



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0330-19

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [] New [X] Renewal [] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: Humanscale Healthcare

Manufacturer's Technical Representative: Aaron Klein

Mailing Address: 11 East 26th Street, New York, NY. 10010

Telephone: On File Email: On File

Product Information

Product Name: Vflex Wall Station

Product Type: Cantilevered Element

Product Model Number: Vflex with 36", 48" and 57" Tracks

General Description: Monitor and Keyboard Wall Mount

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: Jonathan Roberson, S.E.

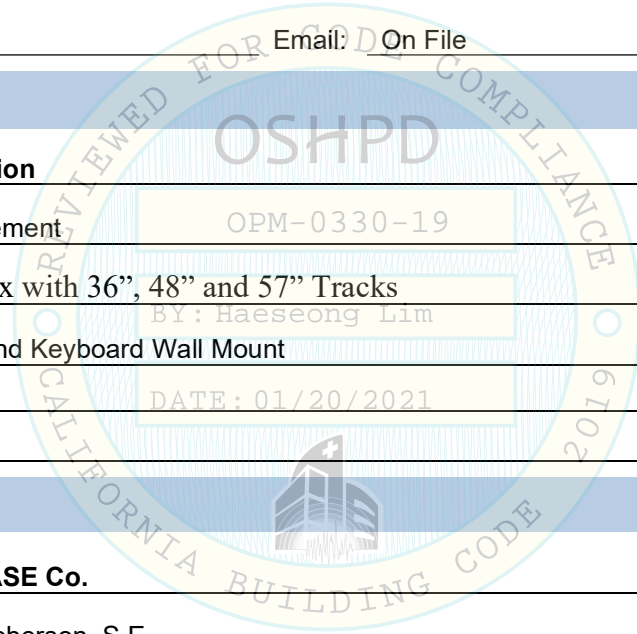
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709

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, 2019.

Signature of Applicant: [Signature] Date: 3/12/19

Title: Principal Engineer Company Name: EASE Co.





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)

- 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 1950-16
- Other* (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): _____

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 2019 & ALL PRE-2019 CODE BASED PROJECTS

Signature: Haeseong Lim Date: 01/20/2021

Print Name: Haeseong Lim

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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0330-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **HUMANSIZE HEALTHCARE**
EQUIPMENT NAME: **VFLEX 36", 48" AND 56" WALL TRACK**

Sheet: 1 of 8
Date: 4/6/20

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.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{ds} = 2.20$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$.
5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE S_{ds} IS NOT GREATER THAN 2.20.
6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
7. SHEET METAL SCREWS SHALL BE SHEET METAL SCREWS BY PRO-TWIST (ICC ESR-1408).
8. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
9. ADD POSTING TO UNIT STATING MAXIMUM WEIGHT OF MONITOR, KEYBOARD AND MOUSE NOT TO EXCEED 60 LB TOTAL AT VFLEX 36" TRACK, 76 LB AT 48" TRACK AND 77 LB AT 56" TRACK
10. 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 2019 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.



HUMANSCALE HEALTHCARE

VFLEX 36" WALL TRACK

DES. J. ROBERSON

JOB NO. 11-1606

DATE 4/6/20

SHEET

2

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

MONITOR WEIGHT & KEYBOARD
22 LB (MAX)

(4)- 8M (GR 2) M. SCREWS TO MONITOR

29.81"

C.G. WT. = 60 LB (MAX)

STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE

USE (4)- #10 PAN HEAD SCREWS AT WALL STRUCTURE (16 GAGE, 50 ksi MIN.) (3 PLACES, 12 TOTAL)

VFLEX TRACK (11 GA, 6061-T6 ALUM Fy=40 KSI) (BY HUMANSCALE)

DATE: 01/20/2021

5/8" THK WALL BOARD

T_{U WALL} = 97 LB/SCREW (MAX)

V_{U WALL} = 72 LB/SCREW (MAX)

STEEL STUD WALL SECTION (36" TRACK SHOWN)

NOTES:

- FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. ($S_{DS} = 2.20$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
HORIZONTAL FORCE (E_h) = $3.96 W_p$
VERTICAL FORCE (E_v) = $0.44 W_p$
- 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



HUMANSCALE HEALTHCARE

VFLEX 36" WALL TRACK

DES. **J. ROBERSON**

JOB NO. **11-1606**

DATE **4/6/20**

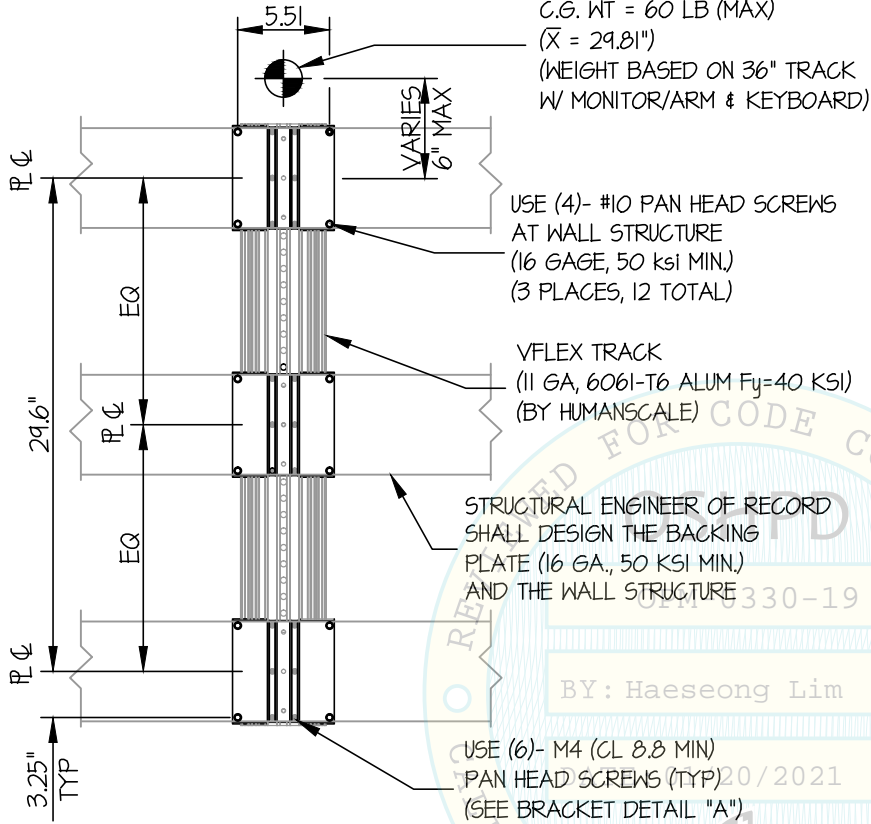
SHEET

3

OF **8** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

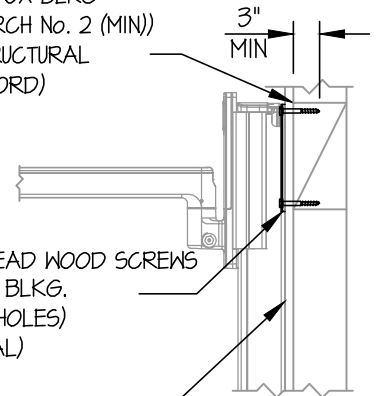
WALL MOUNTED



2X STUDS AND/OR 6X BLKG
(DOUGLAS-FIR LARCH No. 2 (MIN))
(DESIGNED BY STRUCTURAL
ENGINEER OF RECORD)

USE (4)- #10 PAN HEAD WOOD SCREWS
TO WOOD STUD OR BLKG.
(PRE-DRILL PILOT HOLES)
(3 PLACES, 12 TOTAL)

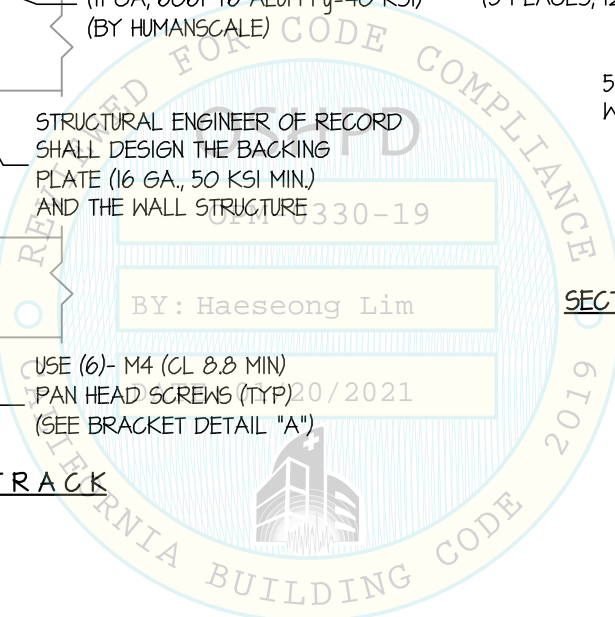
5/8" THK.
WALL BOARD



NOTE:
MIN EDGE DISTANCE = 1"
MIN END DISTANCE = 2"

SECTION AT WOOD STUD WALL OPTION

ELEVATION AT 36" TRACK



HUMANSCALE HEALTHCARE

VFLEX 48" WALL TRACKS

DES. J. ROBERSON

JOB NO. 11-1606

DATE 4/6/20

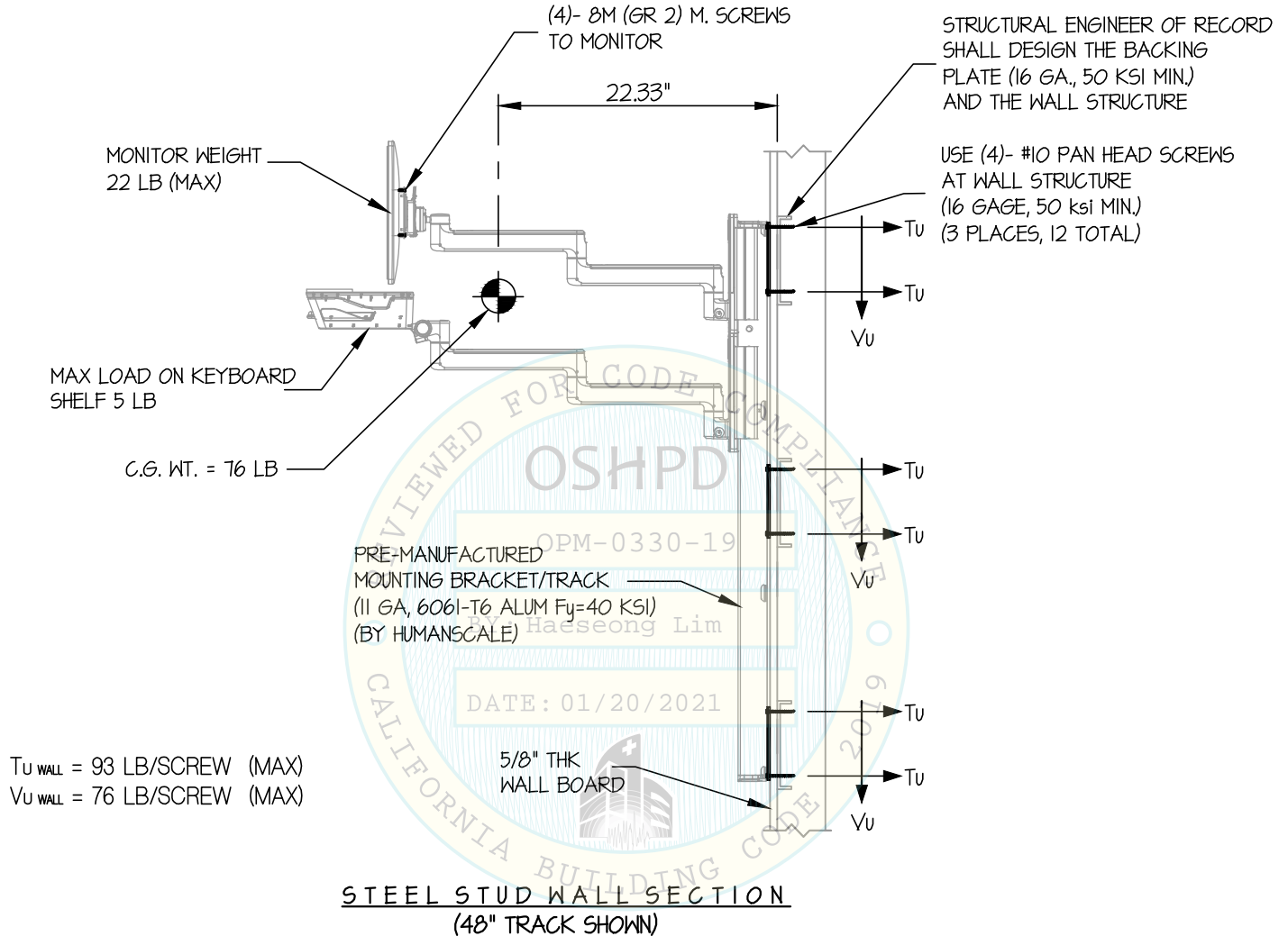
SHEET

4

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE

USE (4)- #10 PAN HEAD SCREWS AT WALL STRUCTURE (16 GAGE, 50 ksi MIN.) (3 PLACES, 12 TOTAL)

T_{U WALL} = 93 LB/SCREW (MAX)
V_{U WALL} = 76 LB/SCREW (MAX)

STEEL STUD WALL SECTION
(48" TRACK SHOWN)

NOTES:

- FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. ($S_{ds} = 2.20$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
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- 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



HUMANSCALE HEALTHCARE

DES. J. ROBERSON

SHEET

5

JOB NO. 11-1606

VFLEX 48" WALL TRACKS

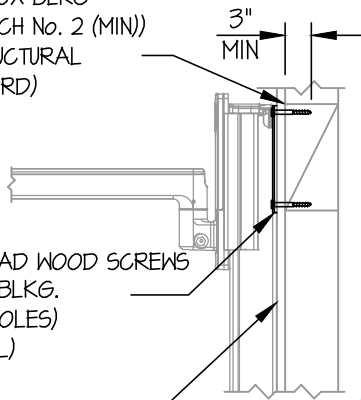
DATE 4/6/20

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

2X STUDS AND/OR 6X BLKG
(DOUGLAS-FIR LARCH No. 2 (MIN))
(DESIGNED BY STRUCTURAL
ENGINEER OF RECORD)

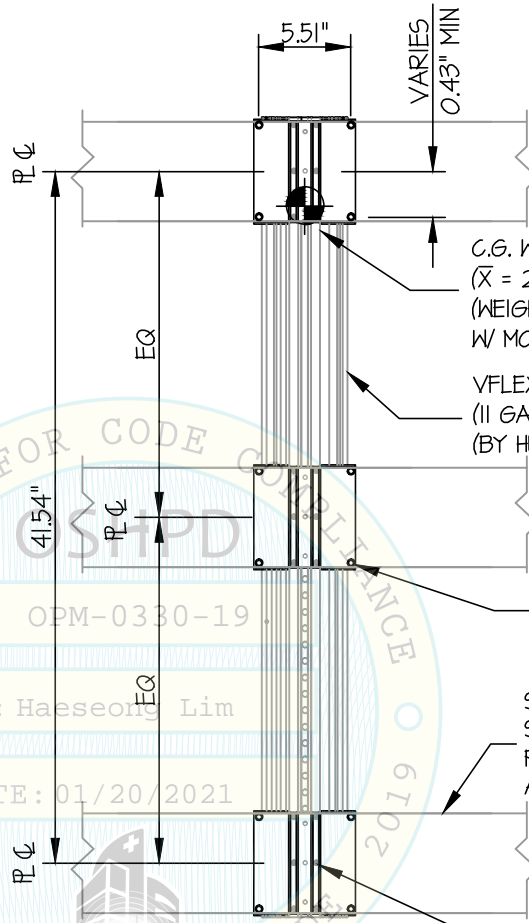


USE (4)- #10 PAN HEAD WOOD SCREWS
TO WOOD STUD OR BLKG.
(PRE-DRILL PILOT HOLES)
(3 PLACES, 12 TOTAL)

5/8" THK.
WALL BOARD

NOTE:
MIN EDGE DISTANCE = 1"
MIN END DISTANCE = 2"

SECTION AT WOOD STUD WALL OPTION



C.G. WT = 76 LB (MAX)
(\bar{X} = 22.33")
(WEIGHT BASED ON 48" TRACK
W/ MONITOR/ARM & KEYBOARD/ARM)

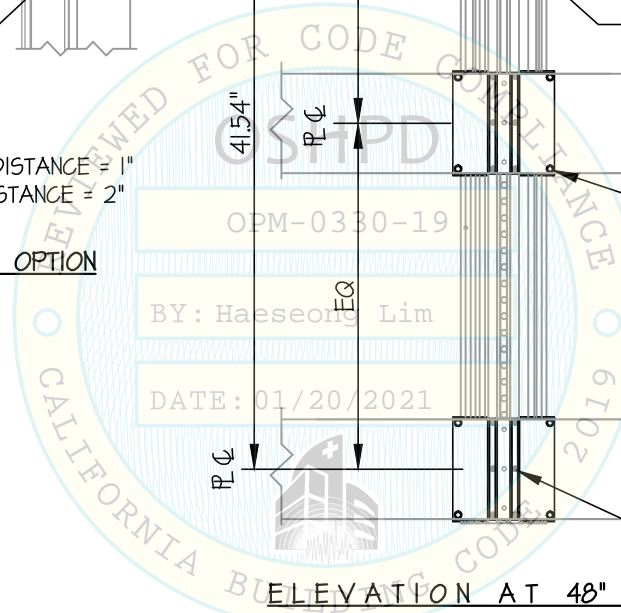
VFLEX TRACK
(11 GA, 6061-T6 ALUM F_y =40 KSI)
(BY HUMANSCALE)

USE (4)- #10 PAN HEAD SCREWS
AT WALL STRUCTURE
(16 GAGE, 50 ksi MIN.)
(3 PLACES, 12 TOTAL)

STRUCTURAL ENGINEER OF RECORD
SHALL DESIGN THE BACKING
PLATE (16 GA., 50 KSI MIN.)
AND THE WALL STRUCTURE

USE (6)- M4 (CL 8.8 MIN)
PAN HEAD SCREWS (TYP)
(SEE BRACKET DETAIL "A")

ELEVATION AT 48" TRACK



HUMANSCALE HEALTHCARE

VFLEX 56" WALL TRACKS

DES. J. ROBERSON

JOB NO. 11-1606

DATE 4/6/20

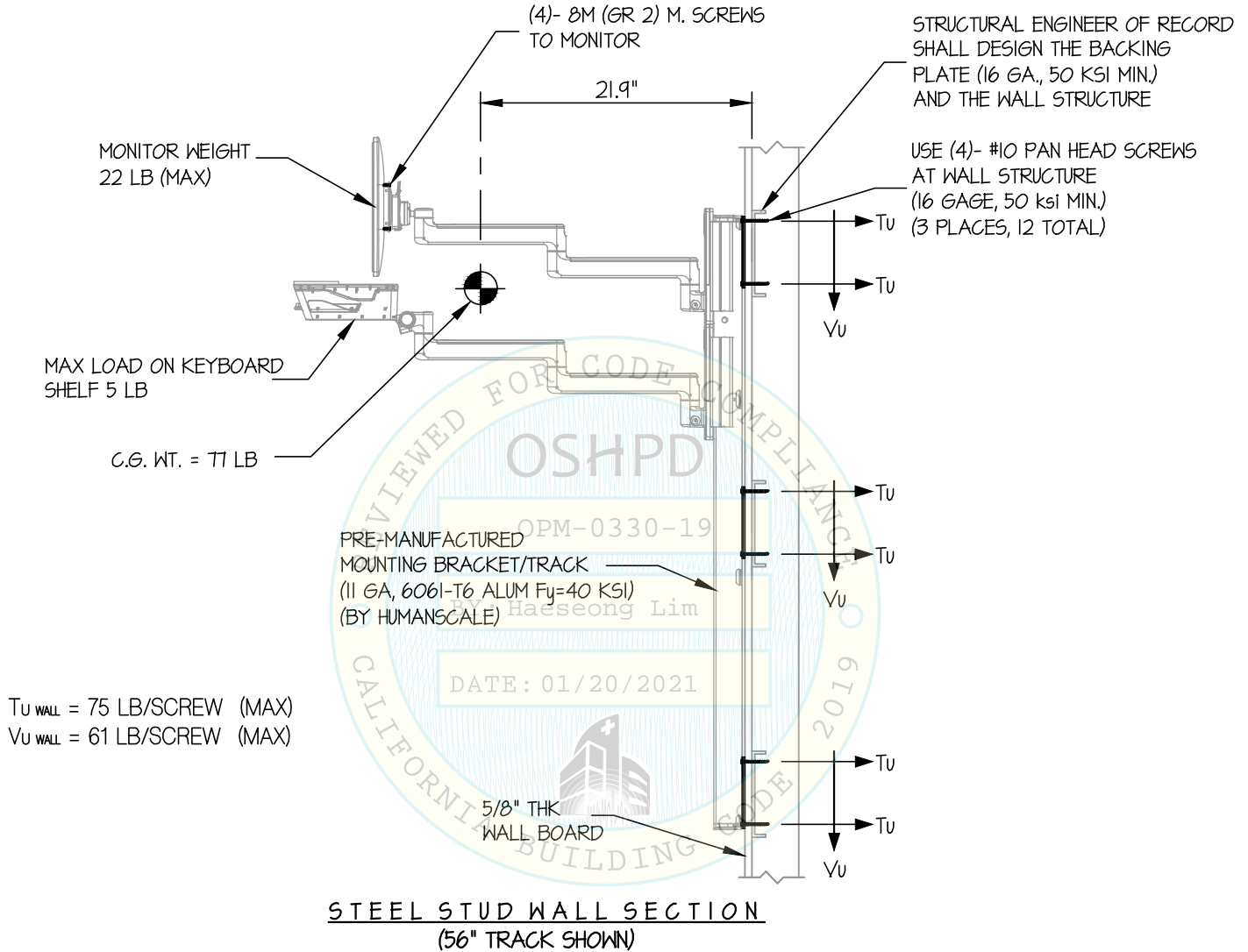
SHEET

6

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



NOTES:

- FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. ($S_{ds} = 2.20$, $a_p = 2.5$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$)
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- SEE GENERAL NOTES: SHEETS 1



HUMANSCALE HEALTHCARE

DES. J. ROBERSON

SHEET

7

JOB NO. 11-1606

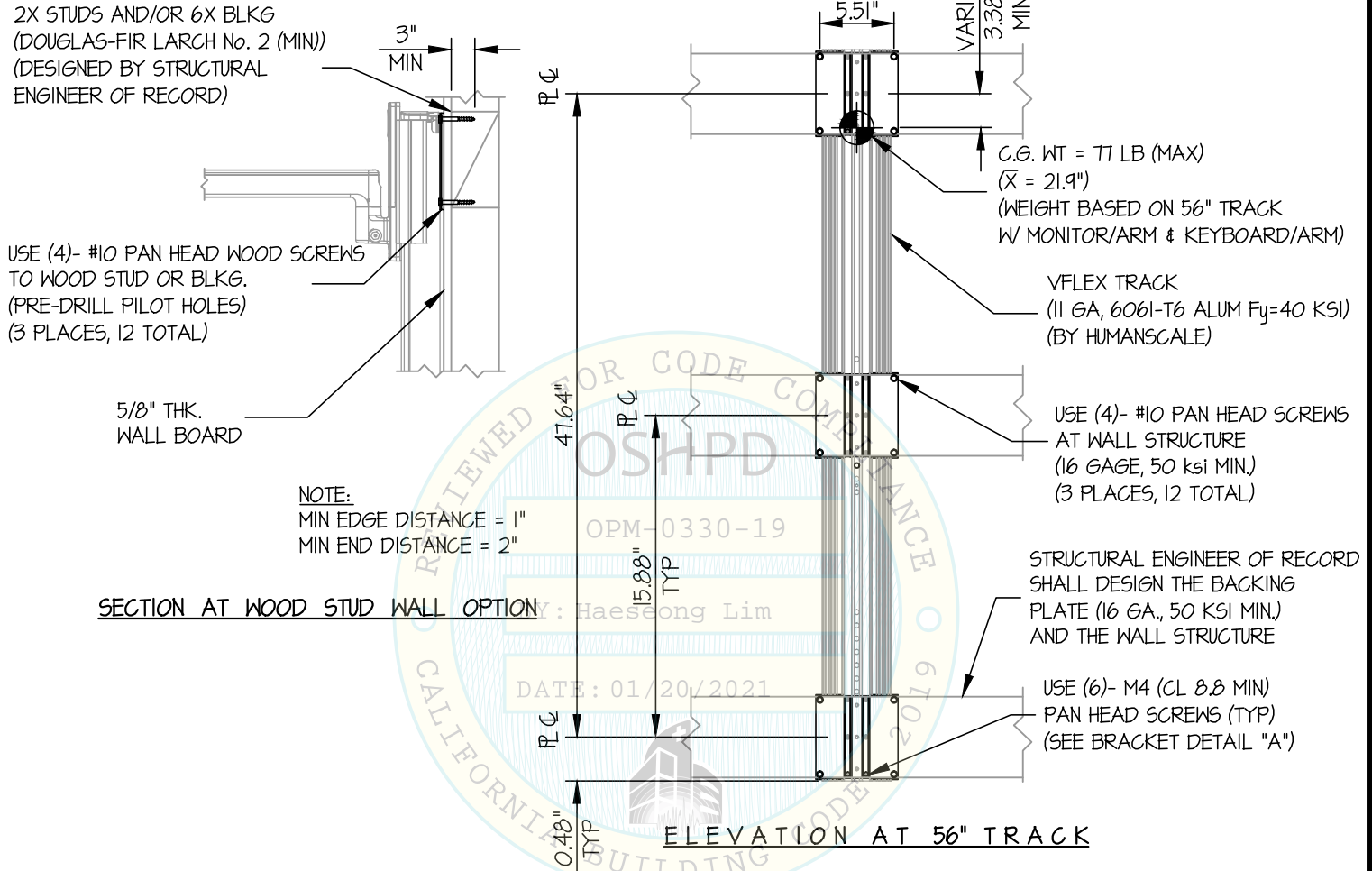
VFLEX 56" WALL TRACKS

DATE 4/6/20

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



HUMANSCALE HEALTHCARE

DES. **J. ROBERSON**

SHEET

JOB NO. **11-1606**

8

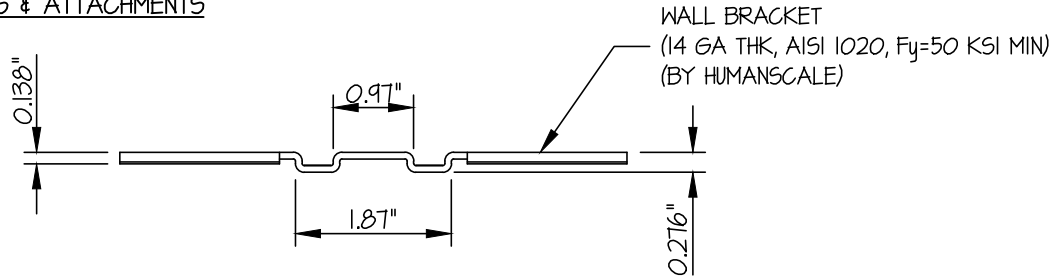
DATE **4/6/20**

OF **8** SHEETS

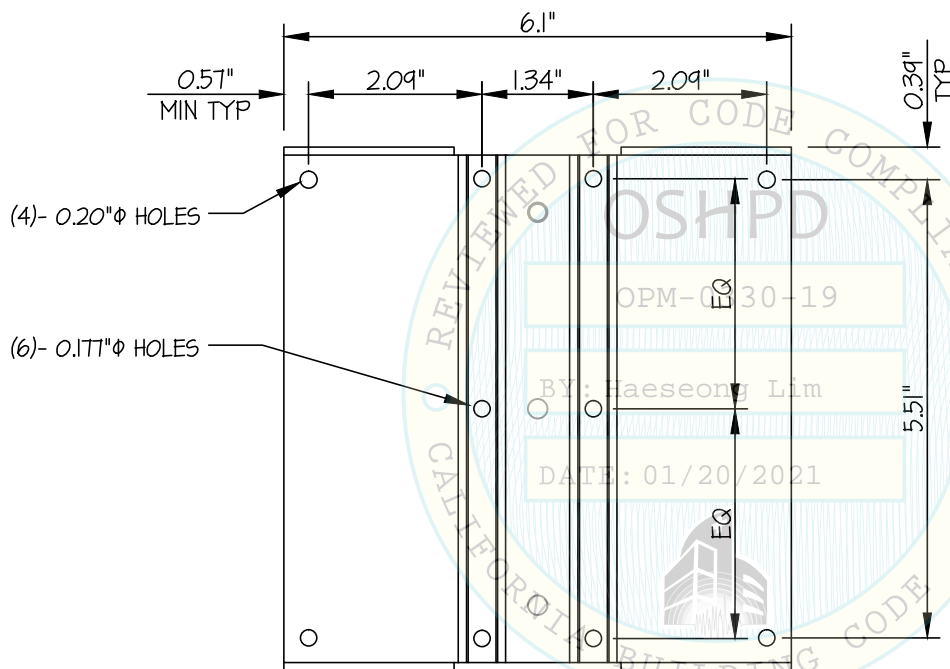
VFLEX 36", 48" AND 56" WALL TRACK

SEISMIC SUPPORTS & ATTACHMENTS

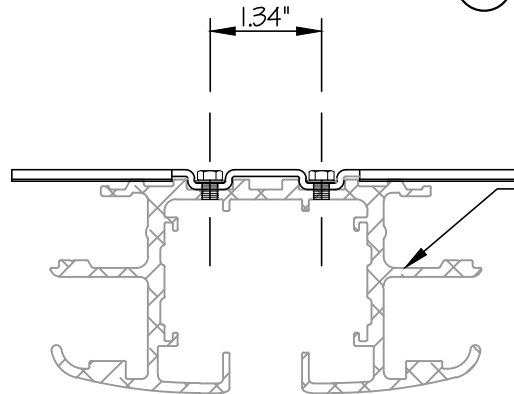
WALL MOUNTED



PLAN



BRACKET DETAIL (A)



TRACK SECTION

