

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

APPLICATION FOR OSHPD PREAF	PPROVAL OF
MANUFACTURER'S CERTIFICATION	N (OPM)

OFFICE USE ONLY

**APPLICATION #: OPM-0207** 

MAROT ACTORER & CERTIFICATION (OF M)	All EloAtion #: Of in 0207
OSHPD Preapproval of Manufacturer's Certification (OPM)	
Type: New X Renewal/Update	
Manufacturer Information	
Manufacturer: BD	
Manufacturer's Technical Representative: Jared Zamaloff	
Mailing Address: 10020 Pacific Mesa Blvd., San Diego, CA 92121	
Telephone: (818) 876-4287 Email: jared.zamaloff@carefu	usion.com
FOR CODE COM	
Product Information OSHPD	
Product Name: SINGLE STORAGE CABINET	Z
Product Type: Other Mechanical & Electrical Equipment	CH C
Product Model Number: Pyxis SupplyStation, Pyxis MedStation and Pyxis Medstation	ation Console
General Description: The Pyxis Supply Station – system provides easy access to throughout your healthcare facility. This secure storage dev document supply usage, in real-time. Pyxis MedStation system supporting decentralized medication management. Pyxis MedStation systems located throughout your	rice provides your staff with the ability to tem is a leading automated dispensing system edStation Console-server collects data from
PAT COS	<b>&gt;</b> /
Applicant Information BUILDING	
Applicant Company Name: EASE LLC.	
Contact Person: Tiffany Tonn	
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801	
Telephone: (406) 541-3273 Email: tiffany@easeco.com	
Title:	

"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 LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone:         (909) 606-7622         Email:         jon@easeco.com
OSHPD Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP OSP Number:
October 19 Maria II
Certification Method
Testing in accordance with:
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 BY: Jeffrey Kikumoto
Experience Data  DATE: 05/06/2020
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
CODE CODE
OSHPD Approval  BUILDING
Date: <u>5/6/2020</u>
Name: Jeffrey Kikumoto 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-0207

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **B** 

BD

SINGLE STORAGE CABINETS

Sheet: \_1 of 12

Date: 4/29/20

### **GENERAL NOTES**

**EQUIPMENT NAME:** 

- 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 1.10 & 2.20. 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 = 1.10,  $A_p = 1.0$ ,  $A_p = 1.5$ , A
- 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 ANY ELEVATION 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. 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.



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DATE 4/29/20

SHEET 2

F 12 SHEETS

### SINGLÉ STORAGE CABINETS

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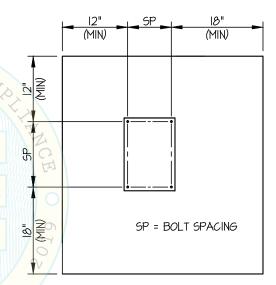
#### 10. EXPANSION ANCHORS:

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
5/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.125"	12"	24"	See Detail "A"	60 FT-LB	1219
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	8"	12"	4"	25 FT-LB	1515 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 RESPONSIBLE CHARGE.
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, UNDESCRIPTION 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.
- 11. BOLTS THROUGH CONCRETE ON METAL DECK
  - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
  - B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
  - C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



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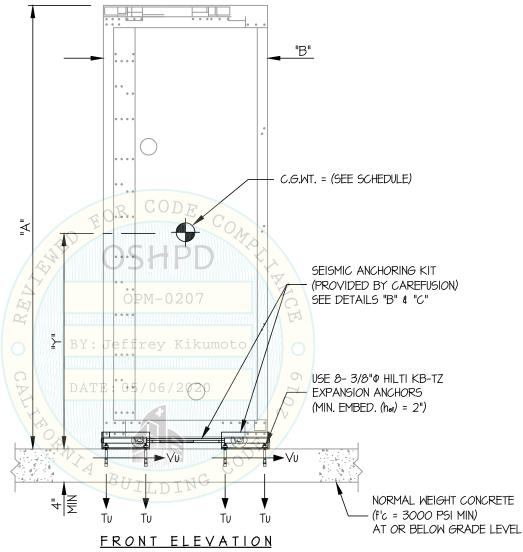
OF 12 SHEETS

SHEET

SINGLÉ STORAGE CABINETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



SEE SHEET 6 OF 12 FOR WEIGHTS, DIMENSIONS, & BOLT FORCES

#### NOTES:

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

STRENGTH DESIGN IS USED. (ap = 1.0, lp = 1.5, Rp = 1.5,  $\Omega_0$  = 1.5, z/h = 0)

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. SEE GENERAL NOTES: SHEETS 1 AND 2.



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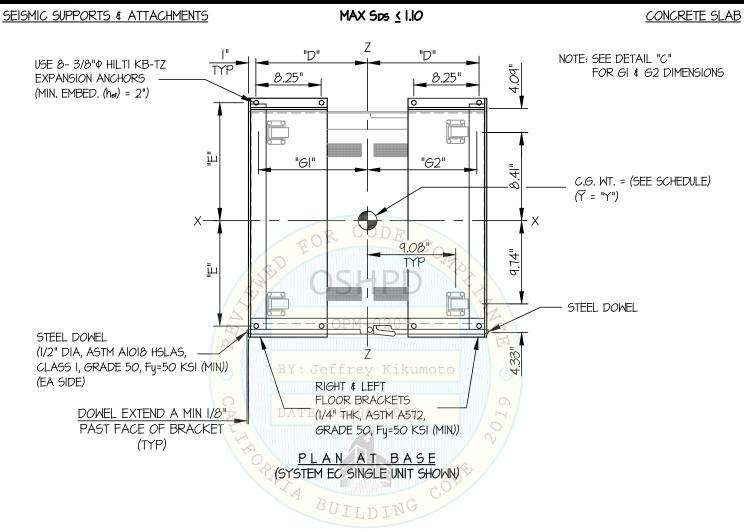
SHEET

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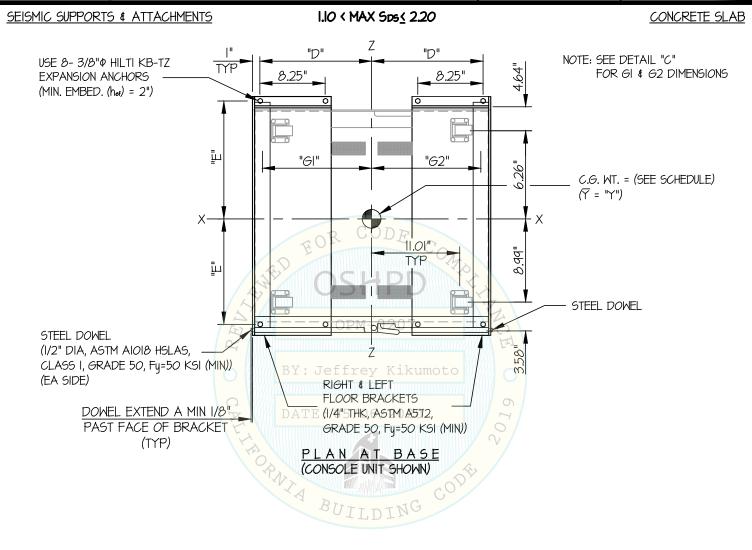
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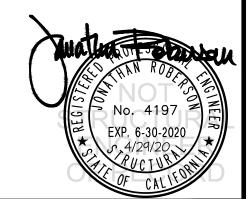
SHEET 5

SINGLE STORAGE CABINETS

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SHEETS

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SINGLE STORAGE CABINETS

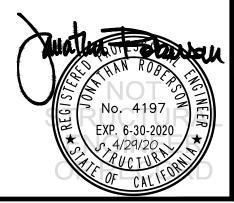
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB

MAX Sos	MODEL	WEIGHT (LB)	"A" (in)	"\" (in)	"B" (in)	"D" (in)	"E" (in)	* T U (lb)	* YU (lb)
2.20	CONSOLE UNIT	360	48.50	24.25	30.00	14.375	11.75	381	161
1.10	MED STATION	1050	46.75	23.38	22.75	10.75	13.25	360	238
1.10	PYXIS STATION SINGLE UNIT	1460	78.06	39.03	30.30	14.53	13.25	1062	330
1.10	SYSTEM 30 SINGLE UNIT	1460	78.06	39.03	30.30	14.53	13.25	1062	330
1.10	SYSTEM EC SINGLE UNIT	1460	78.06	39.03	30.30	J4.53	13.25	1062	330

\* VALUES INCLUDE  $\Omega_{o}$ 

NOTE: VALUES ARE FOR z/h = 0



### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING** www.EquipmentAnchorage.com SHEET

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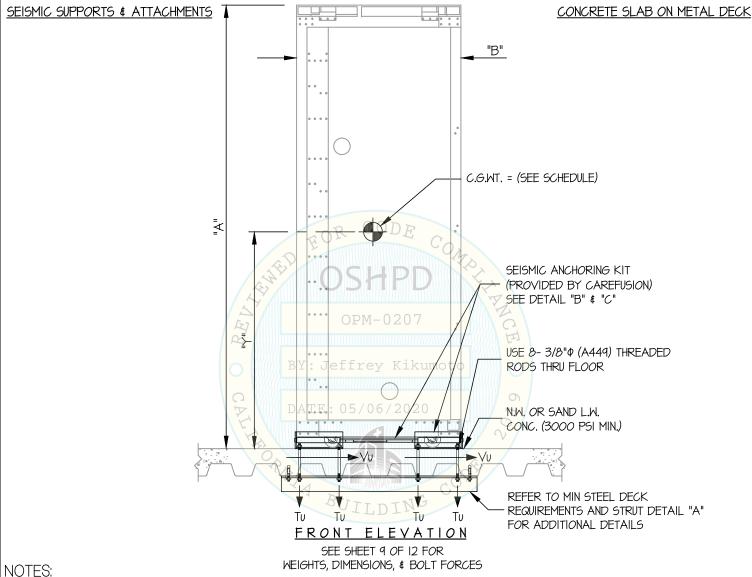
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SINGLÉ STORAGE CABINETS DATE

4/29/20

SHEETS



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

STRENGTH DESIGN IS USED. (SDS = 2.20,  $\Delta p$  = 1.0, |p| = 1.5, Rp = 1.5,  $\Omega_0$  = 1.5, z/h < 1)

HORIZONTAL FORCE (En) = 2.64 Wp

HORIZONTAL FORCE (Emh) = 3.96 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E<sub>V</sub>) = 0.44 W<sub>p</sub>

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.

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.

SEE GENERAL NOTES: SHEETS 1 AND 2.



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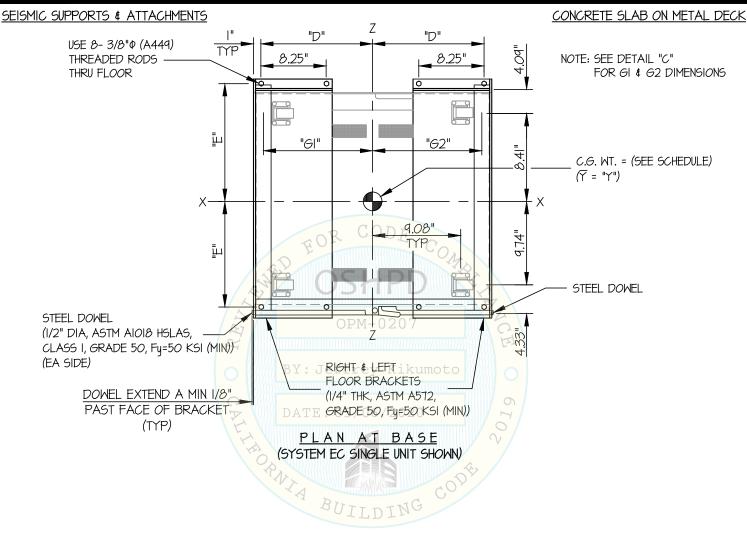
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F 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK

MODEL	WEIGHT (LB)	"A" (in)	"\" (in)	"B" (in)	"D" (in)	"E" (in)	* T U (1b)	* YU (lb)
CONSOLE UNIT	360	48.50	24.25	30.00	14.375	11.75	780	287
MED STATION	1050	46.75	23.38	22.75	10.75	13.25	2469	941
PYXIS STATION SINGLE UNIT	1460	78.06	39.03	30.30	14.53	13.25	4547	1179
SYSTEM 30 SINGLE UNIT	1460	78.06	39.03	30.30	14.53	13.25	4547	1179
SYSTEM EC SINGLE UNIT	1460	78.06	39.03	30.30	14.53	13.25	4547	1179

\* VALUES DO NOT INCLUDE Ω<sub>0</sub>

NOTE: VALUES ARE FOR z/h 1. Jeffrey Kikumoto

DATE: 05/06/2020



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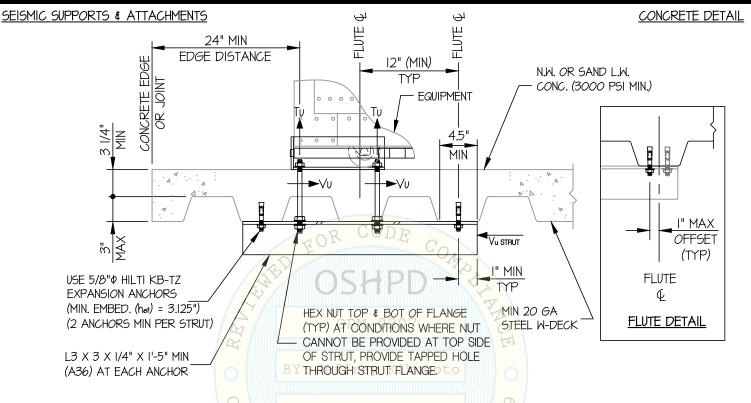
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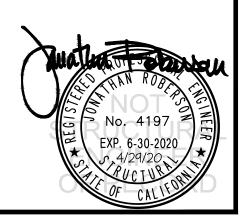
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OF 12 SHEETS

### SINGLÉ STORAGE CABINETS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL



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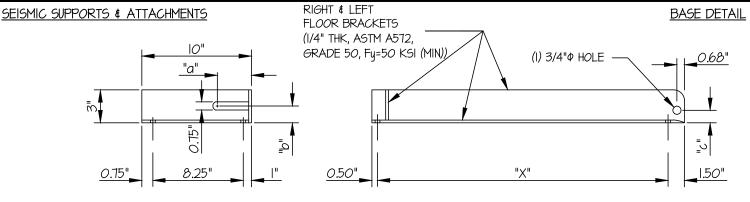
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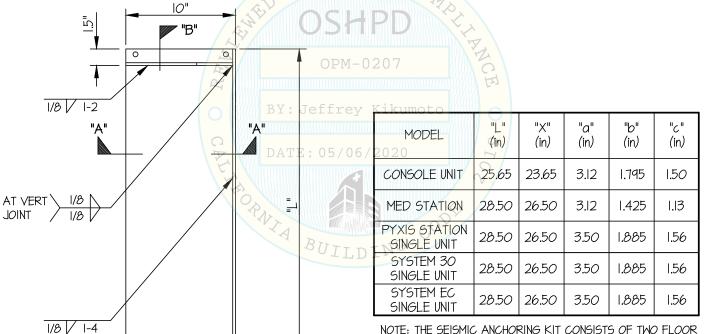
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SECTION A-A

SECTION B-B

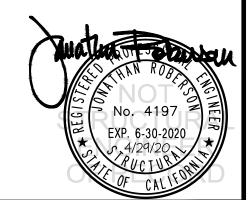


NOTE: THE SEISMIC ANCHORING RIT CONSISTS OF TWO FLOOR BRACKET AND A LEFT FLOOR BRACKET (SHOWN HERE) AND FRAME ASSEMBLY (SEE ASSEMBLY DETAIL "C") (TYP)

 $\frac{P L A N}{\text{(RIGHT FLOOR BRACKET SHOWN)}}$ 

- "B"

BRACKET DETAIL B



(4) 7/16"Φ HOLES

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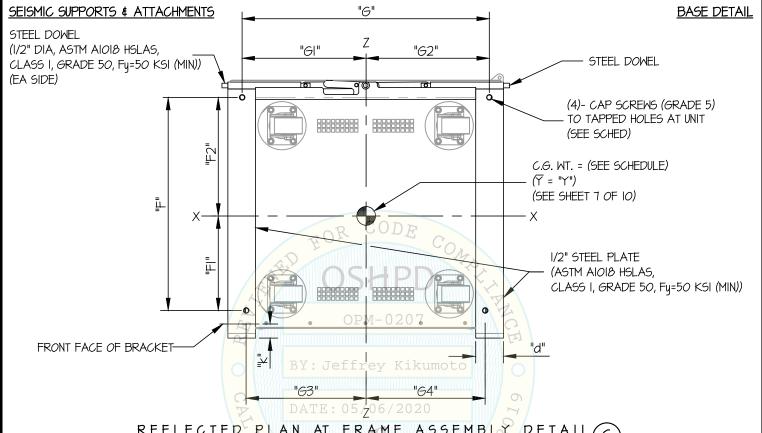
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REFLECTED PLAN AT FRAME ASSEMBLY DETAIL

(FRAME ASSEMBLY SHOP ATTACHED TO UNDERSIDE OF UNIT BY MFG)

MODEL	CAP SCREW DIA (in)	"F" (in)	"F "  / (in)	"F2" (in)	"G" (in)	"GI" (in)	"62" (in)	"d" (in)	"63" (in)	"64" (in)	"k" (in)
CONSOLE UNIT	1/4	21.26	10.08	11.18	28.22	13.82	14.4	2.25	14.15	14.73	0.61
MED STATION	3/8	22.25	10.45	11.8	19.42	9.45	9.97	2.25	9.45	9.97	0.68
PYXIS STATION SINGLE UNIT	1/2	22.98	10.20	12.78	26.66	13.38	13.28	3.00	12.94	12.84	0.68
SYSTEM 30 SINGLE UNIT	1/2	22.98	10.20	12.78	26.66	13.38	13.28	3.00	12.94	12.84	0.68
SYSTEM EC SINGLE UNIT	1/2	22.98	10.20	12.78	26.66	13.38	13.28	3.00	12.94	12.84	0.68

NOTE: THE SEISMIC ANCHORING KIT CONSISTS OF TWO FLOOR BRACKETS, A RIGHT FLOOR BRACKET AND A LEFT FLOOR BRACKET (SEE DETAIL "B") AND FRAME ASSEMBLY (SHOWN ABOVE) (TYP)

