



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

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

OFFICE USE ONLY	
APPLICATION #:	OPM-0090-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal Update to Pre-CBC 2013 OPA Number: _____

Manufacturer Information

Manufacturer: Right Height Manufacturing

Manufacturer's Technical Representative: Mike Kind

Mailing Address: 150 Dow Street Tower 4, Manchester, NH 03101

Telephone: (603) 493-6882 Email: mkind@rightheightmfg.com

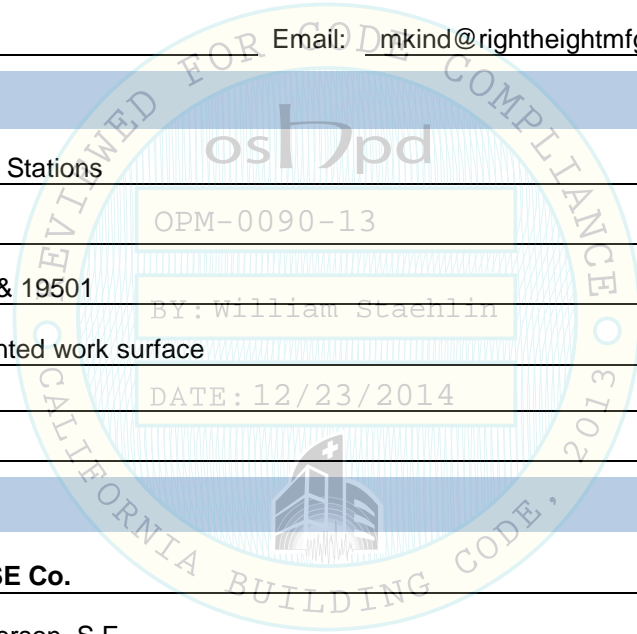
Product Information

Product Name: StableRise Wall Stations

Product Type: Workstation

Product Model Number: 18501 & 19501

General Description: Wall mounted work surface



Applicant Information

Applicant Company Name: EASE Co.

Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709

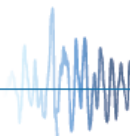
Telephone: (909) 606-7622 Email: J.Roberson@EASECo.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: _____ Date: 3/28/14

Title: Principal Engineer Company Name: EASE Co.

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





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: 909-606-7667

Email: J.Roberson@EASECo.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 1950-10

Other* (Please Specify): _____

*Use of test criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 may be used when approved by OSHPD prior to testing.

Analysis

Experience Data

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 2013 ONLY

Signature: William Staehlin

Date: 12/23/2014

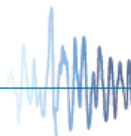
Print Name: William Staehlin

Title: SSE

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 1/24/13)



osHPD



**EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**

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-0090-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: **RIGHT HEIGHT MANUFACTURING**
EQUIPMENT NAME: **STABLE RISE WALL STATIONS**

Sheet: 1 of 10
Date: 12/22/14

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 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 2013 CALIFORNIA BUILDING CODE.
4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{Ds} = 1.5$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$. (P & S HEAD)
WHERE $S_{Ds} = 1.9$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$. (FIXED BRACKET AND EXTENDER & P & S HEAD)
WHERE $S_{Ds} = 2.2$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$. (EXTENDER & FIXED BRACKET)
5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 1.5, 1.9 & 2.2.
6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
7. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
8. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING
 - A. PROVIDE SUPPORTING STRUCTURE REQUIRED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
 - B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
 - C. VERIFY THAT THE COMBINATION OF S_{Ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.
 - D. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



RIGHT HEIGHT MANUFACTURING

STABLERISE WALL STATIONS W/ FIXED BRACKET OR P&S HEAD

DES. **J. ROBERSON**

JOB NO. **11-1415**

DATE **12/22/14**

SHEET

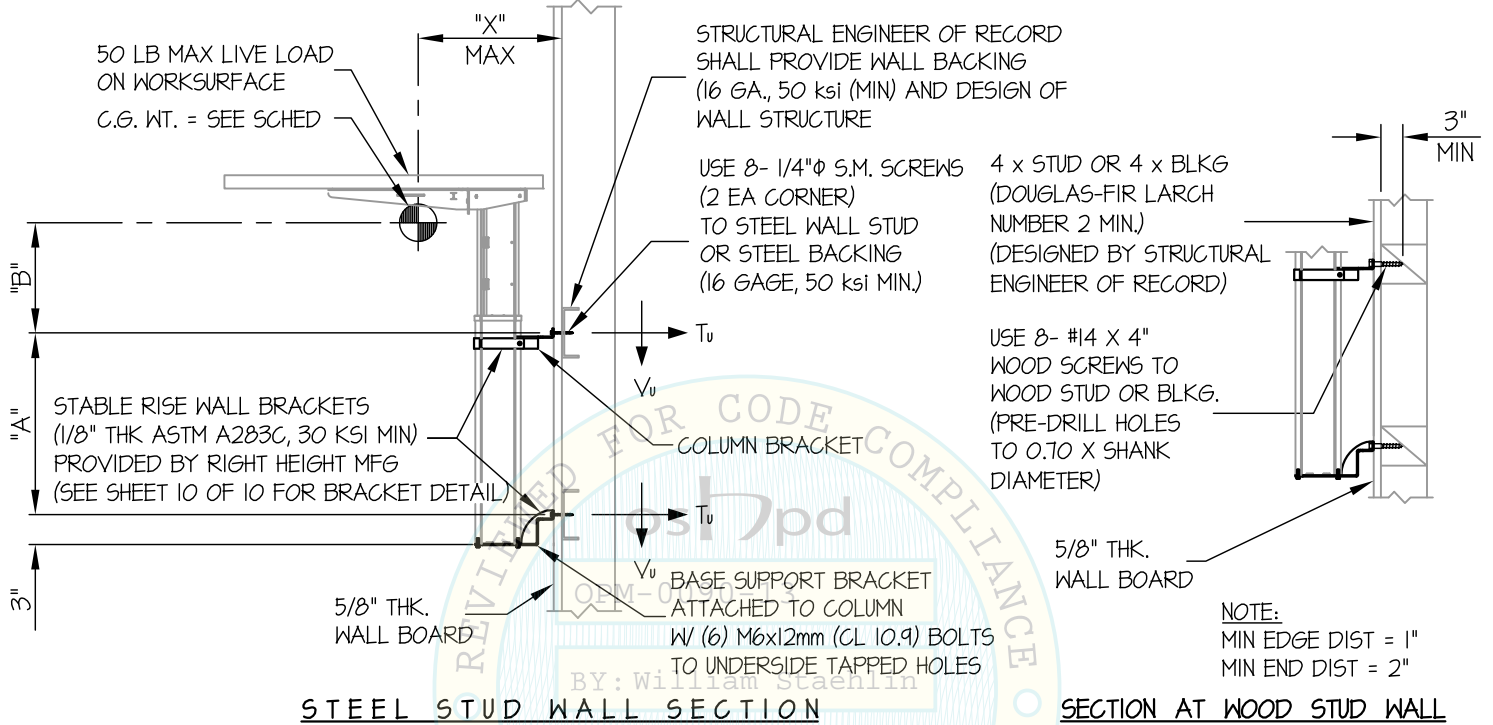
2

OF **10** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

MAX Sps ≤ 150

WALL MOUNTED

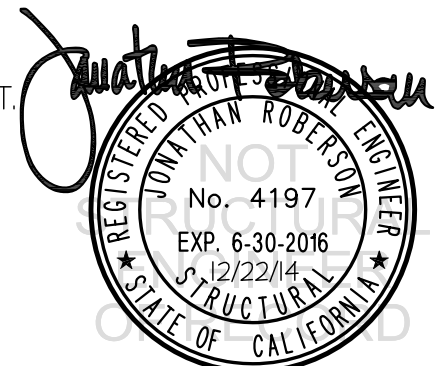


UNIT OPTIONS	MAX Sps	TOTAL* WT (lb.)	"A" (in.)	"B" (in.)	"X" (in.)	T _u (lb.)	V _u (lb.)
FIXED BRACKET	150	121	17.125	10.375	13.375	295	57
P&S HEAD	150	102	17.125	9.50	18.625	335	43

* TOTAL WT = WEIGHT OF WALL STATION SYSTEM + 50 LB (MAX) LIVE LOAD AT WORKSURFACE

NOTES:

- FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ($a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
- 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: SHEET 1.



RIGHT HEIGHT MANUFACTURING

STABLERISE WALL STATIONS W/ FIXED BRACKET OR P&S HEAD

DES. **J. ROBERSON**

JOB NO. **11-1415**

DATE **12/22/14**

SHEET

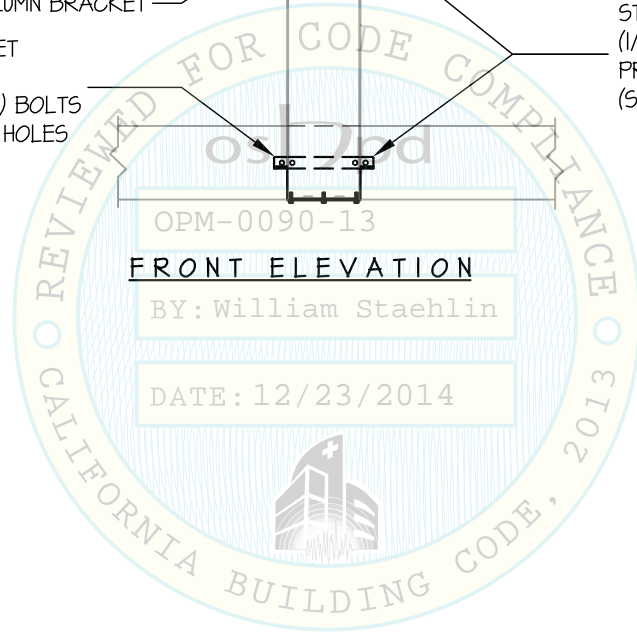
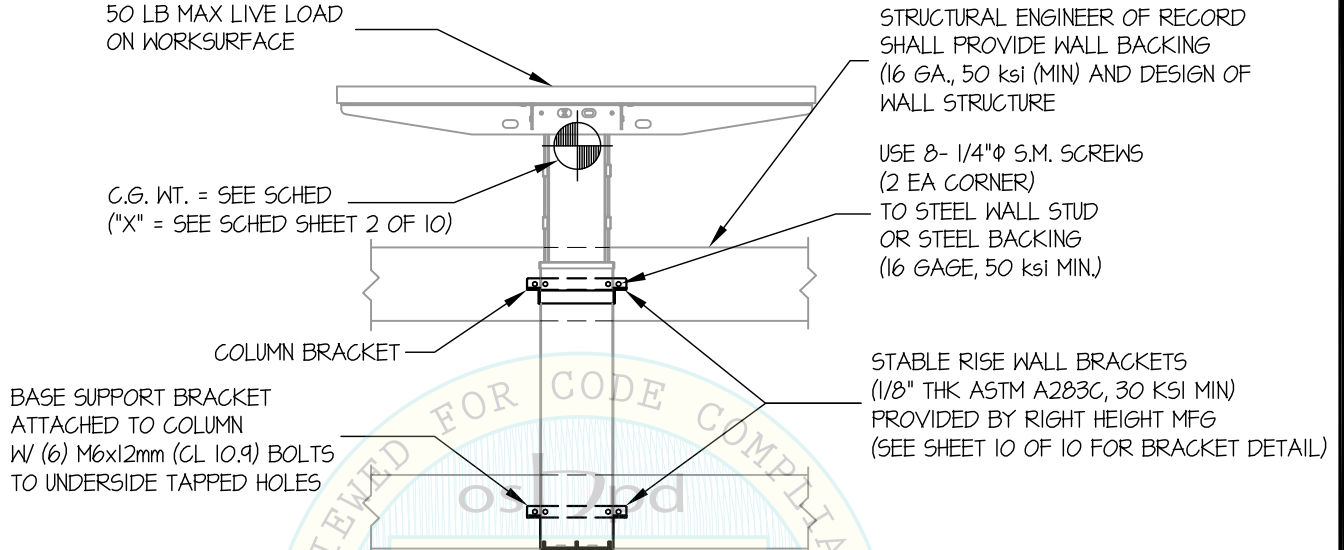
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OF **10** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

MAX Sps \leq 150

WALL MOUNTED



RIGHT HEIGHT MANUFACTURING

DES. **J. ROBERSON**

SHEET

4

STABLERISE WALL STATIONS W/ FIXED BRACKET OR P&S HEAD

JOB NO. **11-1415**

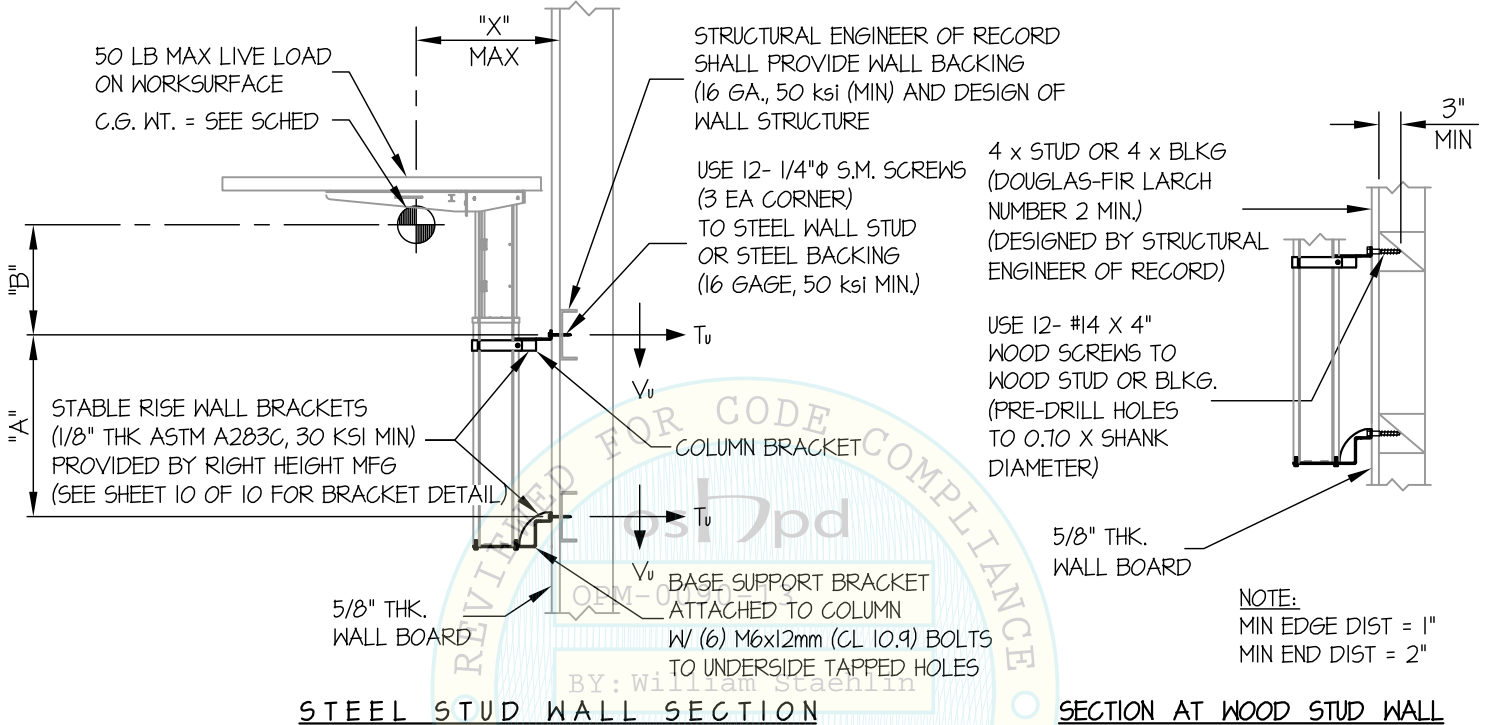
DATE **12/22/14**

OF **10** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

150 < MAX Sps ≤ 220

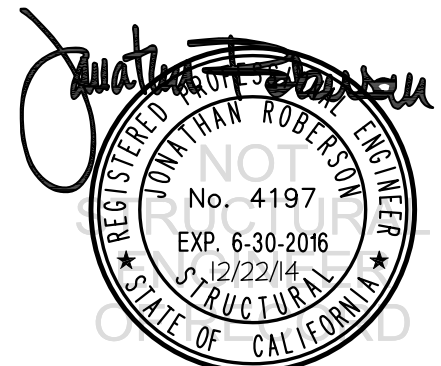
WALL MOUNTED



DATE: 12/23/2014

UNIT OPTIONS	MAX Sps	TOTAL* WT (lb.)	"A" (in.)	"B" (in.)	"X" (in.)	Tu (lb.)	Vu (lb.)
FIXED BRACKET	220	121	17.125	10.375	13.375	304	54
P&S HEAD	220	102	17.125	9.500	18.625	342	44

* TOTAL WT = WEIGHT OF WALL STATION SYSTEM + 50 LB (MAX) LIVE LOAD AT WORKSURFACE



RIGHT HEIGHT MANUFACTURING

STABLE RISE WALL STATIONS W/ FIXED BRACKET OR P&S HEAD

DES. **J. ROBERSON**

JOB NO. **11-1415**

DATE **12/22/14**

SHEET

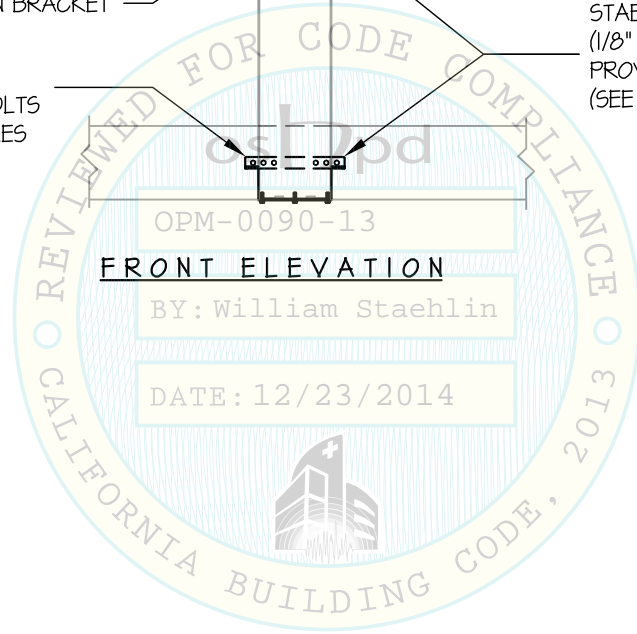
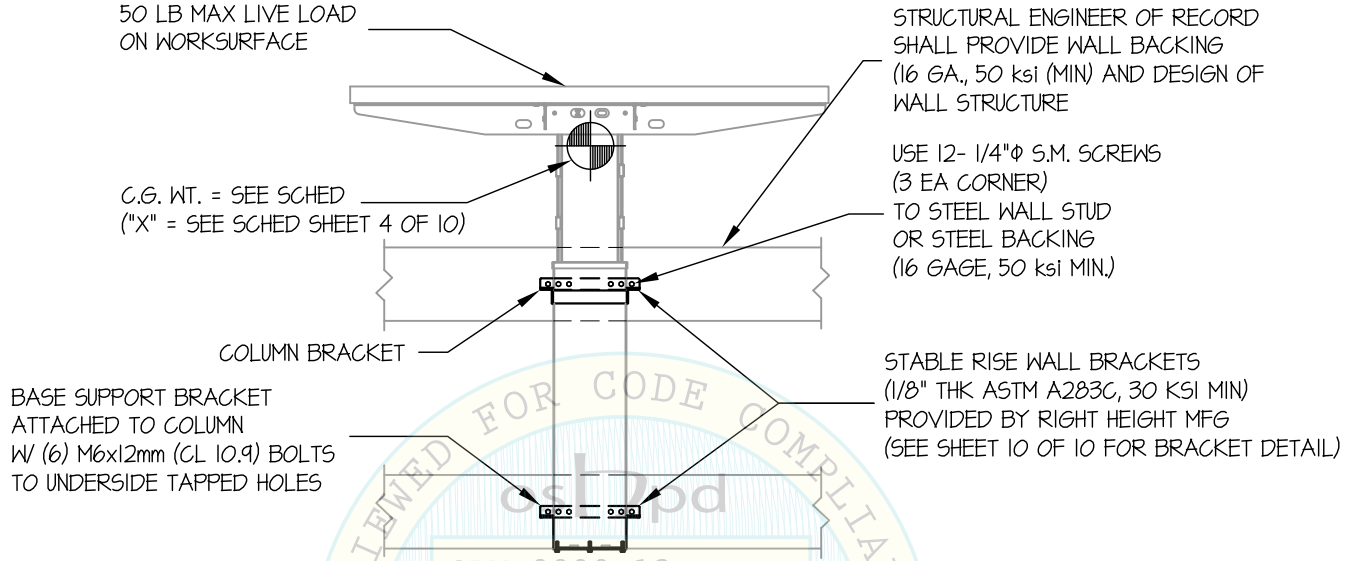
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OF **10** SHEETS

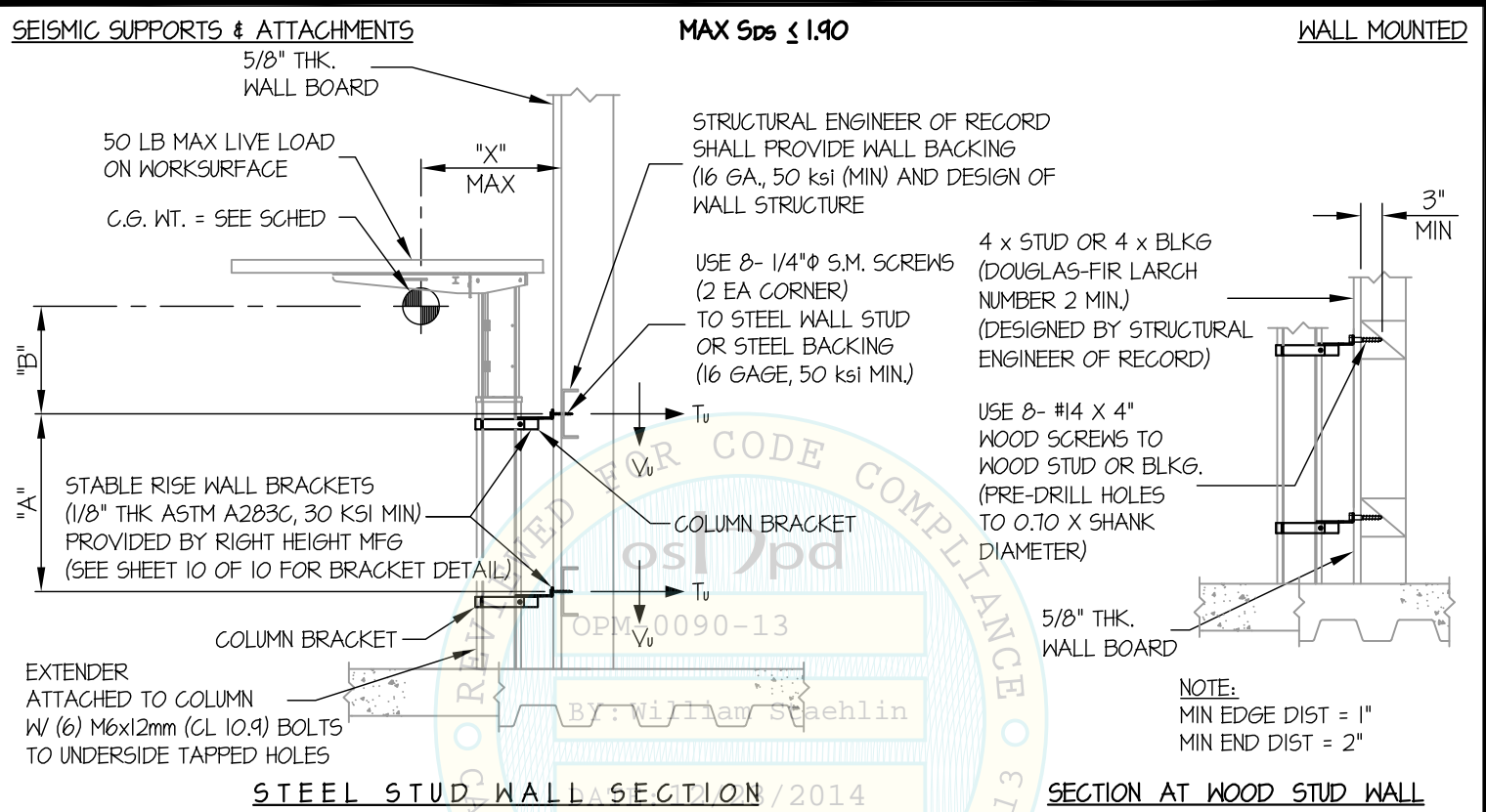
SEISMIC SUPPORTS & ATTACHMENTS

1.50 < MAX Sps ≤ 2.20

WALL MOUNTED



<h2>RIGHT HEIGHT MANUFACTURING</h2> <h3>STABLERISE WALL STATIONS</h3> <h4>W/ FIXED BRACKET OR P&S HEAD, W/ EXTENDER</h4>	DES. J. ROBERSON	SHEET <h1>6</h1> OF 10 SHEETS
	JOB NO. 11-1415	
	DATE 12/16/14	



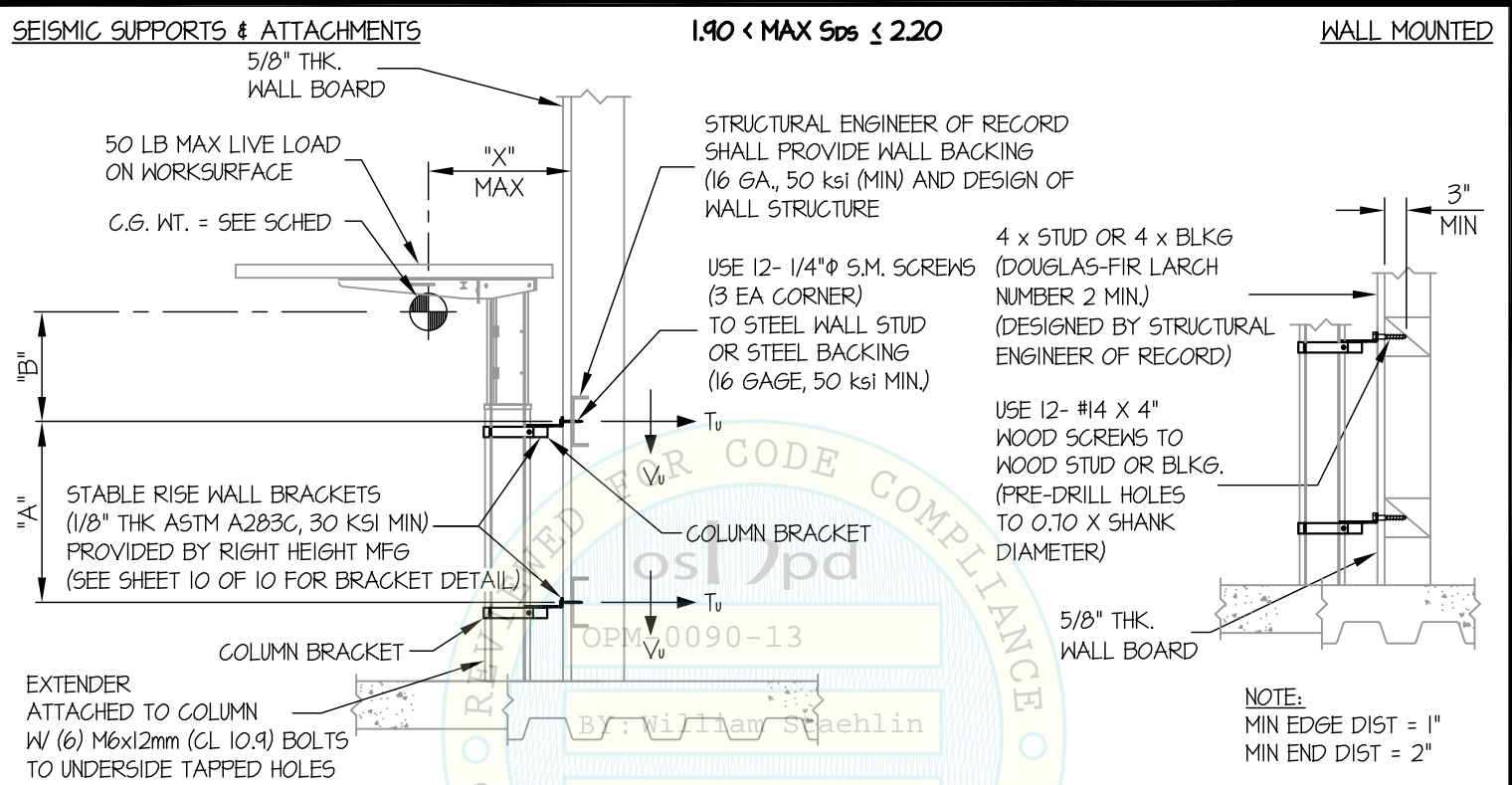
UNIT OPTIONS	MAX Sps	TOTAL* WT (lb.)	"A" (in.)	"B" (in.)	"X" (in.)	Tu (lb.)	Vu (lb.)
EXTENDER & FIXED BRACKET	190	124	18.875	9.625	13.25	315	64
EXTENDER & P&S HEAD	190	105	18.875	8.625	18.25	349	53

* TOTAL WT = WEIGHT OF WALL STATION SYSTEM + 50 LB (MAX) LIVE LOAD AT WORKSURFACE

- NOTES:**
- FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ($a_p = 1.0$, $l_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
 - 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: SHEET 1.



<h2>RIGHT HEIGHT MANUFACTURING</h2> <h3>STABLERISE WALL STATIONS</h3> <h4>W/ FIXED BRACKET OR P&S HEAD, W/ EXTENDER</h4>	DES. J. ROBERSON	SHEET <h1 style="font-size: 2em;">8</h1> OF 10 SHEETS
	JOB NO. 11-1415	
	DATE 12/16/14	



STEEL STUD WALL SECTION / 2014

SECTION AT WOOD STUD WALL

UNIT OPTIONS	MAX Sps	TOTAL* WT (lb.)	"A" (in.)	"B" (in.)	"X" (in.)	Tu (lb.)	Vu (lb.)
EXTENDER & FIXED BRACKET	220	124	18.875	9.625	13.25	265	50
EXTENDER OR P&S HEAD	220	105	18.875	8.625	18.25	294	41

* TOTAL WT = WEIGHT OF WALL STATION SYSTEM + 50 LB (MAX) LIVE LOAD AT WORKSURFACE

- NOTES:**
- FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ($a_p = 1.0$, $l_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
 - 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: SHEET 1.



RIGHT HEIGHT MANUFACTURING STABLERISE WALL STATIONS W/ FIXED BRACKET OR P&S HEAD, W/ EXTENDER	DES. J. ROBERSON	SHEET 9 OF 10 SHEETS
	JOB NO. 11-1415	
	DATE 12/16/14	

SEISMIC SUPPORTS & ATTACHMENTS 1.90 < MAX Sps ≤ 2.20 WALL MOUNTED

50 LB MAX LIVE LOAD ON WORKSURFACE

C.G. WT. = SEE SCHED
("X" = SEE SCHED SHEET 8 OF 10)

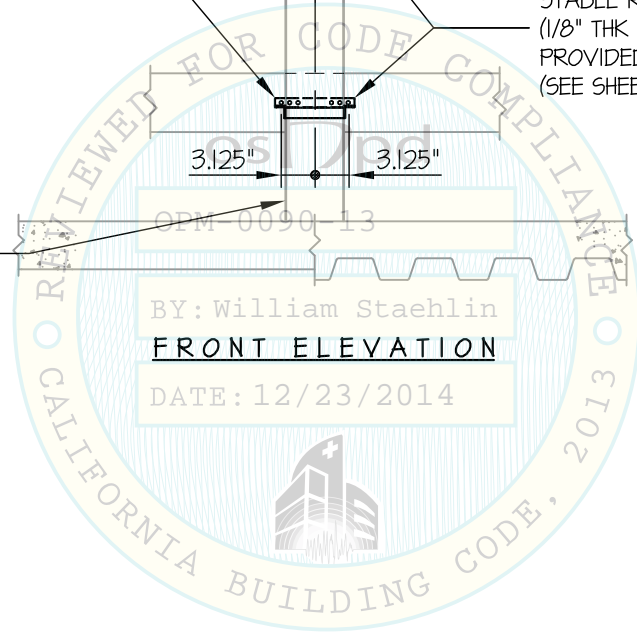
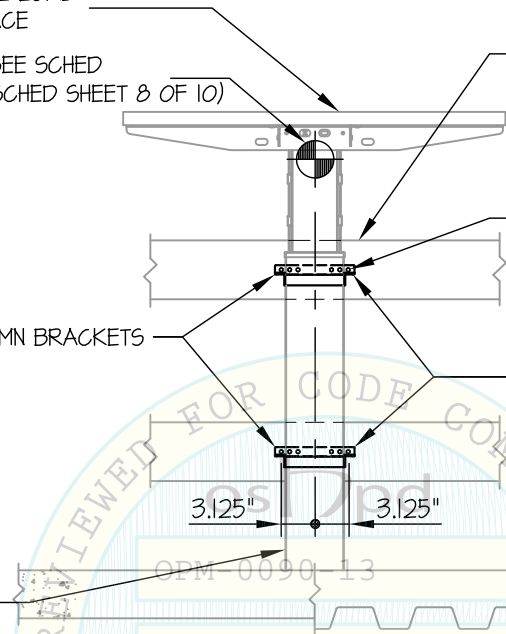
STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE WALL BACKING (16 GA., 50 ksi (MIN) AND DESIGN OF WALL STRUCTURE

USE 12- 1/4"φ S.M. SCREWS (3 EA CORNER) TO STEEL WALL STUD OR STEEL BACKING (16 GAGE, 50 ksi MIN.)

STABLE RISE WALL BRACKETS (1/8" THK ASTM A283C, 30 KSI MIN) PROVIDED BY RIGHT HEIGHT MFG (SEE SHEET 10 OF 10 FOR BRACKET DETAIL)

COLUMN BRACKETS

EXTENDER ATTACHED TO COLUMN W/ (6) M6x12mm (CL 10.9) BOLTS TO UNDERSIDE TAPPED HOLES



Jonathan Roberson
 REGISTERED PROFESSIONAL ENGINEER
 No. 4197
 EXP. 6-30-2016
 12/16/14
 STRUCTURAL
 STATE OF CALIFORNIA

RIGHT HEIGHT MANUFACTURING

STABLERISE WALL STATIONS WALL BRACKET DETAILS

DES. **J. ROBERSON**

JOB NO. **11-1415**

DATE **12/16/14**

SHEET

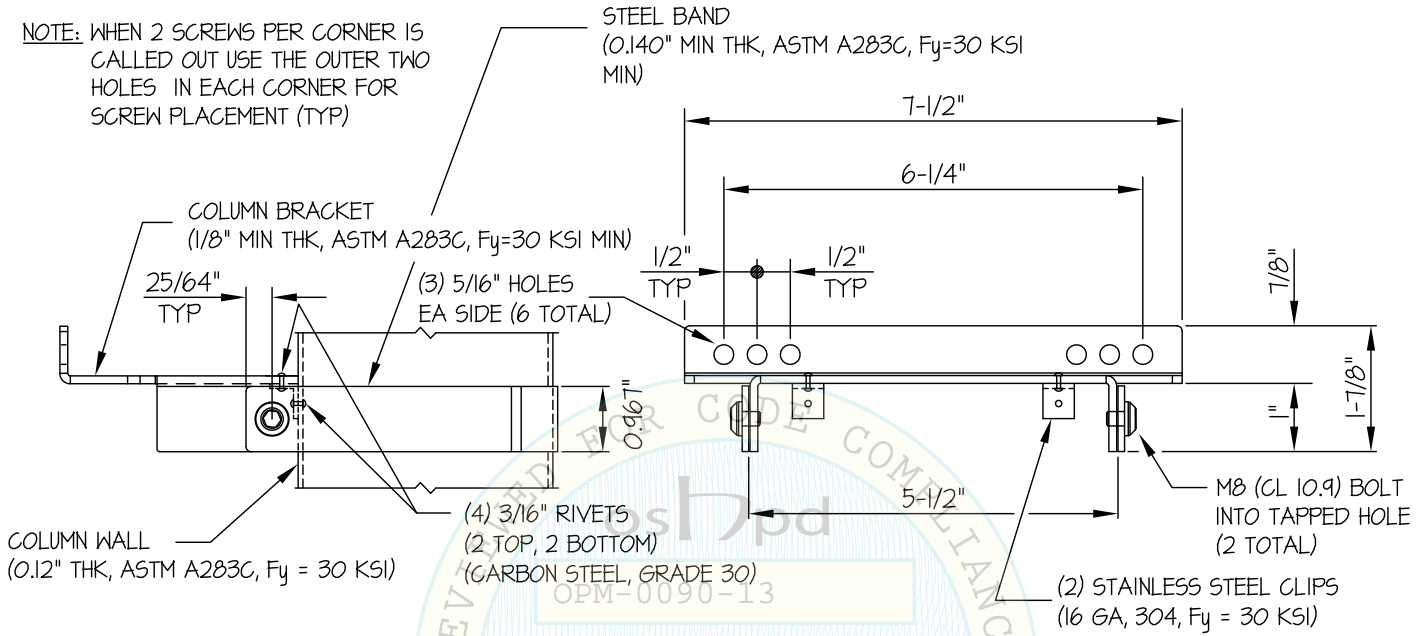
10

OF **10** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL

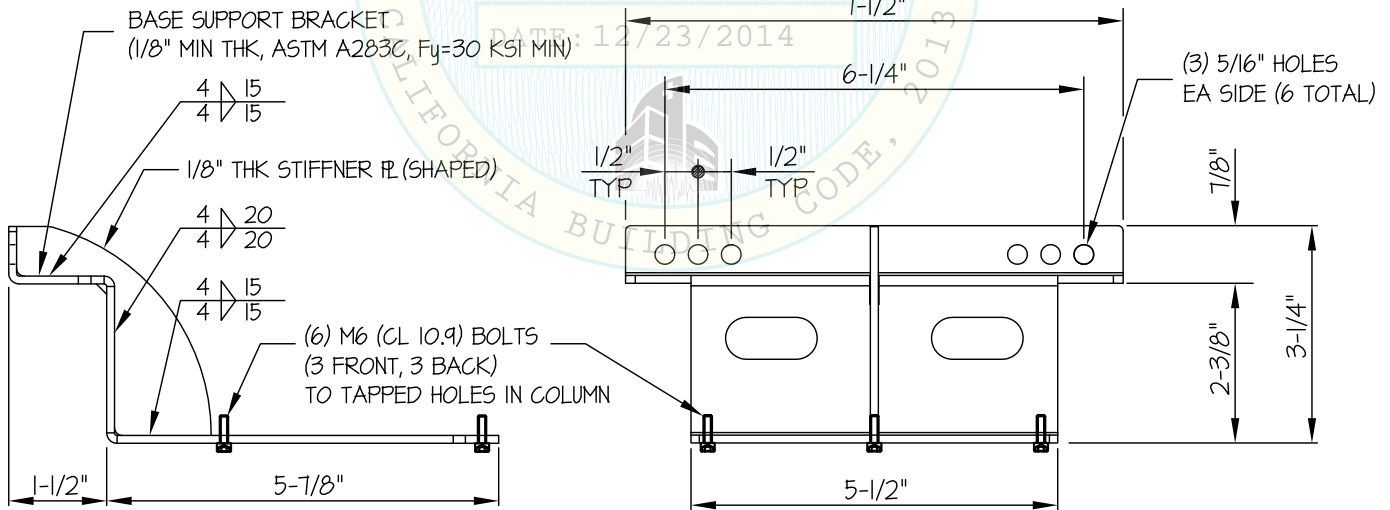
NOTE: WHEN 2 SCREWS PER CORNER IS CALLED OUT USE THE OUTER TWO HOLES IN EACH CORNER FOR SCREW PLACEMENT (TYP)



SIDE VIEW

FRONT VIEW

COLUMN BRACKET



BASE SUPPORT BRACKET

STABLERISE BRACKET DETAILS

NOTE: WELD WIRE IS ER70-5-6
WELD UNITS ARE IN mm

