	365 cfm					<b>⊢ </b> +			45.34	% <b>F</b>	ROOM	1	
C	365 cfm					•			45.3	% <b>F</b>	ROOM	1	

TE OF C	COMPLIANCE -	NONRESID	ENTIAL	PERFORMA		NCE METH	IOD								NRC	CC-PRF-E
ential Po	erformance Co	mpliance N	Vethod											(F	Page 1	11 of 17)
STRATIO	N ASSEMBLY SU	MMARY (NO		INTIAL)	03	3	04	4	05	0	6		)7	08		09
ation	Fenestratio	n Type/ Proc	duct Type	e / Frame Ty	Certific	-	Assembly	Method	Area	Ove		Overal	II SHGC	Overall \	л	Status <sup>2</sup>
y Name		Vertical fer			Meth	iod*			(ft <sup>2</sup> )	U-fa	ctor					
Pacific ows		Operable N/	window		NFF	RC	Manufa	actured	64	0.3	35	0.	24	0.5		Ν
		Skyli	ight													
ube		Fixed w N/			NFF	RC	Manufa	actured	14	0.3	39	0.	37	0.65		N
					Label Certificat											
re used	in the analysis	-	the mun	iujacturer, c	and are shown f	or ease of	verijicatio	n. sile-bu	nt jenestri	ation valu	ies are c	uicuiate	u per N	omesidenti	αι Αρ	penuix
- New, /	A - Altered, E -	Existing														
STEM EC	QUIPMENT (FUF	NACES, AIR I	HANDLIN	IG UNITS, HE	AT PUMPS, VRF,	ECONOMIZ	ERS ETC.)									
	02	03	3	04	05 Hea	06 nting		07	08		09 oling	10	)	11	_	12
Nama	Equipment Tu		- -	Total	Supp Heat				Total					Economizer Type (if		<b>ce</b> 1
Name	Equipment Ty	pe Qt	Ly .	Heating Output	Output (kBtu/h)	Efficien Unit	· I FTT10	ciency	Cooling Output		iency nit	Efficie	ency	present)		Status <sup>1</sup>
	Single Packa	70		(kBtu/h)	(				(kBtu/h)						_	
	VHP Air Syste	m		34.37	13.65	СОР	3	3.3	34.56	E	ER	11	_	Fixed DB		N
- New, /	A - Altered, E -	Existing														
ATE OF (	y Efficiency St COMPLIANCE	NONRESID	ENTIAL		Compliance	Schema	Version: 20 Version: r IOD				Co			ed: 2023-0 ergyPro-49 (F	58-07 NR(	
R COND		NG SCHEDUL	LE													
Schedule	e (includes all p	ermanent ins	stalled lig	hting in con	ditioned space, a	and portable	e lighting ov	ver 0.3 w/f	t <sup>2</sup> in office	es)						
01		0	2		03			04			05			(	06	
	-	Complete Description	(i.e. 3-laı	mp —				Insta	illed Watts	(Conditio	ned)					
e or Iten		luorescent tr one dimmab ball	le electro		Watts per lumir	naire	How is W	attage det	ermined	Total Nu	ımber of	Luminai	res	Installe	ed Wa	tts
L-1		2x4 LEC			48		Ac	ccording to	D		8			3	84	
oower de	nsities were use	d in the com	pliance m	nodel Buildin	g Departments w	vill need to c	check prescr	iptive form	s for Lumir	naire Schea	lule deta	ils.	•			
RCOND	ITIONED LIGHTI	NG CONTROI		s												
ontrol Cr	edits Schedule (	ncludes all li	ighting co	ontrols insta	lled in conditione	ed space fo	r complianc	e credit pe	er 140.6(a)	2 and Table	e 140.6-A	۹)				
L		02			03		04	05		06		07		08		09
cription	meet requ	nction Area irements of A and 170.2-	Table	Type of	Lighting Control	Adj	Power justment ttor (PAF)	Lumina Item T		Watts per Luminaire	Lu	# of minaires	Co	ighting ontrolled (Watts)		trol Credit Watts)
		m, Lecture,	-		<b>NI</b> / A	Fac		L-1		48	_	8				
t Floor		g Vocation			N/A		N/A		Light	ting Contro	L Cradity	(Condit	ionod) Tr	384 otal (Watts)		0
									Light		Ji Creuits	s (conuit	ioneu) io			0
evel Cont		01 nand Respon		HTING CONT	ROL				Shut-Off Co		<b>0.1(c) &amp;</b> 1	160.5(b)4	IC			
LTI-E for	Mandatory De mandatory con ty Efficiency St VAC SY	01 nand Respon Required rols	nse 110.1	<b>12(c)</b> residential		Schema	Version: 20 a Version: r	022.0.000 ev 202206	501	ontrols 130 Requi	0.1(c) & 1	Report	Generat	ted: 2023-0 ergyPro-49		
LTI-E for ng Energ Pro 24,	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04	01 mand Respon Required rols andards - 20 STEM	nse 110.1 022 Non HEA	residential	Compliance	Schema	a Version: r	022.0.000 ev 202206	501	ontrols 130 Requi	0.1(c) & 1	Report	Generat e ID: En Date 7/2	ergyPro-49 26/2023		
LTI-E for ng Energ Pro 244 Sys	Mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name	01 mand Respon Required rols andards - 20 STEM	nse 110.1 022 Non HEA	residential	Compliance	Schema	a Version: r	022.0.000 ev 202206	501	ontrols 130 Requi	0.1(c) & 1	Report	Generat e ID: En	ergyPro-49 26/2023 Area		
LTI-E for ng Energ Pro 24. Sys	Mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name	01 mand Respon Required rols andards - 20 STEM	nse 110.1 D22 Non <b>HEA</b> )) - W2	residential TING A all AC	Compliance	Schema	a Version: r	022.0.000 ev 202206	501	ontrols 130 Requi	0.1(c) & 1	Report	Generat e ID: En Date 7/2	ergyPro-49 26/2023		
LTI-E for ng Energ Pro 24. Sys AC EN	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name C-1	01 mand Respon Required rols andards - 20 STEM -121369 G CHECK	nse 110.1 D22 Non <b>HEA</b> )) - W2	residential TING A all AC	Compliance	Schema	a Version: r	022.0.000 ev 202206 DS SU	501	Requi	D.1(c) & 2	Report	Generat e ID: En Date 7/2 Floor	ergyPro-49 26/2023 Area	58-07	
LTI-E for ng Energ Pro 24, Sys AC EN Nu	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name -1 IGINEERIN	01 mand Respon Required rols andards - 20 STEM - 121369 G CHECK	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING A all AC	Compliance	Schema	a Version: r	022.0.000 ev 202206 DS SL	501 JMMA :OIL COO A Se	ARY DLING P nsible	D.1(c) & 2 ired Co EAK Later	Report mplianc	Generat te ID: En 7/2 Floor COIL HT	ergyPro-49 26/2023 Area 960 G. PEAK Sensible	58-07	
LTI-E for ng Energ Pro 24, Sys AC EN Nu	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name C-1 IGINEERIN IMBER of Sys ating Syster Output per S	01 mand Respon Required rols andards - 20 STEM - 121369 G CHECK tems	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING A all AC	Compliance	Schema DLING AD Total Roo	a Version: r	022.0.000 ev 202206 DS SU DS SU		ARY DLING P 26,482	D.1(c) & 2 ired Co EAK Later	Report mplianc	General te ID: En Date 7/2 Floor	ergyPro-49 26/2023 Area 960 <b>TG. PEAK</b>	58-07	
LTI-E for ng Energ Pro 24, Sys AC EN Nu	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 Stem Name C-1 IGINEERIN IGINEERIN Imber of Sys ating Syster Output per s Total Outpu	01 mand Respon Required rols andards - 20 STEM -121369 G CHECK tems tems tystem (Btuh)	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING A all AC	Compliance	Schema DLING AD Total Roo rn Ventec	a Version: r	022.0.000 ev 202206 DS SU DS SU CFN 5 1	501 JMMA :OIL COO A Se	OLING P nsible 26,482 0	D.1(c) & 2 ired Co EAK Later	Report mplianc	Generat te ID: En 7/2 Floor COIL HT	ergyPro-49 26/2023 Area 960 <b>G. PEAK</b> Sensible 11,78	58-07	
LTI-E for ng Energ 244 Sys AC EN Nu He	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name C-1 IGINEERIN IMBER of Sys ating Syster Output per S	01 mand Respon Required rols andards - 20 STEM -121369 G CHECK tems b system (Btuh) n/sqft)	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING A all AC	Compliance	Schema DLING AD Total Roo rn Venteo Return	a Version: r	022.0.000 ev 202206 DS SU DS SU CFN 5 1 3	501 JMMA :OIL COO A Se	ARY DLING P 26,482	D.1(c) & 2 ired Co EAK Later	Report mplianc	Generat te ID: En 7/2 Floor COIL HT	ergyPro-49 26/2023 Area 960 G. PEAK Sensible	58-07	
LTI-E for ng Energ 244 Sys AC EN Nu He	mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name 2-1 IGINEERIN IGINEERIN IMBER of System Output per St Total Output Output (Btu	01 mand Respon Required rols andards - 20 STEM -121369 G CHECK tems bystem (Btuh) b/sqft)	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING A all AC	Compliance	Schema DLING AD Total Roo rn Venteo Return Return	om Loads d Lighting Air Ducts	022.0.000 ev 202206 DS SL DS SL CFN 5 1 5	501 JMMA :OIL COO A Se	DLING P nsible 26,482 0 1,324 0 3,129	D.1(c) & 2 ired Co EAK Later 9,	Report mplianc	Generat te ID: En 7/2 Floor COIL HT	ergyPro-49 26/2023 Area 960 <b>G. PEAK</b> Sensible 11,78	58-07	
LTI-E for ng Energ 244 Sys AC EN Nu He	mandatory De mandatory De mandatory con ty Efficiency St VAC SY vject Name X40 (PC 04 stem Name C-1 IGINEERIN INDER of Sys ating Syster Output per st Total Output oling Syster Output per st Total Output	01 mand Respon Required rols andards - 20 STEM -121369 -121369 G CHECK tems a system (Btuh) a/sqft) a system (Btuh)	nse 110.1 D22 Non <b>HEA</b> )) - W2	12(c) residential TING / all AC 1 33,000 33,000 34.4 36,000 36,000	Compliance	Schema DLING AD Total Roo rn Ventec Return Return Ro V Su	om Loads d Lighting Air Ducts eturn Far entilatior upply Far	022.0.000 ev 202206 DS SU DS SU CFN 5 1 5	501 JMMA COIL COO A Se ,209	DLING P nsible 26,482 0 1,324 0 3,129 1,535	D.1(c) & 2 ired Co EAK Later 9,	Report mplianc C nt C 600	General Te ID: En Date 7/2 Floor COIL H1 248	ergyPro-49 26/2023 Area 960 <b>FG. PEAK</b> <b>Sensible</b> 11,78 58 18,29 -1,53	558-07 555 999 0 966 355	
LTI-E for ng Energ 244 Sys AC EN Nu He	mandatory De mandatory De mandatory con ty Efficiency St VAC SY oject Name X40 (PC 04 stem Name 2-1 IGINEERIN INDER of Sys ating System Output per S Total Output Output per S Total Output Total Output	01 mand Respon Required rols andards - 20 STEM -121369 -121369 G CHECK tems to tystem (Btuh) tystem (Btuh) tystem (Btuh) tystem (Btuh) tystem (Btuh) tystem	nse 110.1	12(c) residential All AC 1 33,000 33,000 34.4 36,000 36,000 3.0	Compliance	Schema DLING AD Total Roo rn Ventec Return Return Ro V Su	om Loads d Lighting Air Ducts eturn Far /entilatior	022.0.000 ev 202206 DS SU DS SU CFN 5 1 5	501 JMMA COIL COO A Se ,209	DLING P nsible 26,482 0 1,324 0 3,129	D.1(c) & 2 ired Co EAK Later 9,	Report mplianc C nt C 600	General Te ID: En Date 7/2 Floor COIL H1 248	ergyPro-49 26/2023 Area 960 <b>TG. PEAK</b> <b>Sensible</b> 11,78 58 18,29	558-07 555 999 0 966 355	
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LTI-E for ng Energ Pro 24, Sys AC EN Nu He Co Air Air 13 O	mandatory De mandatory Con andatory con and	01 mand Respon Required rols andards - 20 STEM -121369 -12166	nse 110.3 022 Non HEA ) - Wa (S (S (S (S (Fan cfm (Fan cfm (S) (S (S) (S) (S) (S) (S) (S)	Iz(c)         residential         TING A         all AC         1         33,000         33,000         33,000         33,000         34.4         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         36,000         37.5         320.0         1,100         1,100         1,100         1,100         1,100         1,100         1,100         4         ETRICS (A         *         *         *         *         *         *         *         *         *         *         *         *         *         *         *	Compliance	Schema DLING AD Total Roc rn Ventec Return Return Return Return Return Return AL SYSTI AL SYST	om Loads d Lighting Air Ducts eturn Far ventilatior upply Far Air Ducts EM LOAD ELECTION n Output conditions) EM PEAK es at Time	0222.0.000 ev 202200 DS SL CFN 5 1 5 0 N 6 of Heat	501 JMMA SOIL COO A Se ,209 365 	Dentrois 133         Requi         ARY         DLING P         nsible         26,482         0         1,324         0         3,129         1,535         1,324         33,795         31,415         31,415         x)	D.1(c) & 3 red Co EAK Later 9, -1, -1, -1, -1, -1, -1, -1, -1, -1, -1	Report         mplianc         Image: Content of the second	General ce ID: En Date 7/2 Floor COIL HT 248 365 365	ergyPro-49 26/2023 Area 960 G. PEAK Sensible 11,78 58 18,29 -1,53 58 29,72 13,77 13,64 27,42 Jan 1 Al 27,42 Jan 1 Al	58-07	

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC:
REVIEWED FOR SS I FLS ACS DATE: 09/28/2023
ESIGN + CONSULTING + PROJECT MGT DESIGN + CONSULTING + PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP
PROFESSION PROFESSION No. \$3380 ± Exp. 03/31/24 PUCTUR MIE OF CALLFORNIN 05/24/23 PROFESSION 10. FROM 10. FROM
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©
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ORIGINAL PC STATE AGENCY APPROVAL
APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS ACS I CG I DATE: 09/22/2023
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE 24'x40' T24 CZ 16 (WALL AC)
PROJECT NUMBER
22088
DRAWN BY Author
CHECKED BY Checker
DATE 06/15/2021
sheet no. M2.14

ENVEL	OPE MANDATORY MEASURES: NONRESIDENTIAL	ENV-MM	STATE OF C		Heating Syste	em
Project Name		Date		ATE OF COMPLIA		
120X40 (I	PC 04-116504) - Wall AC	6/23/2018				npliance for nonresidential occupanci
DESCRI	PTION					opes using the prescriptive path. For a requirements 180.1 for additions ar
Building E	invelope Measures:		Project N	ame: 24X40	(PC 04-121369) - Wal	II AC
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the Calif	ornia Quality	Project A	ddress:		С
ş110.0(u).	Standards for insulating material, Title 20 Chapter 4, Article 3.		A. GENE	RAL INFORM	IATION	
110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke de Sections 2602 and 707 of Title 24, Part 2.	ensity requirements of	01	Projec	t Location (city)	Palmdale
			03		Types Within Projec	t (select all that apply):
110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.		<ul> <li>Classro</li> </ul>	oom		
110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be weatherstripped or otherwise sealed.	caulked, gasketed,		ECT SCOPE	octic water boating	g systems that are within the scope of
110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceedir window area, 0.3 cfm/ft. <sup>2</sup> of door area for residential doors, 0.3 cfm/ft. <sup>2</sup> of door area for nonresider (swinging and sliding), and 1.0 cfm/ft. <sup>2</sup> for nonresidential double doors (swinging).		170.2(d)	and 141.0(a)/	180.1, or 141.0(b)2	N / 180.2 for additions or alterations nented on the NRCC-MCH compliance
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-fac	tor.			roject consists of (cl	heck all that apply):
	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenes	stration or the				lled for the first time)
§110.6(a) :	applicable default SHGC.	addit, of the			(equipment, distrib	ution or controls) or other non-central systems used to
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the buildin weatherstripped (except for unframed glass doors and fire doors).	g, and shall be	<sup>2</sup> Dwellin	g units refers i	to hotel/motel gues	t rooms and units in a multifamily re- units are considered "Central System
	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces shall meet the applicable U-Factor requirements as follows:	aces or ambient air	C. COM	PLIANCE RES	ULTS	
§120.7(a):	TT I					ut into the compliance document is c
	Metal Building- The weighted average U-factor of the roof assembly shall not exceed 0.098.	10.075	Exception	nai Conditions 01	refer to Table D. of	r the table indicated as not complian 02
	Wood Framed and Others- The weighted average U-factor of the roof assembly shall not exceed The opaque portions of walls that separate conditioned spaces from unconditioned spaces or amb		Dor		ter Equipment	Distribution Systems
	applicable U-factor as follows:	bent an shan meet the		Table	F	Table G
				Yes		Yes
	Metal Building- The weighted average U-factor of the wall assembly shall not exceed 0.113.		D. EXCE	PTIONAL COI	NDITIONS	
120.7(b):	Metal Framed- The weighted average U-factor of the wall assembly shall not exceed 0.151. Light Mass Walls- A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-fact Heavy Mass Walls- An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-fa 0.690.		This tabl	e is auto-filled	with uneditable cor	mments because of selections made o
	Wood Framed and Others- The weighted average U-factor of the wall assembly shall not exceed Spandrel Panels and Opaque Curtain Wall- The weighted average U-factor of the spandrel pa curtain wall assembly shall not exceed 0.280.				ency Standards - 2022	2 Nonresidential Compliance
	<b>Demising Walls-</b> . The opaque portions of framed demising walls shall meet the requirements of	Item A or B below:	STATE OF CA		Heating Syster	m
	A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099.			E OF COMPLIA		
	B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.	1	Project Na	me: 24X40 (	PC 04-121369) - Wall	AC
	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned sp shall meet the applicable U-Factor requirements as follows:	aces or ambient air				
§120.7(c):	Raised Mass Floors- Shall have a minimum of 3 inches of lightweight concrete over a metal dec	ck or the weighted	C DOM			
	average U-factor of the floor assembly shall not exceed 0.269. <b>Other Floors-</b> The weighted average U-factor of the floor assembly shall not exceed 0.071.					te for nonresidential occupancies wit
	Other Floors-The weighted average O-factor of the hoor assembly shall hot exceed 0.0/1.					ents 110.3(c), 160.4, 170.2(d).
			Mandato	ry Pipe Insulat	ion All Occupancies	
			13		<ul> <li>Piping that penetrates Insulation s</li> <li>Piping insta Insulation In</li> </ul>	g dwelling units, pipe insulation mus penetrates framing members shall n metal framing shall use grommets, p hall abut securely against all framing lled in interior or exterior walls shall nstallation (QII) as specified in the Re bunded with a minimum of 1 inch of nsulation.
			14		<ul><li> Recirculatin</li><li> The first 8 final</li></ul>	g nonresidential spaces, pipe insulat g system piping, including supply an t of hot and cold outlet piping, includ are externally heated

			ipes that are exte	indity fielded
15		be instal		ted from damage, including the suitable for outdoor service pe leeve.
				TABLE 120.3-A /
Fluid Ten	nperature Ran	ge (°F)	Conductivity Range (Btu-in per hour per ft <sup>2</sup> per °F)	Insulation Mean Rating Temp °F)
	105-140		0.22 - 0.28	100

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA Domestic Water Heating System CERTIFICATE OF COMPLIANCE Project Name: 24X40 (PC 04-121369) - Wall AC

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any Additional Remarks. These documents must be provided to the building inspector d

NRCI-PLB-E - Must be submitted for all buildings J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION There are no forms required for this project.

					C	ALIFORNIA ENERGY		STATE OF CAL	IFORNIA I <b>c Water H</b>	leatin	p
							NRCC-PLB-E		E OF COMPLIAN		2
e path. For l	high-rise					ments in 141.0 for rated with requirer	additions and	Project Nar		PC 04-121	3
	u 100.2	Report Page	:				(Page 1 of 6)				
Cl	imate Zo	ne 14 Date Prepar					9/7/2023				
								E. ADDIT	ONAL REMA	RKS	
								This table	includes remai	rks made	2
mdale		02	Clima	ate Zone		14					_
									TIC HOT WA		
								be demon	is used to dem strated and wi	th 141.0	/
								Equipmen	t Schedule: W	ater Hea	ti
	. Solar v	vater heating sys				scriptive paths out ince document. Cor		System	03 A O Smith D	)EL-10	-
			02			03		Name			
		Syst	em Type <sup>1,2</sup>		Sy	stem Components		07	08		
	Indiv	idual System (se	rving nonreside	ential spaces)	Equipment	Distribution	Controls	Nama an			-
					Equipment	Distribution	Controls	Name or Item Tag	Equipment	Туре	
ultifamily res	sidential			red individual s	systems.			A O Smith	Consumer I		
ntral System	ns" for m	ultifamily occup	ancies					DEL-10	Electric Sto	-	_
								average.	E: In systems	>= 11VIIVIL	31
cument is co ot compliant			ting requiremer	nts. If this table	says "DOES NOT (	COMPLY" or "COMP	PLIES with	Water Hea	iting Equipme	nt All Oc	с
-		03			(	)4			Yes		
iystems		Contr	ols		Complian	ce Results		18			
ì		Table	H		compilar			19			
		Yes	;		CON	IPLIES		20			
								21			
tions made a	or data e	entered in tables	throughout the	form.							
				, -							
	Ge	nerated Date/Time	2:		C	Oocumentation Softw	are: EnergyPro				
<u>.</u>	Re	port Version: 2022	.0.000		Complia	ance ID: EnergyPro-4	958-0923-0242	CA Ruildin	g Energy Efficier	y Stand	- r
		nema Version: rev 2				ort Generated: 2023-		CA Buildin	g Lifergy Lificier	icy statiu	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
								STATE OF CALL			
					CAI	IFORNIA ENERGY (	NRCC-PLB-E		ic Water H		3
		Report Page:					(Page 3 of 6)	CERTIFICATE Project Nam	OF COMPLIAN	CE C 04-1213	
		Date Prepare	d:				9/7/2023	Floject Nall	24740 (F	C 04-1213	
											-
								H. DOMES	STIC HOT WA	TER COM	N,
pancies with	h distribi	ution requiremen	ts in 120.3 and	140.5. For mul	tifamily and hotel,	/motel occupancies	5,		s used to demo		
2(d).		-						aemonstra	ted with requii	rements i	in 
									Yes	No	C
bers shall no	ot be rec	uired to have pip	, pe insulation fo	r the distance o		except: etration. Piping that ade with the metal		01	×		]
t all framing	membe	rs	-			for compliance wi	-	02			]
ed in the Re	ference	Residential Appe	ndix RA3.5.			lation, shall not be	,	03			]
pipe insulati	on for th	ne following appl	ications is spec	ified to comply	with Table 120.3-	A (see below) per 1	120.3:	04			]

CERTIFICATE	OF COMPLIAN	CE				NRCC-PLB-	
Project Name	e: 24X40 (P	C 04-121369) - V	Vall AC		Report Page:	(Page 4 of 6	
					Date Prepared:	9/7/202	
H. DOMEST	TIC HOT WA	TER CONTRO	LS				
		onstrate compli rements in 160.			pancies. For multifamily residential and hotel/motel occupa	incies, compliance is also	
	Yes	No	Not Applicable		Requirement		
01					Construction documents require manufacturer certification that service water-heating systems are equipped with automatic emperature controls capable of adjusting temperature settings per 110.3(a).		
02				Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.			
03				Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per <u>§110.3(c)2</u> unless systems serves healthcare facility.			
04				For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 fo additions.			
05				or recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).			
06				<ul> <li>Boilers with input capacity &gt;= pressure</li> </ul>	<ul> <li>mbustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows:</li> <li>Boilers with input capacity &gt;= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static</li> </ul>		
07				The fan motor shall be driver	<ul> <li>Ier combustion air fans with motor &gt;= 10 hp shall meet one of the following</li> <li>The fan motor shall be driven by a variable speed drive OR</li> <li>The fan motor shall include controls that limit the fan motor demand to &lt;=30% of the total design wattage at 50% of t</li> </ul>		
08				maintain excess (stack-gas) oxygen o	capacity {d:gte/] 5MMBtu/h and a steady state full-load co oncentrations <= 5% by volume on a dry basis over firing ra ect to firing rate or flue gas oxygen concentration. Use of a	tes of 20-100%. Combustion air	

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Schema Version: rev 20220101

control linkage or jack shaft is prohibited.

Report Page: Date Prepared:

Gas Service

1MMBtu/h<sup>1</sup>

Minimum

Efficiency

Required

0.93

Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3

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Report Version: 2022.0.000 Schema Version: rev 20220101

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School buildings < 25,000 ft<sup>2</sup> and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

12

Water Heating Capacity-weighted

System >= Average Efficiency %

13

Efficiency Unit

UEF

Requirement

Designed Standby Loss

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also

11

Rated

Efficiency

0.95

ied in the Reference Residential Appendix RA3.5. of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to							
pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: In g supply and return piping of the water heater Supply and return biping between storage tank and heat trap, for a nonrecirculating storage system							
e, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall oor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and							
E 120.3-A / 160.4-A PIPE INSULATION THICKNESS							
			Nominal Pipe Diameter (in)				
n Rating Temp (	1.5 to < 4 Multifamily &						

iting Temp (	< 1 1 to < 1.5		1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel				
	Minimum Insulation Required							
	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16				

Generated Date/Time:	Documentation Software: EnergyPro	
Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4958-0923-0242 Report Generated: 2023-09-07 12:06:05	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

	NRCC-PLB-E
Report Page:	(Page 5 of 6)
Date Prepared:	9/7/2023

selection have been changed by permit applicant, an explanation should be included in Table E.
luring construction and can be found online
Form/Title

STATE OF CALIFORNIA Domestic Water Heating System						
CERTIFICATE OF COMPLIANCE						
Project Name:	24X40 (PC 04-121369) - Wall AC		Report Page:			
Project Address:		Climate Zone 14	Date Prepared:			

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.						
Company: LSA CONSULTING ENGINEERS	Signature Date:					
Address: 83, WINDSWEPT WAY	CEA/ HERS Certification Identification (if applicable): M26885					
City/State/Zip: MISSION VIEJO CA 92692	Phone: (949) 830-4746					
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:						
1. The information provided on this Certificate of Compliance is true and correct.						
<ol> <li>The energy features and performance specifications, materials, components, and r of Title 24, Part 1 and Part 6 of the California Code of Regulations.</li> </ol>	The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements					
	The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.					
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be	e made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable					

<ul> <li>Ine building design features or system design features identified on this Certificate or Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculation: plans and specifications submitted to the enforcement agency for approval with this building permit application.</li> <li>I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicat inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.</li> </ul>							
Responsible Designer Name: Lal Sahgal	Responsible Designer Signature: Lal Sahgal						
Company: LSA Consulting Engineers	Date Signed: 2023-09-07						
Address: 83, Windswept Way	License: M26885						
City/State/Zip: Mission Vieio Ca. 92692	Phone:						

Generated Date/Time:	Documentation Software: EnergyPro		Generated Date/Time:	Documentation Software: EnergyPro 4)	
Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4958-0923-0242 Report Generated: 2023-09-07 12:06:05	CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4958-0923-0242 Report Generated: 2023-09-07 12:06:05	accordance with TAB
				5)	Service water heating

 $^{1}$ FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted

Documentation Software: Ene

STATE OF CALIFORNIA Domestic Water Heating System CERTIFICATE OF COMPLIANCE

Project Name: 24X40 (PC 04-121369) - Wall AC

F. DOMESTIC HOT WATER EQUIPMENT

Water Heating Equipment All Occupancies

Domestic Water Heating System

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Exception to 140.5(c)/

170.2(d)3

No Not Applicable

04

Volume (gal) Rated Input Max GPM/ First Capacity Hour Rating (Btu/h) (FHR)

10 5,120 FHR >=75

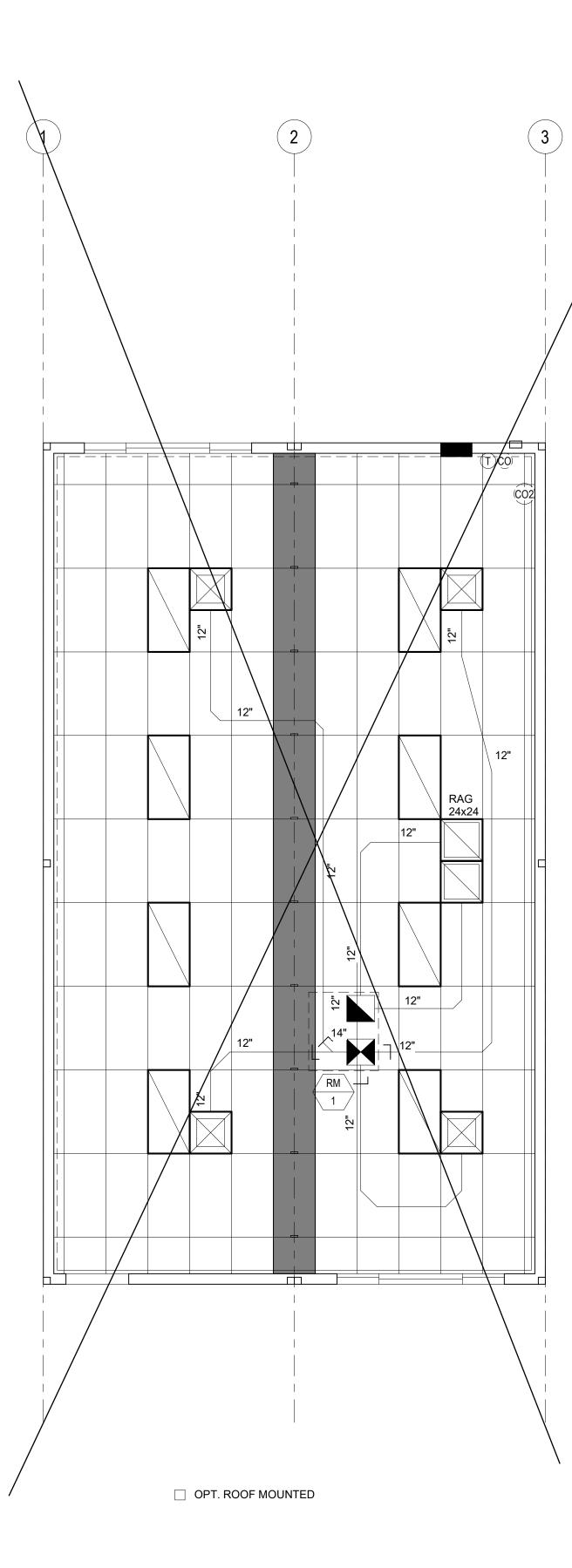
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be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

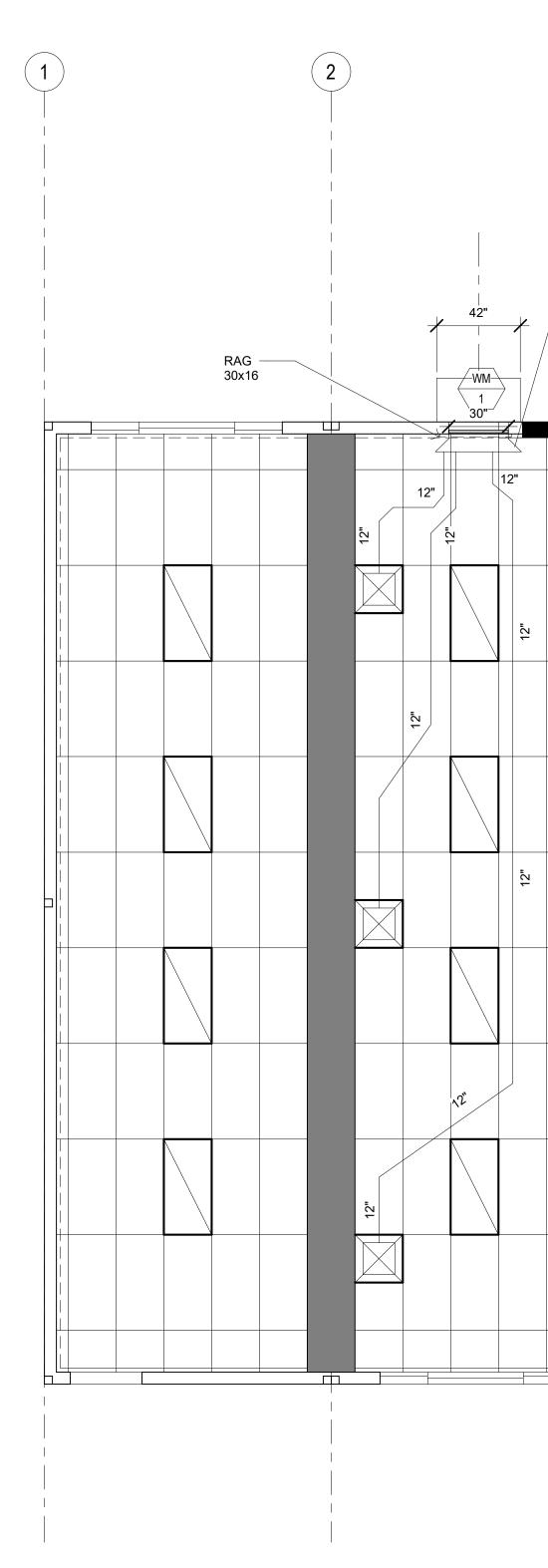
Equipment Schedule: Water Heating Efficiency and Standby Loss

08 09

		PROJECT SPECIFIC STATE AGENCY APPROVA
CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 2 of 6)	Mandatory Measures: The following notes (items) represent the Mandatory Measures for all buildings.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
9/7/2023	Heat pumps with supplementary electric resistance heaters shall have controls:	APP. 04-122805 INC: REVIEWED FOR
	<ol> <li>That prevent supplementary heater operation when the heating load can be met by the heat pump alone; and</li> </ol>	SS I FLS ACS DATE: 09/28/2023
nts in 140.5(c) / 170.2(d) must also	2) In which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.	
15	Sec. 110.2 (b)	TAVARES
ndby Loss Maximum Standby Loss	The minimum rate of outdoor air required per Section 120.1 (b) 2 shall be supplied to each space at all time the space is usually occupied. Sec. 120.1 (c) 3	DESIGN & CONSULTING & PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127
an input capacity-weighted	The Lesser of the minimum rate of outdoor air required by Sec. 120.1 (b) 2, or three complete air changes shall be supplied to the entire building during the one-hour period immediately before the building is normally occupied.	WWW.RSTAVARES.COM
abel required per 110.3(c)3 vered energy per 110.3(c)5	Sec. 120.1 (c) 2	
peen specified per 110.3(c)6 n per 140.5(a)1. Water heating ter.	Hotel/Motel Guest Room Thermostats shall have numeric temperature set points in degrees F; and set point stops accessible only to authorized personnel, to restrict over-heating and over-cooling.	PROFESSION A
	Sec. 120.2 (c)	SS 1 (100 × 100 ×
Documentation Software: EnergyPro mpliance ID: EnergyPro-4958-0923-0242 Report Generated: 2023-09-07 12:06:05 CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 4 of 6)	All air distribution system ducts and plenums, including, but not limited to, building cavities, mechanical closets, air-handler boxes and support platforms used as ducts or plenums, shall be installed, sealed and insulated to meet the requirements of chapter 6 of the 2001 CMC. Supply-air and return-air ducts conveying heated or cooled air shall be insulated to a minimum installed level of R-8, unless ducts are in conditioned space. Sec. 120.4 (a)	THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF
9/7/2023	The thermostatic controls for HVAC systems shall meet the following requirements as	R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OF
ancies, compliance is also	<ul><li>applicable:</li><li>a) Each space conditioning zone shall be controlled by an individual thermostatic</li></ul>	IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S
s are equipped with automatic )1 unless covered by California	control that responds to temperature within the zone and meets the applicable requirements of Subsection (b).	TAVARES ASSOCIATES, INC. ©
ning off the system per	b) Each Thermostatic control required by Subsection (a) shall be capable of being set locally or remotely by adjustment or selection of sensors to control:	C Class
ntrols per 170.2(d) or 180.1(b)3 for trols as specified in Reference	1) Comfort heating down to 55°F or lower.	C Class Leasing
ial boilers as follows: with a nonpositive vent static	2) Comfort Cooling up to 85°F or higher.	1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
y per stack of 2.5 MMBtu/h. otal design wattage at 50% of the	3) Both heating and cooling, the thermostatic controls shall be capable of providing a temperature range or dead band of at least 5°F within which the supply of heating and cooling energy to the zone is shut off or reduced	ORIGINAL PC STATE AGENCY APPROVAL
combustion efficiency < 90% shall rates of 20-100%. Combustion air a common gas and combustion air	to a minimum. Sec. 120.2 (a) & (b)	
1)	Outdoor air supply and exhaust equipment shall be installed with dampers that automatically close upon fan shutdown.	APPROVED DIV OF THE STATE ARCHITECT APP: 04-121369 PC
	Sec. 120.2 (f)	REVIEWED FOR SS I FLS I ACS I CG I
Documentation Software: EnergyPro pliance ID: EnergyPro-4958-0923-0242	Demand Control Ventilation Devices (CO2 sensors) shall be installed in accordance with Sec. 120.1 (c) 4. Sec. 120.1 (c) 4	DATE: 09/22/2023
eport Generated: 2023-09-07 12:06:05 3)		Revision Schedule
CALIFORNIA ENERGY COMMISSION NRCC-PLB-E (Page 6 of 6) 9/7/2023	1) Are capable of automatically shutting off the system during periods of non-use and shall have:	# Description Date
5,172025	a) An automatic time switch control device complying with Sec. 119(c), with	
2	<ul> <li>an accessible manual override that allows operation of the system for up to</li> <li>4 hours; or</li> <li>b) An occupancy sensor; or</li> </ul>	
	<ul> <li>c) A four-hour timer that can be manually operated.</li> <li>d) EXCEPTION: Mechanical systems serving retail stores and associated</li> </ul>	
	malls, restaurants, grocery stores, churches, and theaters equipped with 7- day programmable timers.	PRE-CHECK (PC) DOCUMENT
e (responsible designer) of Compliance conform to the requirements	<ul> <li>Automatically restart and temporarily operate the system as required to maintain:</li> <li>a) A setback heating thermostat set point, if the system provides mechanical</li> </ul>	Code: 2022 CBC A separate project application for construction is required
ce documents, worksheets, calculations, the enforcement agency for all applicable ng owner at occupancy.	heating; and EXCEPTION: Area with the design winter outdoor temperature of greater than 32°F.	PROJECT TITLE PC 2022 CBC: 24' x 40'
	<ul> <li>b) A setup cooling thermostat set point, if the system provides mechanical cooling.</li> </ul>	EXPANDABLE TO
	EXCEPTION: Area with the design summer outdoor temperature of less	120' x 40'
	than 100°F. EXCEPTION: Systems serving hotel/motel guest rooms, if they have a readily accessible manual shut-off switch.	
	Sec. 120.2 (e)	
Documentation Software: EnergyPro 4) pliance ID: EnergyPro-4958-0923-0242 eport Generated: 2023-09-07 12:06:05	The piping for all space conditioning and service water heating systems shall be insulated in accordance with TABLE 123-A. Sec. 120.3	ENVELOPE AND NOTES
	500. 120.5	
5)	Service water heating systems and equipment shall meet the applicable requirements of the Appliance Efficiency Regulations as required by Sec. 110.1. Sec. 110.3 (b)	
6)	Service hot water systems with circulating pumps or with electrical heat trace systems shall be	PROJECT NUMBER
	capable of automatically turning off the system. Sec. 110.3 (c) 2	22088 DRAWN BY
7)	Lavatories in public restrooms shall have controls that limit the water supply temperature to 110°F.	rMc/CG
	Sec. 110.3 (c) 3	RH/RT
		SHEET NO.
		M3.3
		SHEET OF

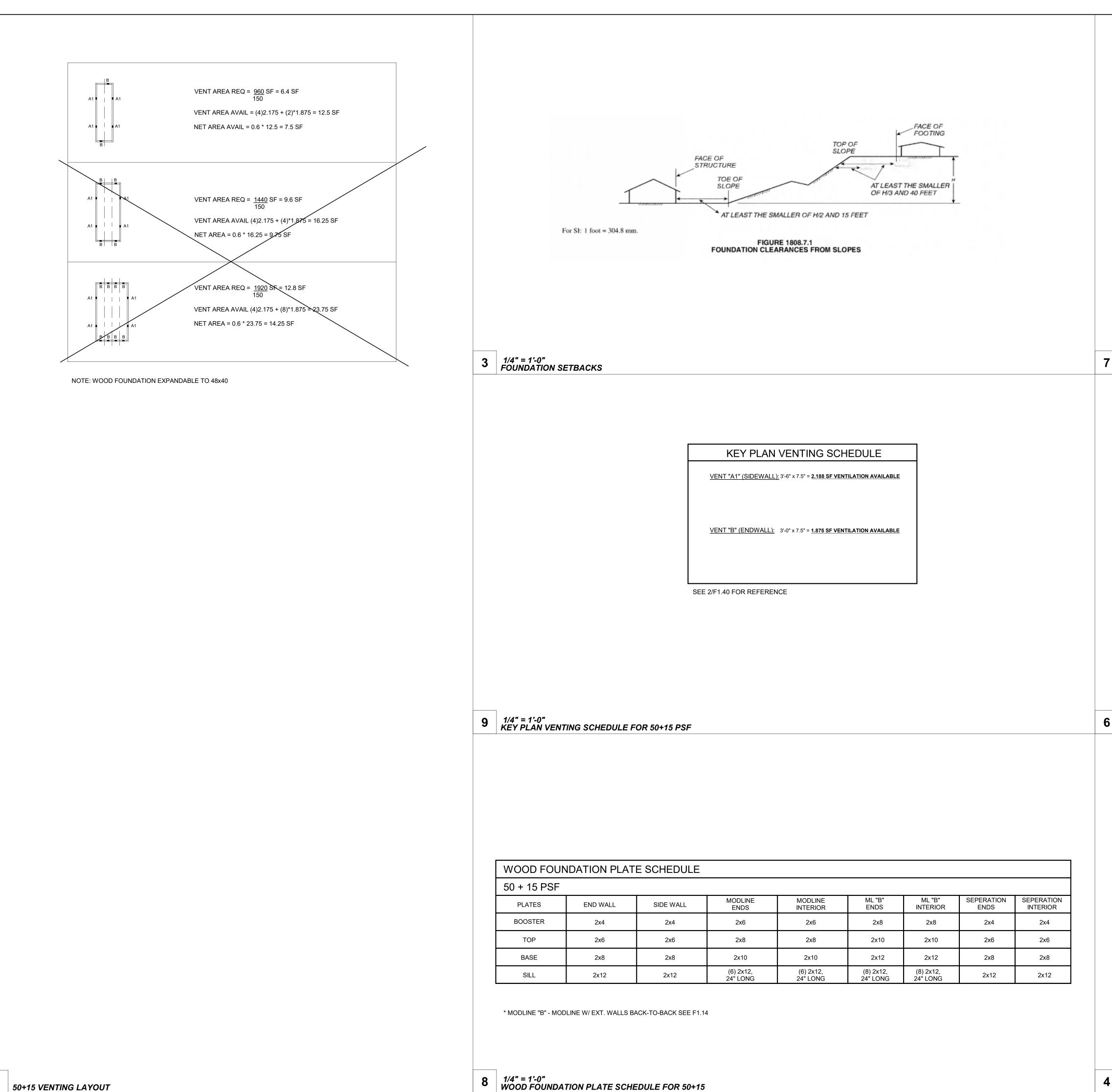


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OPT. WALL MOUNTED

	PROJECT SPECIFIC STATE AGENCY APPROVAL
3	DESIGN + CONSULTING + PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
	PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP PROFESSIONAL STAMP BROFESSIONAL STAMP PROFESSIONAL STAMP BROFESSIONAL STAMP BROFES
	THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT
	1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 FAIFax (951) 943-5768
	ORIGINAL PC STATE AGENCY APPROVAL
	# Description Date
	PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
	SHEET TITLE MECHANICAL CEILING PLAN 24x40
	PROJECT NUMBER 22088
	DRAWN BY rMc/SC CHECKED BY RH/RT DATE
	SHEET NO. M5.1 SHEET OF



+ 15 PSF								
PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPERATION ENDS	SEPERATION INTERIOR
DOSTER	2x4	2x4	2x6	2x6	2x8	2x8	2x4	2x4
ТОР	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x12	2x12	(6) 2x12, 24" LONG	(6) 2x12, 24" LONG	(8) 2x12, 24" LONG	(8) 2x12, 24" LONG	2x12	2x12

- WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 1. AND UNDER. SF
- SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE 2. PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY THIS REQUIREMENT.
- VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF 3. EQUAL SIZE AT RAMP SKIRTING.
- TO PREVENT SLIDING; A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) 4. SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMIUM OF 2'-0" FROM CORNERS
- STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ 5. CORROSION RESISTANT NAILS.
- WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING 6. PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
- REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE. 7.

## 7 1/4" = 1'-0" NOTES FOR 50+15

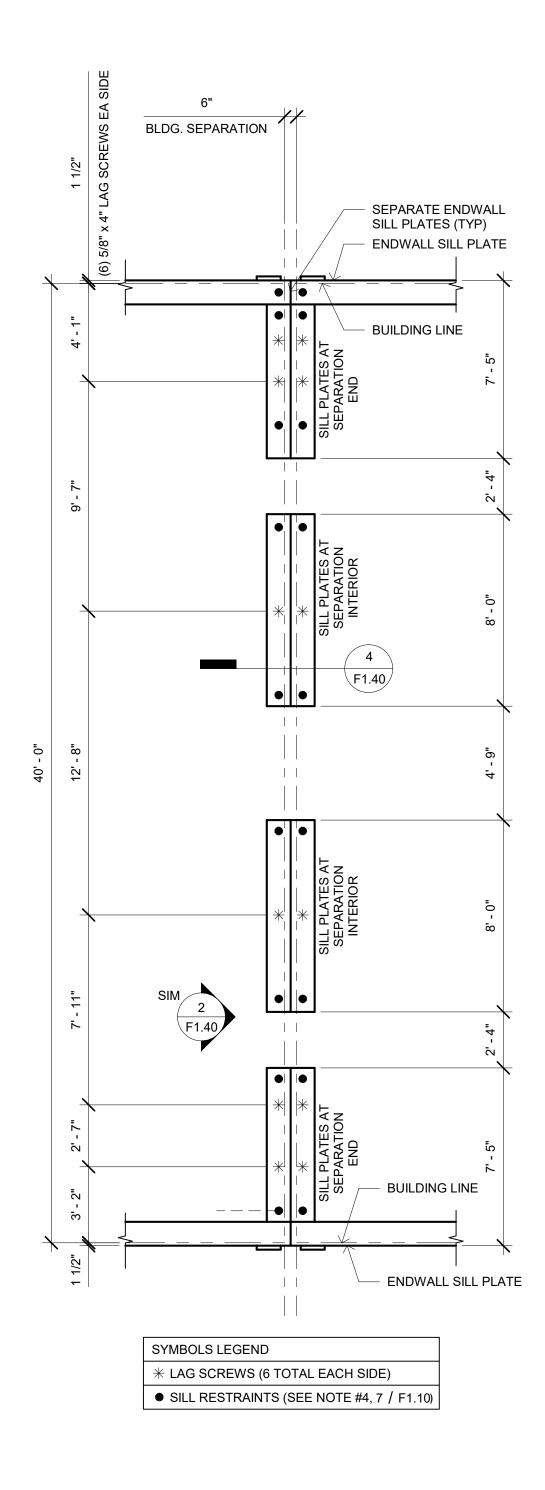
(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10					
	ENDWALL	SIDEWALL	SEPERATION		
24x40	7" O.C	12" O.C	12" O.C		
<u>36x40</u>	7" O.C	12" O.C	12" O.C		
48x40	7" O.C	12" O.C	12" O.C		

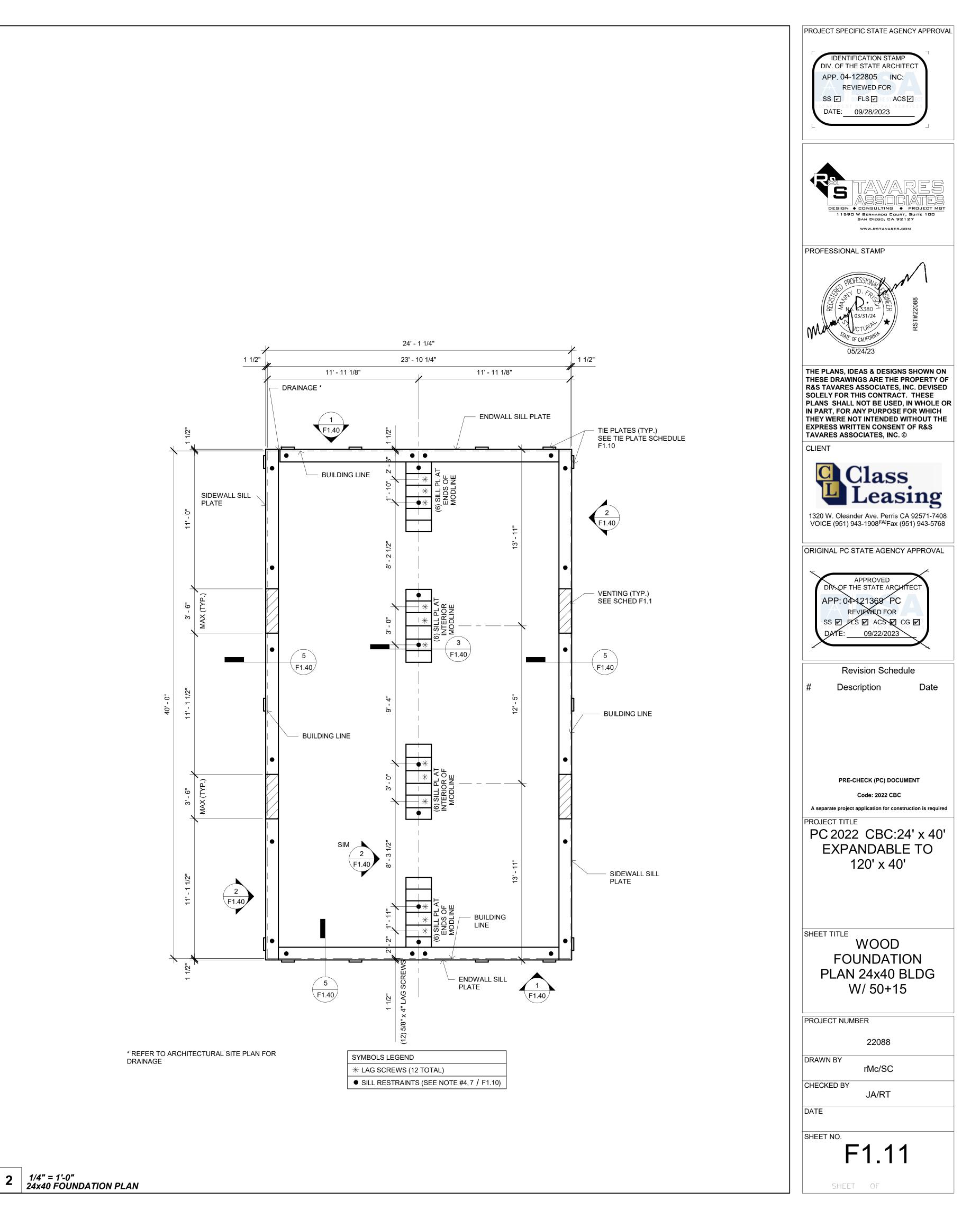
## 6 1/4" = 1'-0" NAILING SCHEDULE FOR 50+15

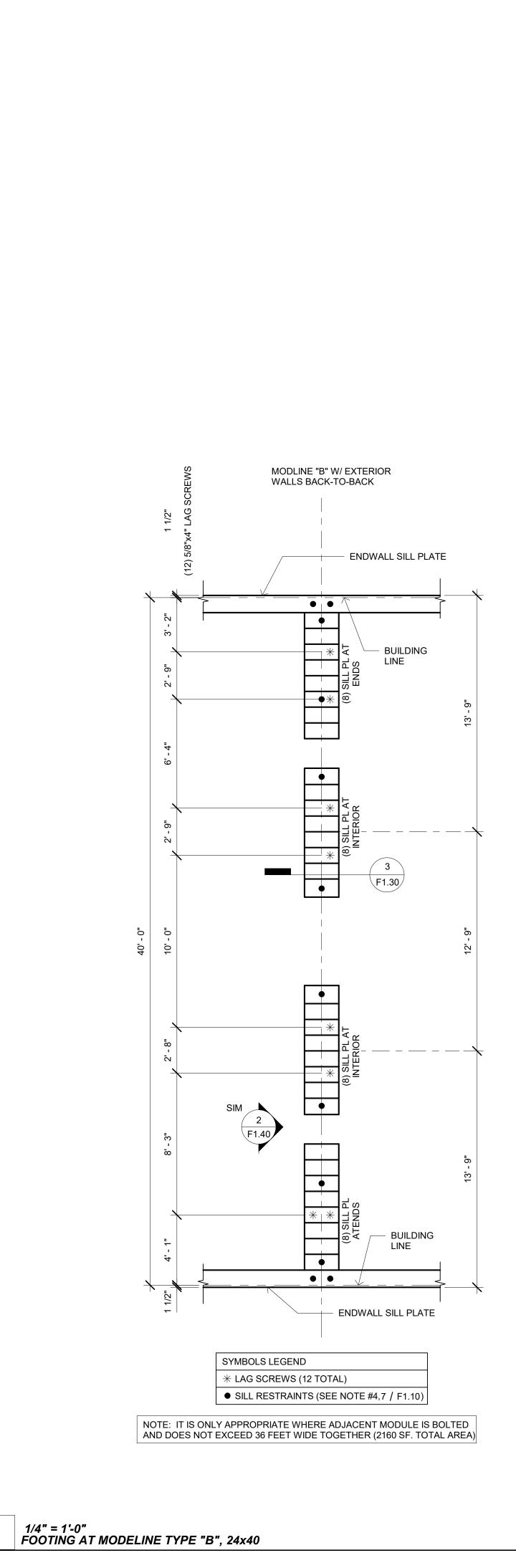
TIE F	PLATE SCHED	ULE	
	END WALL	SIDE WALL	
24x40	5	3	
36x40	7	3	
48x40	10	3	

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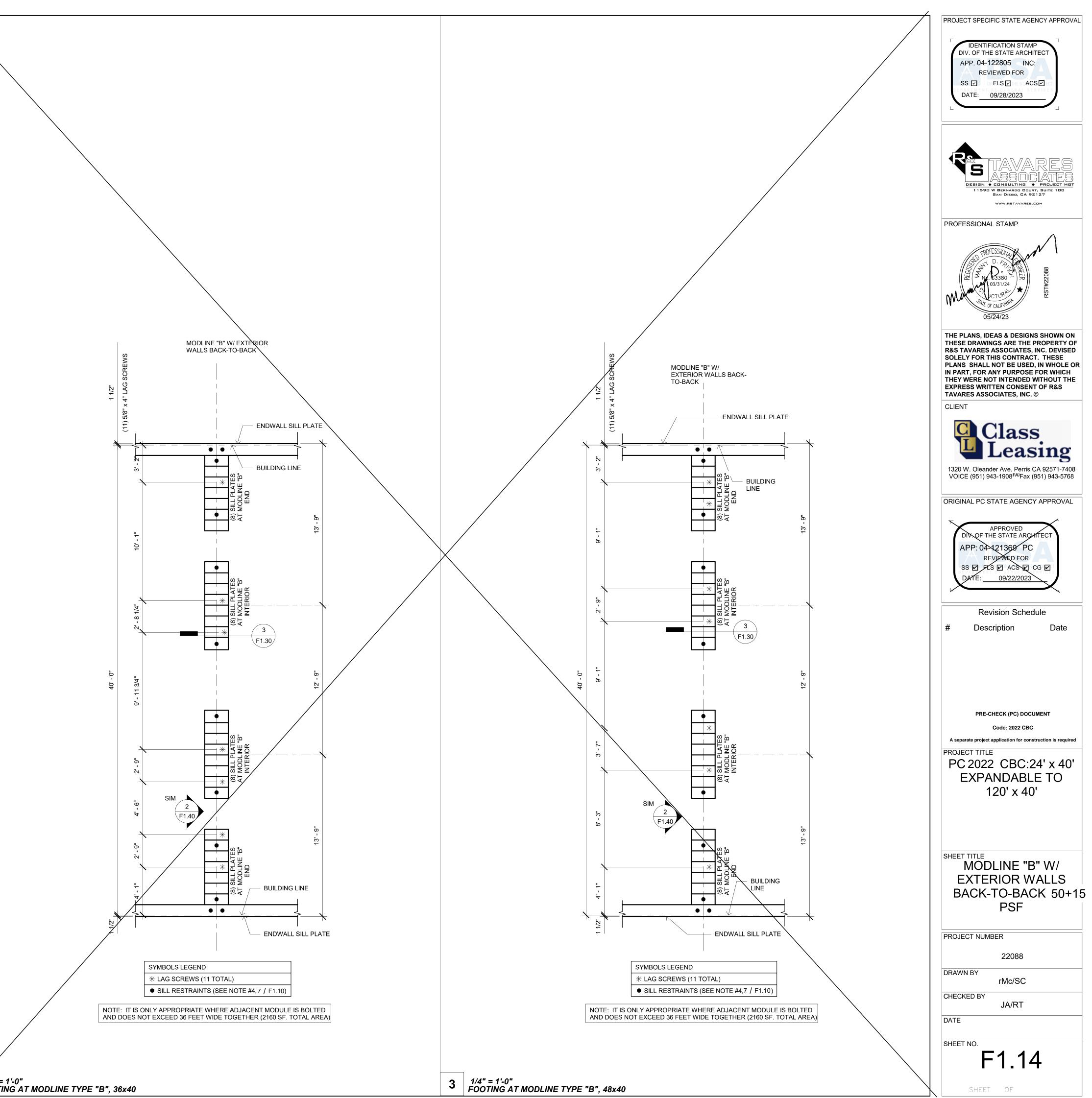
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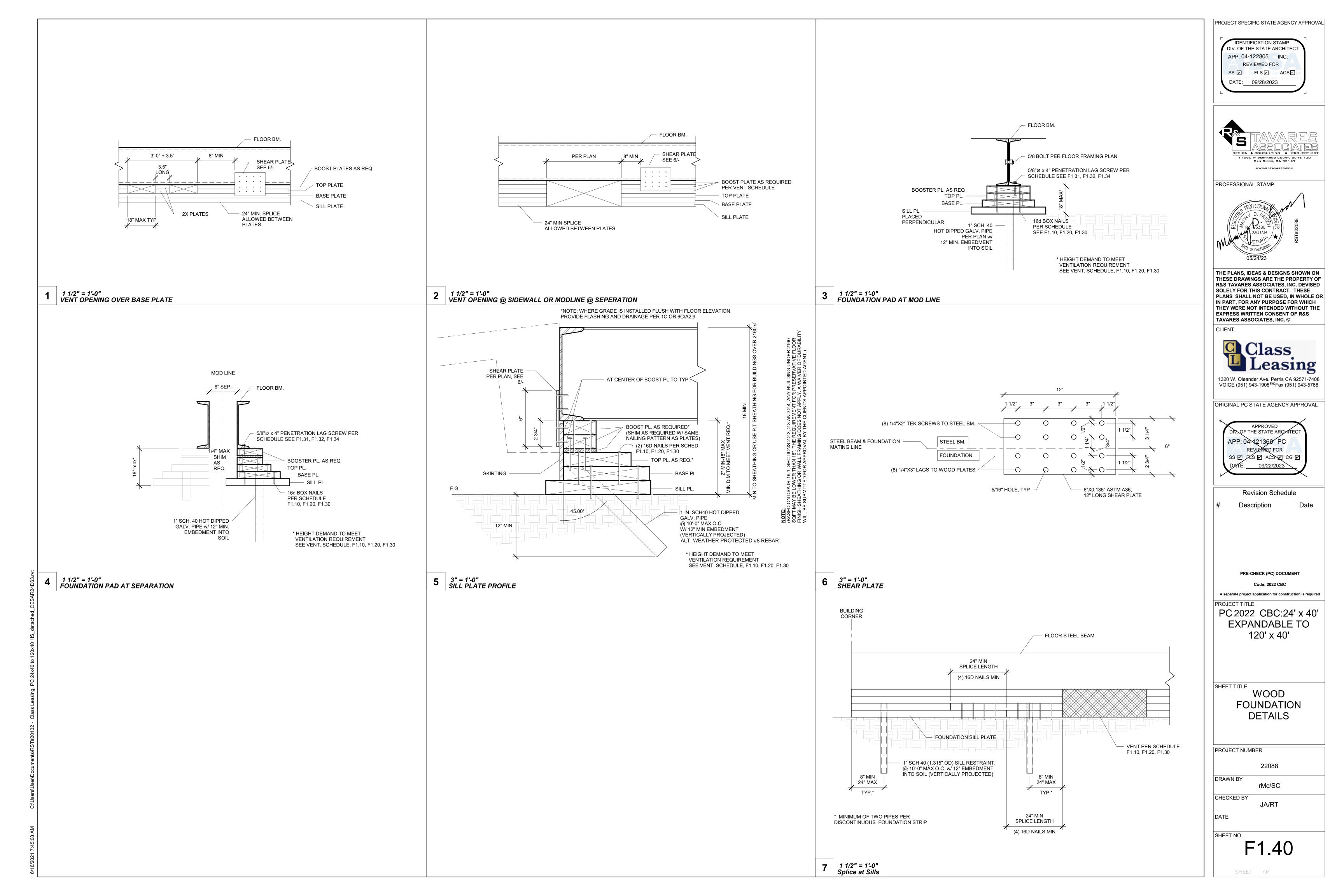






**2** /1/4" = 1'-0" FOOTING AT MODLINE TYPE "B", 36x40





			FOUNDATIONS
STRUCT	RUAL STEEL:		GEOTECHNICAL INVESTIGATION SHALL BE CONDUCTED IN ACCO GEOTECHNICAL ENGINEER CONTRACTED BY THE DISTRICT. ALL
	ALL WORK, UNLESS MODIFIED BY THE CONCTRAC N ACCORDANCE WITH CURRENT AISC SPECIFICA		VALUES MAY BE DETERMINED FROM TALBLE 1806A.2, WHERE G 1803A.2. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1000 PSF / AND PERMANENT CONCRETE FOUNDATIONS RESPECTIVELY IN
B. S	STEEL SHAPES SHALL COMFORM TO THE FOLLOW	-	AND FERMIANENT CONCRETE TOONDATIONS RESPECTIVELY IN
	a. STRUCTURAL HSS COLUMNS: b. STRUCTURAL W-SHAPES: c. TUBE STEEL:	ASTM A500 GRADE B ASTM A992 GRADE 50 ASTM A500 GRADE A	A PREVIIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITT PRESSURE VALUES ARE ALLOWED A 33% INCREASE FOR SHOR
	d. ALL OTHER:	ASTM A36	THE DISTRCT SHALL BE RESPONSIBLE FOR EXCAVATION, BACKI
	ABRICATION, ERECTION, AND SHOP PAINTING SHOP PAINTING SHOP OF STANDARD P		PROVIDE SHIMS TO LEVEL BUILDING WITHIN 1/2" TOLERANCE.
D. H	IOLES IN STRUCTURAL STEEL SHALL NOT BE PER	RMITTED, UNLESS SPECIFIED IN THE STRUCTURAL DRAWINGS	COLD-FORMED STEEL:
CONCRE	TE		A. ALL WORK SHALL, UNLESS MODIFIED BY THE CONCTRAC IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS A

- ALL CONCRETE WORK, UNLESS MODIFIED BY CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 19A, CBC 2022 AND ACI 318-19.
- TESTS AND INSPECTION SHALL BE PERFORMED BY A TESTING LABORATRY CONTRACTED BY THE DISTRICT.
- MIX DESIGN SHALL BE SUBMITTED FOR QUALIFICATION AND PROVIDE A 28-DAY COMPRESSIVE STRENGTH F'C OF 3500 PSI, COMPOSED OF NORMAL WEIGHT TYPE I PORTALAND CEMENT IN CONFORMANCE WITH ASTM C150.
- FORMWORK SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.
- LOCATIONS OF VENTS AND OPENINGS FOR MECHANICAL AND ELECTRICAL USE SHALL BE VERIFIED BY ARCHITECT.
- EMBEDMENT OF MATERIALS NOT HARMFULL TO CONCRETE AND WITHIN LIMITATIONS OF SECTION 20.6, ACI-318-19 SHALL BE PERMITTED. REFER TO OTHER DISCIPLINES FOR LOCATION OF CONDUIT, PIPES, FITTINGS, SLEEVES, ETC.

#### CONTINUOUS BATCH PLANT INSPECTION WAIVED PER CBC 1705A3.3. WHEN CONTINUOUS BATCH PLANT INSPECTION WAIVED, THE FOLLOWING PERIODIC INSPECTION SHALL BE REQUIRED: (INSPECTIONS PROVIDED BY DISTRICT)

- QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY
- LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
- BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH THE LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.
- ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS Η. POURED.

#### CONCRETE MIX

IN ADDITION TO THOSE REQUIREMENTS DICTATED BY THE PC DESIGN, THE CONCRETE MIX USED IN THE FOUNDATION ELEMENTS SHALL COMPLY WITH THE DURABILITY REQUIREMENTS OF AMERICAN CONCRETE INSTITUTE (ACI) 318 SECTION 19.3. THE PC DRAWINGS SHALL ACCOUNT FOR THE DEPENDENCY OF THESE DURABILITY REQUIREMEMNTS ON SITE-SPECIFIC CHARACTERISTICS.

A. WHEN THE PC DRAWINGS DO NOT REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL REQUIRE A CONCRETE MIX SHALL COMPLYING WITH ONE OF THE FOLLOWING PER ACI 318 TABLE 19.3.2.1. SEE THIS SHEET A.1 & A.2 FOR OPTIONS

B. MAXIMUM WATER/CEMENT RATION OF 0.45; MINIMUM COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH (PSI); TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7; AND PROHIBITION OF ADMIXTURES CONTAINING CALCIUM CHLORIDE

C. MAXIMUM WATER/CEMENT RATIO OF 0.40; MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI; TYPE V CEMENT COMPLYING WITH FOOTNOTE 8; AND PROHIBITION OF ADMIXTURES CONTAING CALCIUM CHLORIDE.

D. WHEN THE PC DRAWINGS REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL CLEARLY STATE THE EXPOSURE CLASS FOR EACH CATAGORY (I.E., F, S, W, AND C) OR COMBINATION THEREOF THE PC DESIGN IS APPROVED FOR. THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, CEMENTITOUS MATERIAL REQUIREMENTS, AND ADMIXTURE LIMITATIONS SHALL BE STATED ON THE PC DRAWINGS FOR EACH APPROVED CASE.

E. BOTH APPROACHES GIVEN SECTIONS 5.5.1 AND 5.5.2 ABOVE CAN BE INCLUDED ON THE PC DRAWINGS AS ALTERNATE **OPTIONS IN ACCORDANCE WITH SECTION 1.4 ABOVE** 

F. CONCRETE EXPOSE TO THAW AND FREEZE CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1

#### STEEL REINFORCEMENT

- DEFORMED BARS SHALL CONFORM TO ASTM A615.
- fy= 60,000 PSI, FOR ALL BARS EXEPT FOR #3 BARS, fy= 40,000 PSI.
- PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER FOR #5 BARS OR SMALLER = 1.5" SPLICE LENGTHS SHALL BE A MINIMUM OF 48" FOR #5 BARS, AND 30" FOR #4 BARS UNLESS OTHERWISE SPECIFIED D IN DRAWINGS.

#### <u>BOLTS</u>

ALL BOLTS AND ANCHOR BOLTS SHALL COMFORM ATO ASTM A-307 BOLTS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED BY THE HOT-DIP OR MECHANICAL PROCESS WELDING

A. ALL WELDING SAHLL BE IN COMFORMANCE TO:

- a. AWS D1.1, EXCEPT AS MODIFIED IN SECTION J2, AISC-360 FOR STEEL
- AWS D1.3 FOR LIGHT GAUGE STEEL c. AWS D1.4 FOR REINFORCING STEEL
- B.
- ELECTRODE CLASSIFICATION: a. E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT E60XX FOR LIGHT GAUGE STEEL
- WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER **CERTIFICATION:** 
  - LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F а. COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F
- SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS. D.
- E. INSPECTION:
  - PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS. b. CONTINUOUS INSPECTION FOR OTHER WELDS.

  - NONDESTRUCTIVE TESTING (NDT) a. ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT REQUIRED FOR MATERIALS LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED PROVISIONS SET FORTH IN SECTION N5.5e, AISC-360 IS MET.
    - MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS SET FORTH IN J6.2g, AISC-341 IS MET.

VESTIGATION SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 1803A.1 THROUGH 1803A.8 BY NGINEER CONTRACTED BY THE DISTRICT. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE ETERMINED FROM TALBLE 1806A.2, WHERE GEOTECHNINCAL REPORTS IS NOT REQUIRED PER SECT JM ALLOWABLE SOIL PRESSURE OF 1000 PSF AND 1500 PSF SHALLBE PERMITTED FOR TEMPORARY W CONCRETE FOUNDATIONS RESPECTIVELY IN ACCORDANCE WITH SECTION 4.6, IR 16-1

ORT FOR A SPECIFIC SITE MAY BE RESUBMITTED. THE ALLOWABLE FOUNDATIONA AND LATERAL SOIL S ARE ALLOWED A 33% INCREASE FOR SHORT TERM WIND AND SEIMIC LOADS. L BE RESPONSIBLE FOR EXCAVATION, BACKFILL, SETTING ELEVATIONS, CRANING AND RIGGING.

SHALL, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED DANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.

MATERIAL SPECIFICATION: ASTM A-1011/A, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTI ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GUAGE STUDS AND TRACKS SHAPES SHALL BE DIMENSIONED TO SSMA SPECIFICATIONS.

C. SCREWS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED

а.

<u>STEEL DECK</u>

<u>CHANGES</u>

WOOD

<u>SHEATHING:</u>

1.

3.

TREATED WOOD:

ROOF DIAPHRAGM:

FLOOR DIAPHRAGM:

EITHER INSTALLED

SCREWS AT 24" OC.

**CONNECTIONS LAG SCREWS:** 

NAILING NOTES:

a)

b)

DIAMETER.

MINIMUM THICKNESS PERMITTED FOR FLOOR STEEL DECKS IS 20GA. PER DSA IR 16-1, 1.2.1, MINIMUM THICKNESS OF NON-STRUCTURAL STEEL ROOF DECKING IS 26GA. STANDING SEAM ROOF PANELS ARE GRADE 40 SHEET STEEL WITH ALUMINUM ZINC COATING CONFORMING TO ASTM A792 AND AZ55.

CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND SHALL BE CLASSIFIED AS CCD CATEFORY A.

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION IN ACCORDANCE WITH THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-19.

SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD, SHALL PROVIDE A SMOOTH AND UNIFORM SURFACE

CAPABLE OF ACCEPTING CARPET FINISH PLYWOOD ROOF DECK OPTION: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING EXTERIOR WALL SIDING:

STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL OPTION: 5/8" MOD

OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH

EXTERIOR WALL SIDING ATTACHMENT:

FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

FASTEN TO WOOD FRAMING WITH 8D BOX NAILS @ 6" E.N., 12" F.N. FASTEN TO LIGHT GAGE METAL FRAMING WITH #8 WAFER HEAD STSMS @ 6" E.N., 12" F.N. FASTEN TO STRUCTURAL STEEL WITH #12 STSMS OR 0.145 DIAM SHOT PINS @ 12" O.C.

ALL WOOD LOCATED WITHIN 6" OF EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL IN ACCORDANCE WITH CBC SECTION 2304.12.1.2. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC # ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.1.1

3/4" T&G RATED SHEATHING BLOCKED DIAPHRAGM, EXPOSURE 1, 48/24 SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 x 1 1/4" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC

COATED TEKS SCREWS @ 6" BN/CON. EDGE, 6" EN, AND 12" O.C. FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2. NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING,

FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

1 1/8" PLYWOOD UNBLOCKED DIAPHRAGM - STURD-I-FLOOR T&G RATED SHEATHING, EXTERIOR, 48" oc SPAN RATING FASTEN AT METAL SUPPORTS W/ #10 - 24 x 2" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS @ 6" O.C. BN/CON. EDGE, 6" O.C. EN, 12" FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR

FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2 NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHS AND SHALL BE BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR

STRENGTH: 3500 PSI TYPE: I OR II

DESINTY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD) USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK

ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED

MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL NOT BE LESS THAN 3" IN OVERALL LENGTH. NAILS SHALL BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIREMENT EMBEDMENT IS MAINTAINEI CONNECTIONS AND FASTENERS:

ALL CONNECTIONS AND FASTENERS IN DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT PROVIDING I REPORTS ARE SUBMITTED TO AND APPROVED BY DSA.

LAG SCREWS SHALL BE INSTALLED WITH WASHER AND TURNED BY WRENCH, OVER-TORQUING SHALL BE AVOIDED. PRE-DRILLED CLEARANCE AND LEAD HOLE SHALL BE REQUIRED AS DESCRIBED BELOW:

THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND

THE LEAD HOLE FOR THE THREADED PORTION OF THE SHANK SHALL HAVE SAME DEPTH AND 65% TO 85% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G > 0.6 60% TO 75% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, 0.5 < G ≤ 0.6 40% TO 70% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G ≤ 0.5

LEAD OR CLEARANCE HOLES SHALL NOT BE REQUIRED FOR 3/8" DIAMETER OR SMALLER LAG SCREWS.

		IAXIMUM W/CM RATIO     MINIMUM COMPRESSIVE STRENGTH, fc (PSI)     CEMENTITIOUS MATERIALS- TYPES (ASTM C150)     MAX AGGREGATE SIZE       0.45     4,500     TYPE V PLUS POZZOLAN OR SLAG CEMENT     1" +/- 1/4"     N/A       0.45     4,500     TYPE V PLUS POZZOLAN OR SLAG CEMENT     3/8"     N/A	CEMENTITIOUS MATERIALS -		TARGET AIR CONTER				
CONCRETE ELEMENT	MAXIMUM W/CM RATIO								
FOUNDATION	0.45	4,500		1" +/- 1/4"	N/A				
FOUNDATION VENTS &	0.45	4.500	TYPE V PLUS POZZOLAN OR	3/8"	N/A				
ACCESS WELLS	0.43	4,300	SLAG CEMENT	1/2"	N/A				
				1" +/- 1/4"	N/A				

(2) DOCUMENTATION OF CONCELE INITIONES ANALLES ANALLES IN ACCOMPANY WITH AU, SECTOR 204-4
 (3) CEMENT SHALLE BE CERTIFIED PER TITLE 24, PART 2, SECTOR 1910A.1
 (4) THE FOUNDATION DESIGN HAS BEEN PREPARED USING A MINIMUM 28-DAY COMPRESSIVE CONCRETE STRENGTH (fc) OF 3500 PS

SCALE DEFAULT CONCRETE MIX DESIGN

SO4<sup>2-</sup> > 2.0

			EXPOSURE CATEGORY	: FREEZING A	ND THAWING (F	F)			
							REQUIRED	AIR CONTENT	LIMITS ON
EXPO	DSURE CLASS	CONDITION		MAXIMUI W/CM	M MINIMU M f'c	MAX	AGGREGATE SIZE		CEMENTITIOUS MATERIALS
	FO	CONCRETE NOT EXPOSED TO FREEZING	AND-THAWING CYCLES	0.55	3500		N/A	N/A	N/A
							3/8"	6	
		CONCRETE EXPOSED TO FREEZING-AI	ID THAMING CYCLES				1/2"	5.5	
	F1	WITH LIMITED EXPOSURE		0.55	3500		3/4"	5	N/A
		WITH LIWITED EXPOSURE	IO WATER				1"	4.5	
							1 1/2"	4.5	
							3/8"	7.5	
			ID THANKING OVELES				1/2"	7	
	F2	CONCRETE EXPOSED TO FREEZING-AI WITH FREQUENT EXPOSURE		0.45	4500		3/4"	6	N/A
		WITH FREQUENT EXPOSURE	TOWATER				1"	6	
							1 1/2"	5.5	
							3/8"	7.5	
_		CONCRETE EXPOSED TO FREEZING-AI	ND-THAWING CYCLES				1/2"	7	
	F3	WITH FREQUENT EXPOSURE TO WATE	R AND EXPOSURE TO	0.4	5000		3/4"	6	ACI 318,
		DEICING CHEMICA	LS				1"	6	SECTION 26.4.2.2(b)
							1 1/2"	5.5	
		CONDITI	2N		EXPOSURI	E CATE	GORY: SULFATI	.,	IENTITIOUS MATERIALS T
			-					CLIV	ILINITIOUS WATENALS I
EXPOS	SURE CLASS	WATER-SOLUBLE SULFATE (SO4 <sup>2-</sup> ) IN SOIL, PERCENT BY MASS	DISSOLVED SULFAT IN WATER, P			V/CM	MINIMUM f'c	ASTM C150	ASTM C595
	SO	SO4 <sup>2-</sup> < 0.10	SO4 <sup>2-</sup> < 150	)	0.55		3500	NO TYPE RESTRICTION	NO TYPE RESTRICTION
	<b>S1</b>	$0.10 \le {\rm SO_4}^{2-} < 0.20$	150 ≤ SO <sub>4</sub> <sup>2-</sup> < 150 SEAWATEF		0.50		4000	П	TYPES WITH (MS) DESIGNATION
	<b>S2</b>	$0.20 \le SO_4^{2-} \le 2.0$	$1500 \le {\rm SO_4}^{2-} \le 1$	.0,000	0.45		4500	V	TYPES WITH (HS) DESIGNATION

0.45

LUS POZZOLAN OR

SLAG CEMENT

4000

0.50

	S3 (OPTION 2)	SO <sub>4</sub> <sup>2-</sup> > 2.0		SO <sub>4</sub> <sup>2-</sup> > 10,000		0.50 5		v		TYPES WITH (HS) DESIGNATION	HS
				EXPOSURE CATEGO	DRY: II		ACT WI		R (W)		
EXPO	DSURE CL/	ASS	C	ONDITION		MAXI W/		MINIMU M f'c		ADDITIONAL	REQUIREMEN
	w	vo	CONCRETE IN O AND LOW P	DRY IN SERVICE OR CONTACT WITH WA ERMEABILITY IS NO EQUIRED	TER	0.9	55	3500		ſ	N/A
	w	V1		CONTACT WITH WA MEABILITY IS REQUI		0.9	50	3500	AG	GREGATES ARE ALKALI-CARBO	
		2	CONCRETE IN (	CONTACT WITH WA	TER	0.1	50	4000	AG	GREGATES ARE	NOT ALKALI-S

AND LOW PERMEABILITY IS REQUIRED

SO4<sup>2-</sup> > 10,000

1												
				1	EXPOSURE (	CATEGORY: CORF	OSION PROTECTI	ON OF REINFO	RCEMENT			
	EXPOSU	RE CLASS	CONDITION	MAXIMUM W/CM	MINIMU M f'c	MAXIMUM WATER-SOLUBLE CHLORIDE ION (CL) CONTENT IN CONCE PERCENT BY WEIGHT OF CEMENT (NON-PRESTRESSED CONCRETE						
			CONCRETE NOT									
			EXPOSED TO									
		C0	MOISTURE OR TO	0.55	3500			1.00				
			AN EXTERNAL									
			SOURCE OF									
			CONCRETE EXPOSED									
			TO MOISTURE BUT									
		C1	NOT TO AN	0.55	3500			0.30				
			EXTERNAL SOURCE									
			OF CHLORIDES									
			CONCRETE EXPOSED									
			TO MOISTURE AND									
		C2	AN EXTERNAL	0.40	5000			0.15				
			SOURCE OF									
			CHLORIDES (DEICING									
ļ	NOTES:		· ·	•		•						

(1) THE ALTERNATIVE CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED FOR CONSTRUCTION PROVIDE A SITE-SPECIFIC GEOTECHNICAL REPORT HAS BEEN PROVIDED AND CONFIRMS ALL APPLICABLE EXPOSURE CLASS PER ACI 318, SECTION 19.3

NT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1

W2

2 SCALE ALTERNATIVE CONCRETE MIX-DESIGN: SITE-SPECIFIC

N OF CONCRETE MIXTURES CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI, SECTION 26.4.4

(4) THE FOUNDATION DESIGN HAS BEEN PREPARED USING A MINIMUM 28-DAY COMPRESSIVE CONCRETE STRENGTH (Fc) OF 3500 PS

NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON OR BOX NAILS, GALVANIZED WHERE EXPOSED) PER CBC TABLE 2304.10.2

N THE GEOTECHNICAL EXPLORATION REPORT, THE GREATER I'C ASSOCIATED WITH THE APPLICABLE EXPOSURE CLASS SHALL BE USED FOR CONSTRUCT

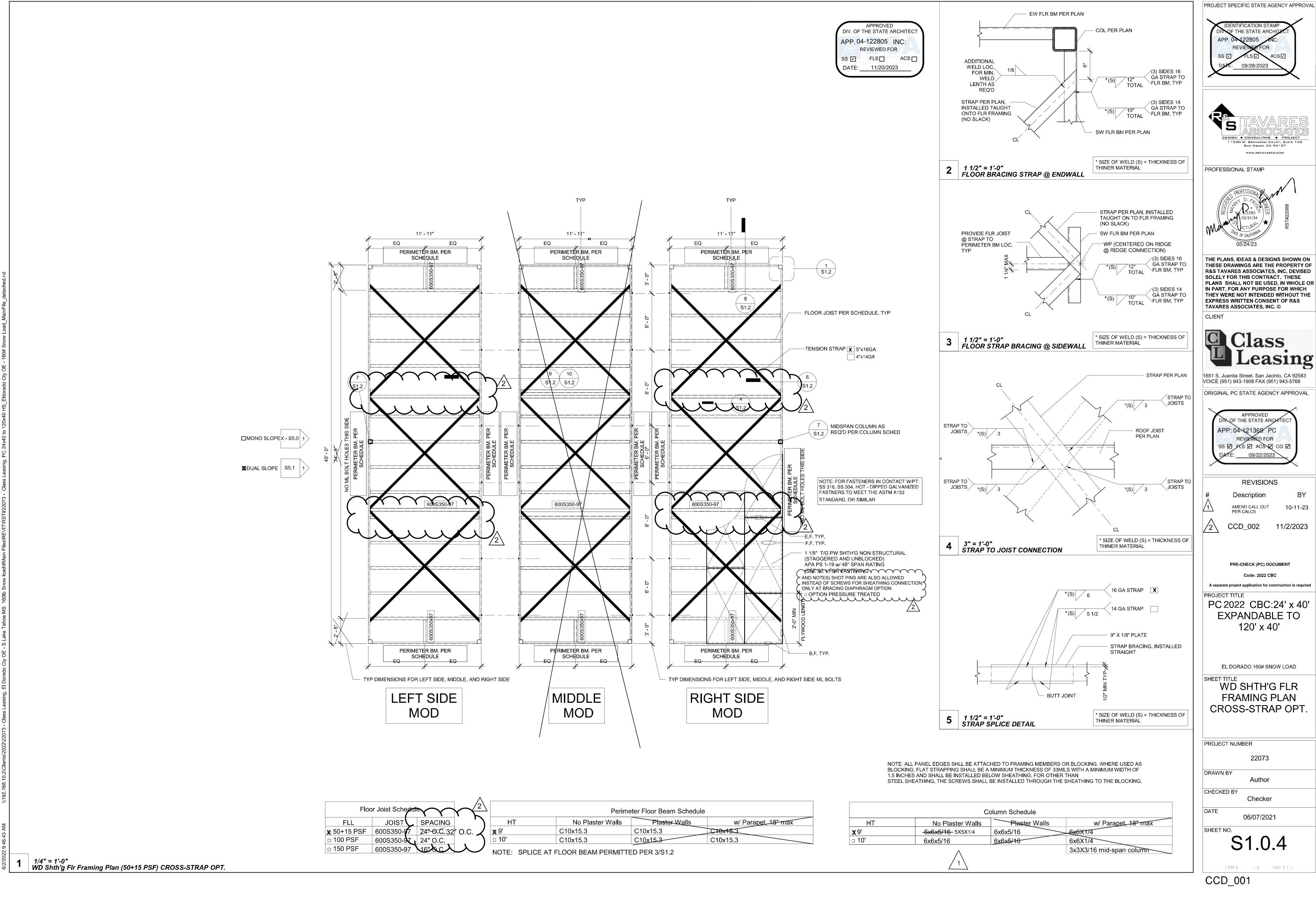
CONNECTION	соммо	N FASTENERS	BOX N	AIL FASTENERS	LOCATION
	QTY SIZE	SPACING O.C.	QTY SIZE	E SPACING O.C.	
1. JOIST TO SILL OR GIRDER	3- 8d		3- 10d		TOENAIL
2. BRIDGING TO JOIST	2- 8d		2- 10d		TOENAIL EA. END
1X6 OR LESS SUBFLOOR TO					
3. EA. JOIST	2- 8d		2- 10d		FACE NAIL
WIDER THAN 1X6 SUBFLOOR					
4. TO EA. JOIST	3- 8d		3- 10d		FACE NAIL
5. 2" SUBFLOOR TO JOIST	2- 16d		N/A N/A	A N/A	BLIND & FACE NAIL
SOLE PLT. TO JOIST OR BLK'G					
6. TO EA. JOIST	16d	@ 16"	16d	@ 12"	FACE NAIL
SOLE PLT. TO JOIST OR BLK'G					
@ BRACED WALL PANEL	3- 16d	@ 16"	3- 16d	@ 16"	TYP. FACE NAIL
7. TOP PLT. TO STUD	2- 16d		3- 10d	-	END NAIL
8. STUD TO SOLE PLT.	2- 16d		3- 10d		END NAIL
OR	4- 8d		4- 10d		TOENAIL
9. DOUBLE STUDS	16d	@ 24"	10d	@ 16"	FACE NAIL
10. DOUBLE TOP PLT.	16d	@ 16"	10d	@ 12"	TYP. FACE NAIL
DOUBLE TOP PLT.	8- 16d	MIN. U.N.O.	12- 10d	-	24" MIN LAP SPLICE
BLKG. BTW. JOIST OR					
11. RAFTERS TO TOP PLT.	3- 8d		3- 10d		TOENAIL
12. RIM JOIST TO TOP PLT.	8d	@ 6"	10d	@ 6"	TOENAIL
TOP PLT., LAPS &		Ū.		Ū.	
13. INTERSECTIONS	2- 16d		3- 10d		FACE NAIL
14. CONT. HDR. 2 PIECES	16d	@ 16"			ALONG EDGE
15. CLG. JOIST TO PLT.	3- 8d	Ŭ	3- 10d		EA. JOIST, TOENAIL
16, CONT. HDR. TO STUD	4- 8d		4- 10d		TOENAIL
CLG. JOIST LAP OVER					
17. PARTITIONS	3- 16d		4- 10d		FACE NAIL
CLG. JOIST PARALLEL TO					
18. RAFTERS	3- 16d		SEE TABI	E 2308.7.3.1	FACE NAIL
19. RAFTER TO PLT.	3- 8d		3- 16d		TOENAIL <sup>°</sup>
1" DIA, BRACE TO EZ, STUD &	0 00		0 100		
20. PLT.	2- 8d		2- 10d		FACE NAIL
21. 1X8 SHT'G. TO EA. BRG.	3- 8d		3- 10d		FACE NAIL
WIDER THAN 1X8 SHT'G TO					
22. BRG.	3- 8d		3- 10d		FACE NAIL
23. BUILT-UP CORNER STUDS	16d	@ 24"			FACE NAIL
		0-1			FACE NAIL @ TOP & BTM. S
24. BUILT-UP GIRDERS & BEAMS	20d	@ 32"	10d	@ 24"	ON OPP. SIDES
	200	6.01		61	
	2- 20d		N/A N/A	N/A	FACE NAIL @ ENDS & @ EA
25. 2" PLANKS	2- 16d		N/A N/A		@ EA. BRG.
26. COLLAR TIE TO RAFTER	3- 10d		4- 10d		FACE NAIL
27. JACK RAFTER TO HIP	3- 10d		4- 16d		TOENAIL
28. ROOF RAFTER TO 2X RIDGE	2- 16d		3- 10d		END NAIL
29. JOIST TO BAND JOIST	3- 16d		4- 10d		END NAIL
30. 4X BLOCKING TO STUDS	1- A34		N/A N/A		FACE NAIL
OR	4- 8d		4- 10d		TOENAIL
			54		I

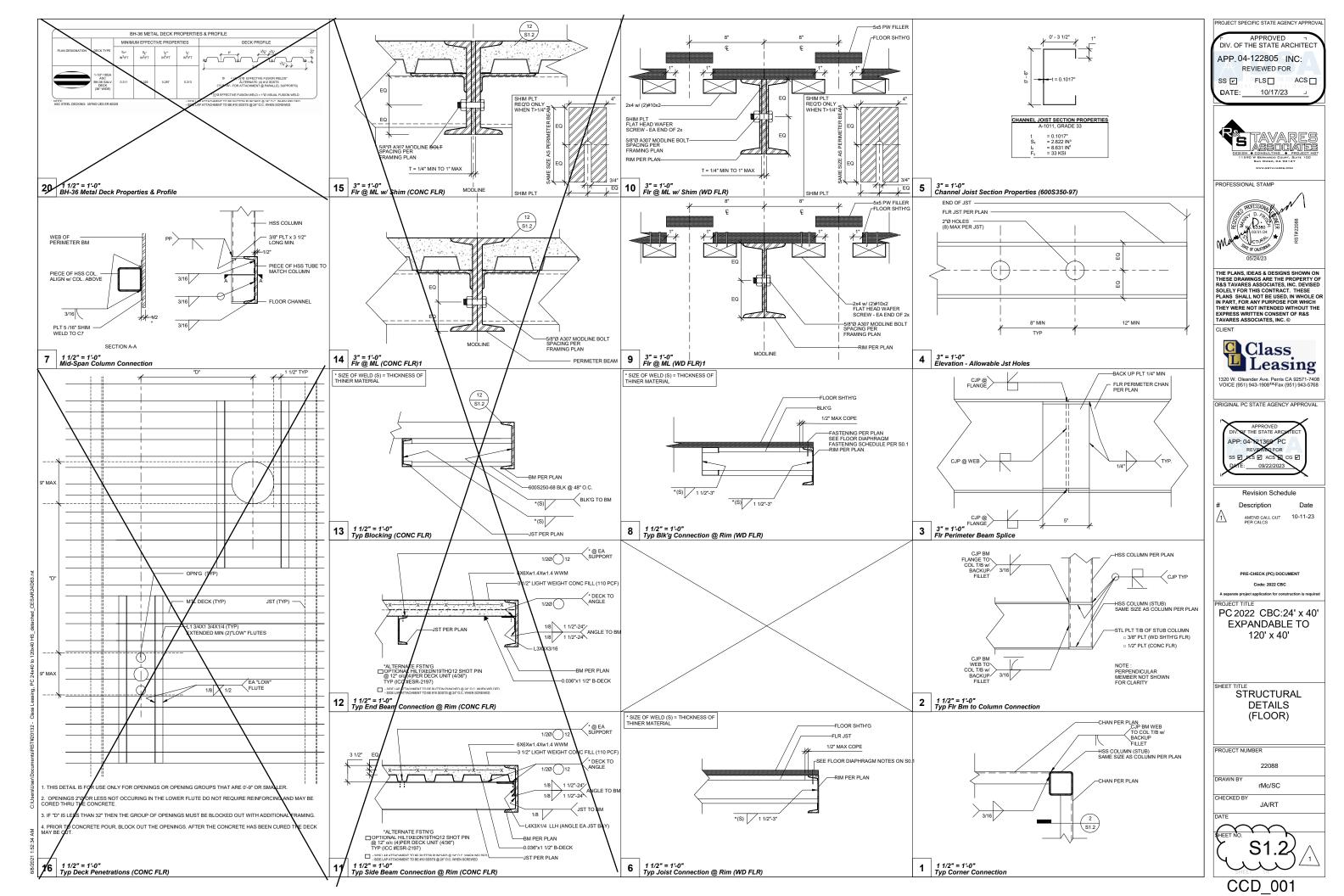
A.) NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND ARTICLEBOARD DIAPGHRAMS AND SHEAR WALLS, REFER TO SECTION 2305 NAILS. FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING. B.)SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). C.) WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

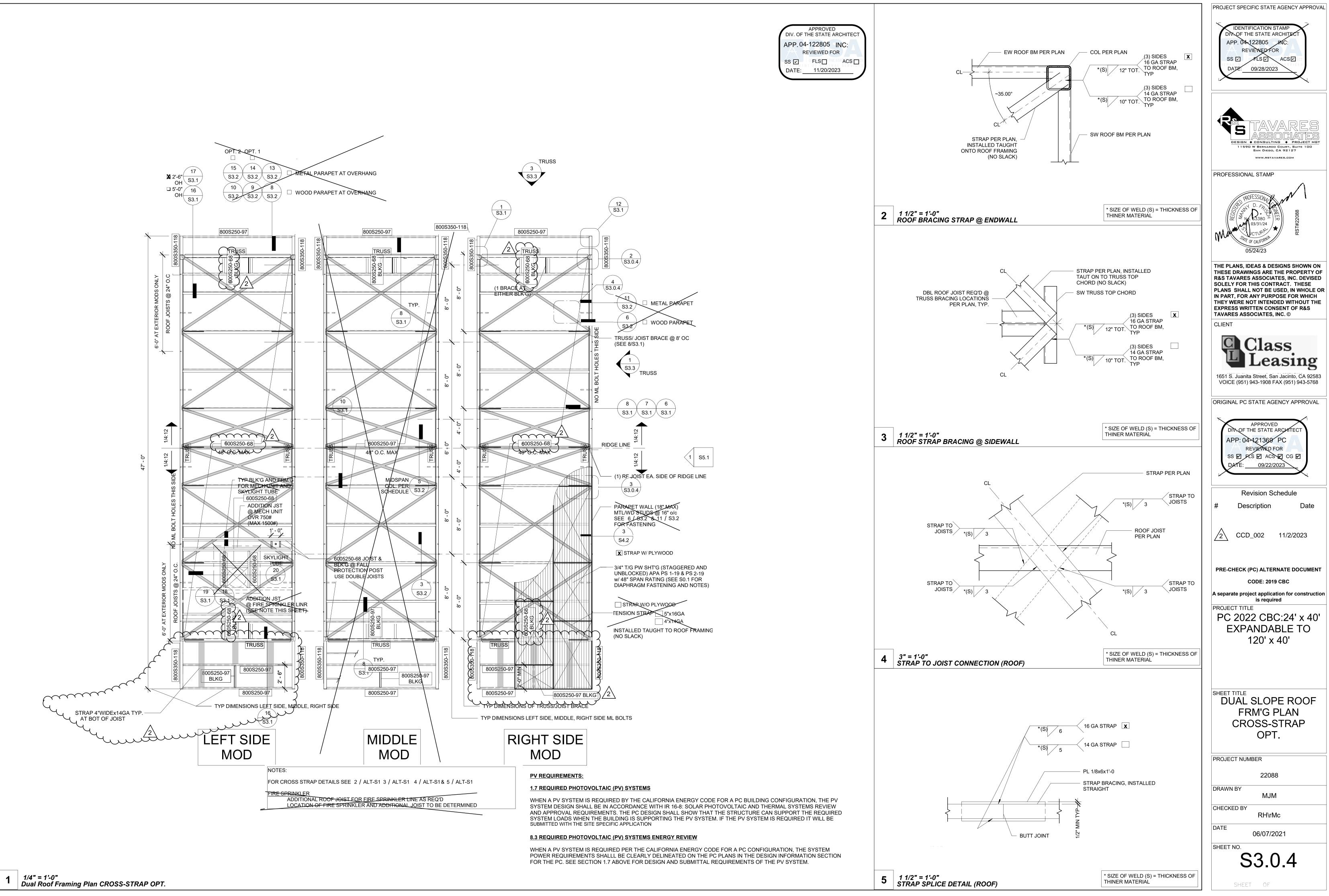
D.) RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667

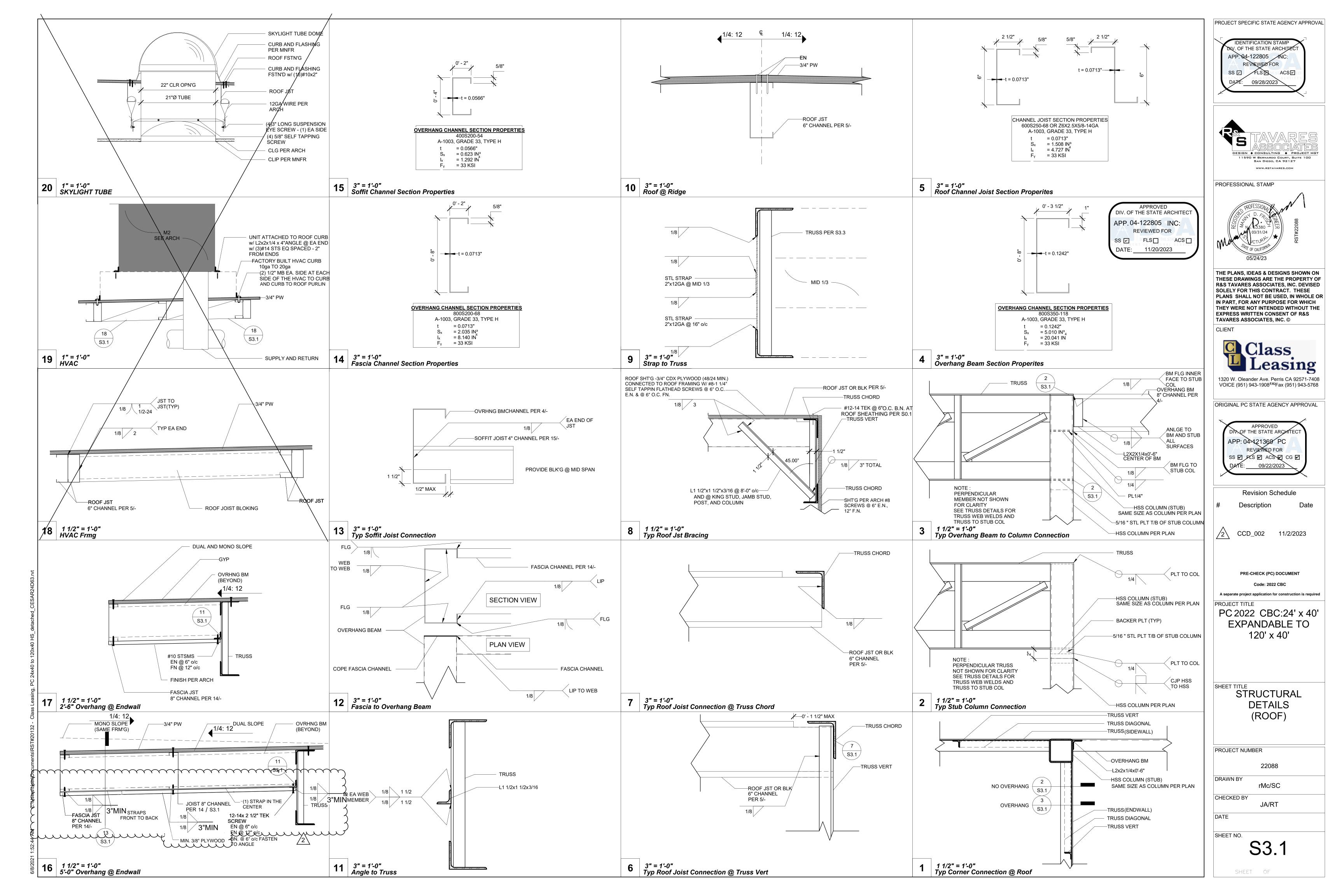
S	CONCRETE EXPOSED TO FREE THAWING CYCLES	EZING AND		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
	7.5 7 6			APP. 04-122805 INC: REVIEWED FOR
THAT QUANTIFIES SULFATE	ECONTENT IN THE SOIL (IR PC-6, SEC	CTION 5.5.1)		
				DATE: 09/28/2023
LIMITS ON CEMENTITIOUS MATERIALS			JT GEOTECH REPORT	
N/A	per	square	ter/cement ratio of 0.45; minimum compressive strength of 4,500 pounds ch (psi); Type V cement plus pozzolan or slag cement complying with Footnote 7 of ACI ; prohibition of admixtures containing calcium chloride; and 4" max slump.	
N/A	🗆 A.2	2Optiona	(Site-Specific) concrete Strength: WITH GEOTECH REPORT	<b>TS</b> AVARES
N/A	Wh	en the P ntent in th	drawings require a site-specific geotechnical report that quantifies sulfate soil, the PC drawings shall require a concrete mix shall comply with one	DESIGN ♦ CONSULTING ♦ PROJECT 11777 BERNARDO PLAZA COURT, SUITE 105
ACI 318,	of t <b>*(Th</b>	he follow <b>e minim</b>	ng based on the exposure class for each category from ACI 318 Table 19.3.2.1 below <b>m compressive strength shall not be less than 3500 psi with 4" max Slump)</b>	SAN DIEGO, CA 92128
SECTION 26.4.2.2(b)				PROFESSIONAL STAMP
NTITIOUS MATERIALS	ASTM C1157	CALCIUM		
NO TYPE RESTRICTIO		NO REST		PROFESSIONAL D. FR
TYPES WITH (MS) DESIGNATION TYPES WITH (HS)	MS	NO REST	TION	SGH N. 63380 N. 63380 03/31/24 ★ SGH SG SGH SG SGH SG SGH
TYPES WITH (HS)	HS	NOT PEF		
DESIGNATION PLUS POZZOLAN OR SLAG CEMENT		NOT PEF	TTED	05/24/23
TYPES WITH (HS) DESIGNATION	HS	NOT PEF	TTED	THE PLANS, IDEAS & DESIGNS SHOWN ON
				THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED
				SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR
ADDITIONA	LREQUIREMENT	S		IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S
	N/A			TAVARES ASSOCIATES, INC. ©
	.,,,			CLIENT
				C Class
	E NOT ALKALI-SIL BONATE REACTIV			C Class Leasing
				1320 W. Oleander Ave. Perris, CA 92571-7408 VOICE (951)943-1908 FAX (951)943-5768
	E NOT ALKALI-SIL			
ALKALI-CARE	3ONATE REACTIV	E		ORIGINAL PC STATE AGENCY APPROVAL
r				
TENT IN CONCRET SED CONCRETE)	ADDITIONAL	REQUIREME	rs	APPROVED DIV. OF THE STATE ARCHITECT
	r	N/A		APP: 04-121369 PC REVIEWED FOR
				SS ☑ FLS ☑ ACS ☑ CG ☑ DATE: 09/22/2023
	1	N/A		
				Revision Schedule
	CONCRETE CO SECTI	VER PER ACI ION 20.5	18,	# Description Date
DSURE CLASS PER ACI 318, SE	CTION 19.3			
ONSTRUCTION				
RE EXPOSED)	PER CBC		DECIMAL AND GAUGE CHARTS	
LOCATION			FRACTION         DECIMAL         PENNY         GAUGE         DEC.           1/32         0.03125         60d, 40d         4         0.2242	PRE-CHECK (PC) DOCUMENT
A. END			1/16         0.0625         30d         5         0.2092           3/32         0.09375         20d         6         0.1943	Code: 2022 CBC
			3/32         0.09375         200         6         0.1945           1/8         0.125         7         0.1793           5/32         0.15625         16d         8         0.1644	A separate project application for construction is required PROJECT TITLE
CE NAIL			3/16 0.1875 12d, 10d 9 0.1495	PC 2022 CBC: 24' x 60'
			1/4 0.25 6d 11 0.1196	
NAIL			9/32         0.28125           5/16         0.3125           11/22         0.24275	72' x 60'
			11/32         0.34375           3/8         0.375           12/22         0.40225	
NAIL P SPLICE			13/32         0.40625           7/16         0.4375	
			15/32         0.46875           1/2         0.5	SHEET TITLE
GE			17/32         0.53125           9/16         0.5625	STRUCTURAL GEN
TOENAIL			19/32         0.59375           5/8         0.625	NOTES
			21/32 0.65625 11/16 0.6875	
			23/32 0.71875 3/4 0.75	
			25/32 0.78125 13/16 0.8125	PROJECT NUMBER
0.775	07465		<u>27/32</u> 0.84375 7/8 0.875	22088
@ TOP & BTM DES			29/32 0.90625	
@ ENDS & @	EA. SPLICE		15/16         0.9375           31/32         0.96875	
			1 1	CHECKED BY JA/RT
				DATE
RUCTURAL PANEL COMMON, BOX OF	R CASING.			SHEET NO.
KUCTURAL APPLI KED).				S0.1
				SHEET OF

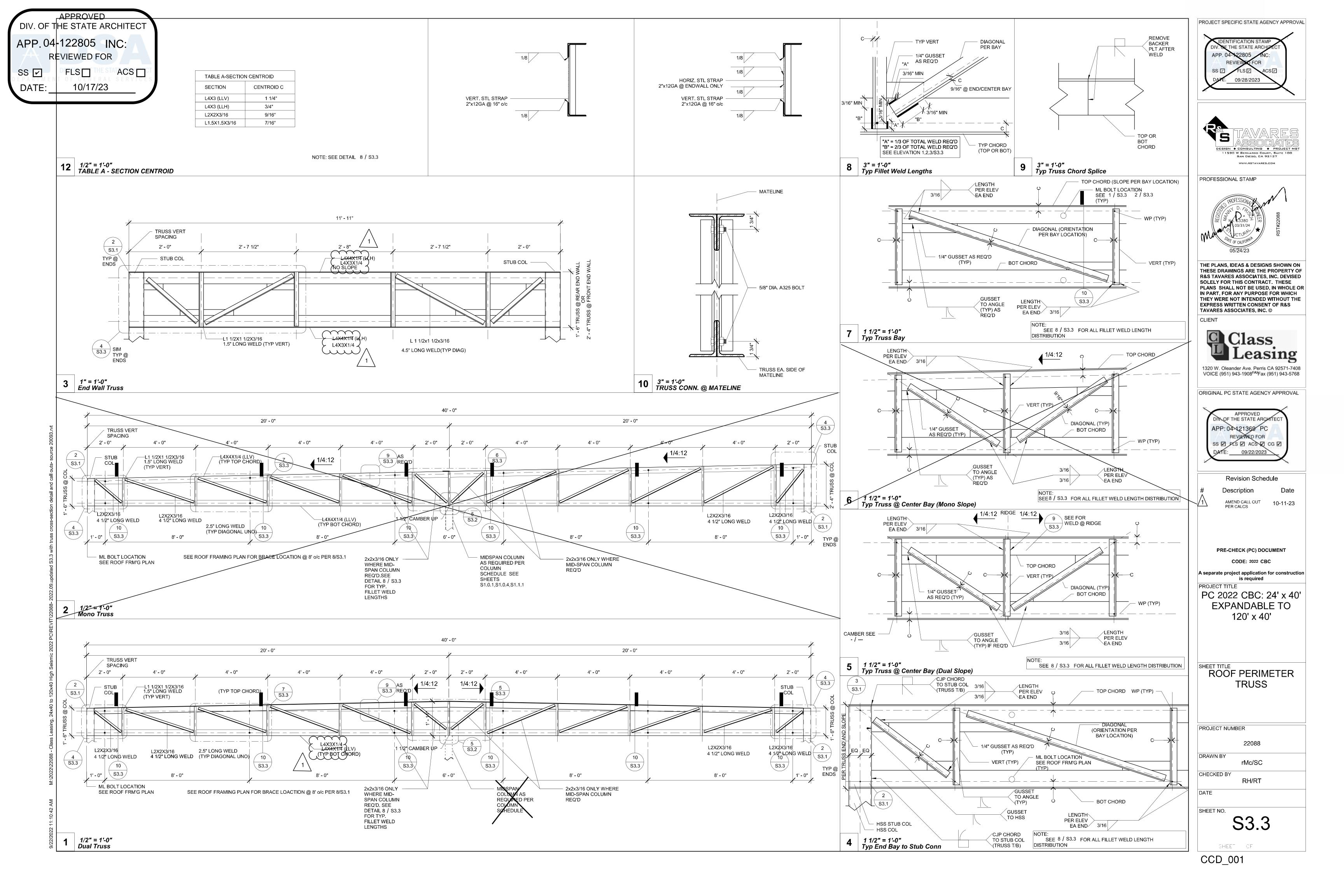
PROJECT SPECIFIC STATE AGENCY APPROVAL

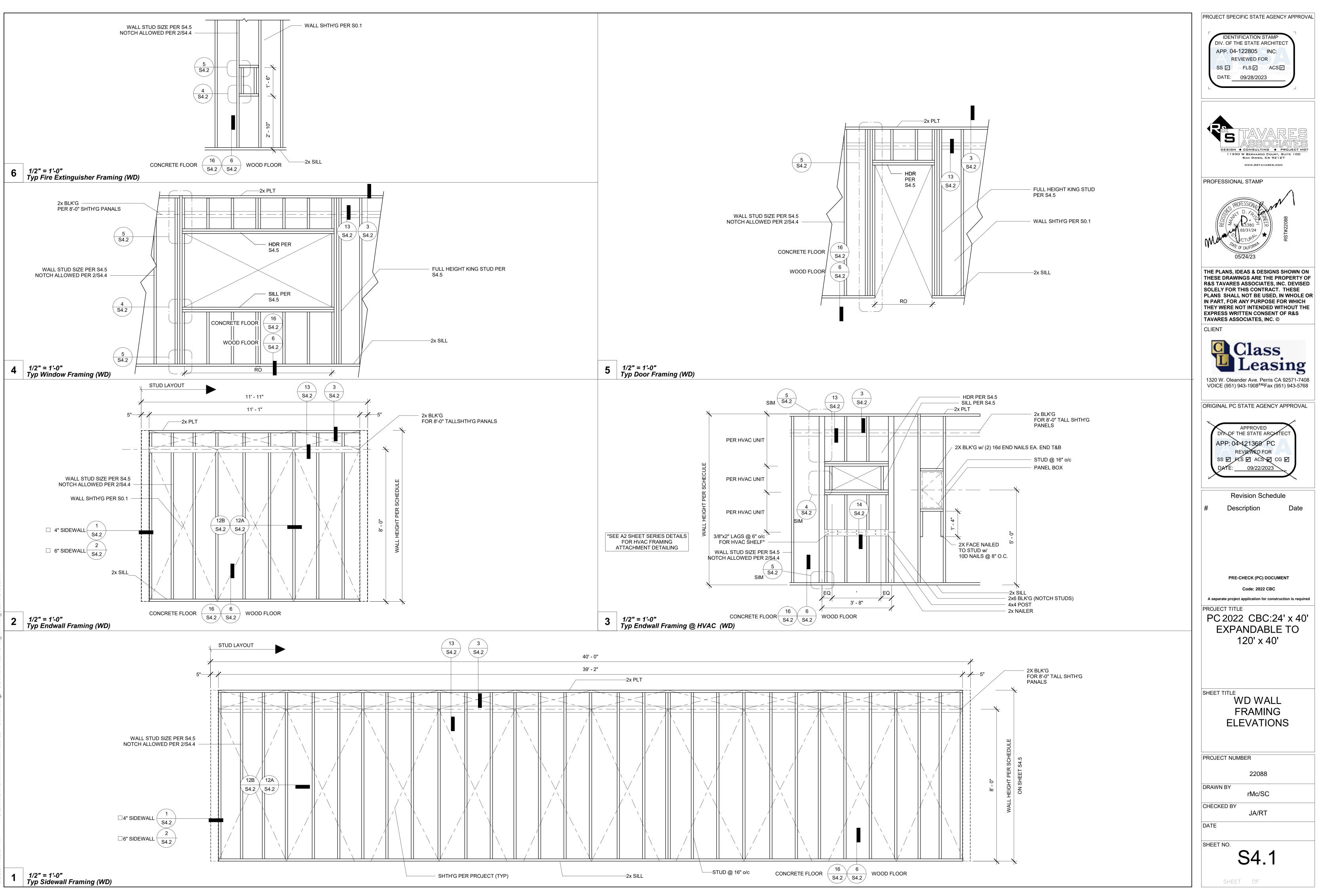




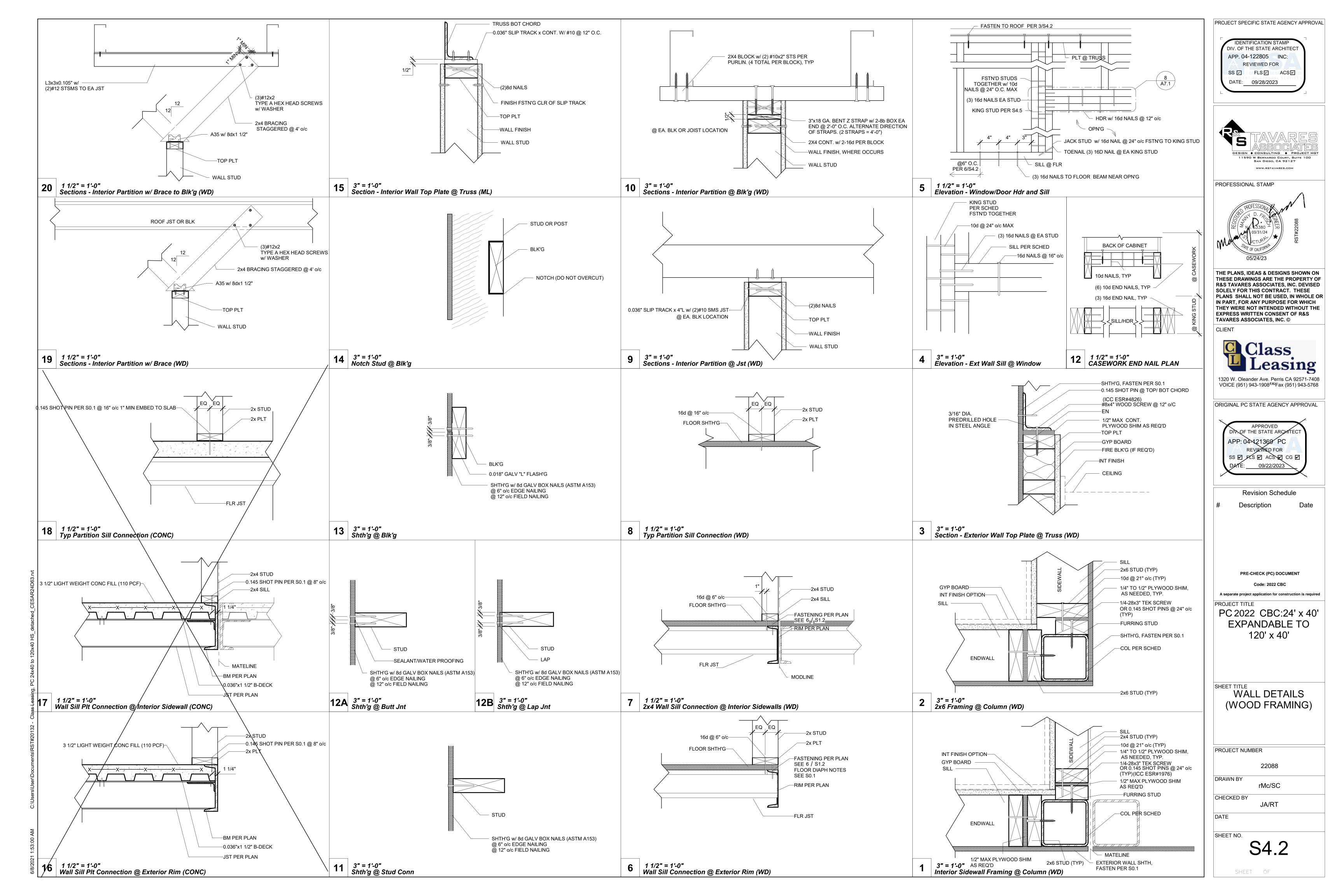


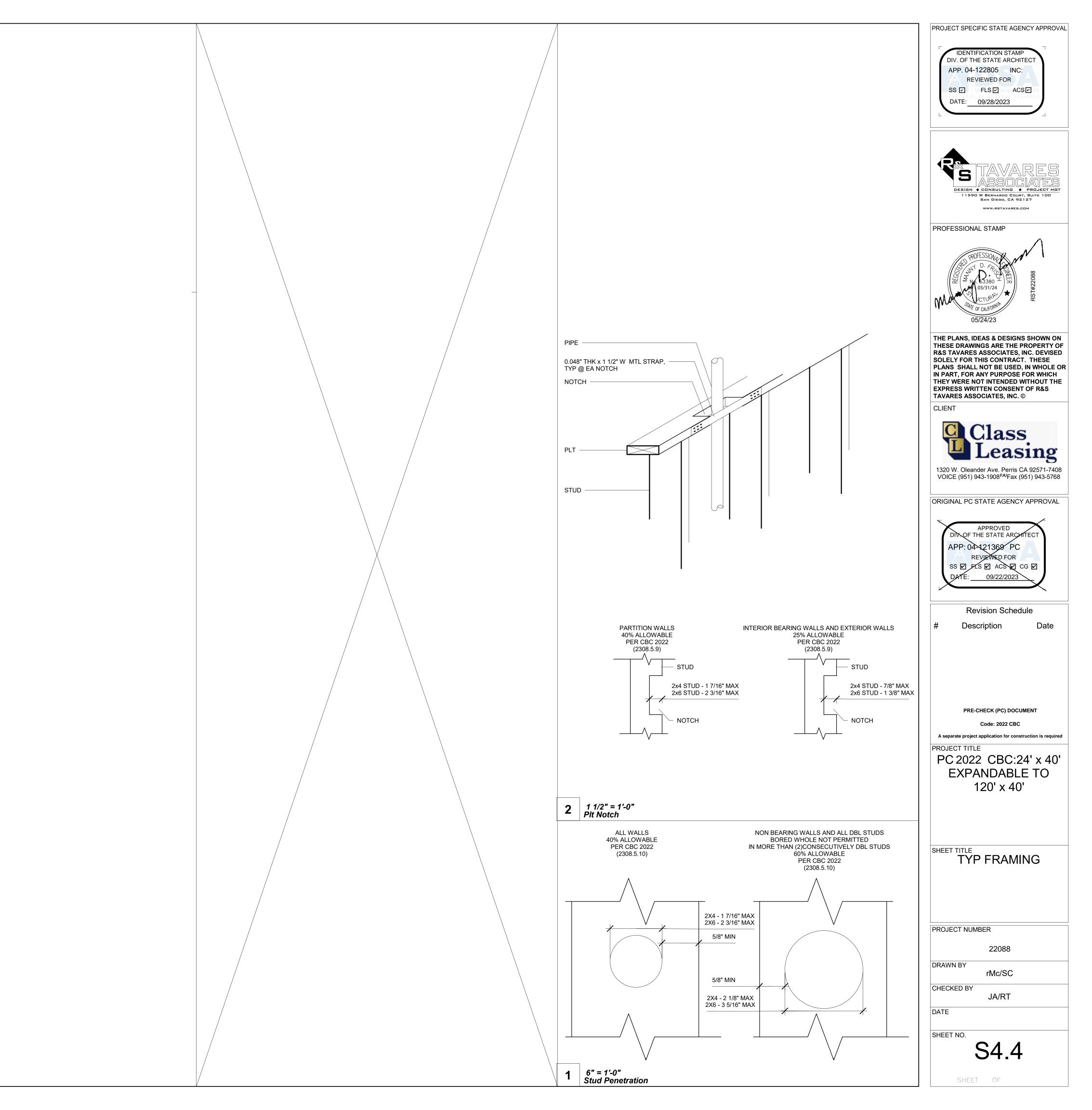






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				2x4 Interior	Wall Openi	ng Schedule					
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL F	i STUD	HI	
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Туре	
9FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2	
		DF / SYP	1	#2	-	-	-	DF	2	#2	
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2	
		DF / SYP	1	#2	-	-	-	DF	2	#2	
	6040	HF / SYP	2	#2	DF	2	#2	HF	2	#2	
		DF / SYP	2	#2	DF	2	#2	DF	2	#2	
	8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2	
		DF / SYP	3	#2	DF	3	#2	DF	2	#2	
10FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2	
		DE / SYP	1	#2	-	-	-	DF	2	#2	
	4070	HF / SYP	1	#2	-	-		HF	2	#2	
		DF / SYP	1	#2		-	-	DF	2	#2	
	6040	HF / SYP	2	#2	HF	2	#2	HF	2	#2	
		DF / SYP	2	#2	DF	2	#2	DF	2	#2	
	8040	HF/SYP	3	#2	HF	3	#2	- TH	2	#2	
		DF / SYP	3	#2	DF	3	#2	DF	2	<b>#</b> 2	

			2x6 Exter	rior Wall Op	pening Scheo	dule (SHTH'G	FINISH)			
COL HEIGHT	OPN'G SIZE		HDR			SILL		FULL HEIGHT KING STUD		
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Туре
9FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
-10ET	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	_1	#2	DF	1	#2
	6040	HF / SYP	1	#2		1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
	8040	HF/SYP	1	#2	HF	1	#2	HF	2	#2
			1	#2	DF	1	#2	DF	2	#2

	2x4 Interior Wall Framing Schedule												
COL HEIGHT		Typical I	ocation		4ft From Building Corner								
	Lumber	Number	Туре	Spacing	Lumber	Number	Туре	Spacing					
9	HF	1	#2	16" O.C.	-	-	-	-					
	DF	1	#2	16" O.C.	-	-	-	-					
10	HF	1	#2	16" O.C.	-		-	-					
	DF	1	#2	16" O.C.	-	-	-	-					

$\overline{}$											
			2x6 Exter	rior Wall Op	ening Sched	ule (PLASTE	R FINISH)				
COL	OPN'G		HDR			SILL		FULL HEIGHT KING STUD			
HEIGHT	SIZE		Ι	I		1	[			/	
		Lumber	Number	Туре	Lumber	Number	Туре	Lumber	Number	Туре	
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2	
		DF	1	#2	DF	1	#2	DF	1	#2	
	4070	HF	1	#2	HF	1	#2	HF	1	#2	
		DF	1	#2	DF	1	#2	DF	1	#2	
	6040	HF	1	#2	HF	1	#2	HF	2	#2	
		DF	1	#2	DF	1	#2	DF	1	#2	
	8040	HF	2	#2	HF	1	#2	HF	2	#2	
		DF	1	#2	DF	1	#2	DF	2	#2	
10FT	3070	HF	1	#2	HF	1	#2	HF	2	#2	
		DF	1	#2	DF	1	#2	DF	1	#2	
	4070	HF	1	#2	HE	1	#2	HF	2	#2	
		DF	1	#2	DF	1	#2	DF	1	#2	
	6040	HF	1	#2	HF	1	#2	HF	2	#2	
		DF	1	#2	DF	Ì	#2	DF	2	#2	
	8040	HF	2	#2	HF	1	#2	HF	3	#2	
		DF	1	#2	DF	1	#2	DF	2	#2	

2x6 Exterior WalCOL HEIGHTTypiLumberNumb9HF1DF110HF1DF1DF1

2x6 Exterior Wall Framing Schedule (SHTH'G FINISH)

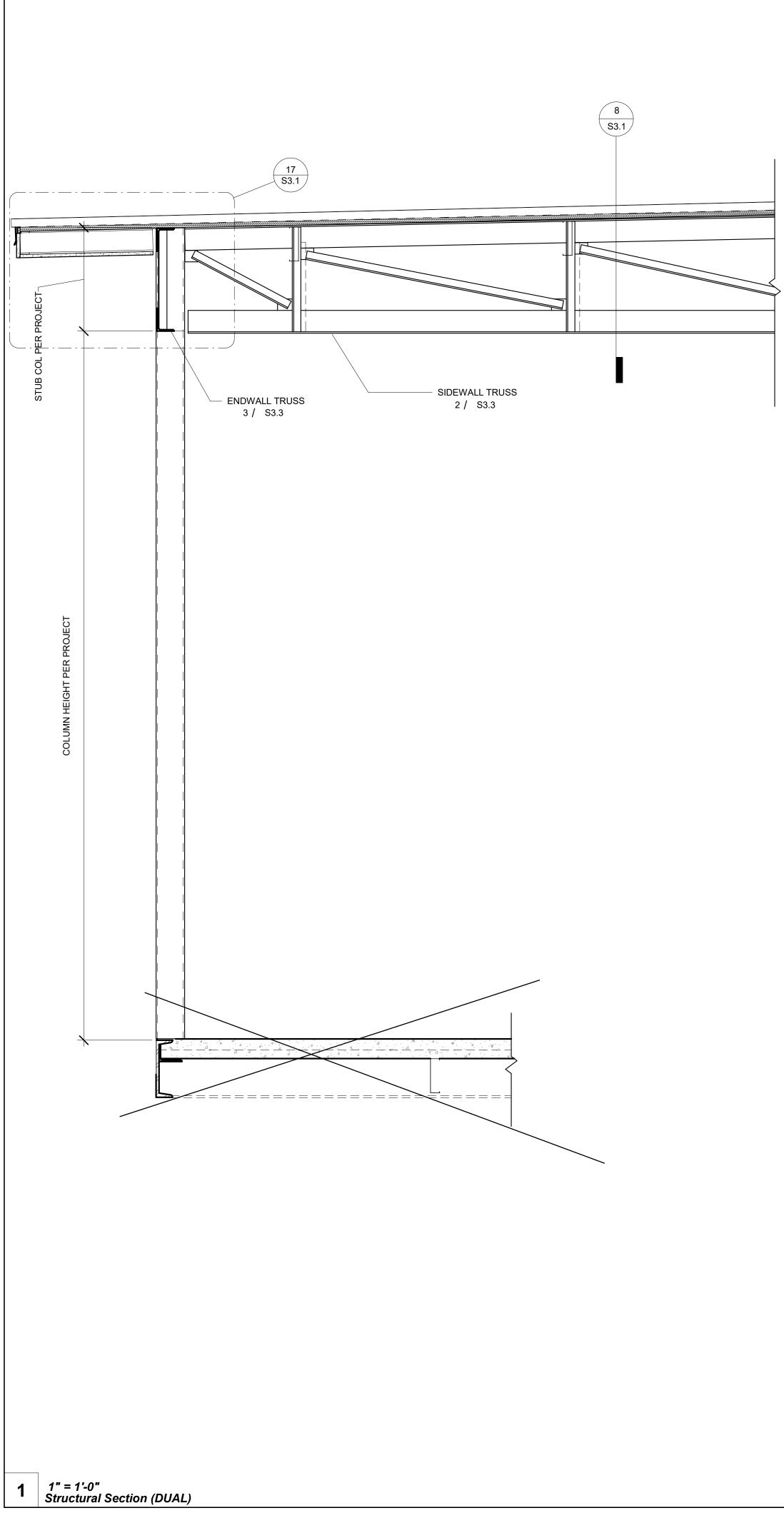
COL HEIGHT		Typical L	ocation		4ft From Building Corner					
	Lumber	Number	Туре	Spacing	Lumber	Number	Туре	Spacing		
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.		
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.		
10	HF	1	#2	16" O.C.	HE	1	#2	16" O.C.		
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.		

NOTE: SEE DETAIL 1 ON SHEETS A2.1 - A2.6

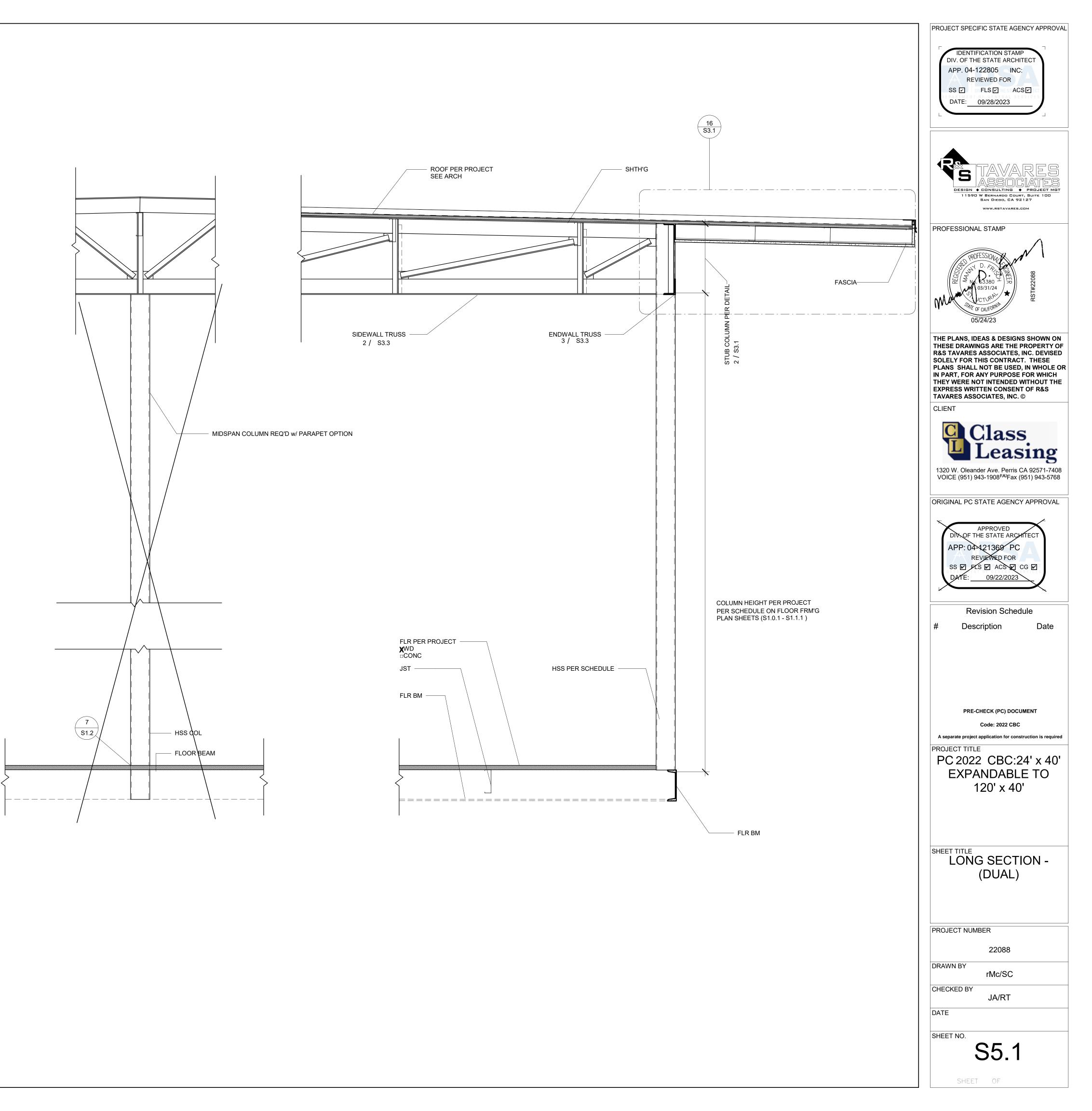
## 2x6 Exterior Wall Framing Schedule (PLASTER FINISH)

pical Location			4ft From Building Corner			
nber	Туре	Spacing	Lumber	Number	Туре	Spacing
1	#2	16" O.C.	HF	1	#2	16" O.C.
1	#2	16" O.C.	DF	1	#2	16" O.C.
1	#2	16" O.C.	HF	1	#2	16" O.C.
1	#2	16" O.C.	DF	1	#2	16" O.C.

PROJECT SPECIFIC STATE AGENCY APPROVAL
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 09/28/2023
DESIGN & CONSULTING & PROJECT MGT LI 590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
PROFESSIONAL STAMP
PROFESSIONA PROFESSIONA D. AP 03/31/24 SM/E OF CALLFORNIN 05/24/23 05/24/23
THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. © CLIENT
1320 W. Oleander Ave. Perris CA 92571-7408 VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768
ORIGINAL PC STATE AGENCY APPROVAL
APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121369 PC REVIEWED FOR SS I FLS I ACS I CG I DATE: 09/22/2023
Revision Schedule # Description Date
PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'
SHEET TITLE FRAMING SCHEDULES
PROJECT NUMBER
22088 DRAWN BY
rMc/SC CHECKED BY
JA/R I DATE
SHEET NO. S4.5
SHEET OF



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	Sheet List	
She Num		ALT-A.0.0         WUI COVER SHEET         C-23-2679 A/B         C-23-2716 A/B           ALT-01         WUI COMPLIANT NOTES         C-23-2680 A/B         C-23-2717 A/B           -         C-23-2681 A/B         C-23-2718 A/B
Cover	COVER SHEET	C-23-2681 A/B C-23-2718 A/B C-23-2682 A/B C-23-2719 A/B C-23-2683 A/B C-23-2720 A/B
A0.0 A0.0.1 A0.1	COVER SHEET PROJECT OPTIONS SCHEDULE TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,	C-23-2683 A/B C-23-2722 A/B C-23-2685 A/B C-23-2722 A/B C-23-2685 A/B C-23-2722 A/B
A0.1 A0.2 <del>A0.3</del>	SIGNAGE AND SYMBOLS DSA 103 T&I CONCRETE FLOORS	C-23-2686 A/B C-23-2723 A/B C-23-2687 A/B C-23-2724 A/B
A0.4 A0.5	DSA-103 T&I PLYWOOD FLOORS CALGREEN SPEC'S	C-23-2688 A/B C-23-2725 A/B C-23-2689 A/B C-23-2726 A/B
A0.6 A0.7	CAL GREEN CHECKLIST CAL GREEN CHECKLIST	(30) LH 24X40 C-23-2649 A/B C-23-2650 A/B C-23-2690 A/B C-23-2691 A/B C-23-2691 A/B C-23-2727 A/B C-23-2728 A/B C-23-2729 A/B C-23-2729 A/B C-23-2729 A/B
A0.8 Architectura	CAL GREEN CHECKLIST	C-23-2651 A/B C-23-2652 A/B C-23-2693 A/B C-23-2693 A/B C-23-2693 A/B
A1.0 <del>A1.1</del>	24x40 FLOOR PLAN 36x40 FLOOR PLAN	C-23-2653 A/B C-23-2654 A/B C-23-2695 A/B C-23-2695 A/B C-23-2695 A/B
A1.2 A2.1(A)	48x40 thru 120x40 FLOOR PLAN           ARCHITECTURAL DETAILS         (WOOD FRAMING SHTG FINISH)	C-23-2655 A/B         C-23-2696 A/B         C-23-2733 A/B           C-23-2656 A/B         C-23-2697 A/B         C-23-2734 A/B           C-23-2657 A/B         C-23-2698 A/B         C-23-2735 A/B
A2.1(B) A2.2	ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH) ARCHITECTURAL DETAILS (WOOD FRAMING PLASTER FINISH) ARCHITECTURAL DETAILS (1 HR WOOD FRAMING SHTG FINISH)	C-23-2658 A/B C-23-2659 A/B C-23-2659 A/B C-23-2700 A/B C-23-2737 A/B
<del>A2.5(A)</del> <del>A2.5(B)</del> A2.6	ARCHITECTURAL DETAILS (1 HR WOOD FRAMING SHTG FINISH) ARCHITECTURAL WUI DETAILS (1 HR WOOD FRAMING SHTG FINISH) ARCHITECTURAL DETAILS (1 HR WOOD FRAMING PLASTER FINISH)	C-23-2660 A/B C-23-2661 A/B C-23-2661 A/B C-23-2701 A/B C-23-2701 A/B C-23-2702 A/B C-23-2702 A/B C-23-2702 A/B
A2.9 A2.9.1	ARCHITECTURAL DETAILS (FLOOR) DETERIORATION PROT.NON-WOOD FINISH SIDING CONC FLOOR - WD STUDS	C-23-2663 A/B C-23-2664 A/B C-23-2704 A/B C-23-2704 A/B C-23-2704 A/B
A2.9.2 A2.9.3	DETORIORATION PRO. STUCCO EXTERIOR RINISH CONC FLOOR WD STUDS DETERIORATION PRO. NON-WOOD FINISH SIDING WOOD FLOOR - WD STUDS	C-23-2665 A/B C-23-2666 A/B C-23-2666 A/B C-23-2705 A/B C-23-2705 A/B C-23-2705 A/B C-23-2742 A/B C-23-2743 A/B C-23-2744 A/B
A2.9.4 A2.9.9	DETERIORATION PRO. STUCCO EXTERIOR FINISH WOOD FLR WD STUDS DETERIORATION T-111 EXTERIOR FINISH WOOD FLR WOOD STUDS	C-23-2668 A/B C-23-2669 A/B C-23-2707 A/B C-23-2707 A/B C-23-2744 A/B C-23-2745 A/B
A3.0 A3.0.1	ADDITIONAL FIRE RATING DETAILS AND NOTES FIRE SEPARATION & PENETRATION DETAILS	C-23-2670 A/B C-23-2671 A/B C-23-2710 A/B C-23-2710 A/B C-23-2746 A/B C-23-2747 A/B C-23-2711 A/B C-23-2748 A/B
A3.1 A3.1.1	SINGLE OCC. BATHROOM SINGLE OCC. BATHROOM AGE GROUP	C-23-2673 A/B C-23-2674 A/B C-23-2713 A/B
<del>A3.1.2</del> A3.2 A3.2.1	SINGLE OCC. BATHROOM COMBINED AGE GROUP RCP CEILING NOTES	C-23-2675 A/B C-23-2676 A/B C-23-2714 A/B
A3.2.1 A3.3 A3.4	CEILING NOTES CEILING DETAILS (T-GRID) CEILING DETAILS (GYP BOARD)	C-23-2677 A/B C-23-2678 A/B
A4.0.1 A4.0.2	ROOF PLAN MONO SLOPE (STANDING SEAM) ROOF PLAN DUAL SLOPE (STANDING SEAM)	WILDFIRE URBAN INTERFACE (WUI) CRITERIA:
A4.1 <del>A4.2.1</del>	ROOF DETAILS (STANDING SEAM)       ROOF PLAN MONO SLOPE (EPDM)	NOTE: BUILDING IS TO BE PLACED IN A WUI SITE IN A WUI SITE BUILDING REQUIREMENTS FOR: FIRE HAZARD SEVERITY ZONE CBC CHAPTER 1A.
A4.2.2 A4.3	ROOF PLAN DUAL SLOPE (EPDM) ROOF DETAILS (EPDM)	NOTE: BUILDING MATERIAL SYSTEMS, ASSEMBLIES AND METHODS OF CONSTRUCTION USED IN WUI AREAS SHALL BE IN ACCORDANCE WITH CBC CHAPTER 7A SHALL BE IN ACCORDANCE WITH CBC CHAPTER 7A Deck below requirements of Chemotry 20 and Che
<del>A4.4.1</del> A4.5 A5.0	ROOF PLAN w/ PARAPET MONO SLOPE (EPDM)         ARCHITECTURAL DETAILS (PARAPET)         SIDEWALL ELEVATION	<ul> <li>Roofs shall comply with the requirements of Chapter 7A and Chapter 15. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions. Roof assemblies in the Fire Hazard Severity Zones shall be Class A rating when tested in accordance with ASTM E108 or UL790</li> <li>ROOF PANELS AND ROOF DECKING. STANDING SEAM ROOF OVER ONE LAYER #15 ROOF FELT (CBC 705A.2)</li> </ul>
A5.0 A5.1 A5.2	ENDWALL ELEVATION ENDWALL ELEVATIONS INTERIOR ELEVATIONS	<ul> <li><sup>2</sup> Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter.</li> <li><sup>2</sup> ROOFGUTTERS: (C.B.C SECTION 705A.4) SHALL BE SCREENED WITH A CORROSION- RESISTANT</li> </ul>
A6.0 A6.0.1	SECTION - STANDING SEAM (MONO) SECTION - STANDING SEAM (DUAL)	<ul> <li>The exterior wall covering or wall assembly shall comply with one of the following requirements: Noncombustible material. Ignition-resistant material. Sawn lumber or due laminated wood with the smallest minimum nominal dimension of 4</li> <li>SOFFITS: (C.B.C SECTION 707A.5)</li> </ul>
<del>A6.1</del> A6.2	SECTION EPDM (DUAL)	inches (102 mm): Sawn or glue-laminated planks splined, tongue-andgroove, or set close together and well spiked. Log wall construction assembly. Wall assemblies that have been tested in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in ASTM E2707 with the conditions of acceptance EXTERIOR WALL FINISH: (C.B.C SECTION 707A.3)
<del>A6.3</del> <del>A7.0</del>	SECTION - EPDM (MONO) ADDITIONAL OPTION DETAILS	shown in Section 707A.3.1. Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM standard 12-7A-1. <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>
A7.1 A7.2	ADDITIONAL OPTION DETAILS ADDITIONAL OPTION DETAILS	Exterior windows and exterior glazed door assemblies shall comply with one of the following requirements: * Be constructed of multi pane glazing with a minimum of one tempered pane meeting the requirements of CEO Section 2406 Safety Glazing, or * Be constructed of glass block units, or * Have a life-resistance rating of not less than 20 minutes when tested according to NFPA 257, or * Be tested to meet the performance requirements of SFM Standard 12:7A-2.
MEP E0.1	ELECTRICAL GENERAL NOTES	5 Exterior doors shall comply with one of the following: The exterior surface or cladding shall be of noncombustible
E1.0 E1.1 <del>E1.2</del>	ELECTRICAL PLAN 24x40 ELECTRICAL SCHEDULES 24x40 ELECTRICAL PLAN 36x40	material. The exterior surface or cladding shall be of ignition-resistant material. The exterior door shall be constructed of solid core wood that <b>RESISTANT. NONCOMBUSTABLE WIRE MESH WITH 1/16</b> " (1.6MM) MIN. OPENINGS AND NOT TO EXCEDD 1/8" (3.2MM) <b>4</b> EXTERIOR WINDOWS: (C.B.C SECTION 708A.2.1)
E1.2 E1.3 E1.4	ELECTRICAL SCHEDULE 36x40 ELECTRICAL SCHEDULE 36x40 ELECTRICAL PLAN 48x40 thru 120x40	complies with the following requirements: Stiles and rails shall not be less than 13/8 inches thick. Panels shall not be less than 11/4 inches thick, except for the exterior perimeter of the panel that shall be permitted to taper to
<del>E1.5</del> M0.1	ELECTRICAL SCHEDULE 48x40 MISCELLANEOUS NOTES & DETAILS	a tongue not less than 3/8 inch thick. The exterior door assembly shall have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 252. The exterior surface or cladding shall be tested to meet the
M0.2 M2.9	MISCELLANEOUS NOTES & DETAILS 24'x40' T24 CZ 14 (WALL AC)	performance requirements of Section 707A.3.1 when tested in accordance with ASTM E2707. The exterior surface or cladding shall be tested to meet the performance requirements of SFM Standard 12-7A-1.
M2.10 M2.11	24'x40' T24 CZ 14 (WALL AC) 24'x40' T24 CZ 15 (ROOF AC)	
M2.12 M2.13 M2.14	24'x40' T24 CZ 15 (ROOF AC) 24'x40' T24 CZ 16 (WALL AC) 24'x40' T24 CZ 16 (WALL AC)	Acceptance tests be completed on newly installed or replacement of lighting controls, mechanical systems, fenestration, and process
M3.3 M5.1	ENVELOPE AND NOTES MECHANICAL CEILING PLAN 24x40	equipment before project completion per the California Energy Code Section 10-103. Acceptance tests must be performed by a certified
M5.2 M6.1	MECHANICAL ROOF MOUNT 24x40 MECHANICAL CEILING PLAN 36x40	Acceptance Test Technician (ATT). The Acceptance Testing procedures must be repeated, and deficiencies corrected until the
M6.2 M7.1	MECHANICAL ROOF MOUNT 36x40 MECHANICAL CEILING PLAN 48x40 thru 120x40	installation of the specified systems conform and pass the required acceptance criteria. Completed NRCA forms shall be submitted to the
<del>M7.2</del> P1.0	MECHANICAL ROOF MOUNT 48x40 thru 120x40 TYPICAL PLUMBING DETAILS	project inspector and the district.
Foundation F1.10 F1.11	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15 WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15	CODE     ADOPTED YEAR     ITEM       NFPA 13     2022     AUTOMATIC SPRINKLER SYSTEMS
F1.12 F1.13	WOOD FOUNDATION FLAN 24x40 BLDG W/ 50+15 WOOD FOUNDATION 36x40 BLDG W/ 50+15 WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15	NFPA 72 2022 NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS
F1.14 <del>F1.20</del>	MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 50+15 PSF WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF	NOTE: VISUAL DEVICES PER UL STANDARD 1971
F1.21 F1.22	WOOD FOUNDATION PLAN 24x40 BLDG W/ 100 PSF WOOD FOUDATION PLAN 36x40 BLDG W/ 100 PSF	THIS PC HAS A "PRE-DESIGNED" FIRE SPRINKLER SYSTEM INSTALLED. SEE BELOW FOR SITE REQUIREMENTS BY OWNER
F1.23 F1.24	WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF MODLINE "B" W/ EXTERIOR WALLS BACK TO BACK 100 PSF	IT IS THE OWNERS RESPONSIBILITY TO ENSURE THE MINIMUM FLOW (GPM AND PRESSURE (PSI)CAN BE ATTAINED AT THE BASE OF THE RISER AT TH
F1.30 F1.31 F1.32	WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF WOOD FOUNDATION PLAN 24X40 BLDG W/ 150 PSF WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF	PROPOSED SITE FOR EACH PROPOSED BUILDING. <u>THIS PC REQUIRES</u> MINIMUM GPM : 250
F1.32 F1.33 F1.34	WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF MODLINE "B" W/ EXTERIOR WALL BACK-TO-BACK 150 PSF	MINIMUM PSI: 35
F1.40 F2.10	WOOD FOUNDATION DETAILS CONCRETE FOUNDATION PLAN	FAILURE TO ATTAIN THE MIN GPM/PSI MAY NECESSITATE THE INSTALLATIO OF ONE OR MORE OF THE FOLLOWING ITEMS/EQUIPMENTS.
<del>F2.20</del> F2.22	CONCRETE FOUNDATION DETAILS CONCRETE FOUNDATION DETAILS	A. WATER TANK 1. FIRE PUMP 2. PACK UP FIRE SUPPLY
F2.23 Structural		2. BACK UP FIRE SUPPLY <b>B. ADDITIONAL UNDERGROUND FIRE LINE TAPS</b> <b>C. ALL OR ANY COMBINATION OF THE ABOVE OR ANY OTHERS AS REQUIRE</b>
S0.1 S1.0.1	STRUCTURAL GEN NOTES         WD SHTH'G FLR       FRM'G PLAN         (50+15 PSF)         WD SHTH'G FL P EPAMING PLAN CROSS STRAP OPT	TO ENSURE PROPER OPERATION OF THE AFSS
S1.0.4 <del>S1.1.1</del> S1.2	WD SHTH'G FLR FRAMING PLAN CROSS-STRAP OPT. CONC FLR FRM'G PLAN (50+15 PSF) STRUCTURAL DETAILS (FLOOR)	THE FOLLOWING MUST BE SUPPLIED TO DSA AT THE TIME OF SUBMITTAL WITH THE SITE PLAN FOR EACH PROPOSED BUILDING WITH AN AFSS. 1. MINIMUM GPM/PSI REQUIRED
<del>\$1.2</del> \$3.0.1 \$3.0.2	MONO SLOPE ROOF FRM'G PLAN DUAL SLOPE ROOF FRM'G PLAN	<ol> <li>WATER FLOW DATA (SEE DSA AFFS GUIDELINES)</li> <li>SITE PLAN SHOWING THE LOCATION OF THE "FLOW" AND "TEST" HYDRANTS (FULLY DIMENSIONED)</li> </ol>
<del>S3.0.3</del> S3.0.4	MONO SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.         DUAL SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.	4. ALL (NEW AND EXISTING) UNDERGROUND FIRE LINES/PIPING -LENG AND SIZE SHOWING LOCATION AND METHOD OF UNDERGROUND
S3.1 <del>S3.2</del>	STRUCTURAL DETAILS     (ROOF)       ROOF DETAILS (SOFFIT/PARAPET)	PIPING RESTRAINTS TO TEST HYDRANT 5. LOCATION OF ALL (NEW AND EXISTING) ; A. FIRE HYDRANTS
S3.3 S4.1	ROOF PERIMETER TRUSS         WD WALL       FRAMING ELEVATIONS	<ul><li>B. POST INDICATORS</li><li>C. FIRE DEPARTMENT CONNECTIONS</li></ul>
S4.2 S4.4	WALL DETAILS (WOOD FRAMING) TYP FRAMING	<ul> <li>D. PRESSURE REDUCERS</li> <li>E. BACK-FLOW PREVENTION/DETECTOR CHECK VALVES</li> <li>F. OTHER FIRE RELATED ITEM/EQUIPMENTS APPLICABLE</li> </ul>
S4.5 <del>S5.0</del>	FRAMING SCHEDULES LONG. SECTION (MONO)	6. HYDRAULIC CALCULATIONS FOR THE UNDERGROUND PIPING WITH THE AVAILABLE GPM/PSI AT THE BASE OF EACH AFSS RISER (MUST
S5.1	LONG SECTION - (DUAL) AWNING FRAMING	MEET OR EXCEED MIN REQ'T) 7. ANY CHANGES TO THE CONFIGURATION (WALLS,CEILINGS,
<del>S6.0</del> Grand total		CONSTRUCTION TYPE) OR OCCUPANCY OF THE PC WILL

# **STOCKPILE # 340**

(100) 24X40

## (30) LEFT HAND DOOR ENTRY (70) RIGHT HAND DOOR ENTRY

# HIGH SEISMIC DESIGN CRITERIA FILE #: PC-128 2022 CBC

# PC # 04-1213 24' x 40' EXPANDABLE

NTERLOCKED #15 ROOF FELT. 6MM) OPENINGS ROTECTION OFFICE HANDBOOK EDD 1/8" (3.2MM) A.2.1) SEMBLE OF FIRE

) B	AT ANCHOR BOLT	FIXT FJT
BC BV	AGGREGATE BASE COURSE ABOVE	FLR FLUR
D DD	AREA DRAIN ADDENDUM	FLEX FND
DH	ADHESIVE	FO*
dj Doh	ADJACENT, ADJUSTABLE ALTERNATE DIRECTION	FP FP'G
FF	OF HOOK ABOVE FINISHED FLOOR	FR FRC
GG LT	AGGREGATE ALTERNATE	FRGD FRMG
LUM	ALUMINUM CHOR (AGE)	FT FTG
NOD	ANODIZED	FURR
PPRX RCH	APPROXIMATE ARCHITECT (URAL)	FV
SPH UTO	ASPHALT AUTOMATIC	ga Galv
	BOTTOM	GC GI
B C	BOND BEAM BOTTOM CHORD	GKT GL
D EG	BOARD	GLM
EL	BEGIN (ING) BELOW	GP GPM
IT JT	BITUMINOUS BED JOINT	GPPL GRVL
LDG LK	BUILDING BLOCK ('G, ING)	GRD GRN
LW M	BELOW	GSS GT
MK O*	BENCH MARK BOTTOM OF	GVL GWB
PL	BEARING PLATE	GYP
RD RDG	BOARD BRIDGING	н
RG RK	BEARING BRICK	HBD HC
RZ S	BRONZE BOTH SIDES	HD HDNR
TWN VL	BETWEEN BEVELED	HDR HDWR
W	BOTH WAYS	HDWD
	CHANNEL, COMPRESSION	HES HH
AD AM	CADMIUM CAMBER	HJT HK
/C EM	CENTER TO CENTER CEMENT	HM HORIZ
F	CUBIC FOOT	HPT
HAM	CHAMFER CAST IRON	HR HSA
IP IR	CAST-IN-PLACE CIRCLE	HSB HT
IRC J	CIRCUMFERENCE CONSTRUCTION JOINT	HWD
JT LG	CONTROL JOINT CEILING	ID
LK LKG	CAULK, ('G, ING) CAULKING	IN INCL
LR	CLEAR	INSUL
	CLOSURE CENTIMETER	INT INTM
MU	CORRUDATED METAL PIPE CONCRETE MASONRY UNIT	INV
NTR	CENTER COLUMN	JST JT
	CENTER OF GRAVITY MBINATION	к
OMP CO	MPRESS (ED)(ION)(IBLE)	KO KSI
ONN	CONNECT (ION) CONCETE CONSTRUCT (ION) (ED) CONTINUE, CONTINUOUS CONTRACTOR	
ONST	CONSTRUCT (ION) (ED)	L LAM
ONTR	CONTINUE, CONTINUOUS CONTRACTOR	LB LBL
UK	CORRUGATED COMPLETE PENETRATION	LC LD
PG PR	COPING COPPER	LF LH
	COURSE (S)	LLH
S	COUNTERSINK	LLV
U	COUNTERSUNK SCREW CUBIC	LPT LT
X Y	CONNECTION CUBIC YARD	LTL LVL
1	DEEP, DEPTH	LW LWC
BL	DOUBLE	LWF
EG	DEFLECTION DEGREE DEMOLISH, DEMOLITION DEPRESSED	М
EM0 EP	DEMOLISH, DEMOLITION DEPRESSED	MATL MAS
ET	DEPARTMENT DETAIL	MAX MB
IAG IA	DIAGONAL DIAMETER DIMENSION (ED) DIVISION DEAD LOAD	MBR MCON
IM IV	DIMENSION (ED)	MECH MED
L N	DEAD LOAD DOWN	MET MEMB
0	DITTO	MEP
WL	DAMPROOFING DOWEL (ED)	MFD
WG	DRAWING, (S)	MFR MID
	EAST, MODULUS OF ELASTICITY	MIN MISC
	EACH EXPANSION BOLT	MM MMB
F	EACH FACE EXPANSION JOINT	MO
1	ELEVATION	MOD MODU
LEC NCL	ELECTRIC (AL) ENCLOSURE, ENCLOSED ENGINEER	MOV MTL
NG Q	ENGINEER EQUAL, EQUALIBRIUM	N
QUIP STM	EQUIPMENT ESTIMATE (ED)	NAT NL
V W	EXPANSION BOLT EACH WAY	NMT NO
XCA	EXCAVATE (D) (ION)	NOM
E), EXIST XMP	EXISTING EXPANDED METAL PLATE	NTS
XP	EXPOSED	OA

FIXTURE FLUSH JOINT FLOOR FLUORESCENT FLEXIBLE FACE OF \_\_\_\_\_\_ FIREPROOF (ED) FIREPROOFING FRAME (D)(ING) FRAME (U)(ING) FIRE RESISTANT COATING FORGED FRAMING FOOT, FEET FOOTING FURRED, FURRING FIELD VERIFY GAUGE GALVANIZED GENERAL CONTRACTOR GALVANIZED IRON GASKET GLASS, GLAZING GLULAM GALVANIZED PIPE GALLONS PER MINUTE GYPSUM PLASTER GRAVEL, GRANULAR GRADE, GRADING GRANITE GALVANIZED SHEET STEEL GROUT GYPSUM WALLBOARD GYPSUM HIGH H HBD HC HDNR HDNR HDWR HDWD HES HH HJT

FIXT FJT FLR FLUR FLEX FND FO\* FP FP'G FR FRGD FRGD FRMG FT FTG FURR

GA GALV GC

HK HM HORIZ HPT HR

HWD

OHWS

FLATHEAD MACHINE SCREW OPNG OPENING FIRE HOSE STATION OPP OPPOSITE FLATHEAD WOOD SCREW OFOI OWNER FURNISHED OWNER INSTALLED

EXPANSION

FASTENER

FINISH (ED)

FLOOR DRAIN

EXS EXT

FBO FD FHMS FHS FHWS FIN

EXTRA STRONG

EXTERIOR, EXTERNAL

FURNISHED BY OTHERS

HEAVY DUTY HARDENER HEADER HARDWARE HARDWOOD HIGH EARLY STRENGTH CEMENT HANDHOLE HOOK HOLLOW METAL HORIZONTAL HIGH POINT HOUR HEADED STUD ANCHOR HIGH STRENGHT BOLT HEIGHT HARDWOOD INSIDE DIAMETER

HARDBOARD HOLLOW CORE

INCHE (ES) INCLUDE (D), INCLUDING INCL INSUL INT INTM INV INSULATE, INSULATION INTERIOR INTERMEDIATE INVERT JOIST JOINT KIP (S)

> KNOCKOUT KIPS PER SQUARE INCH LONG, LENGTH LAMINATE (D) POUND, LAG BOLT LABEL LIGHT CONTROL DEVELOPMENT LENGHT LINEAR FOOT LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT

LINTEL LEVEL (ING) LIGHT WEIGHT LIGHT WEIGHT CONCRETE LIGHT WEIGHT FILL METER (S) MOMENT MATERIAL MAXIMUM MACHINE BOLT MBR MEMBER MCONN MOMENT CONNECTION MECH MED MET MECHANICAL

METAL MEMB MEMBER MECHANICAL, ELECTRICAL, & PLUMBING METAL FLOOR DECKING MANUFACTURE (R) (ED) MID, MIDDLE MINIMUM, MINUTE MISCELLANEOUS MILLIMETER (S) MMB MO MOD MODU MEMBRANE MASONRY OPENING MODEL MODULAR MOVABLE

> NORTH, NEW NATURAL NAILABLE NONMETALLIC NUMBER NOMINAL NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OVERHEAD OVALHEAD MACHINE SCREW OVALHEAD WOOD SCREW OPEN-WEB JOINT (S) OPPOSITE HAND

PAR PARALLEL PBD PARTICLE BOARD PCC PRECAST CONCRI PCF POUNDS PER CUB PCS PIECES PERF PERFORATE (D) PERI PERIMETER PFB PREFABRICATE (D' PFS POUNDS PER SQU. PL PLATE PLBG PLUMBING PLF POUNDS PER LINE/ P.L. PARALLAM PLWD PLYWOOD PMT PAVEMENT PNL PANEL POSTEN POST TENSION (D) PRETEN PRETENSIONED POLY POLYETHYLENE PR PAIR PRJ PROJECT PSC PRESTRESSED CON POUNDS PER SQUARE FOOT PLATE PLUMBING POUNDS PER LINEAR FOOT PRESTRESSED CONCRETE PSC PSF POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PRESSURE TREATED PTC PTD PVC PVMT POST-TENSIONED CONCRETE PAINTED POLYVINYL CHLORIDE PAVEMENT

QTY

RAD RD RECT REF REINF REM REQD REQS RETG REV RFG

RFH RFL

RTG RVS RVT

SCHED SDL SDS

SDST SECT SE

SHO SHT SHTH

SI SIM

SLNT SMS

SOG SPA

TEN TEMP THD THK TMPD TO\*

TS TYP

UGD

UND UNF UNO

VB VER

VERT VG VIF

VNR V.T.R.

W/O WD

WM WP

WPR

WPT

WS WT

WTW WWF WWM

W

PARALLEL PARTICLE BOARD PRECAST CONCRETE POUNDS PER CUBIC FOOT

QUANTITY RADIUS, RISER RADIUS ROOF DRAIN RETANGULAR REFERENCE, REFER TO REFORCE (D) (ING) REMOVE REMOVE REQUIREMENTS REVISION, REVISED ROOFING ROOF HATCH REFLECT (ED)(IVE)(OR) ROOM ROUGH OPENING

RATING REVERSE SIDE RIVET SOUTH SOUTH SOLID CORE SCHEDULE SUPERIMPOSED DEAD LOAD SELF DRILL SCREW STRUCTURAL ENGINEER

SQUARE INCH SIMILAR SLOPE SEALANT SHEET METAL SCREW SLAB ON GRADE SPACE, (ING) SPACER SPACER

SPA SPACE, (ING) SPC SPACER SPEC SPECIFICATION (S) SQ SQUARE SSTL STAINLESS STEEL STG STAGGERED STD STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURE STR STRUCTURAL SYM SYMETRICAL, SYMETRY SYS SYSTEM

TOP, TORSION, TREAD TOP AND BOTTOM TONGUE AND GROOVE TOP CHORD TESION, TENSILE TEMPORARY, TEMPERATURE THREAD (ED) THICK (NÈSS) TEMPERED TOP OF TOTAL LOAD TREAD TUBE STEEL

UNDERCUT UNDERGROUND UNDEREWRITERS LABORATORY UNDER UNFINISHED UNLESS NOTED OTHERWISE

SHEAR FORCE, VELOCITY VAPOR BARRIER VERIFY VERTICAL VERTICAL GRAIN

VENEER VENT THROUGH ROOF WEST, WIDTH, WIDE, WIDE FLANGE WITH WITHOUT WOOD

WATER REPELLENT WORKING POINT WATER STOP WEIGHT WALL TO WALL (W/W) WELDED WIRE FABRIC WELDED WIRE MESH

FIRE RETARDANT TREATED RUBBER TILE

SELF-DRILL, SELF-TAP'G SCREW SECTION SQUARE FOOT, SQUARE FEET SHORE, SHORING SHEET SHEATHING

TYPICAL

VERIFY IN FIELD V-JOINTED

WROUGHT IRON WIRE MESH

"Changes to the Division of the State Architect-approved drawings and specifications shall be made by Addenda or Construction Change Documents for changes to the structural, accessibility or fire-safety portions of the project. Changes shall be submitted to and approved by DSA prior to commencement of the work shown thereon (CAC 4-338 (c))."

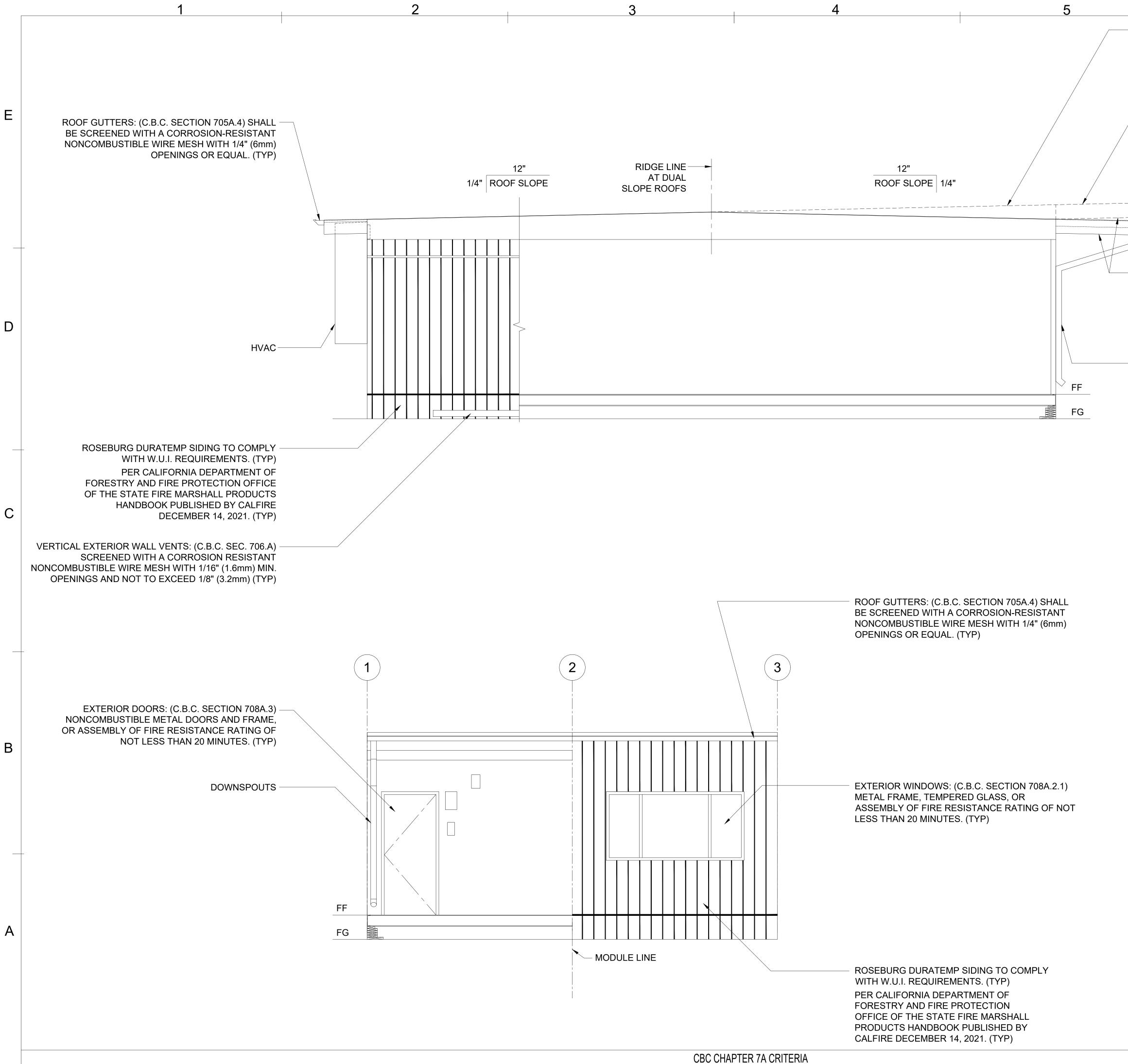
CONSTRUCTION OF CLASSROOM BUILDING (RELC SCOPE OF WORK BUILDING DESIGN  $\sim \sim \sim$ NUMBER OF STORIES: 1 OCCUPANCY: CONSTRUCTION TYPE: **FLOOR LIVE LOAD:** X 50+15 PSF PARTITION □ 100 PSF □ 150 PSF FLOOR DEAD LOAD: X WOOD FLOOR - 11 PSF CONC. FLOOR - 33 PSF ROOF LIVE LOAD: 20 PSF **ROOF SNOW LOAD:** 0 PSF ROOF DEAD LOAD: 18.5 PSF (INCLUDES SPRINKLERS & 3PSF SOLAR RAMPLIVE LOAD: 100PSF FLOOD DESIGN: This PC has not been designed to accommodate floor zone other than X, a letter stamped and signed from a soils engineer is needed allowable soil values assumed in this PC are still applicable. (OWNER SUPPLI FLOOD DESIGN DATA: PROJECT NOT LOCATED IN A FLOOD ZONE BUILDING AREA NO OVERHANG WITH OVERHANG (5' @ E ALLOWABLE AREA □ 24x40 960 sf X 24x40 1200 sf =9,500 sf □ 36x40 1440 sf □ 36x40 1800 sf ACTUAL AREA □ 48x40 1920 sf □ 48x40 2400 sf =4,800 SF □ 60x40 2400 sf □ 60x40 3000 sf □ 72x40 2880 sf □ 72x40 3600 sf □ 84x40 3360 sf □ 84x40 4200 sf\* □ 96x40 3840 sf □ 96x40 4800 sf\* □ 108x40 4320 sf\* □ 108x40 5400 sf\* □ 120x40 4800 sf\* □ 120x40 6000 sf\* Geo-hazard site specific report must be provided and approved by CGS for built 4000 sf ALLOWABLE SOIL PRESSURE: XWOOD FTG -1000PSF CONC X WOOD (conditional) FOUNDATION: □ CONCRETE BELOW GRADE <2160sf (conditional) □ CONCRETE BELOW GRADE (AMM\*\*) \*\*SEE GENERAL NOTE 14 BELOW PC IS DESIGNED BASED ON A PINNED CONNECTION TO THE FOUNDATION CEC CLIMATE ZONE: 1-16 CZ 1-2 RIGID R-10 / 2" 🕱 CZ 3-15 RIGID R-5 / 1" 🗆 CZ 16 RIGID R-15 / 4" WIND DESIGN **JLTIMATE DESIGN SPEED:** Vult = 110 mph, 3 sec GUST, Kzt = 1.0 **RISK CATEGORY:** EXPOSURE: С SEISMIC DESIGN Design based on Site Class D<sub>default</sub> No geotechnical investigation required Ss = <u>2.33</u> Fa = 1.2 Design based on site class determined per chapter 20 of ASC Geotechnical investigation provided Site Class: C D E Ss = \_\_\_\_ Fa = \_\_\_\_ per ASCE 7-16 Suppl 3, Table 1 Design based on site specific ground motion hazard analysis per chapter 21 of ASCE 7-16 Short-period design spectral response parameter, S<sub>DS</sub>, shall I specified in geotechnical investigation CGS approval required Not eligible for OTC review Site Class: C D E  $S_{DS} = 2/3 \text{ Fa } Ss = \frac{1.864}{1.305}$ Site Class C or D:  $0.7 \times S_{DS}^* = 0.7 \times \frac{1.864}{1.305} = \frac{1.305}{1.307}$ Site Class E:  $S_{DS} = \_ \le 1.307$  $C_{\rm S} = 0.373$  used in design Seismic Design Category: D X E \* Site specific S<sub>DS</sub> value before applying reduction allowed by ASCE 7 section 12.8.1.3 BASIC SEISMIC FORCE-RESISTING SYS: OMF, R = 3.5 EQUIVALENT LATERAL FC ANALYSIS PROCEDURE: WOOD FLOOR, LL ≤ 100, BASE SH BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL = 150, BASE SH CONC. FLOOR, LL ≤ 100, BASE SH CONC. FLOOR, LL = 150, BASE SH <sup>r</sup> This design does not require a ground motion hazard analysis because it meet Exception #2. Cs is determined by Eq. (12.8-3) for values of T< 1.5Ts \* Geo-hazard report with verification of site class D must be provided and appro specific areas with Ss > 1.76.

"Fire safety during demolition and

Chapter 33 and CFC Chapter 33."

construction shall comply with CBC

		PROJECT SPECIFIC STATE AGENCY APPROVAL
lass	APPROVED DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS ☑ FLS ACS D DATE: 11/20/2023	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP. 04-122805 INC: REVIEWED FOR SS I FLS ACS DATE: 09/28/2023
CLASSROOM BUILDING (RELOCATABLE) F CLASSROOM BUILDING (RELOCATABLE) F UNCURES PSF PARTITION SF 150 PSF D FLOOR - 11 PSF 2 FLOOR - 11 PSF 2 FLOOR - 33 PSF F (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL) F (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL) F (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL)		<image/> <text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>
CT NOT LOCATED IN A FLOOD ZONE         ERHANG       WITH OVERHANG (5' @ EA. END)         960 sf       ¥ 24x40 1200 sf         1440 sf       36x40 1800 sf         1920 sf       48x40 2400 sf         2400 sf       60x40 3000 sf         2880 sf       72x40 3600 sf         3360 sf       84x40 4200 sf*         3840 sf       96x40 4800 sf*         0 4320 sf*       108x40 5400 sf*         0 4800 sf*       120x40 6000 sf*         0 ust be provided and approved by CGS for building area more than         X WOOD FTG -1000PSF       CONCRETE FTG 1500PSF	APPLICABLE STANDARDS For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.           REQUIRED PV SYSTEM SIZE (kW)           BUILDING SIZE           CLIMATE           24'x40'           60'           ABVILDING SIZE           ONE           BUILDING SIZE           APPROXIMATE CONDITIONED FLOOR AREA           960           960	VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768 ORIGINAL PC STATE AGENCY APPROVAL
D (conditional) CONCRETE ABOVE GRADE CRETE BELOW GRADE <2160sf (conditional) CRETE BELOW GRADE (AMM**) GENERAL NOTE 14 BELOW PINNED CONNECTION TO THE FOUNDATION.	NONE         1440         1920         2400         2880         3360         3840         4320         4800           1         NONE         NONE         NONE         NONE         NONE         4.3         4.9         5.5         6.1           2         NONE         NONE         NONE         NONE         4.7         5.5         6.3         7.0         7.8           3         NONE         NONE         NONE         NONE         NONE         4.3         4.9         5.5         6.1           4         NONE         NONE         NONE         NONE         NONE         4.3         4.9         5.5         6.1           6         NONE         NONE         NONE         NONE         4.3         4.9         5.5         6.1           6         NONE         NONE         NONE         NONE         4.7         5.5         6.3         7.0         7.8           7         NONE         NONE         NONE         4.7         5.5         6.3         7.0         7.8           9         NONE         NONE         NONE         4.7         5.5         6.3         7.0         7.8           10	Revision Schedule # Description Date 2 CCD_002 11/2/2023 PRE-CHECK (PC) DOCUMENT
on Site Class $D_{default}$ al investigation required Fa = 1.2 on site class determined per chapter 20 of ASCE 7-16 nvestigation provided C D D E Fa = per ASCE 7-16 Suppl 3, Table 11.4-1 on site specific ground motion hazard analysis apter 21 of ASCE 7-16 esign spectral response parameter, S <sub>DS</sub> , shall be as ied in geotechnical investigation required	NOTES: FOR SITE-SPECIFIC PROJECT, INDICATE BUILDING SIZE AND PV SYSTEM SIZE. IF PV REQUIRES, SEE NOTE 15 UNDER GENERAL NOTES. PV SIZING CHART CODE ADOPTED YEAR ITEM NFPA 13 2022 AUTOMATIC SPRINKLER SYSTEMS NFPA 72 2022 NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS NOTE: VISUAL DEVICES PER UL STANDARD 1971 GENERAL NOTES	Code: 2022 CBC A separate project application for construction is required PROJECT TITLE PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'
required         OTC review         C       D       E $\underline{64}$ $0.7 \times S_{DS}^* = 0.7 \times 1.864 = 1.305 \le 1.307$ $S_{DS} = \ \le 1.307$ design         gory:       D         D       X         E         value before applying reduction         ection 12.8.1.3	<ol> <li>ARCHITECT OF RECORD SHALL PROVIDE FIRE ALARM DRAWINGS WITH SITE ADAPTED PROJECTS. FIRE ALARM IS NOT PART OF THIS PC.</li> <li>THIS PC HAS BEEN STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM</li> <li>ALLOWABLE AREA IS BASED ON 10'-0" SETBACK FROM ASSUMED LINE</li> <li>PC DESIGNED AS A SINGLE-STORY MODULAR BUILDING</li> <li>SEE STRUCTURAL FOR SOIL TYPES &amp; BEARING STRENGTHS</li> <li>WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS</li> <li>THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USAGE</li> <li>EXTERIOR PROJECTIONS TO BE FIRE PROTECTED WHERE REQUIRED</li> <li>SEE A0.5 AND ENGERY CALC M-SHEETS FOR REQUIRED ENVELOPE ASSEMBLIES &amp; HVAC SYSTEMS</li> </ol>	SHEET TITLE COVER SHEET PROJECT NUMBER
EQUIVALENT LATERAL FORCE ULE: WOOD FLOOR, LL ≤ 100, BASE SHEAR= 20.04 kip WOOD FLOOR, LL = 150, BASE SHEAR= 26.71 kip CONC. FLOOR, LL ≤ 100, BASE SHEAR= 26.07 kip CONC. FLOOR, LL = 150, BASE SHEAR= 36.36 kip round motion hazard analysis because it meets ASCE -15, 11.4.7 y Eq. (12.8-3) for values of T< 1.5Ts tion of site class D must be provided and approved by CGS for site	<ol> <li>ALL SPECIFICATIONS BASED ON PERFORMANCE AND ABLE TO BE SUBSTITUTED BY "EQUAL" PRODUCTS"</li> <li>BUILDINGS TO COMPLY WITH WILDLAND URBAN INTERFACE GUIDELINES WHERE APPLICABLE</li> <li>BUILDING AND SITE FEATURES MUST COMPLY WITH CALGREEN CODE FOR ITS SPECIFIC LOCATION WHEN ADAPTED FOR SITE-USE</li> <li>SHOULD THIS P.C. CLASSROOM BE DESIGNED TO CONNECT TO ANOTHER P.C. CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE WALL AND FLOOR-CEILING ASSEMBLY MUST MEET A MINIMUM STC OF 40 PER CALGREEN</li> <li>*14. THE CONCRETE BELOW GRADE FOUNDATION (AMM) OPTION IN THIS PC USES A DSA-APPROVED ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS OF CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTIVE BARRIER ON WALLS</li> </ol>	22088 DRAWN BY rMc/SC CHECKED BY RH/RT DATE
lition and y with CBC apter 33."	<ul> <li>DOWN TO THE FOUNDATION, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES.</li> <li>15. PC DOESN'T INCLUDE THE DESIGN OF PV RACK SYSTEM ON ROOF- A SEPARATE DESIGN AND DSA APPLICATION WILL BE REQUIRED. PV ON ROOF WILL NOT BE ALLOWED FOR OTC APPLICATION</li> </ul>	SHEET NO. ALT-A0.0 SHEET OF



<ul> <li>ROOF COVERING: (C.B.C. SECTION 705A) 26GA.</li> <li>GALV. STEEL (NONCOMBUSTIBLE) INTERLOCKED STANDING SEAM ROOF PANEL W/ NO SPACE BETWEEN ROOF PANELS AND ROOF DECKING. STANDING SEAM ROOF OVER ONE LAYER OF #15 ROOF FELT. (C.B.C. 705A.2) (TYP)</li> <li>(ALL GAPS MUST BE SEALED FROM ANY OUTSIDE DEBRIS)</li> <li>MONO-SLOPE ROOF DESIGN WHERE APPLICABLE</li> </ul>	IDENTIFICATION STAMP   DIV. OF THE STATE ARCHITECT   APP. 04-122805   INC:   REVIEWED FOR   SS   DATE:   09/28/2023     REVISIONS   BY     1   2   3   4   5   6   7   8
<ul> <li>SOFFITS: (C.B.C. SECTION 707A.5) ROSEBURG DURATEMP SIDING (TYP)</li> <li>SOFFIT VENTS: (C.B.C. SEC. 706.A) SCREENED WITH A CORROSION RESISTANT NONCOMBUSTIBLE WIRE MESH WITH 1/16" (1.6mm) MIN. OPENINGS AND NOT TO EXCEED 1/8" (3.2mm) (TYP) (MESH TO BE TESTED TO ASTM E2886)</li> <li>DOWNSPOUTS</li> </ul>	161162       1611633       1611633
	AOR
	SHEET TITLE: DATE: DRAWN BY: Gama B. SCALE: AS SHOWN JOB: - SHEET NO: ALT-01
SCALE: 3/8" = 1'-0" 1	

LIST OF APPLICABLE CODES 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC). PART 10. TITLE 24 CCR 2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

## APPLICABLE STANDARDS

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

\*CALIFORNIA ADMINISTRATIVE CODE, PART1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

#### GENERAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT(CCD) BY DSA AS REQUIRED BY SECTION 4-338 PART1, TITLE 24, CCR

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT(OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. DUTIES OF INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1 TITLE 24, CCR

COMPLETE ACCESS IS A DIVISION OF INTEGRATED STAIR SYSTEMS INC. WITH CORPORATE OFFICES LOCATED IN 1345 RYAN RD, BUCKLEY, WA 98321, (360) 829-4220

#### **DESIGN LOADS** LIVE LOAD:

HANDRAIL IMPACT: HANDRAIL DIST. LOAD:

**RISK CATAGORY:** 

MATERIALS

SQUARE STEEL TUBE

RAMP OVERHANG POST

SEISMIC: LATERAL RESISTING SYST: WIND: SEIS IMPORTANCE FACTOR: le=1.25, lw=1.0 Cs=1.493 DESIGN BASE SHEAR, V: SNOW LOAD:

100 PSF (4.8 kPa) 200 LBS (0.9kN)

Ss=2.80g, S1=1.99g, R=1.25, SITE CLASS D OTHER STRUCTURES SIMILAR TO BUILDINGS 110 MPH, 3 SEC GUST EXPOSURE "C", Kzt=1.0 1493 W 0 PSF (0 kPa) SOIL ALLOWABLE BEARING: 1,000 PSF (4.8 kPa

50 PLF (0.7 kN/m)

#### RAMP NOTES

RAMPS SHALL CONFORM TO CBC 2022 TITLE 24 PART 2, CHAPTER 11B, 11B-405

RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8% SLOPE) FOR A MAXIMUM RISE OF 30" (762MM)

THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM) MAXIMUM

4) RAMPS SHALL HAVE LANDING AT BOTTOM AND TOP OF EACH RAMP RUN

5) THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION

6) LANDING SHALL HAVE A WIDTH AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL @ TOP LANDING - 72" MIN @ BOT LANDING

7) CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM x 1829MM) MINIMUM, WITH WITH THE LENGTH BEING IN THE DIRCTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION

8) MANEUVERING CLEARANCE ON LANDING ADJACENT TO DOORWAYS SHALL BE NO LESS THAN 42" WITH DOOR IN ANY POSITION AND SHALL NOT BE REDUCED BY MORE THAN 3" WHEN DOOR IS FULLY OPENED

9) WALKING SURFACE SHALL BE ROUGHED OR SHALL BE OF SLIP RESISTANT DIAMOND PLATE ALUMINUM AND ALL LANDINGS TO BE DESIGNED TO NOT RETAIN STANDING WATER - 2.083 MAX SLOPE ANY DIRECTION

#### ADDITIONAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

#### SCOPE OF WORK

1. TYPE

CONSTRUCTION OF RAMP AND STAIRS BUILDINGS (RELOCATABLE) DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC Application Number School Name

	Increment Number:	Date created:
DSA File Number:	Increment Number	Date Created:
Application Number:	School Name:	SCHOOLDISTLICT:

2022 CBC

2. PERFORMED BY

**IMPORTANT**: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

ASTM A513 GR. C	Fy= 33 KSI (345 MPa	<b>**NOTE:</b> Undefined section and table references found in this document are from the CBC, or Cali
ASTM A500 B	Fy= 46 KSI	KEY TO COLUMNS

\*ALL STEEL TO BE COATED WITH GALVANIZED RUST INHIBITING COATING

WOOD FOUNDATION SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESSURE TREATED HEM-FIR #2 AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT.

#### <u>WELDS</u>

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL AND AWS D1.2 AND A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

#### BOLTS, SCREWS AND NAILS

STEEL TO STEEL CONNECTIONS: ASTM A307 CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3. FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING. ALL STEEL MEMBERS IN CONTACT WITH ALUMINIUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION.

STEEL TO STEEL & WOOD CONNECTIONS: ANSI/ASME STEEL LAG SCREWS, STEEL STANDARD WOOD SCREWS, WOOD TO WOOD CONNECTION: ASTM STANDARD COMMOM STEEL NAIL.

ITW RED HEAD CONCRETE WEDGE ANCHORS SHALL BE INSTALLED PER **RECOMMENDATION SHOWN IN ESR-2427** 

#### HANDRAIL NOTES:

MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 42" TYPICAL (610MM) MINIMUM WITH 60" (1524MM) MINIMUM LANDING IN FRONT OF DOOR.

HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON BEYOND TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER. AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND THE BEGINNING AND ENDING OF RAMPS

TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE, ONE CONSISTENT HEIGHT, BEIGINNING TO END.

CLEARANCE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).

GUARDS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50 PLF (0.7 kN/m) APPLIED HORIZONTALLY @ HANDRAIL HEIGHT.

HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" (31.75MM) MINIMUM AND NOT GREATER THAN 2" (51MM) MAXIMUM. 11B-505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (102 MM) MINIMUM AND 61/4 INCHES (159 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 ¼ INCHES (57 MM) MAXIMUM.

8) SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES.

HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS. 9)

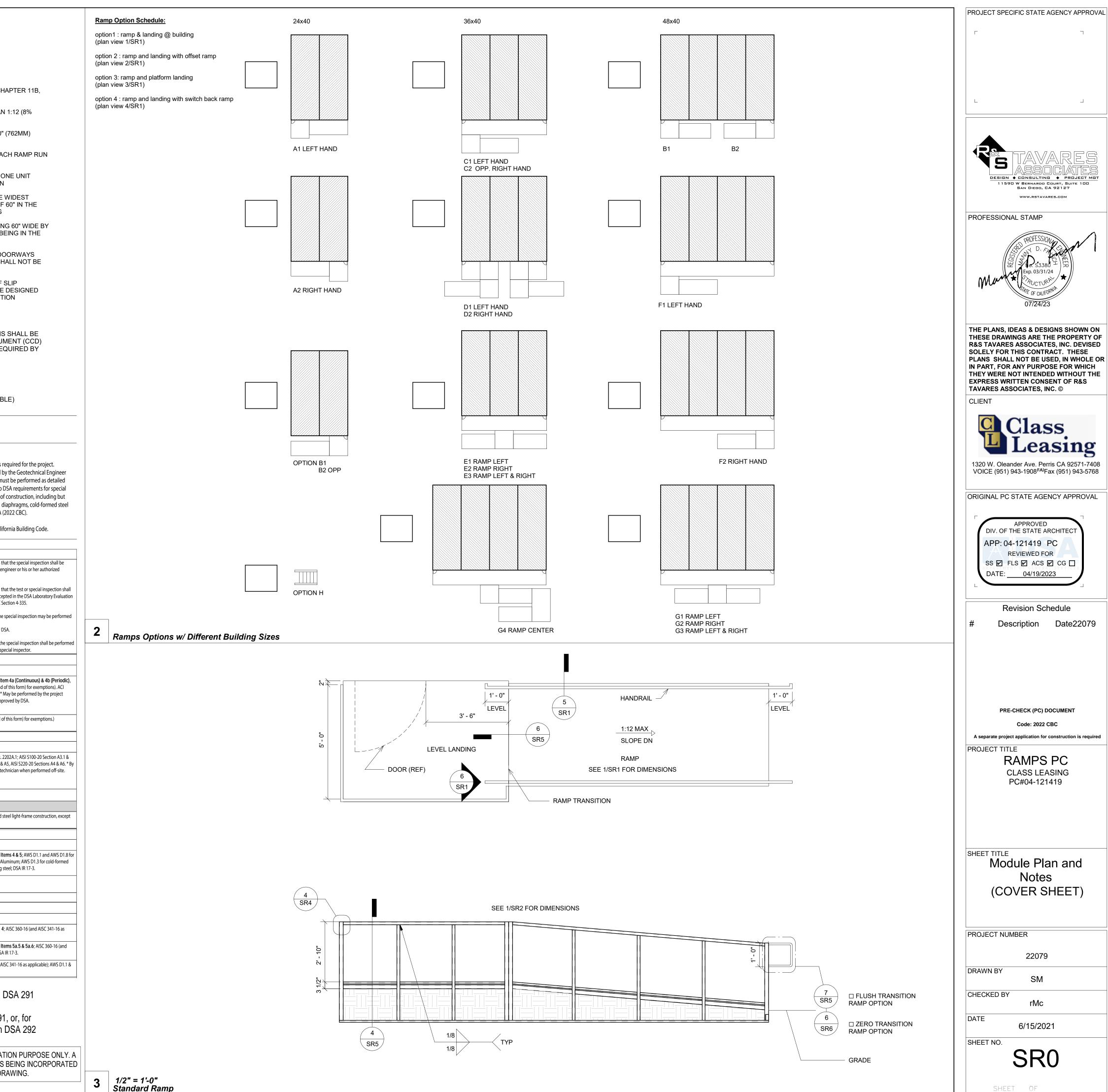
ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR 10) PÓST

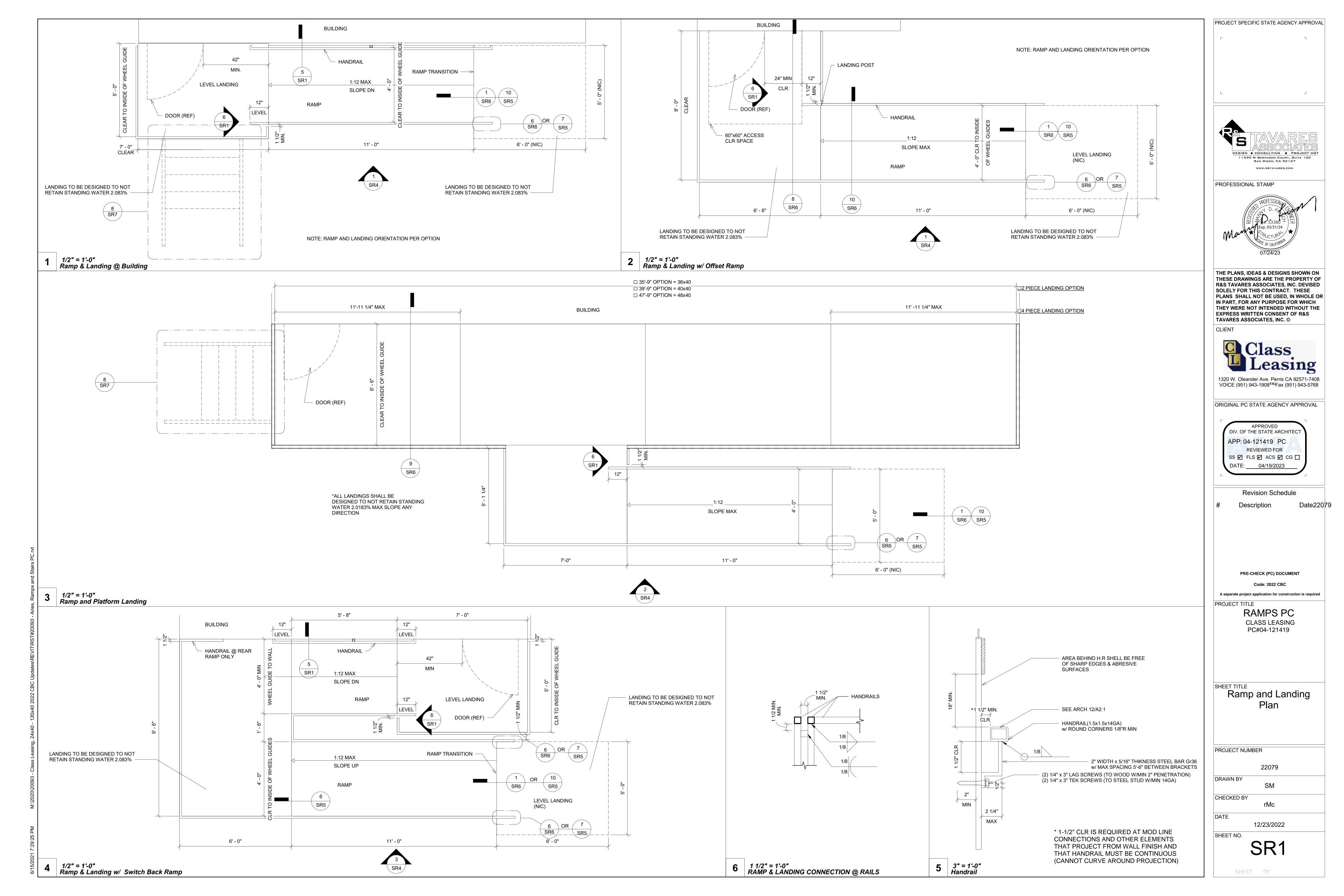
1 1/2" = 1'-0" Notes

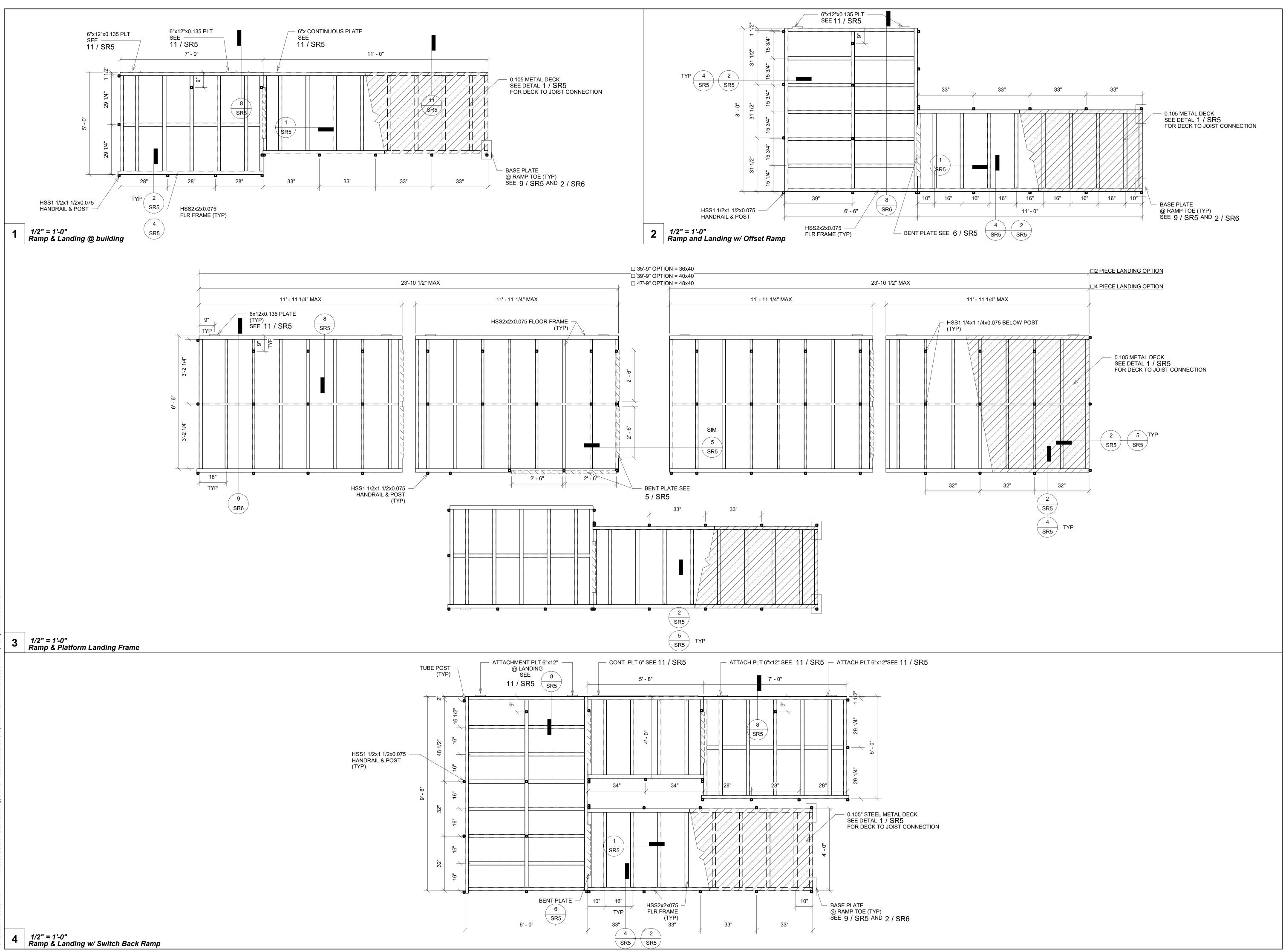
<b>Con</b> requ	<b>tinuous</b> – Indicates that a continuous special inspection is ired		performe represen LOR (Lal	technical Engineer) – Indicates that the sp ed by a registered geotechnical engineer or tative. Doratory of Record) – Indicates that the tes rmed by a testing laboratory accepted in th
	<b>odic</b> – Indicates that a periodic special inspection is required – Indicates that a test is required		and Acce PI (Proje by a proj inspecto SI (Speci	eptance (LEA) Program. See CAC Section 4-3 ect Inspector) – Indicates that the special in
	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Co 1705A.3.8 (See Appendix (end of this for 318-14 Sections 17.8 & 26.13. * May be pe inspector when specifically approved by l
	<b>b</b> . Test post-installed anchors.	Test	LOR	<b>1910A.5</b> . (See Appendix (end of this form
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND A	LUMINUM USE	D FOR STRUCTU	RAL PURPOSES
	Test or Special Inspection	Туре	Performed By	Code References and Notes
<b>V</b>	<ul> <li>a. Verify identification of all materials and:</li> <li>Mill certificates indicate material properties that comply with requirements.</li> <li>Material sizes, types and grades comply with requirements.</li> </ul>	Periodic	*	Table 1705A.2.1 Item 3a       3c. 2202A.1; A         A3.2, AISI S240-20 Section A3 & A5, AISI S.         special inspector or qualified technician v
1	<b>b</b> . Test unidentified materials	Test	LOR	2202A.1.
7	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
7	<b>d.</b> Verify and document steel fabrication per DSA- approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light- for trusses ( <b>1705A.2.4</b> ).
	S/A3. WELDING:			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
7	<ul> <li>a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.</li> </ul>	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5 structural steel; AWS D1.2 for Aluminum; steel; AWS D1.4 for reinforcing steel; DSA
1	<b>b</b> . Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
$\checkmark$	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
1	<b>a</b> . Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4; AISC 360 applicable); DSA IR 17-3.
1	<b>b</b> . Inspect single-pass fillet welds $\leq 5/16''$ , floor and roof deck welds.	Periodic	SI	<b>1705A.2.2</b> , <b>Table 1705A.2.1</b> Items 5a.5 AISC 341-16 as applicable); DSA IR 17-3.
$\checkmark$	c. Inspect welding of stairs and railing systems.	Periodic	SI	<b>1705A.2.1</b> ; AISC 360-16 (and AISC 341-16 D1.3; DSA IR 17-3.

GRIPPING SURFACE SHALL BE CONTINUOUS ALONG THIER LENGTH AND 2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

> THE EXAMPLE OF FORM DSA-103s SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSE ONLY. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE FORM DSA-103s ARE TO BE CROSSED OUT ON THIS DRAWING.



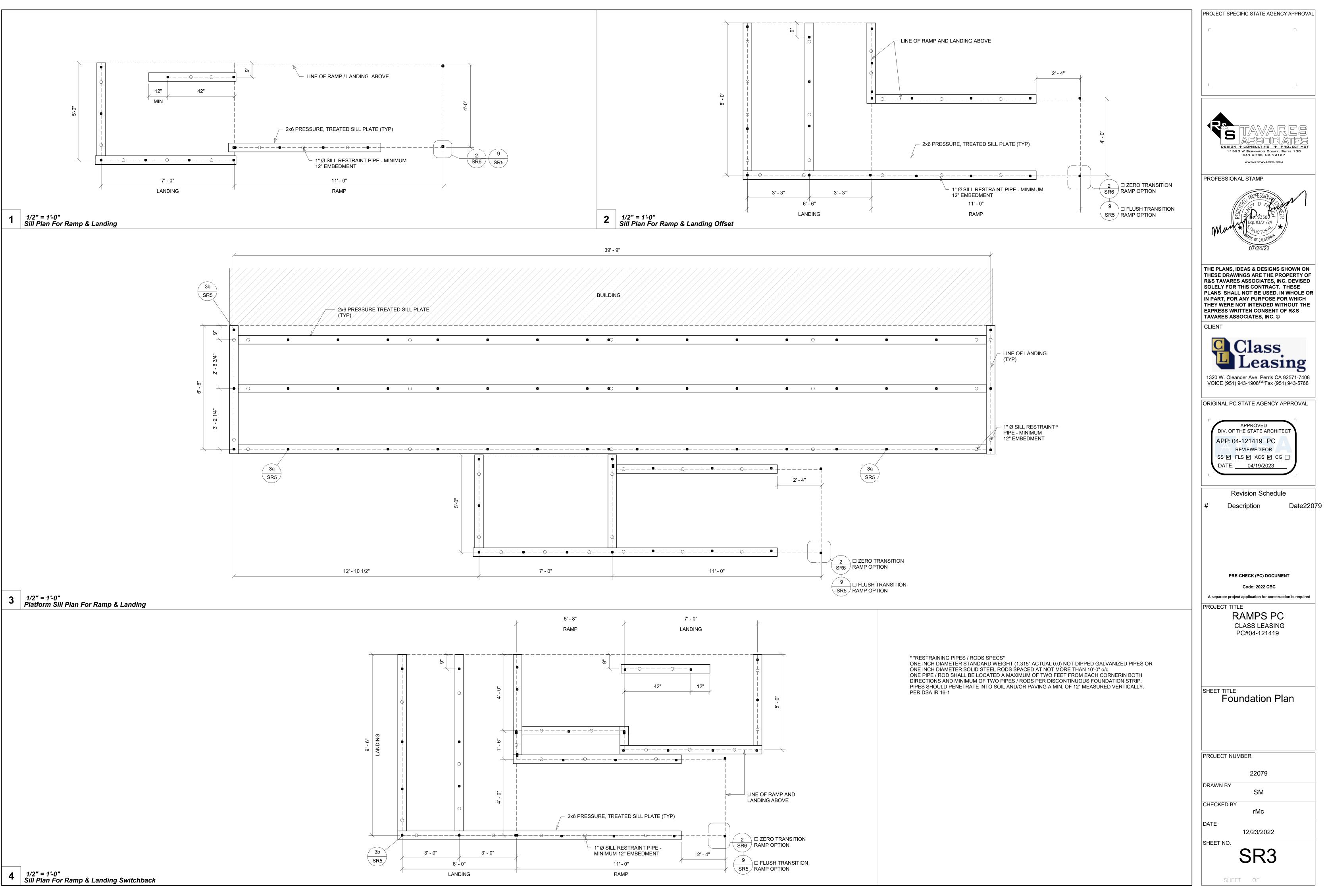


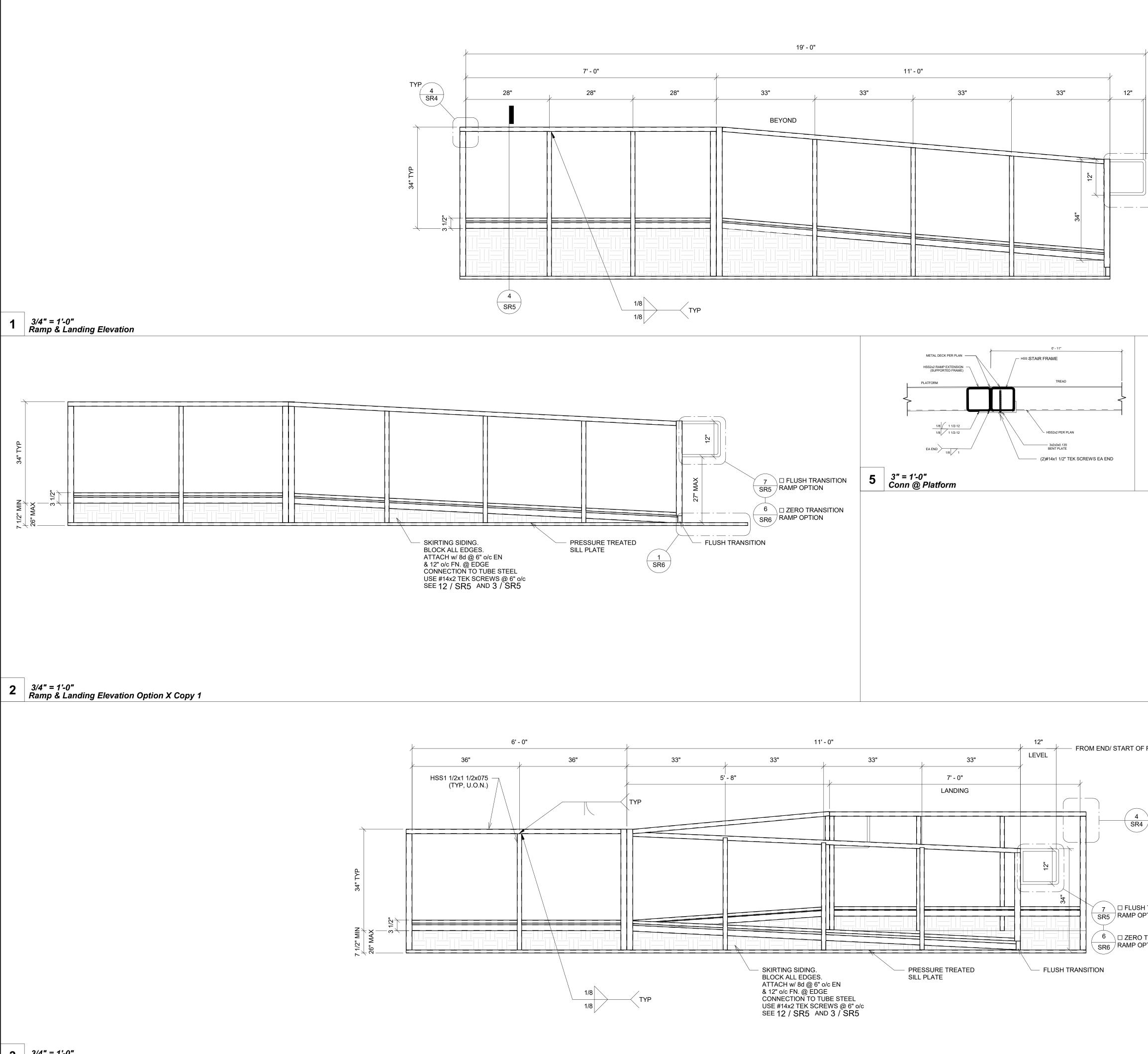


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1320 W. Oleander Ave. Perris CA 92571-7408	
VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768	
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Revision Schedule	70
Revision Schedule	79
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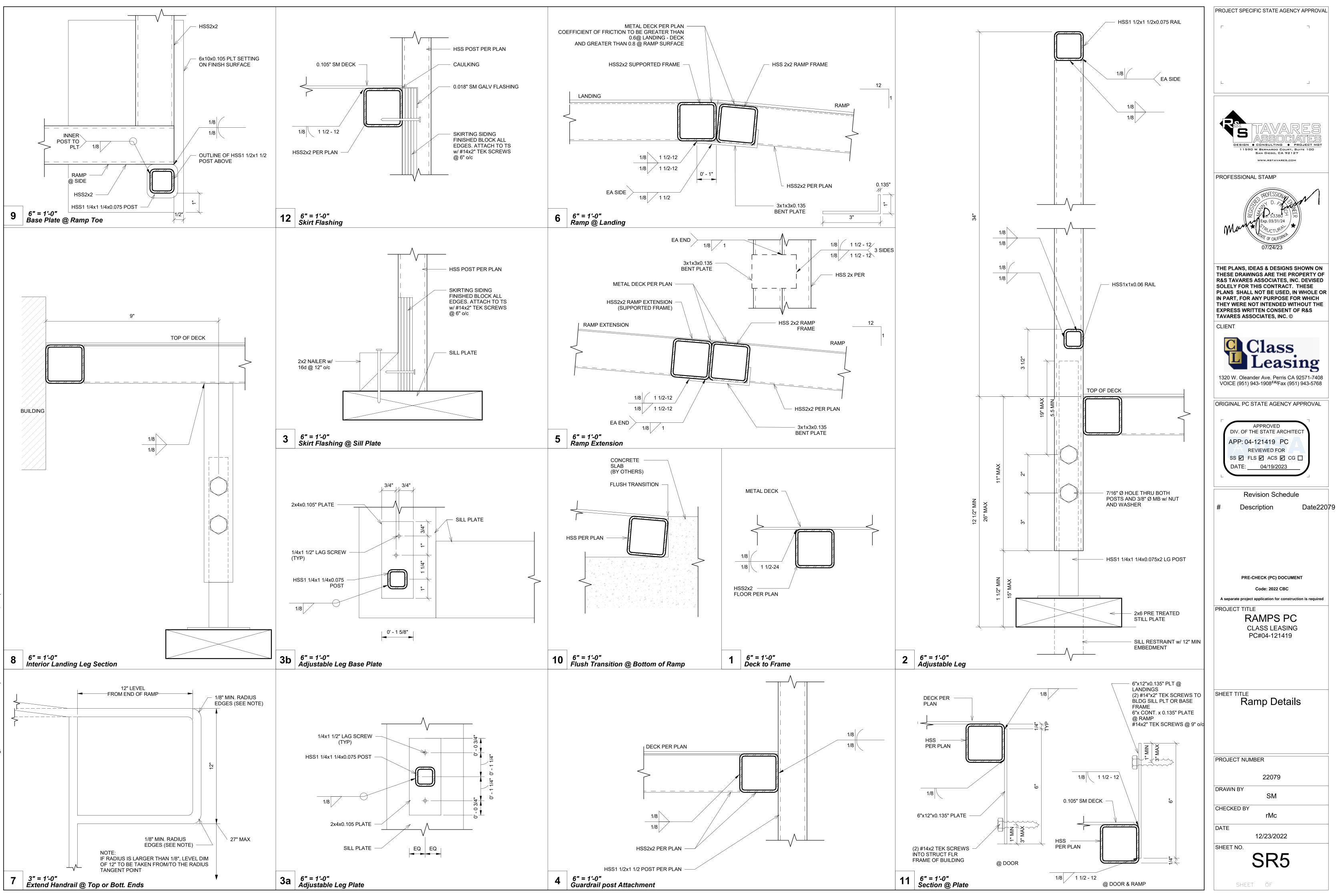
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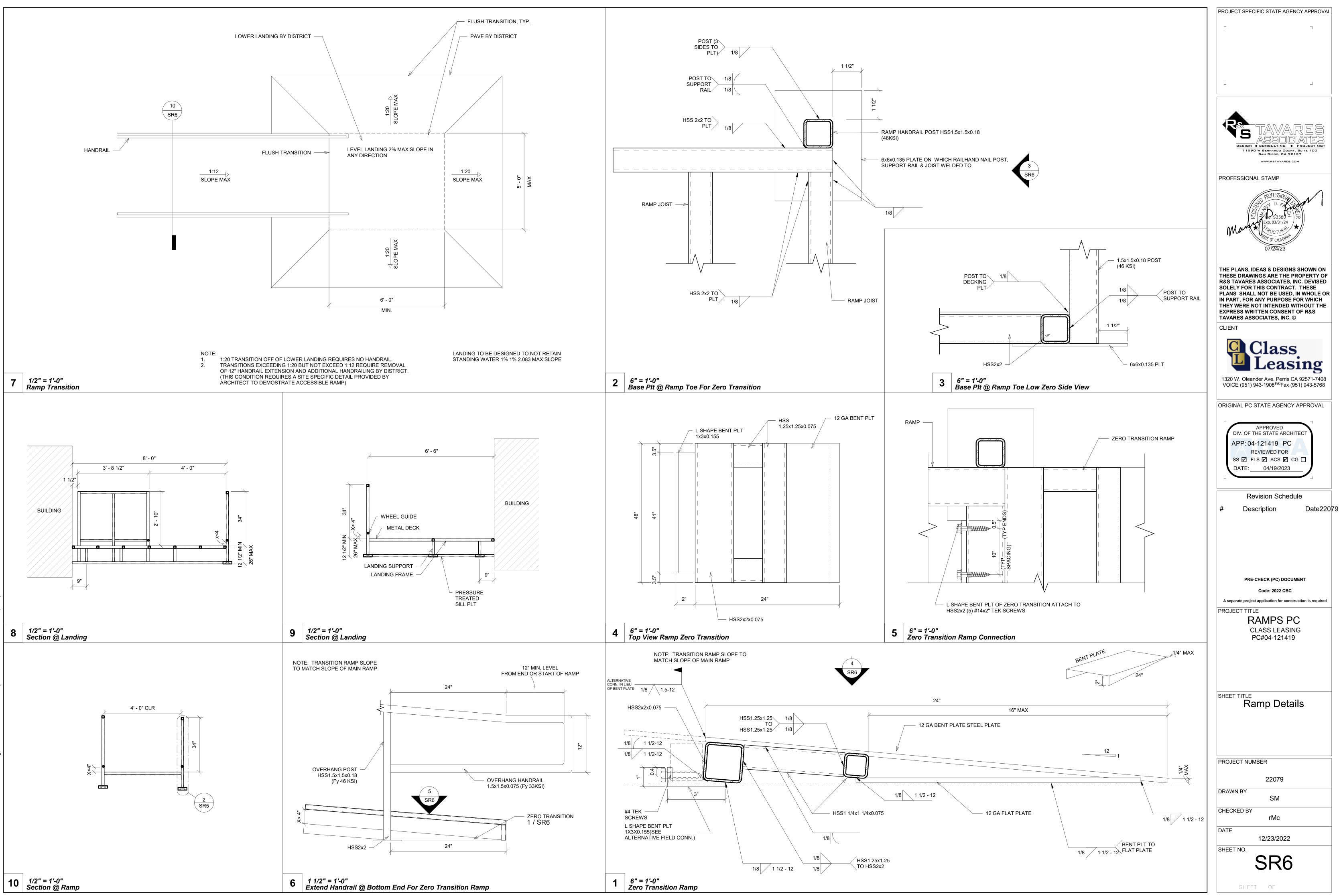


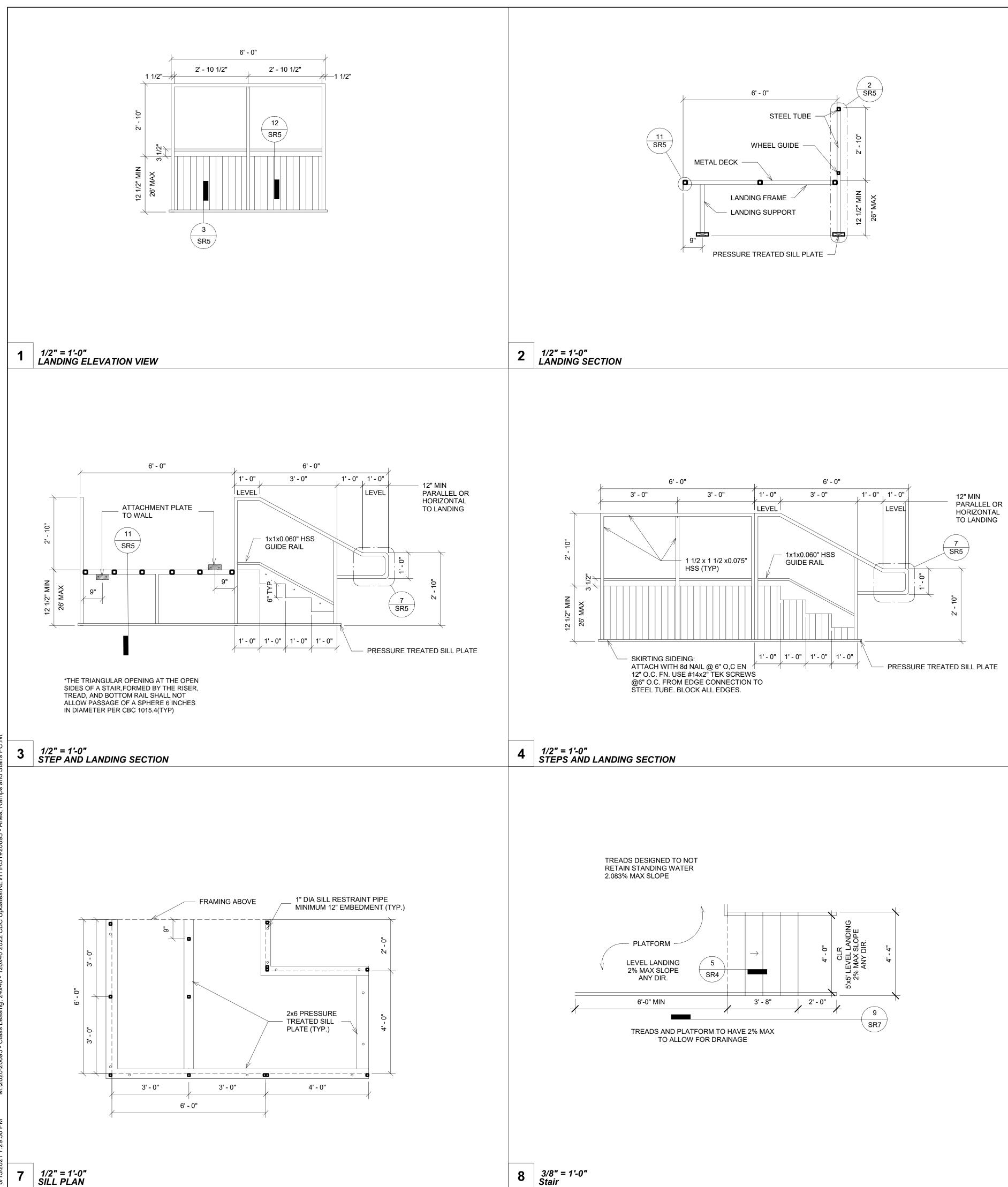


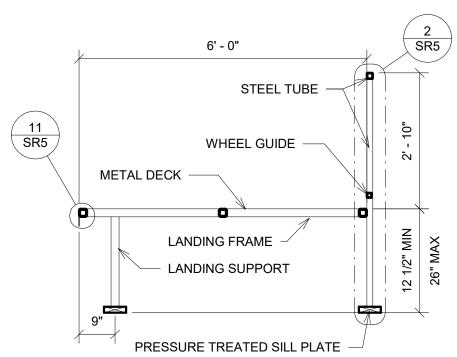
**3** 3/4" = 1'-0" Ramp & Landing Elevation Option X

	PROJECT SPECIFIC STATE AGENCY APPROVAL
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12" MIN PARALLEL OR HORIZONTAL TO LANDING	DESIGN CONSULTING PROJECT MGT 11590 W BERNARDO COURT, SUITE 100 SAN DIEGO, CA 92127 WWW.RSTAVARES.COM
	PROFESSIONAL STAMP
7 D FLUSH TRANSITION SR5 RAMP OPTION 6 D ZERO TRANSITION RAMP OPTION	PROFESSION D. ASK No. S3380 Exp. 03/31/24 PUCTURP A PUCTURP A A A A A A A A A A A A A
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	CLIENT CLIENT CLIENT Class Leasing 1320 W. Oleander Ave. Perris CA 92571-7408
	VOICE (951) 943-1908 <sup>FAJ</sup> Fax (951) 943-5768 ORIGINAL PC STATE AGENCY APPROVAL
	APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121419 PC REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG □ DATE: 04/19/2023
	Revision Schedule # Description Date22079
	PRE-CHECK (PC) DOCUMENT Code: 2022 CBC A separate project application for construction is required
FRAMP	NO SHARP EDGES         1/8" R MIN.         CAP WITH 1/8"    PROJECT TITLE     PROJECT TITLE        CLASS LEASING         PC#04-121419
TYP 1/8 1/8 1/8	SHEET TITLE Ramp and Landing / Stair Framing Elevation
H TRANSITION	Option X1 - Callout 1     PROJECT NUMBER
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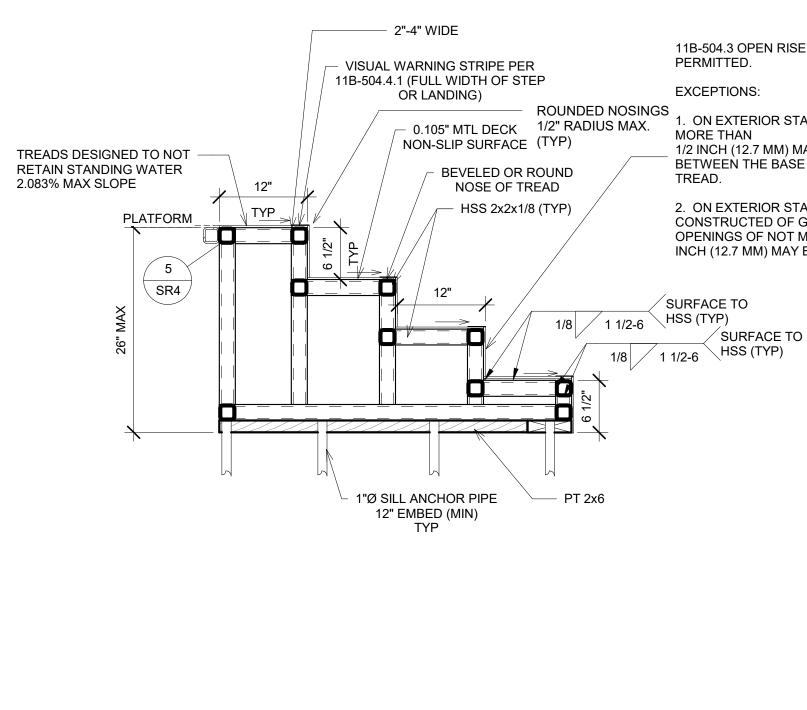


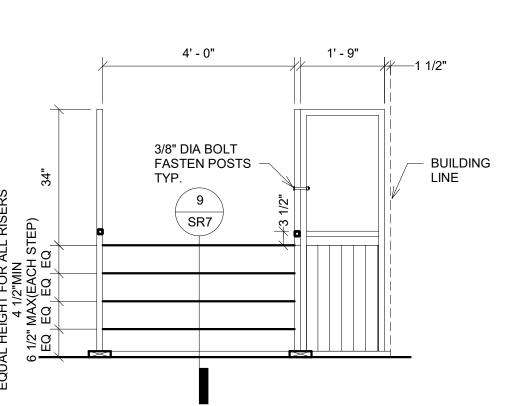


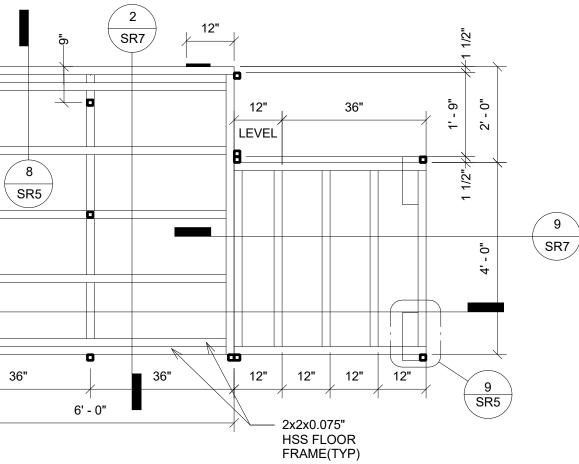
6 1/2" = 1'-0" STEPS ELEVATION

3 SR7 4\_\_\_\_

5 1/2" = 1'-0" STEPS/LANDING FRAMING PLAN







11B-504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED.

1. ON EXTERIOR STAIRWAYS, AN OPENING OF NOT

MORE THAN 1/2 INCH (12.7 MM) MAY BE PERMITTED BETWEEN THE BASE OF THE RISER AND THE

2. ON EXTERIOR STAIRWAYS, RISERS CONSTRUCTED OF GRATING CONTAINING OPENINGS OF NOT MORE THAN 1/2 INCH (12.7 MM) MAY BE PERMITTED.



PROJECT SPECIFIC STATE AGENCY APPROVAL