

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0514-13
OSHPD Preapproval of Manufacturer's Certification (OPM)	
Type: 🛛 New 🗌 Renewal 🗌 Update to Pre-CBC 2013 O	PA Number:
Manufacturer Information	
Manufacturer: MAC Medical	
Manufacturer's Technical Representative: <u>Gary Oliveros</u>	
Mailing Address: 820 South Mulberry Street, Millstadt, IL 62260	
Telephone: 618-476-3550 Ext. 318 Email: Depliver	ros@macmedical.com
Product Information	OMp.
DUAL CHAMBER WARMING CABINET; DUAL CHAMBE	R BLANKET/FLUID WARMER; SINGLE CHAMBER
Product Name: WARMING CABINET	1. E
Product Type: Blanket warming cabinets.	E
	<mark>T, D</mark> WC24 <mark>2474</mark> T, DWC243064T, DWC243074E,
DWC243074T, SWC182464, SWC183024, SV Product Model Number: SWC242464, SWC243024, SWC243036, SW	
P DATE: 06/12/2019	
General Description: <u>The blanket and fluid warming cabinets are eithe</u>	er single, dual or triple chamber temperature
Controlled stainless steel cabinets used to warm blankets and fluids.	DB.
Applicant Information	<u>co</u> ;
Applicant Information	
Applicant Company Name: MAC Medical	
Contact Person: Gary Oliveros	
Mailing Address: 820 South Mulberry Street, Millstadt, IL 62260	
Telephone: 618-476-3550 Ext. 318 Email: goliver	os@macmedical.com
I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2016.	Planning and Development review fees in
Signature of Applicant:	Date: 11/16/18
Title: Director of Quality Compliance Company Name: MAC M	Aedical
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	OSHPD
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15)	Page 1 of 2



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations							
CYS STRUCTURAL ENGINEERS, INC.							
Name: David M. Calia California License Number: S5614							
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833							
Telephone: (916) 920-2020 Email: davidc@cyseng.com							
OSHPD Special Seismic Certification Preapproval (OSP)							
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) Special Seismic Certification is not preapproved 							
Certification Method(s)							
□ Testing in accordance with: □ ICC-ES AC156 □ FM 1950-16 ⊠ Other* (Please Specify): Calculation in accordance with 2016 CBC							
*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2016 may be used when approved by OSHPD prior to testing. Analysis Analysis Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
List of Attachments Supporting the Manufacturer's Certification							
 ☐ Test Report ☑ Drawings ☑ Calculations ☑ Manufacturer's Catalog ☑ Other(s) (Please Specify): 							
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS							
Signature: Date: 6/12/2019							
Print Name: USE							
Condition of Approval (if applicable):							
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) Page 2 of 2							

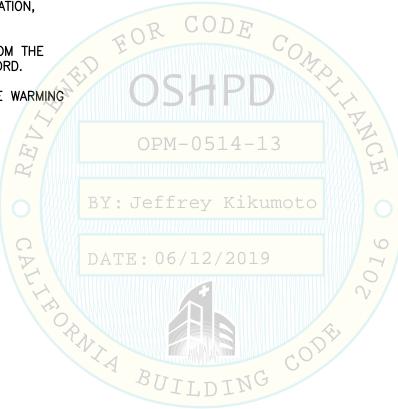
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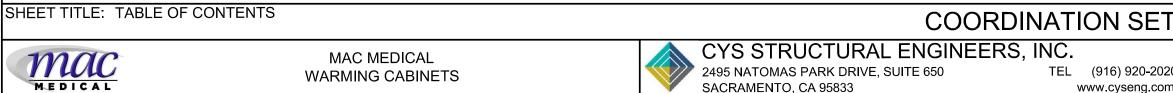
PAGE

GENERAL INFORMATION TABLE OF CONTENTS GENERAL NOTES DESIGN CRITERIA ABBREVIATIONS	1 2-3 4 4
WARMING CABINET WARMING CABINET ELEVATIONS WARMING CABINET MOUNTING WALL TYPES SEISMIC BRACKET DETAILS	5 6 8

NOTES: THESE DRAWINGS ARE PREPARED FOR MAC MEDICAL, AN ILLINOIS CORPORATION, MILLSTADT, ILLINOIS.

- 1. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OSHPD WEBSITE & PROVIDE ONE COPY FOR THE INSPECTOR OF RECORD.
- 2. THIS PRE-APPROVAL COVERS THE ATTACHMENTS & SUPPORTS OF THE WARMING CABINET TO THE STRUCTURE.





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in 10,2019

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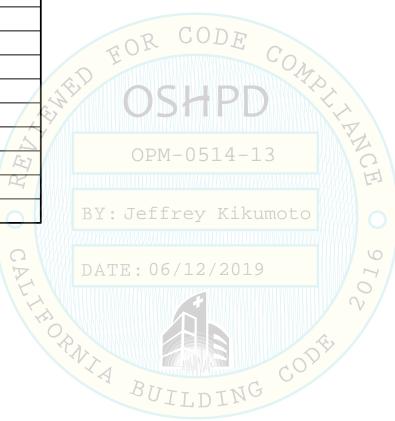


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Т	Rev	Description		Date	Job No:	16023	
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m					Page:	1 of 8	

 <u>GENERAL NOTES:</u> 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 22 THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016. 2. THIS OPM PROVIDES SUPPORTS & ATTACHMENT DESIGN & INFORMATION FOR INCORPORATION INTO CONSTRUCTION DOCUMENT SUBMITTAL TO BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL APPROPRIATELY LICENSED TO DO SO IN THE STATE OF CALIFORNIA & WHOM SHALL FURNISH THE SUBMITTAL TO OSHPD FOR APPROVAL & PERMITTING PRIOR TO THE COMMENCEMENT OF CONSTRU IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROV VERIFY: A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIE THE COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEM REQUIRED. B. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE 2016 CBC & W/ THE DETAILS SHOWN I PRE-APPROVAL. C. THAT THE COMPONENT'S WT, CENTER OF GRAVITY LOCATION & ATTACHMENT HT TO THE MTL S' WALL FRAMING AGREE W/ THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS. D. THAT POST-INSTALLED CONC ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY W EDGES OR OPENINGS. 	 FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: HYDRAULIC RAM METHOD: APPLY & HOLD TEST LOAD FOR A MIN OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE OR BY A CONTINUOUS LOSS OF JACKING PRESSURE. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: 1. WEDGE TYPE: ONE-HALF (½) TURN OF THE NUT. TEST VALUES: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE, SEE TABLE BELOW. TOST-INSTALLED ANCHORS SHALL BE INSTALLED WITH FULL THRD ENGAGEMENT OF THE NUT & WASHER. ANCHORS SHALL BE INSTALLED IN NWC W/ A MIN COMPRESSIVE STRENGTH OF 2,500 PSI (f'c = 2500 PSI MIN). G. COORDINATE THE AB LAYOUT W/ THE COMPONENT IN THE FIELD PRIOR TO SETTING AB'S.
E. THAT POST-INSTALLED CONC ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY N EXISTING CONC ANCHORS.	
4. THIS PRE-APPROVAL MAY BE USED AT THE GEOGRAPHICAL LOCATIONS IN THE STATE OF CALIFOR	
HTS WITHIN THE FACILITY SPECIFIED IN THE DESIGN CRITERIA ON <u>PG 4.</u> 5. COORD THE MOUNTING ANCHOR LAYOUT WITH THE COMPONENT IN THE FIELD.	INPE EMBED EMBED DEPTH THICKNESS EDGE SPACING
6. WARMER COMPONENTS & MOUNTING HARDWARE AS NOTED SHALL BE PROVIDED BY MFR. CONTRA	TOR (INCH) hnom heff ho h (INCH) (INCH) (INCH) (INCH) (INCH) (INCH)
SHALL FURNISH & INSTALL HARDWARE NOT SUPPLIED BY MFR. SEOR SHALL VERIFY THE METAL S WALL FRAMING IS IN ACCORDANCE WITH THESE PRE-APPROVAL DOCUMENTS OR SHALL DESIGN TH	
STUD FRAMING IN ACCORDANCE WITH THESE PRE-APPROVAL DOCUMENTS. CONTRACTOR SHALL ALS	SO KB-12 CS 3.0625 2.75 3.375 6 12 6 1925 25
INSTALL THE WARMER'S MOUNTING HARDWARE TO THE MTL STUD WALL FRAMING AS WELL AS THE WARMER ITSELF.	OPM-0514-13
 7. DRAWING SCALES ARE NOT PROVIDED. <u>DO NOT SCALE OFF OF THESE DRAWINGS</u>. THE INTENT OF DRAWINGS IS TO SHOW HOW TO ATTACH THE SPECIFIED WARMER TO THE WALL STRUCTURE. THE REPRESENTATIONS OF THE EQUIP ARE ONLY INTENDED TO SHOW THE COORD W/ THE ATTACHMEN 8. CYS STRUCTURAL ENGINEERS, INC. IS NOT THE SEOR AS IT RELATES TO VERIFICATION OF SITE CONDITIONS & REQ OBSERVATIONS PER CHAPTER 17/17A OF THE CBC, UNLESS CYS STRUCTURA ENGINEERS, INC. IS LISTED AS THE SEOR ON THE APPROVED CONSTRUCTED DOCUMENTS. 9. A. EXPANSION ANCHORS INSTALLED IN NWC SHALL BE CARBON STL HILTI KB-TZ EXPANSION ANC COMPLYING W/ ICC-ES ESR-1917 REVISED APRIL 2018. B. INSTALLATION: INSTALL THE POST-INSTALLED ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS IN THE ICC EVALUATION SERVICE REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVE TABLE 1A ON <u>PG 6 OF 16</u> IN THE REPORT. C. TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITI TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 5C THE INSTALLED ANCHORS. FOR TENSION TESTING, THE TEST LOAD MAY BE APPLIED BY ANY THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR SUCH AS DIRECT PULL W/ HYDRAULL JACK OR CALIBRATED TORQUE WRENCH. ALL TESTS SHALL BE CONDUCTED I PRESENCE OF THE INSPECTOR OF RECORD. REPORT OF TEST RESULTS SHALL BE SUBMITTE THE ENFORCEMENT AGENCY. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TOG INSTALLATION. ALSO REFER TO CBC 1913A.7 "FIELD TESTS FOR POST-INSTALLED ANCHORS CONCRETE". 	TS BY: Jeffrey Kikumoto
	COORDINATION SET Rev Description Date Job No: 1602
SHEET TITLE: GENERAL NOTES	
SHEET TITLE: GENERAL NOTES	COORDINATION SET Date: 6/10/201

OPM-0514-13: Reviewed for Code Compliance by Jeffrey Kikumoto

	TABLE 2: PRODUCT	MODEL & DESCRIPTION
MODEL NO.	CABINET TYPE	CABINET DESCRIPTION
DWC183064T	64.75" DWC	DUAL CHAMBER WARMING CABINET
DWC183074E	74.5" DWC	DUAL CHAMBER BLANKET/FLUID WARMER
DWC183074T	74.5" DWC	DUAL CHAMBER WARMING CABINET
DWC242474T	74.5" DWC	DUAL CHAMBER BLANKET/FLUID WARMER
DWC243064T	64.75" DWC	DUAL CHAMBER BLANKET/FLUID WARMER
DWC243074E	74.5" DWC	DUAL CHAMBER BLANKET/FLUID WARMER
DWC243074T	74.5" DWC	DUAL CHAMBER BLANKET/FLUID WARMER
SWC182464	64.75" SWC	SINGLE CHAMBER WARMING CABINET
SWC183024	24" SWC	SINGLE CHAMBER WARMING CABINET
SWC183036	36" SWC	WARMER, SINGLE CHAMBER
SWC183064	64.75" SWC	SINGLE CHAMBER WARMING CABINET
SWC183074	74.5" SWC	SINGLE CHAMBER WARMING CABINET
SWC242464	74.5" SWC	SINGLE CHAMBER WARMING CABINET
SWC243024	24" SWC	SINGLE CHAMBER CABINET
SWC243036	36" SWC	WARMER, SINGLE CHAMBER
SWC243064	64.75" SWC	SINGLE CHAMBER CABINET
SWC243074	74.5" SWC	SINGLE CHAMBER WARMING CABINET



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2	SHEET TILE. GENERAL NOTES (CONTINUED)
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MAC MEDICAL WARMING CABINETS



CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 TEL SACRAMENTO, CA 95833

COORDINATION SET

TEL (916) 920-202 www.cyseng.com

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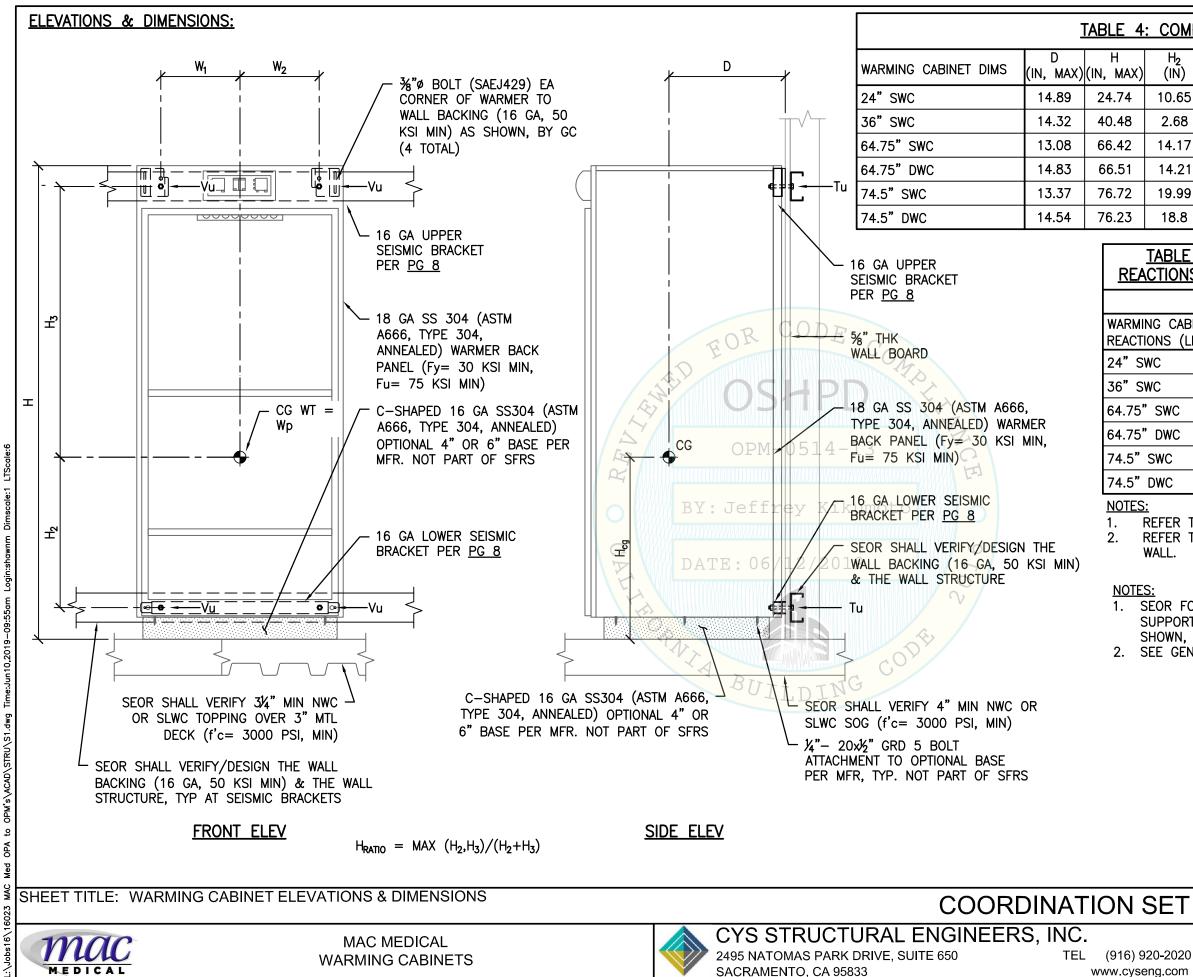
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	DESIGN CRITERIA											ABBREVI/		N
	SUPPORTS & ATTACHMENTS DES	SIGN FOR	ALL EQUIF	P COMPON	NENTS IS	PER 2016	5 CBC					0	AT	N
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	ASCE 7-10 TABLE 13.6-											ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	0
	MECHANICAL & ELECTRICA	L COMPON	NENIS — (CABINET F	IEATERS							ASTM	AMERICAN COCIETY FOR TECTING & MATERIALS	0
	NT.		A1 1									BLDG	BUILDING	0
		<u>L STUD W</u> h <u><</u> 1.0	ALL									BOTT	BOTTOM	P
		$r_{\rm S} \leq 1.0$										BTW	BETWEEN	P P
	$a_{\rm p} = 1.3$ $a_{\rm p}$	$S \ge 2.3$										CBC	CALIFORNIA BUILDING CODE	P
	$R_{p} = 6.0$											CG CLR	CENTER OF GRAVITY CLEAR OR CLEARANCE	R
	$\Omega_{\rm o}^{\rm p} = 2.0$											CLSE	CALIFORNIA LICENSED STRUCTURAL ENGINEER	R
												Ç	CENTERLINE	5
												CONC	CONCRETE	S
	W AS NOTED AN ASUDA											CONN	CONNECTION	S
	W _P AS NOTED ON COMPO	NENI DIM	SCHED SH	HOWN ON	<u>PG 5.</u>							COORD	COORDINATE/COORDINATION	S
	SEISMIC LOADS											CTR DBL	CENTER DOUBLE	S
	SEISMIC ECADS						ROOF	1		\rightarrow		DIA (Ø)		S
	AT MTL STUD WALL	(LRFD)		TOP FL	R	CAS	E 3				CO	DIM	DIMENSION	S
	$F_{p} = 1.875 W_{p}$	()			DIATE FL					a O K	00	DTL	DETAIL	S
	r r						SE 2			h 13		DWC	DUAL WARMING CABINET	S
	$F_v = 0.50 W_p$			INTERME	DIATE FL	R		TYP	N ^N			EA	EACH	S
												ELEV	ELEVATION	S' T
	<u>CONC_WALL</u> (LRFD)			1ST FLF			<u>E 1 </u>				/	EQUIP	EQUIPMENT	TI
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e S						_				OPM	I - 05	F_{4-13}	FINISHED FLOOR	TI
200						<u>B</u>	LDG ELEV					FLR -	FLOOR	Tr
								R				FT (') f'c	FOOT/FEET	т
ale:	r								DV	TOFF	1	Kikum		Ť
msc		TABLE 3	3: SEISM	IC DESI	GN CRIT	'ERIA /	LOAD C	ASE	DI	:Jeii	rey	F _p	HORIZONTAL SEISMIC FORCE PER	•
ے د		-				•	>			<u>www.www</u>	4	P	ASCE 7-10 SEISMIC FORCE REQUIREMENTS	Т
		CASE	1: (z₁/h <u><</u>	<u>(</u> 0.4)	CASE 2	: (z ₂ /h <u><</u>	0.75)	CASE	3: (z <mark>₃/h ≤</mark>	<u> </u>		Fu	SPECIFIED ULTIMATE STRENGTH OF REINFORCING,	V
u:su	WARMING CABINET	S _{DS}	Fp/Wp	Fv/Wp	c	Fp/Wp	Fv/Wp	SDS	Fp/Wp	Fv/Wp) I 2 /	2019	TOT OT OT EOTIED MITTING OF DETIMATE OTTEED	۷
5	WARMING CABINET	JDS	· •/ ••	1 1/ 110	S _{DS}	· •/ ••	1 47 119	JDS	1 0/ 10	1 4/ 10	11/27	F.	OF STEEL, KSI VERTICAL SEISMIC FORCE PER	V
E I	24" SWC	2.50	1.125	0.50	2.50	1.563	0.50	2.50	1.875	0.50			ASCE 7-10 SEISMIC FORCE REQUIREMENTS	
77.6	36" SWC	2.50	1.125	0.50	2.00	1.250	0.40	1.65	1.238	0.33		Fy	SPECIFIED YIELD STRENGTH OF REINFORCING,	۷r
							8						PSI OR SPECIFIED MINIMUM YIELD STRESS	
5	64.75" SWC	1.85	0.833	0.37	1.35	0.844	0.27	1.10	0.825	0.22	1 MALANA	GA	OF STEEL, KSI GAUGE	W
	64.75" DWC	2.10	0.945	0.42	1.50	0.938	0.30	1.25	0.938	0.25		GAL		W
ne:		0.50	1 1 0 5	0.50		4 050	*	1 65			TT.D	GRD	GRADE	
Ē	74.5" SWC	2.50	1.125	0.50	2.00	1.250	0.40	1.65	1.238	0.33		HT	HEIGHT	
ŇD.	74.5" DWC	1.75	0.788	0.35	1.25	0.781	0.25	1.05	0.788	0.21		ICC	INTERNATIONAL CODE COUNCIL	
	NOTES:										-	IN (")	INCH	
	1. CASE 2 MAY BE US	SED FOR W	WARMERS	LOCATED	ON THE F	FIRST FLR	OF A ON	E-STORY	BLDG.			KSI I	KIPS PER SQUARE INCH LENGTH	
Á.	2. BOLD TEXT INDICATE					TABLE 5	AND 6 FC	DR RESU	TING ATTAC	CHMENT		LBS	POUNDS	
s A	REACTIONS TO THE	WALL AND) FLOOR F	RESPECTIV	ELY.							LRFD	LOAD & RESISTANCE FACTOR DESIGN	
M N												MAX	MAXIMUM	
2												MFR	MANUFACTURER MILLIMETER	
₹ J												MIL MIN	MILLIMETER	
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Ĺ	MEDICAL									SACRAM	<u>1ENTO,</u>	CA 95833	www.cyseng.com	_
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	NO.(#)				
	NTS	NOT TO SCALE		-	
	NWC	NORMAL WEIGHT		E	
	OH	OPPOSITE HAND		-	
	OPM	OSHPD PRE-AF			
		MANUFACTURER			
	OSHPE) OFFICE OF STATE	WIDE HEALTI	h planning	
		& DEVELOPMENT			
	PG	PAGE			
	PL	PLATE			
	PSI	POUNDS PER S	QUARE INC	ЭН	
	R	RADIUS OF GYR			
	REQ	REQUIRED			
	SCHED				
	SDST	SELF-DRILLING	SELE-TAP		
	SEOR				
	SFRS	SEISMIC FORCE			
			RESISTING	SISIEM	
	SIM SMS	SIMILAR SHEET METAL S			
		SPACING			
	SPCG				
	SQ	SQUARE	-1		
	SS	STAINLESS STEE	L.		
	STIFF	STIFFENER			
	STL	STEEL			
	STRUC				
	SWC	SINGLE WARMIN			
	T&B	TOP & BOTTOM			
	TEMP	TEMPORARY			
	THK	THICKNESS			
	THRD	THREAD OR TH			
	Tmax	MAXIMUM TENSI	ON DUE TO	D	
		SEISMIC FORCE			
	T.O.	TOP OF			
	Tu	ANCHORAGE TE	NSION REA	CTION	
		DUE TO SEISMI	C FORCE		
	TYP	TYPICAL			
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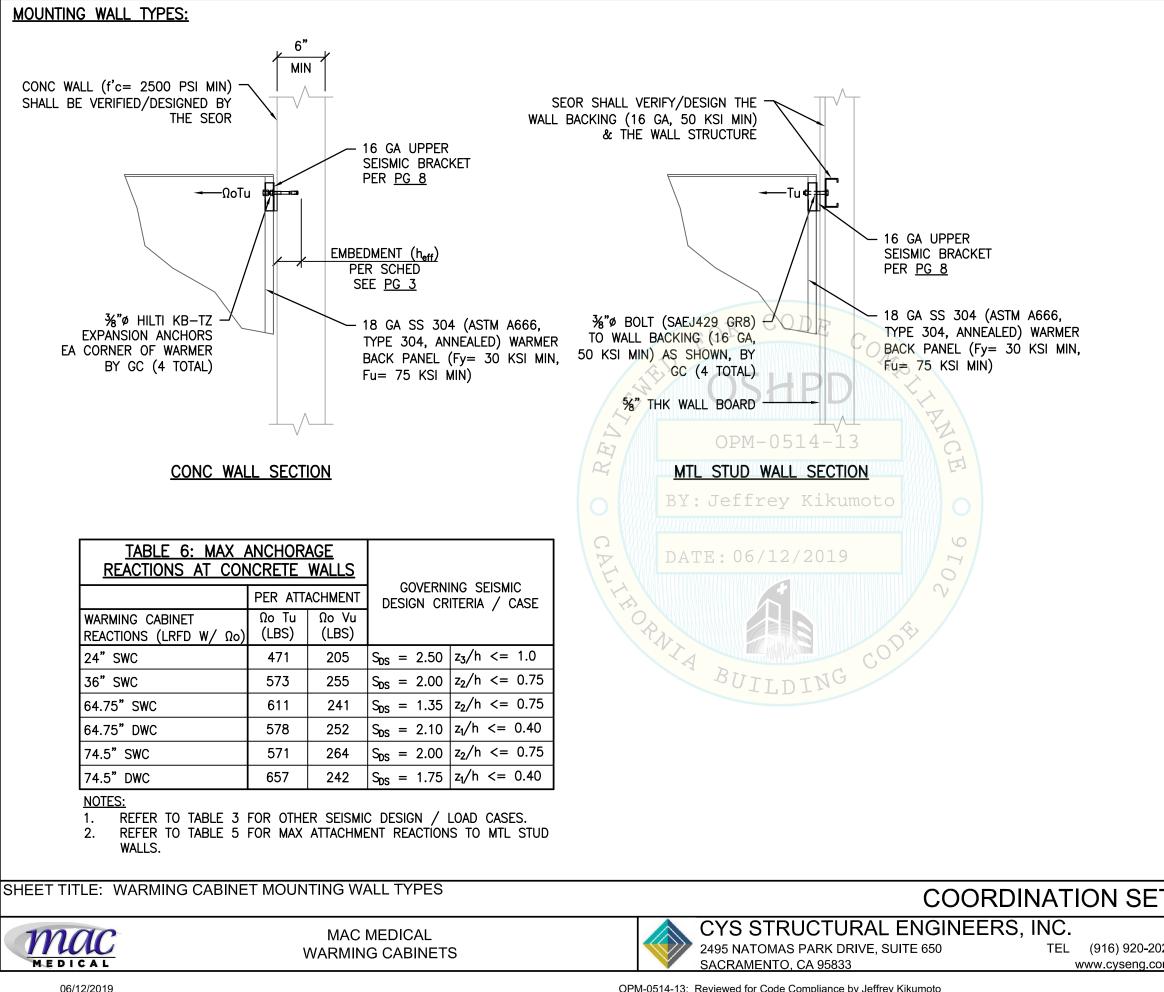
MPONENT DIMENSIONS								
2 ∛)	H3 (IN)	H _{RATIO} (MAX)	H _{cg} (IN, MAX)	W ₁ (IN, MIN)	W ₂ (IN, MIN)	Wp (LBS, MAX)		
65	5.8	0.65	18.073	11.5	11.5	169.05		
88	13.97	0.84	23.407	11.5	11.5	243.18		
17	28.96	0.67	34.661	8.5	8.5	421.42		
21	29.18	0.67	36.094	11.5	11.5	395.22		
99	32.45	0.62	39.02	11.5	11.5	341.16		
.8	33.84	0.64	40.575	8.50	8.50	471.44		
F !	F 5: MAX ATTACHMENT							

<u>_e j: max <i>p</i></u>	<u>ALIACHM</u>					
INS AT META	L STUD					
	PER ATT	ACHMENT	GOVERNING SEISMIC DESIGN CRITERIA / CASE			
ABINET (LRFD)	Tu (LBS)	Vu (LBS)				
	235	103	$S_{DS} = 2.50$	$z_3/h <= 1.0$		
	429	191	$S_{DS} = 2.00$	$z_2/h <= 0.75$		
;	674	265	$S_{DS} = 1.35$	$z_2/h <= 0.75$		
)	571	249	$S_{DS} = 2.10$	$z_1/h <= 0.40$		
	428	198	$S_{DS} = 2.00$	$z_2/h <= 0.75$		
	770	284	$S_{DS} = 1.75$	$z_1/h <= 0.40$		

REFER TO TABLE 3 FOR OTHER SEISMIC DESIGN / LOAD CASES. REFER TO TABLE 6 FOR MAX ANCHORAGE REACTIONS TO CONC

1. SEOR FOR THE BLDG SHALL PROVIDE RIGID ($a_p = 1.0$) SUPPORT STRUCTURE DESIGNED TO SUPPORT WTS & FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS. 2. SEE GENERAL NOTES: PGS 2-4.

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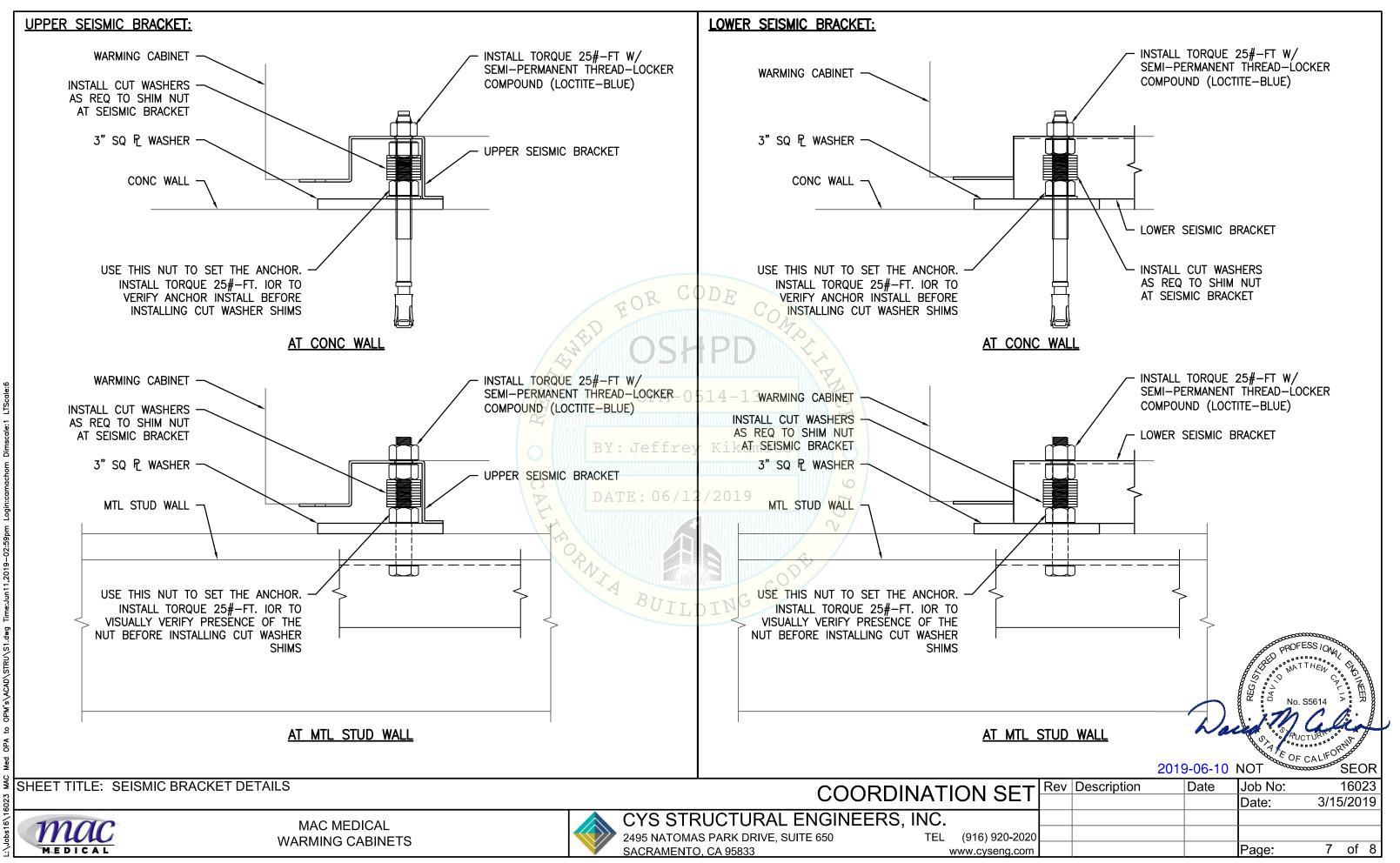


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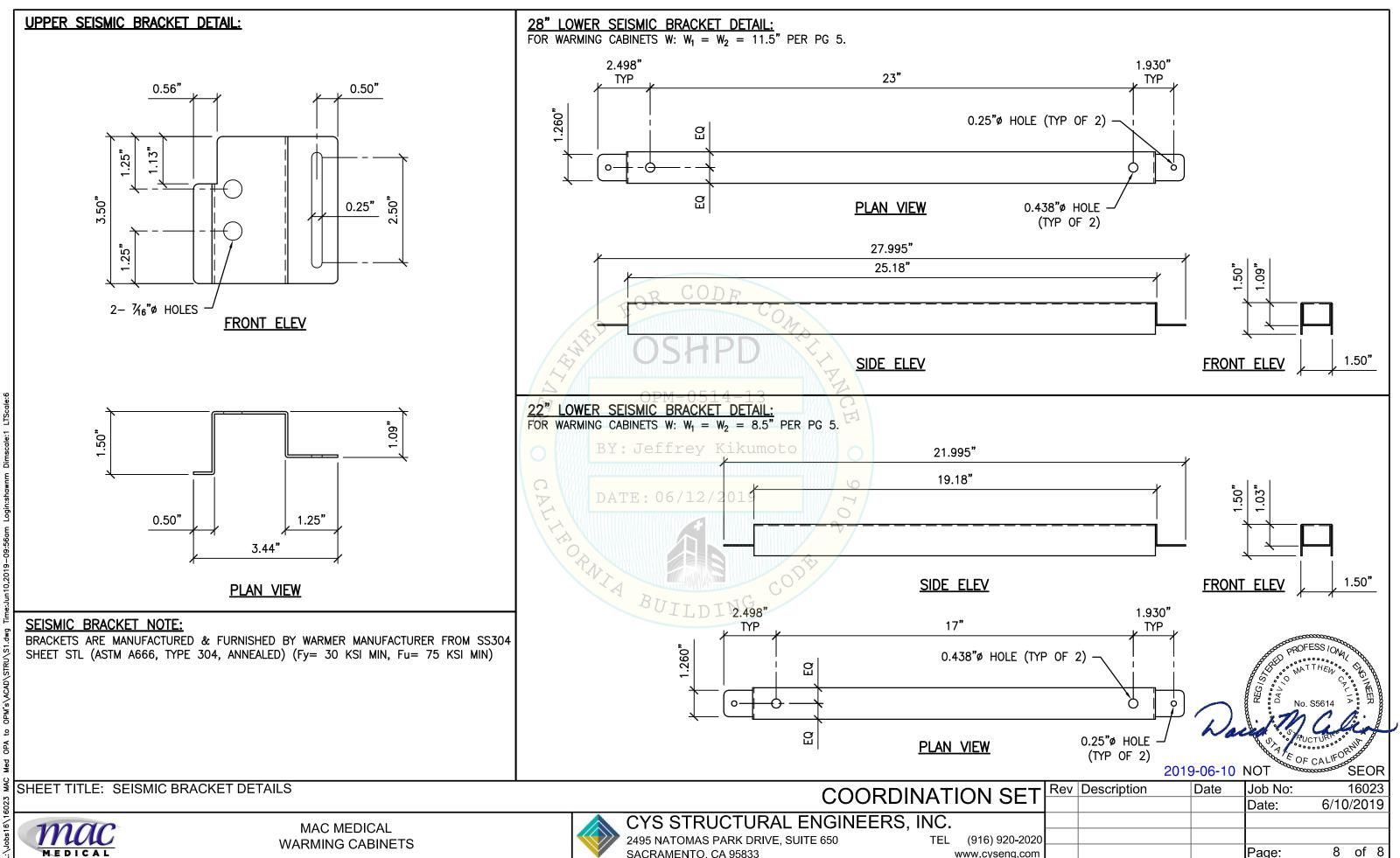
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