DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0696

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [ ] Renewal/Update

Manufacturer Information

Manufacturer: Strongarm Designs, Inc.

Manufacturer's Technical Representative: Arulselvi Selvaraja

Mailing Address: 425 Caredean Drive, Horsham, PA 19044

Telephone: (800) 778-7901 Email: aselvaraja@strongarm.com

Product Information

Product Name: Strongarm MM9 Workstation

Product Type: Computer

Product Model Number: MM9 (Available Vertical Track Lengths: 18” (Horizontal Option Provided), 36”, 48”)

General Description: Wall mounted monitor and computer workstation

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

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: (951) 295-1892 Email: jon@EASECo.com

HCAI Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP OSP Number:

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, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

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

HCAI Approval

Date: 10/4/2023

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable):

EASE
EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
5877 Pine Ave, Ste. 210
Chino Hills, CA. 91709
Phn: (909) 606-7622

The Department of Health Care Access and Information

PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

OPM-0696

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: **STRONGARM DESIGN, INC**

EQUIPMENT NAME: **MM9 WALL MOUNTED WORKSTATION**

Date: 10/2/23

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 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 2022 CALIFORNIA BUILDING CODE.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE S_{DS} = 2.30, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$.
5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 2.30.
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 2022 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.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2024
10/2/23
STRUCTURAL
STATE OF CALIFORNIA

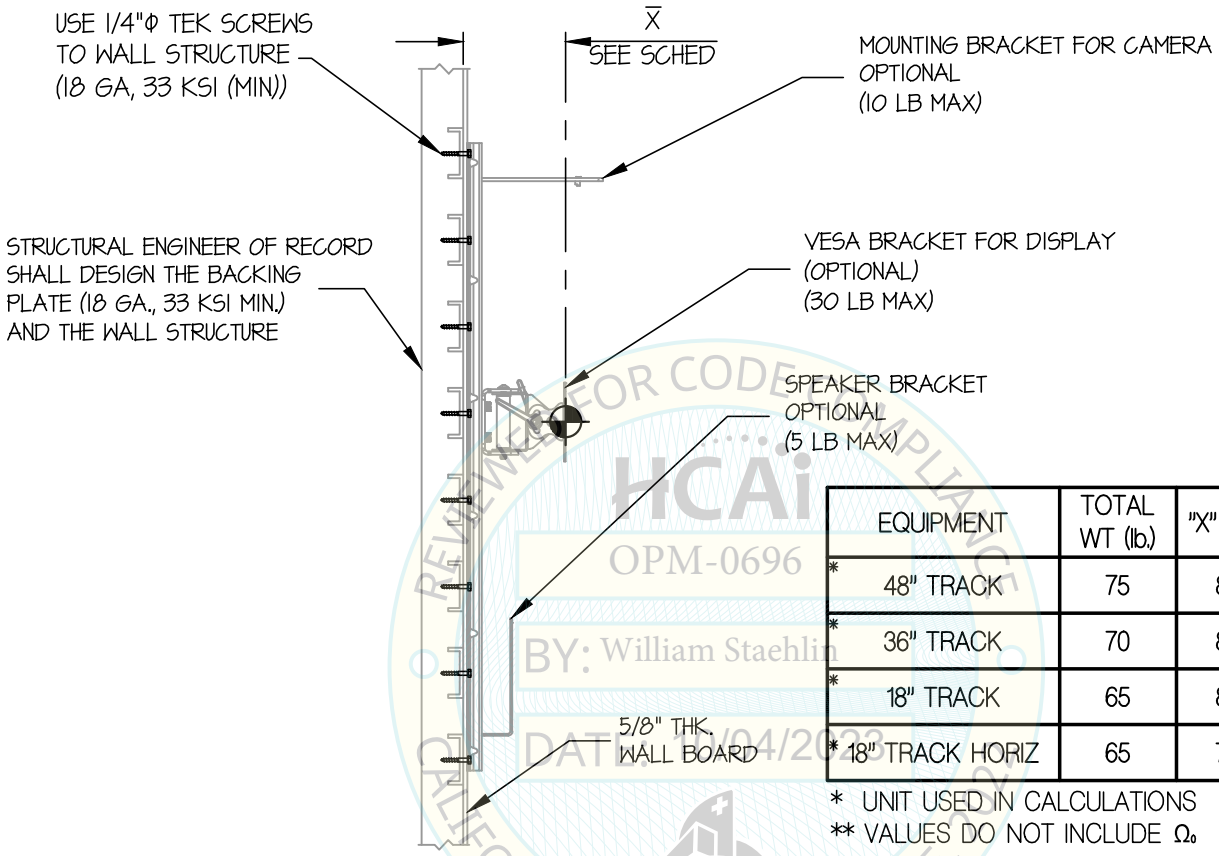
STRONGARM DESIGN, INC

MM9 WALL MOUNTED WORKSTATION

DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23
SHEET 2 OF 8 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



STEEL STUD WALL SECTION
(48" TRACK SHOWN)

EQUIPMENT	TOTAL WT (lb.)	"X" (in.)	** Tu (lb.)	** Vu (lb.)
* 48" TRACK	75	8	83	23
* 36" TRACK	70	8	80	21
* 18" TRACK	65	8	84	20
* 18" TRACK HORIZ	65	7	82	31

* UNIT USED IN CALCULATIONS
** VALUES DO NOT INCLUDE Ω_o

NOTES:

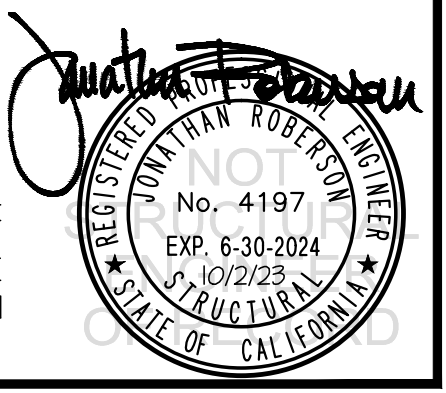
1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS} = 2.30, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.66 W_p
   VERTICAL FORCE (E_v) = 0.46 W_p

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.

3. THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.

4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

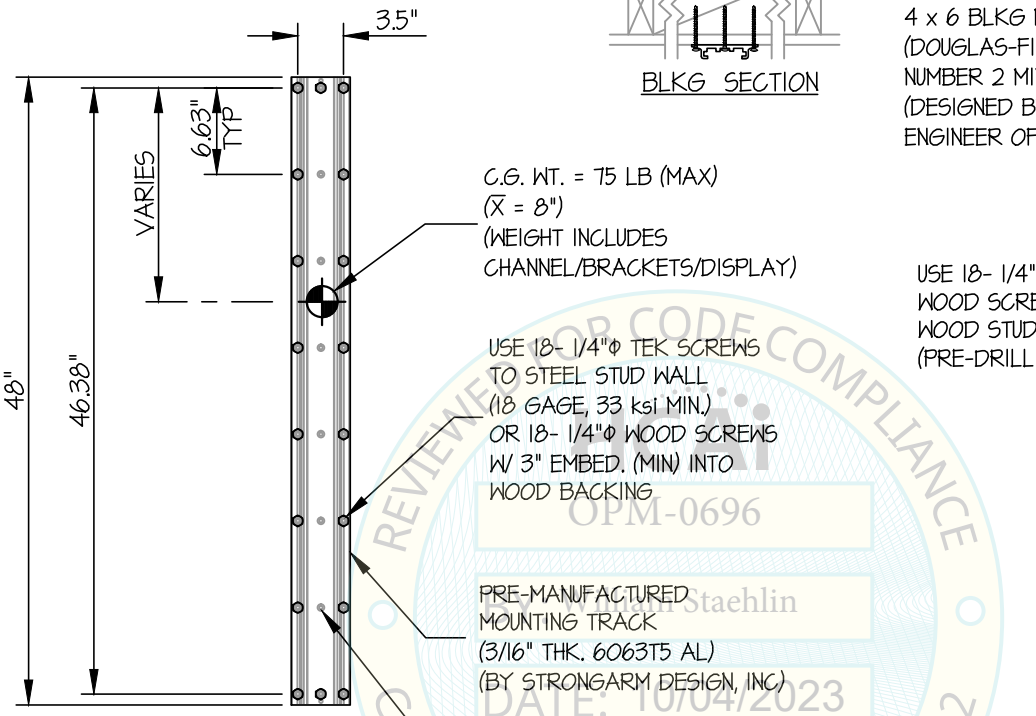


STRONGARM DESIGN, INC

MM9 WALL MOUNTED WORKSTATION

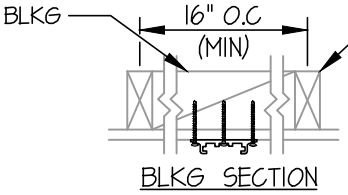
DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23
SHEET 3 OF 8 SHEETS

SEISMIC ANCHORAGE



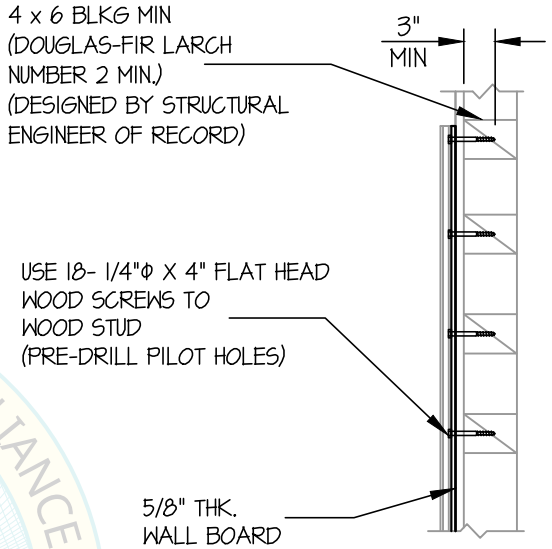
NOTE: (TEK SCREWS)
MIN EDGE DISTANCE = 0.75"
MIN END DISTANCE = 0.75"

ELEVATION AT 48" TRACK



BLKG SECTION

WALL MOUNTED



NOTE: (WOOD SCREWS)
MIN EDGE DISTANCE = 2"
MIN END DISTANCE = 2"

WOOD STUD WALL SECTION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2024
10/2/23
STRUCTURAL
STATE OF CALIFORNIA

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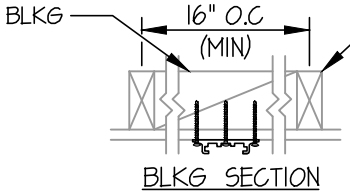
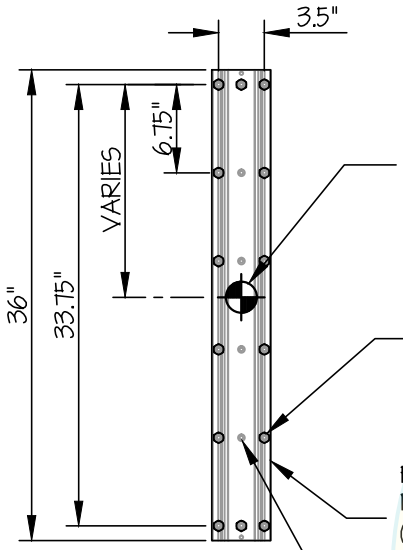
MM9 WALL MOUNTED WORKSTATION

DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23
SHEET 4 OF 8 SHEETS

SEISMIC ANCHORAGE



BLKG SECTION



C.G. WT. = 70 LB (MAX)
($\bar{X}$ = 8")
(WEIGHT INCLUDES CHANNEL/BRACKETS/DISPLAY)

USE 14- 1/4"Φ TEK SCREWS TO STEEL STUD WALL (18 GAGE, 33 ksi MIN.) OR 14- 1/4"Φ WOOD SCREWS W/ 3" EMBED. (MIN) INTO WOOD BACKING

PRE-MANUFACTURED MOUNTING TRACK (3/16" THK. 6063T5 AL) (BY STRONGARM DESIGN, INC)

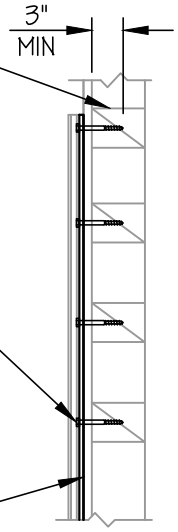
(18) 0.27"Φ HOLES PROVIDED

NOTE: (TEK SCREWS)
MIN EDGE DISTANCE = 0.75"
MIN END DISTANCE = 0.75"

ELEVATION AT 36" TRACK

WALL MOUNTED

4 x 6 BLKG MIN (DOUGLAS-FIR LARCH NUMBER 2 MIN.) (DESIGNED BY STRUCTURAL ENGINEER OF RECORD)

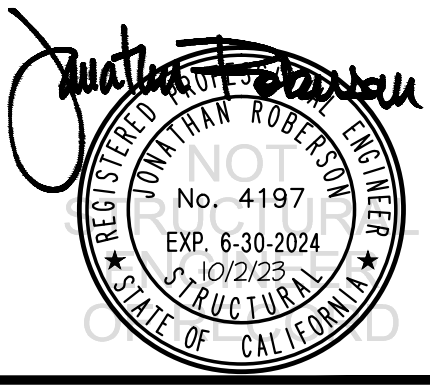


USE 14- 1/4"Φ X 4" FLAT HEAD WOOD SCREWS TO WOOD STUD (PRE-DRILL PILOT HOLES)

5/8" THK. WALL BOARD

NOTE: (WOOD SCREWS)
MIN EDGE DISTANCE = 2"
MIN END DISTANCE = 2"

WOOD STUD WALL SECTION

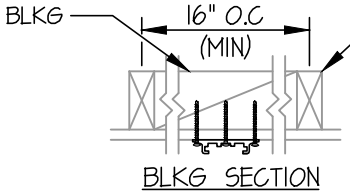


STRONGARM DESIGN, INC

MM9 WALL MOUNTED WORKSTATION

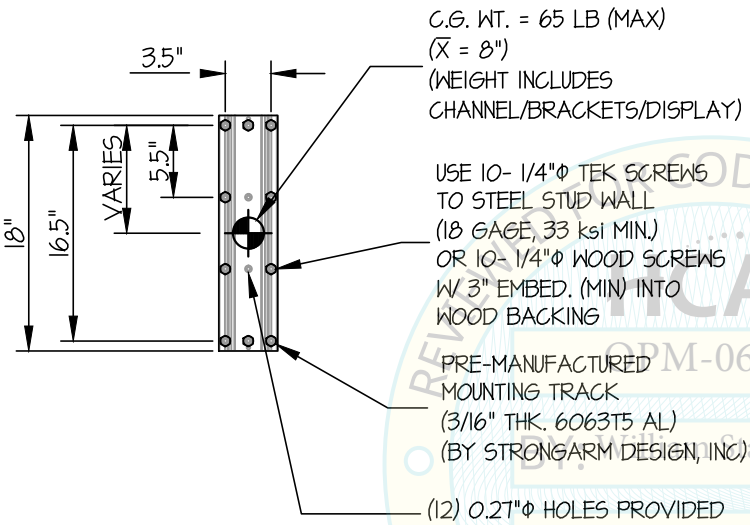
DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23
SHEET 5 OF 8 SHEETS

SEISMIC ANCHORAGE



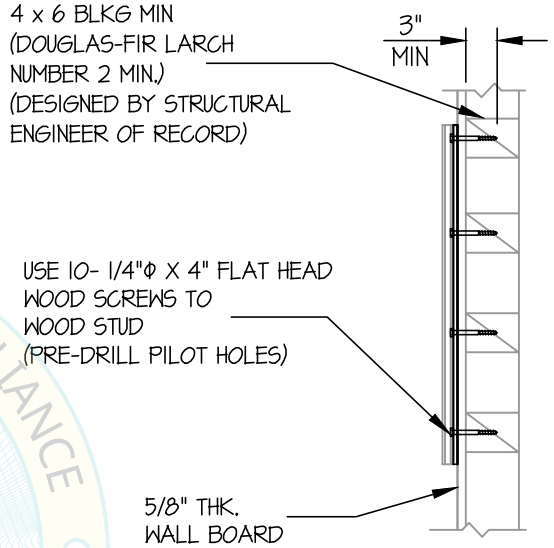
BLKG SECTION

WALL MOUNTED



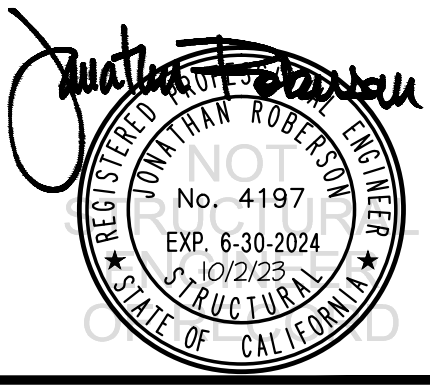
NOTE: (TEK SCREWS)
MIN EDGE DISTANCE = 0.75"
MIN END DISTANCE = 0.75"

ELEVATION AT 18" TRACK



NOTE: (WOOD SCREWS)
MIN EDGE DISTANCE = 2"
MIN END DISTANCE = 2"

WOOD STUD WALL SECTION



STRONGARM DESIGN, INC

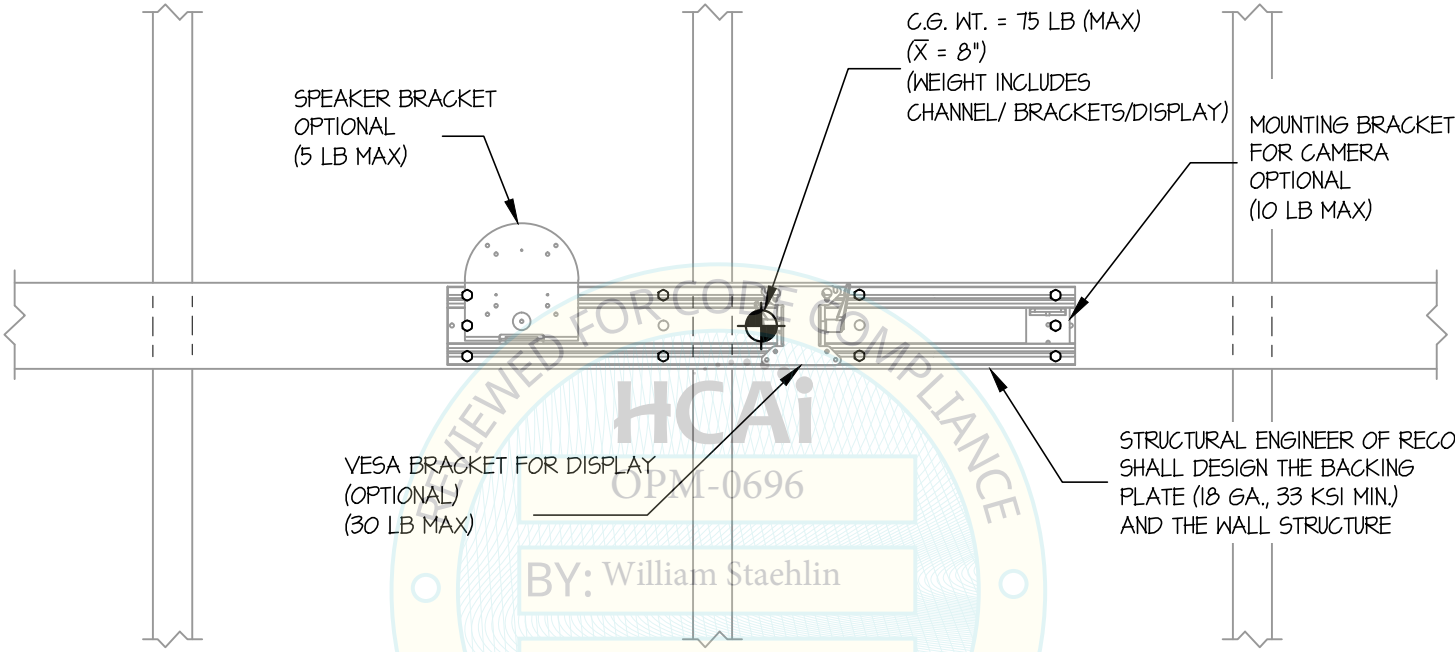
MM9 WALL MOUNTED WORKSTATION

DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23

SHEET 6 OF 8 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



STEEL STUD WALL SECTION

(18" HORIZONTAL TRACK SHOWN)

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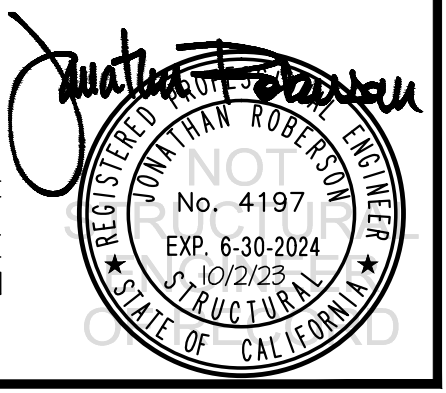


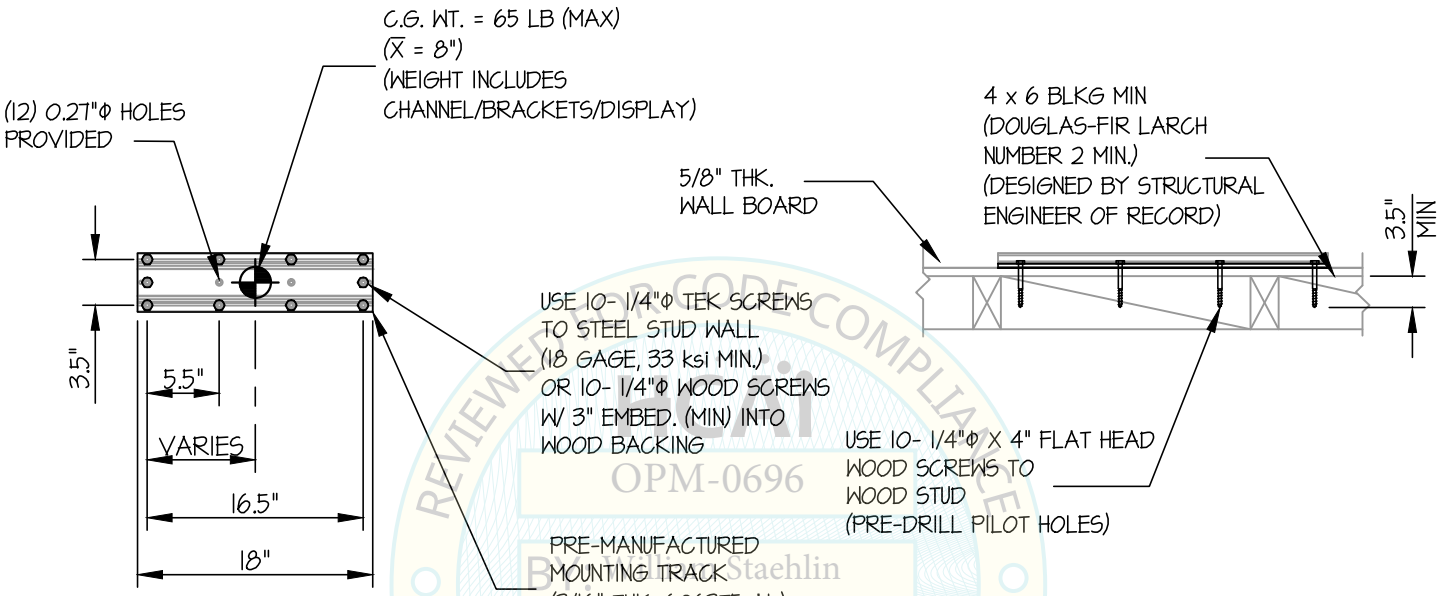
STRONGARM DESIGN, INC

MM9 WALL MOUNTED WORKSTATION

DES. J. ROBERSON
JOB NO. 11-2318
DATE 10/2/23
SHEET 7 OF 8 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED

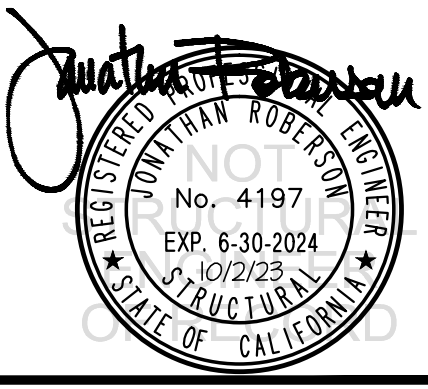


NOTE:
MIN EDGE DISTANCE = 0.75"
MIN END DISTANCE = 0.75"

ELEVATION AT 18" TRACK

NOTE:
MIN EDGE DISTANCE = 2"
MIN END DISTANCE = 2"

WOOD STUD WALL SECTION



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MM9 WALL MOUNTED WORKSTATION

DES. J. ROBERSON
JOB NO. 11-2318
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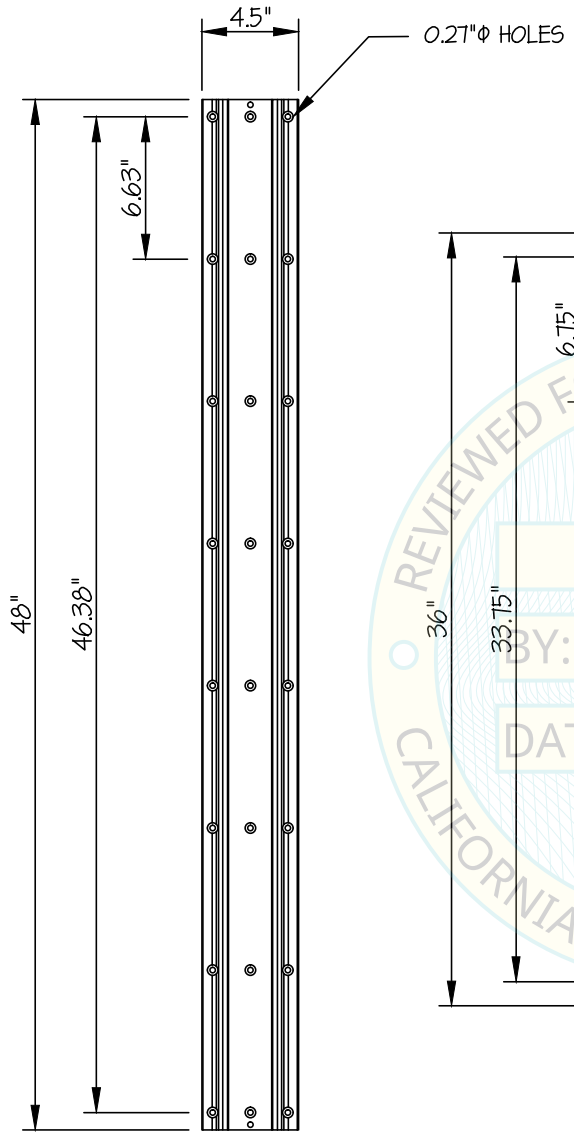
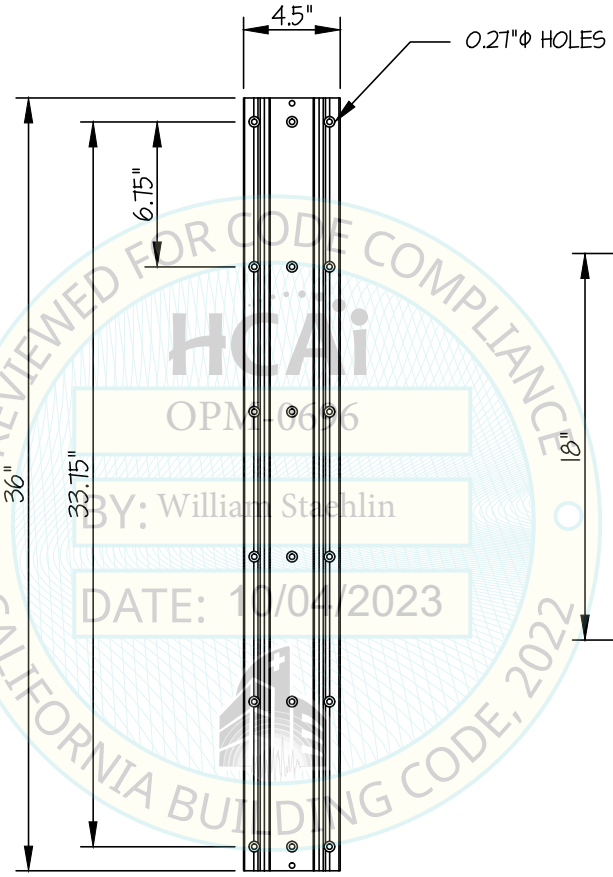
SHEET 8 OF 8 SHEETS

SEISMIC ANCHORAGE

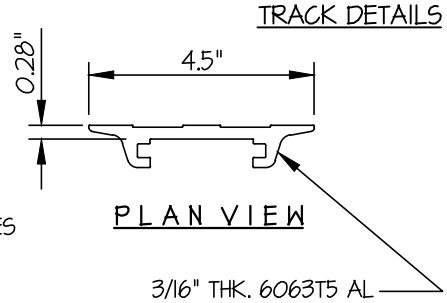


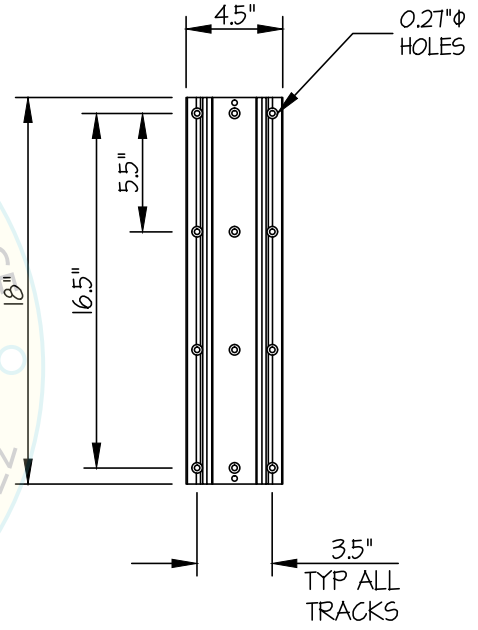
FRONT VIEW
(48" TRACK)



FRONT VIEW
(36" TRACK)

TRACK DETAILS





FRONT VIEW
(18" TRACK)
(HORIZ & VERTICAL)