

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

all hill live.								
APPLICATION FOR OSHPD PREAPPROVAL OF	OFFICE USE ONLY APPLICATION #: OPM-0333							
MANUFACTURER'S CERTIFICATION (OPM)								
OSHPD Preapproval of Manufacturer's Certification (OPM)								
Type: New X Renewal/Update								
Manufacturer Information								
Manufacturer: Shimadzu Medical Systems								
Manufacturer's Technical Representative: Jim Mekker								
Mailing Address: 25101 Chagrin Blvd., Suite 240, Beechwood, OH 44122								
Telephone: (216) 288-0709 Email: mekker@shimadzu-usa.com								
FOR CODE COM								
Product Information OSHPD								
Product Name: CH-200 CONTROL CABINET	Z							
Product Type: Instrumentation Cabinet	CH							
Product Model Number: CH-200								
General Description: Subcomponent RadSpeed System								
DATE: 09/07/2021	2018							
Applicant Information								
Applicant Company Name: EASE LLC.								
BITT								

Contact Person: Tiffany Tonn

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Manager



"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations								
Company Name: EASE								
Name: Jonathan Roberson California License Number: S4197								
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709								
Telephone: (951) 295-1892 Email: jon@EASECo.com								
OSHPD Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
Contification Method								
Certification Method								
Testing in accordance with: CC-ES AC156 FM 1950-16								
Other(s) (Please Specify):								
*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing.								
X Analysis								
Experience Data DATE: 09/07/2021								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
CODE CODE								
OSHPD Approval BUILDING								
Date: 9/7/2021								
Name: Hayne Kim Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

OPM-0333

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER:

SHIMADZU MEDICAL SYSTEMS

EQUIPMENT NAME: C

CH-200 CABINET

Sheet: 1 of 5 Date: 2/5/21

GENERAL NOTES

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.00. SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.00, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{R}_P = 2.5, \mathbf{z}/h = 0 AT CONCRETE SLAB & $\mathbf{z}/h \le 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_0
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.



www.EquipmentAnchorage.com

SHIMADZU MEDICAL SYSTEMS

CH-200 CABINET

DES. J. ROBERSON

JOB NO. 11-2101

DATE

2/5/21

2

SHEET

5 SHEETS

10. EXPANSION ANCHORS:

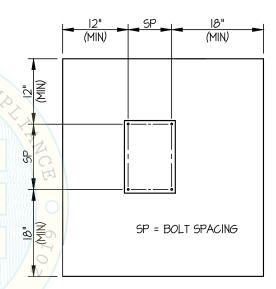
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Weight	3000	SIMPSON STRONG BOLT-2	ESR-3037	1.875"	3"	12"	3.25"	25 FT-LB	590 lb

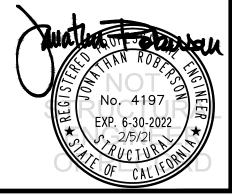
- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" AWAY MINIMUM (i.e. - CORNER).
 SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN 333 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA:

DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO

- OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED
 WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE
 NUT
- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



TYPICAL CONCRETE EDGE DETAIL



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SHIMADZU MEDICAL SYSTEMS

CH-200 CABINET

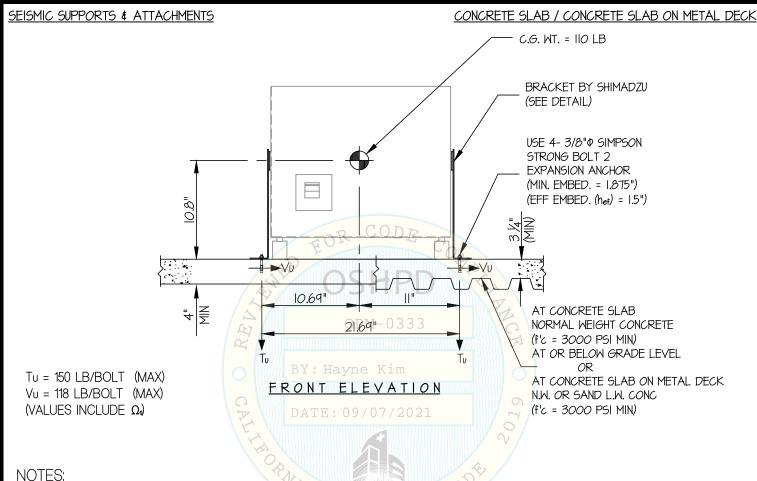
DES. J. ROBERSON

JOB NO. 11-2101

DATE 2/5/21

3

5 SHEETS



1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16

STRENGTH DESIGN IS USED. (SDS = 2.00, 2p = 1.0, p = 1.5, 2p = 2.5, 2p

HORIZONTAL FORCE (En) = 1.44 Wp HORIZONTAL FORCE (Emh) = 2.88 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.40 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. CH-200 CABINET (UUT-25) HAS OBTAINED SPECIAL SEISMIC CERTIFICATION REFER TO OSP-0319-10.
- 5. SEE GENERAL NOTES: SHEET 1 AND 2.



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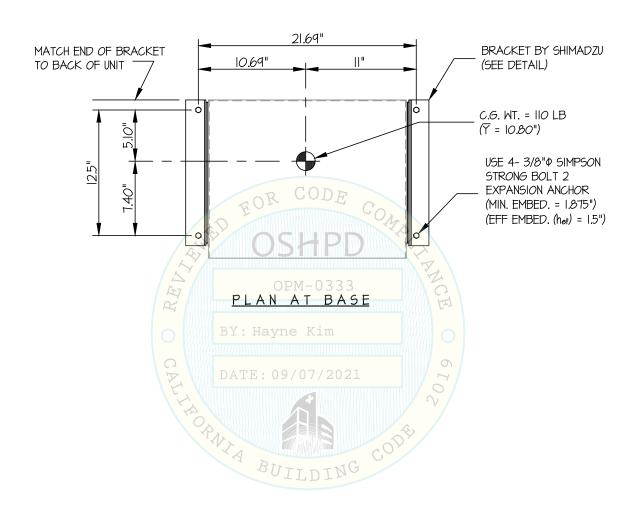
SHEET

4

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SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB / CONCRETE SLAB ON METAL DECK





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SHIMADZU MEDICAL SYSTEMS

CH-200 CABINET

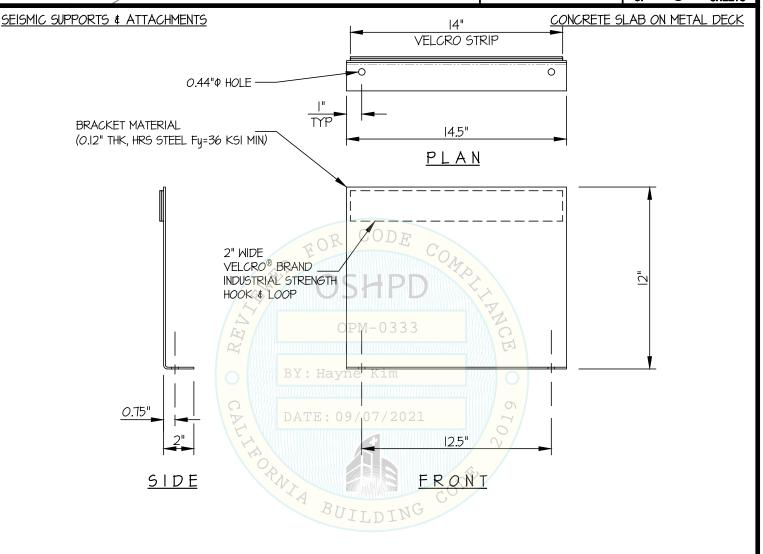
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2/5/21

DATE

OF **5** SHEETS

SHEET



ATTACHMENT TO UNIT:

SHAKE TABLE TESTED PER OSP-0319-10 CONNECTION PASSED UUT-25

