

APPLICATION FOR OSHPD PREAPPROVAL OF

MANUFACTURER'S CERTIFICATION (OPM)  APPLICATION #: OPM-0464-19										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: ⊠ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: CRIMSON AV										
Manufacturer's Technical Representative: Tony Politz										
Mailing Address: 10513 United Parkway, Sciller Park, IL. 60176										
Telephone: On File Email Don File										
Product Information										
Product Name: T55 Low Profile Wall Mounts										
Product Type: Other electrical and mechanical components 464-19										
Product Model Number: T55										
General Description: Low profile, tilting wall mount										
DATE: 12/13/2019										
Applicant Information										
Applicant Company Name: EASE Co.										
Contact Person: Jonathan Roberson, S.E.										
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709										
Telephone: _(909) 606-7622										
Signature of Applicant: Date: 1/24/18										
Title: Principal Engineer Company Name: EASE Co.										
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"										
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY  "Equitable Healthcare Accessibility for California"										

Page 1 of 2

OSH-FD-700 (REV 12/16/15)

OFFICE USE ONLY



# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations									
Company Name: EASE Co.									
Name: Jonathan Roberson, S.E. California License Number: S4197									
Mailing Address:5877 Pine Ave. Suite 210, Chino Hills, CA. 91709									
Telephone: 909-606-7622 Email: J.Roberson@EASECo.com									
OSHPD Special Seismic Certification Preapproval (OSP)									
<ul> <li>Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>Special Seismic Certification is not preapproved</li> </ul>									
Certification Method(s)									
<ul> <li>☐ Testing in accordance with:</li> <li>☐ Other* (Please Specify):</li> </ul> ☐ ICC-ES AC156 ☐ FM 1950-16 ☐ FM 1950-16									
*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  Experience Data  Combination of Tasting, Analysis and/or Experience Data  (Please Specific)									
Combination of Testing, Analysis, and/or Experience Data (Please Specify):									
List of Attachments Supporting the Manufacturer's Certification									
<ul> <li>☐ Test Report</li> <li>☐ Other(s) (Please Specify):</li> </ul>									
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS									
Signature: Date:									
Condition of Approval (if applicable):									

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





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-0464-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: CRIMSON AV LLC. EQUIPMENT NAME: T55 WALL MOUNT

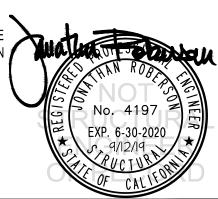
Sheet: <u>1 of 7</u> Date: 9/12/19

### **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 2.20.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.20  $a_p$  = 1.0,  $I_p$  = 1.5,  $R_p$  = 1.5, Z/R < 1 CONCRETE WALL. SEE FOLLOWING SHEETS FOR  $\Omega_0$
- 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 WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/h < 1)

#### 8. 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 WALL 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 CONCRETE WALL 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.
- G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



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### CRÍMSON AV LLC.

## **755 WALL MOUNT**

DES. J. ROBERSON
JOB NO. 11-1802

DATE 9/12/19 OF

2

SHEET

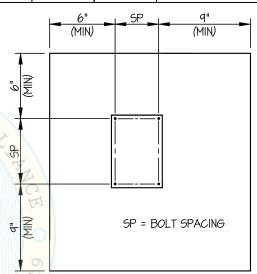
7 SHEETS

### 9. EXPANSION ANCHORS:

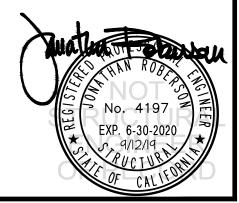
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	(hef) Min. Embed.		Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension
1/4"	Normal Weight	3000	Hilti Kwik HUS	ESR-3027	1.92"	6"	6"	6"	N/A	779 lb

- B. TESTING OF CONCRETE SCREW ANCHORS PER 2019 CBC, 1910A.5: TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD
  - (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.
  - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS. Jeffrey Kikumoto
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE WALL WHEN INSTALLING CONCRETE SCREW ANCHORS: 12/13/2019



TYPICAL CONCRETE EDGE DETAIL



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## CRIMSON AV LLC.

## T55 WALL MOUNT

DES. J. ROBERSON

11-1802 JOB NO.

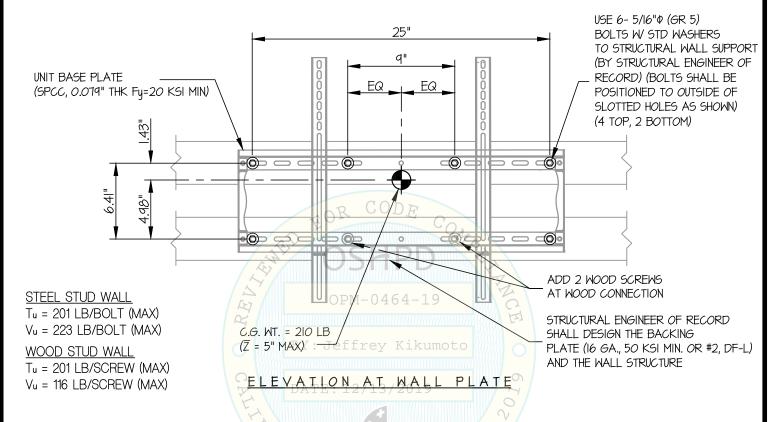
9/12/19 DATE

SHEET

OF SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



#### NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 220, 2p = 1.0, 1p = 1.5, Rp = 1.5,  $z/h \le 1$ )

HORIZONTAL FORCE (En) = 2.64 Wp VERTICAL FORCE (Ev) = 0.44 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. SEE GENERAL NOTES: SHEET 1 AND 2

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## CRIMSON AV LLC.

**T55 WALL MOUNT** 

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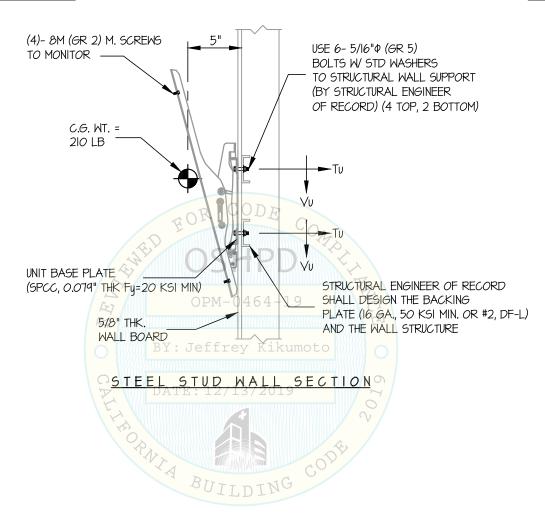
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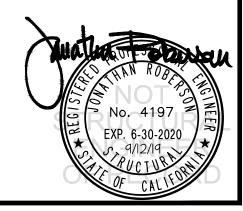
4

OF SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED





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OF

## CRIMSON AV LLC.

## **755 WALL MOUNT**

DES. J. ROBERSON

JOB NO. 11-1802

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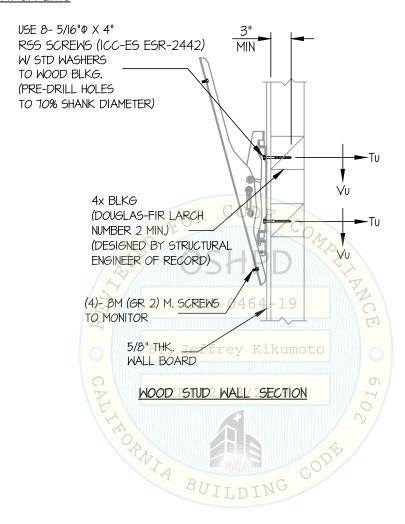
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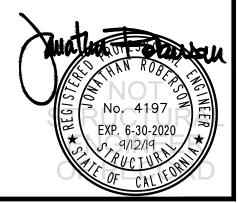
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#### SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

SHEETS





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## CRIMSON AV LLC.

## 755 WALL MOUNT

DES. J. ROBERSON

**JOB NO.** 11-1802

DATE 9/12/19

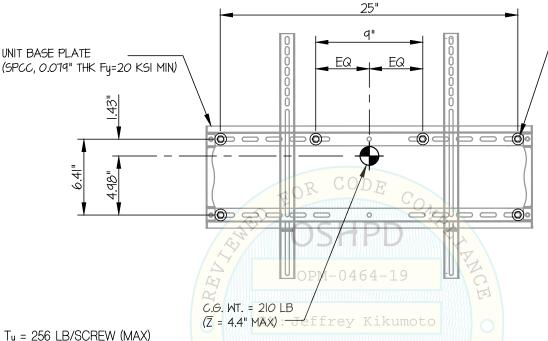
SHEET

7 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

### <u>WALL MOUNTED</u>

USE 6- 1/4" HILTI HUS-EZ SCREW ANCHORS W/ STD WASHERS (MIN. EMBED. (he) = 1.92") /TO CONCRETE WALL (BOLTS SHALL BE POSITIONED TO OUTSIDE OF SLOTTED HOLES AS SHOWN) (4 TOP, 2 BOTTOM)



### NOTES:

Vu = 330 LB/SCREW (MAX)

(VALUES INCLUDE  $\Omega$ )

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  $\in$  1.5,  $\Omega_0$  = 1.5, z/h = 0)

HORIZONTAL FORCE (En) = 2.64 Wp

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

VERTICAL FORCE (Ev) = 0.44 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.

ELEVATION2/AT/WALL PLATE

- 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: SHEET 1 AND 2

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OF

## CRIMSON AV LLC.

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SHEET

7

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

