



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

**APPLICATION FOR OSHPD PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)**

OFFICE USE ONLY

APPLICATION #: OPM-0612

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: AGFA Healthcare Corporation

Manufacturer's Technical Representative: Brendan Conley

Mailing Address: 10 South Academy Street, Greenville, SC 29601

Telephone: (214) 548-7214 Email: brendan.conley@agfa.com

Product Information

Product Name: DR 800 Tilting Wall Stand

Product Type: Other Mechanical & Electrical Components

Product Model Number: N/A

General Description: Wall Stand for the DR 800 System

Applicant Information

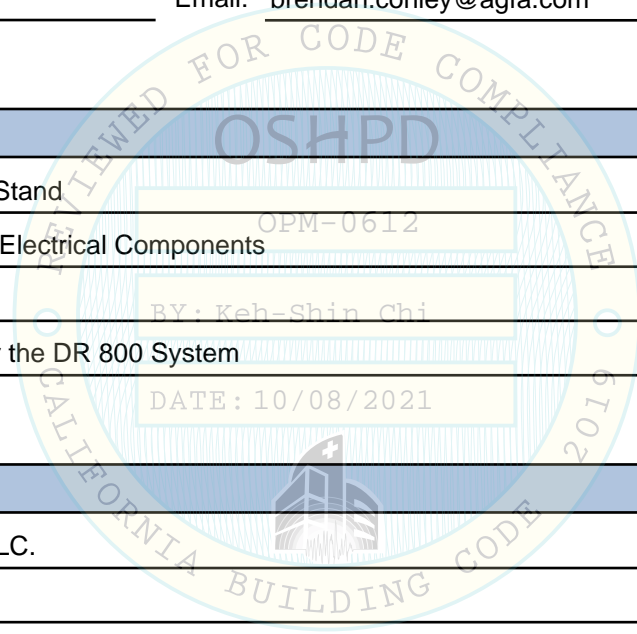
Applicant Company Name: EASE LLC.

Contact Person: Tiffany Tonn

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

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

Title: 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 Professional 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: 0526

Certification Method

Testing in accordance with: ICC-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.

Analysis
 Experience Data
 Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

OSHPD Approval

Date: 10/8/2021
Name: Keh-Shin Chi Title: Senior Structural Engineer
Condition of Approval (if applicable): _____

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**EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**

5877 Pine Ave, Ste. 210
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Phn: (909) 606-7622

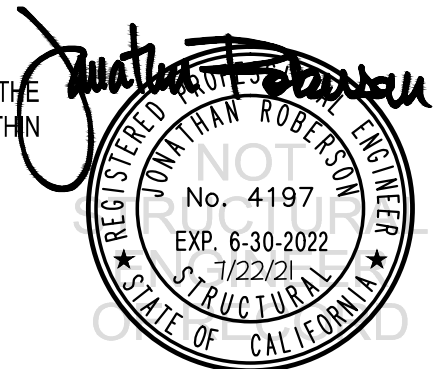
Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0612

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **AGFA HEALTHCARE CORP** Sheet: 1 of 7
EQUIPMENT NAME: **DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER** Date: 7/22/21

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 S_Ds IS NOT GREATER THAN 2.0.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_Ds = 2.00$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h = 0$ AT CONCRETE SLAB & $z/h \leq 1$ 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. $z/h \leq 1$)
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 S_Ds & z/h RESULT IN SEISMIC FORCES (E_h , E_v) 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 $6h_{ef}$ FROM THIS UNIT'S ANCHORS.



AGFA HEALTHCARE CORP

DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER

DES. J. ROBERSON

JOB NO. 11-2011

DATE 7/22/21

SHEET

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OF 7 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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	1.5"	6"	12"	3.25"	30 FT-LB	773 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.

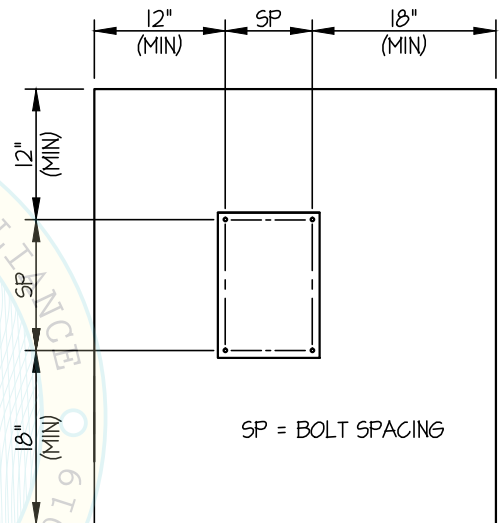
C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.

(i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION 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.



TYPICAL CONCRETE EDGE DETAIL



AGFA HEALTHCARE CORP

DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER

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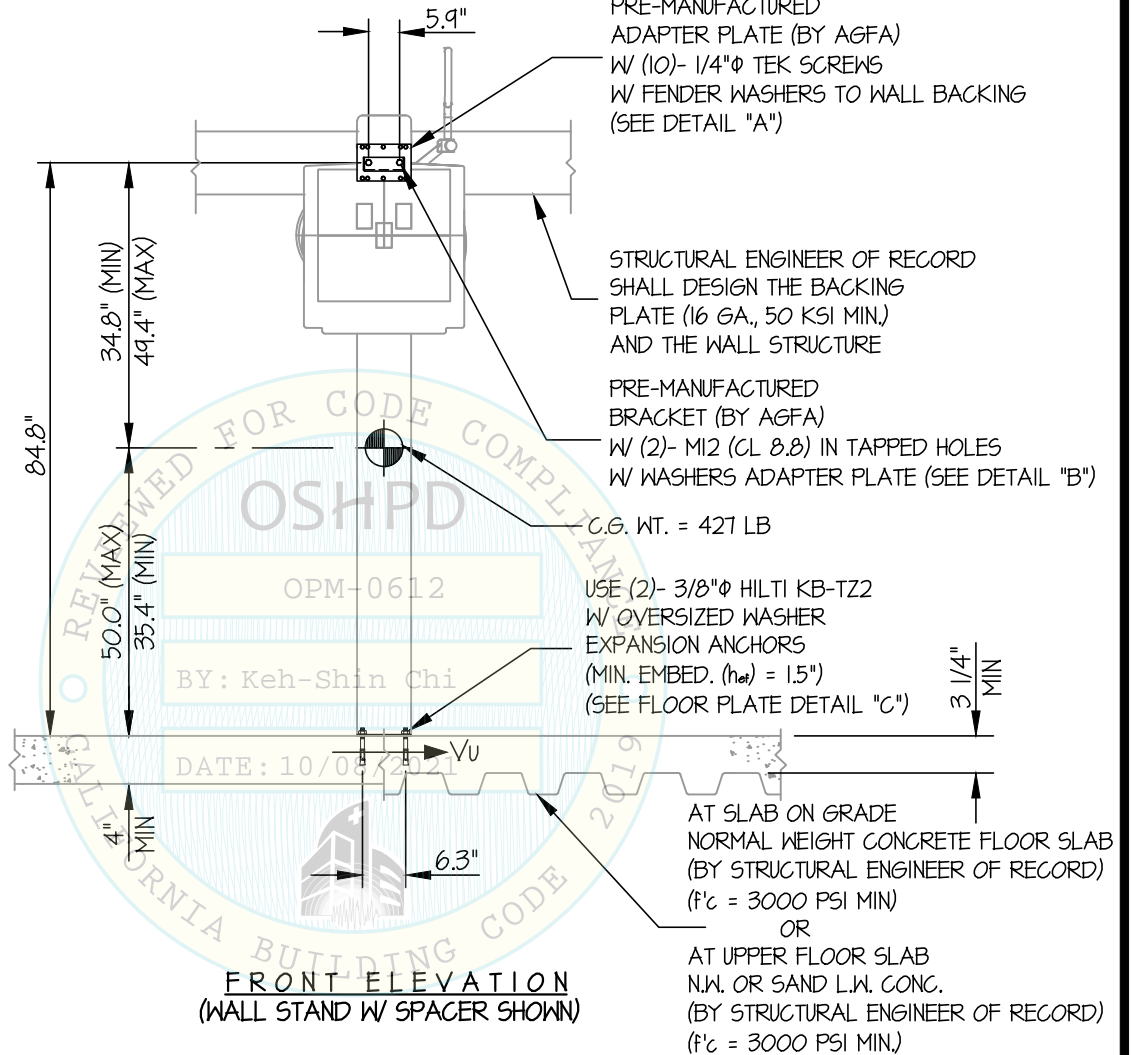
SHEET

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OF 7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB / METAL DECK / WALL MOUNTED



T_{U WALL} = 278 LB/BOLT (MAX)
V_{U WALL} = 61 LB/BOLT (MAX)
(VALUES DO NOT INCLUDE Ω₂)

V_{U FLOOR} = 597 LB/BOLT (MAX)
(VALUE INCLUDES Ω₂)

NOTES:

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

STRENGTH DESIGN IS USED. (S_{ds} = 2.00, α_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_o = 2.0, z/h ≤ 1)

HORIZONTAL FORCE (E_h) = 2.40 W_p

HORIZONTAL FORCE (E_{mh}) = 4.80 W_p (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = 0.40 W_p

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. DR 800 MOTORIZED TILTING BUCKY (UUT-12) HAS OBTAINED SPECIAL SEISMIC CERTIFICATION REFER TO OSP-0526.



AGFA HEALTHCARE CORP

DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER

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JOB NO. **11-2011**

DATE **7/22/21**

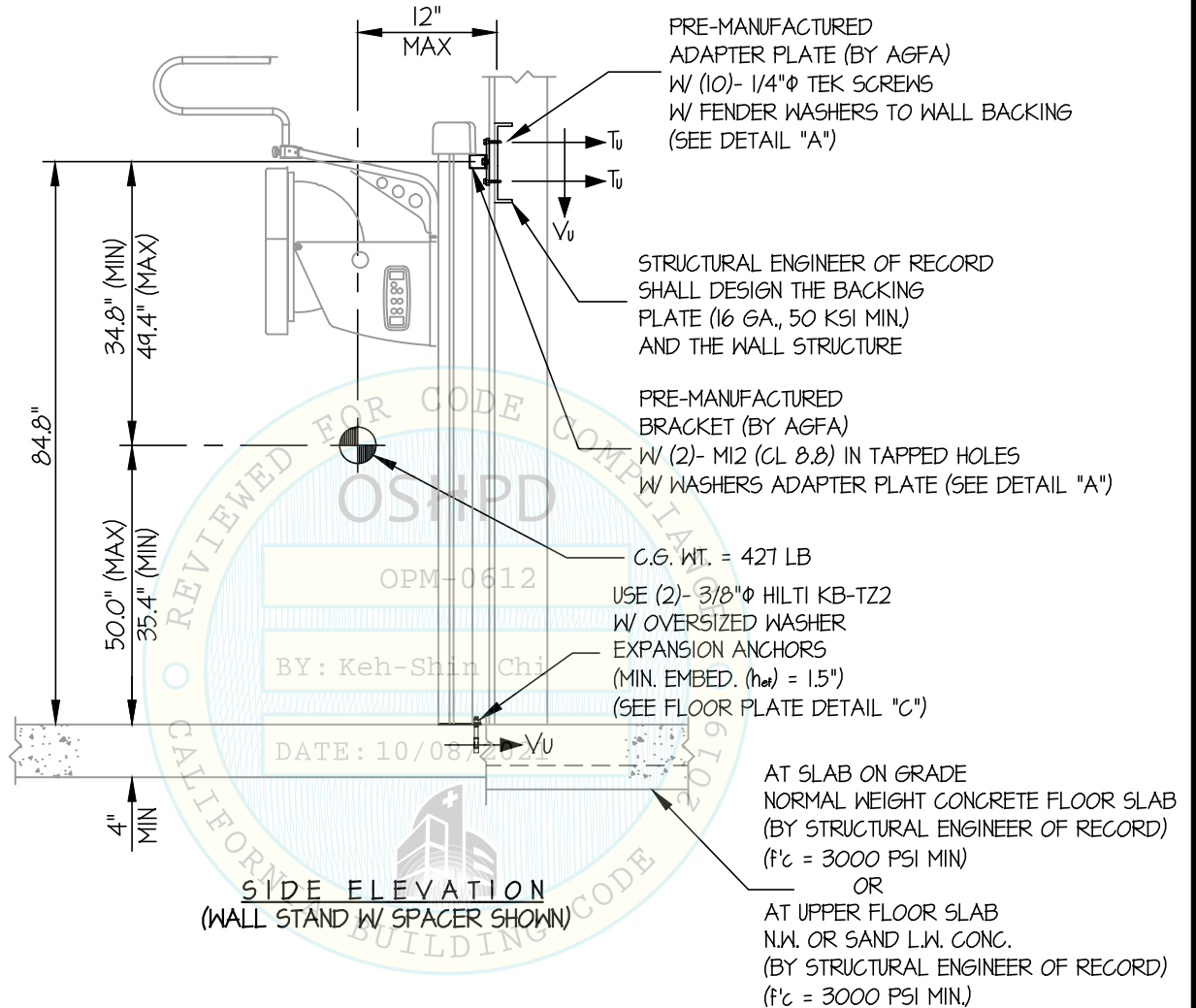
SHEET

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OF **7** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB / METAL DECK / WALL MOUNTED



Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2022
7/22/21
STRUCTURAL
STATE OF CALIFORNIA

AGFA HEALTHCARE CORP

DES. **J. ROBERSON**

SHEET

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**DR 800 TILTING WALLSTAND
WITH AND WITHOUT SPACER**

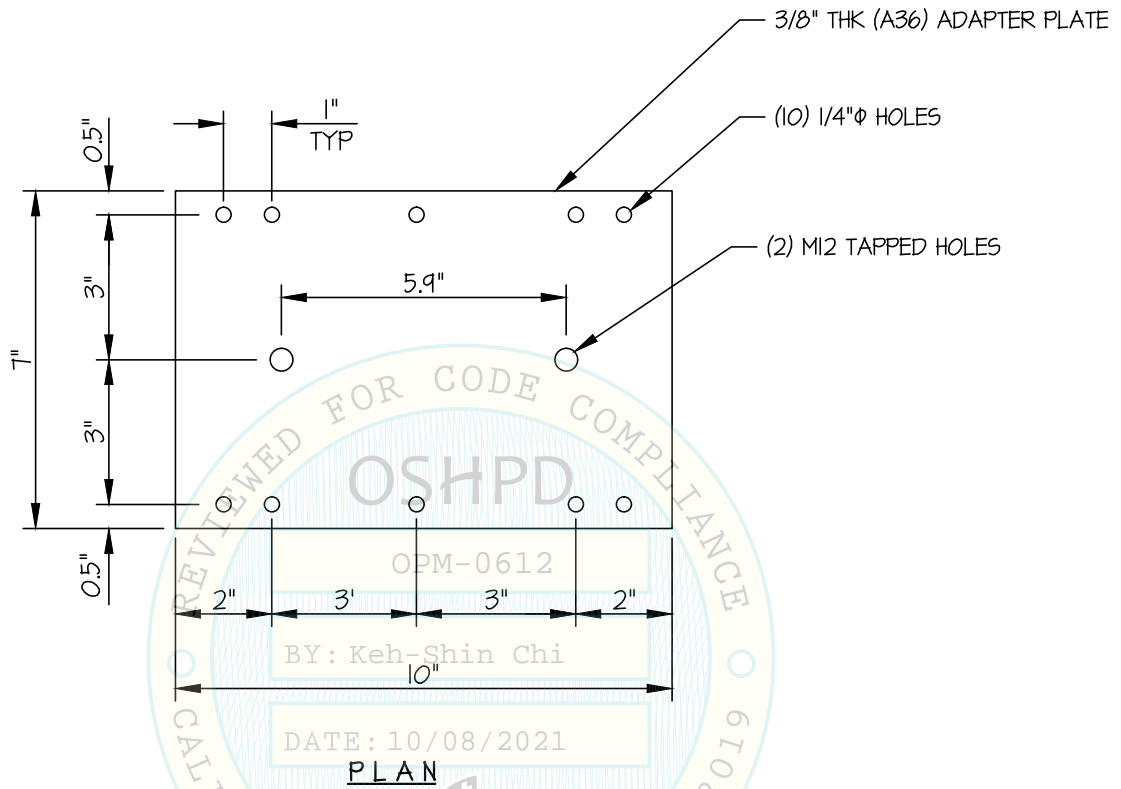
JOB NO. **11-2011**

DATE **7/22/21**

OF **7** SHEETS

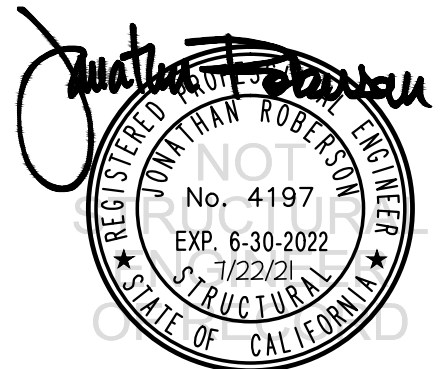
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



ADAPTER PLATE DETAIL (A)

NOTE: VERIFIED THROUGH SHAKE
TABLE TESTING PER OSP-0526



AGFA HEALTHCARE CORP

DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER

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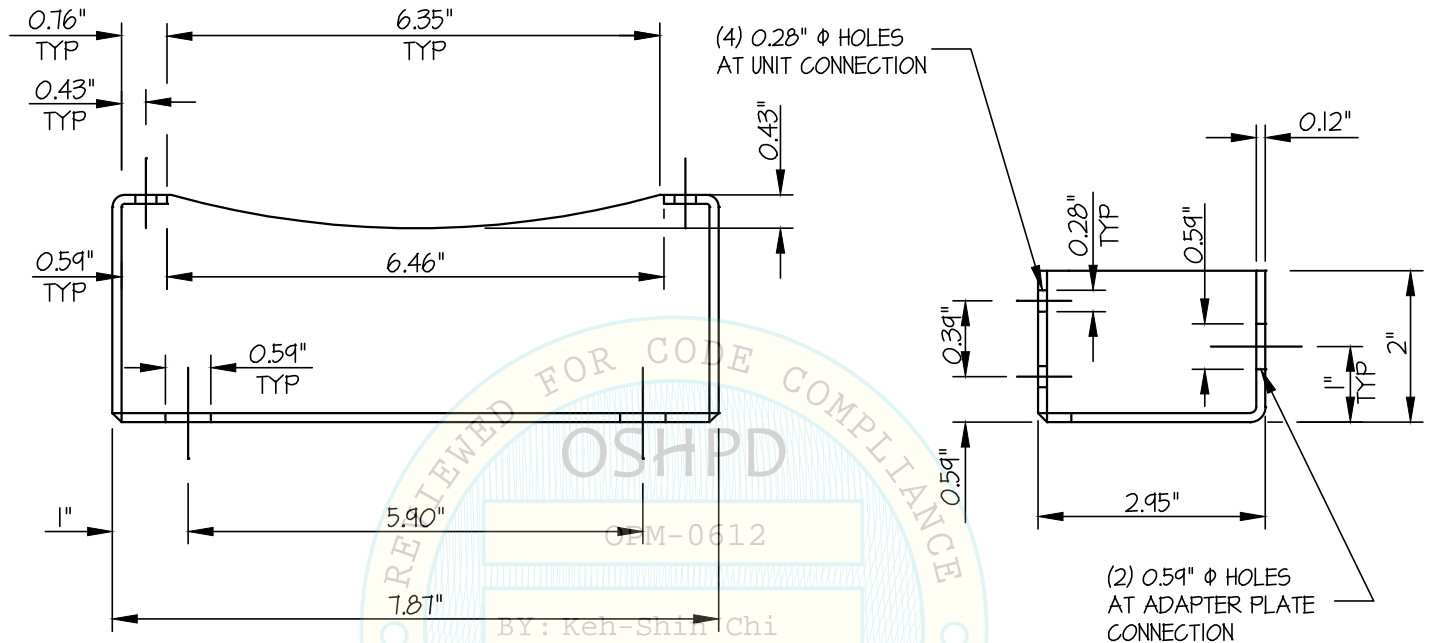
SHEET

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OF 7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



PLAN

DATE: 10/08/2021

SECTION

ADAPTER PLATE DETAIL (B)

NOTE: VERIFIED THROUGH SHAKE
TABLE TESTING PER OSP-0526



AGFA HEALTHCARE CORP

DES. **J. ROBERSON**

SHEET

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DR 800 TILTING WALLSTAND WITH AND WITHOUT SPACER

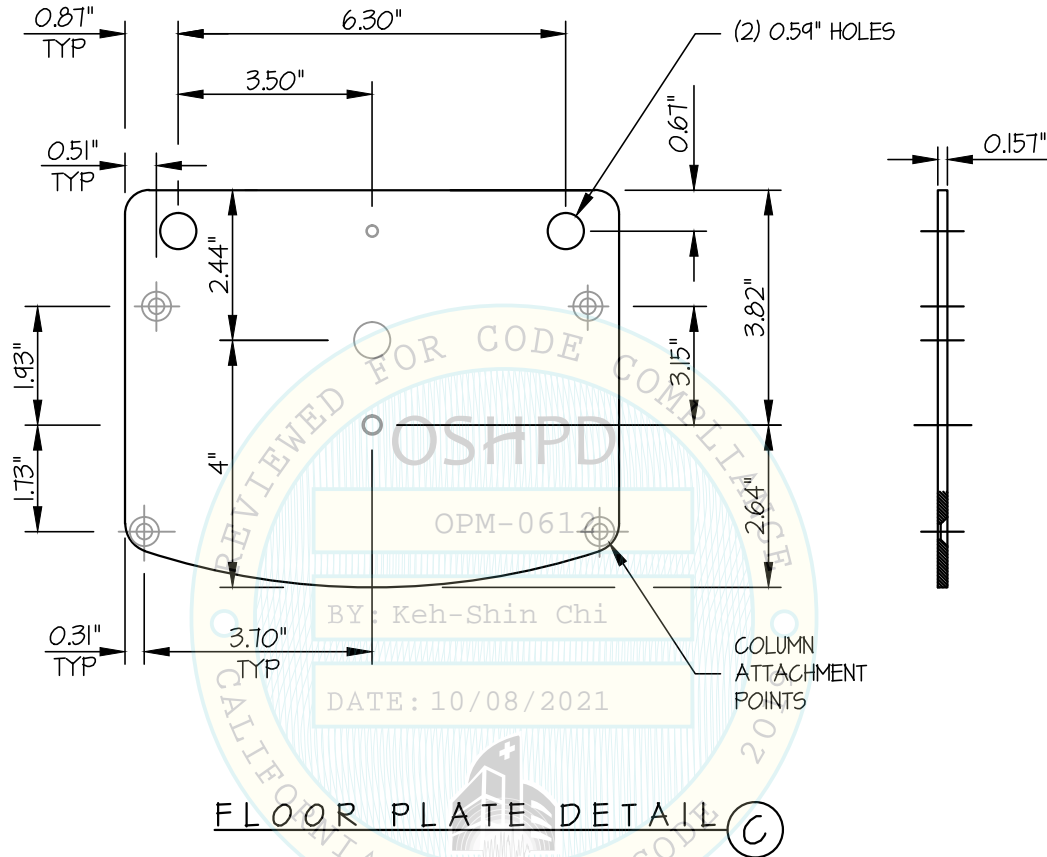
JOB NO. **11-2011**

DATE **7/22/21**

OF **7** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



NOTE: VERIFIED THROUGH SHAKE TABLE TESTING PER OSP-0526

