

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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APPLICATION FOR OSHPD PRE	OFFICE USE ONLY APPLICATION #: OPM-0551								
MANUFACTURER'S CERTIFICA									
OSHPD Preapproval of Manufacturer's Certification (OPM)									
Type: X New Renewal/Update									
Manufacturer Information									
Manufacturer: Mavig Corporation									
Manufacturer's Technical Representative: Ben Weisenberg									
Mailing Address: 25 Hytec Circle, Rochester, NY 14606									
Telephone: (585) 247-1212	Email: ben@ti-ba.com								
FOR CODE COA									
Product Information	OSHPD								
Product Name: Injector Head with Support Arm	& T1522-ME Mounting Plate	T.							
Product Type: Other Mechanical or Electrical C	OPM-0551-19 Component	CE							
Product Model Number: N/A	BY: Haeseong Lim								
General Description: Injector & Support for use	e in Medical Procedures								
ALL	DATE: 07/23/2021	2018							
Applicant Information									
Applicant Company Name: EASE LLC.	V. COD	<u> </u>							
Contact Person: Tiffany Tonn	BUILDING								
Mailing Address: 1515 FAIRVIEW AVE, STE 2	05, MISSOULA, MT 59801								

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

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





Title:



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal 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: (909) - 606-7622 Email: jon@EASECo.com								
OSHPD Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
Continue to the design of the continue to the								
Certification Method								
Testing in accordance with:								
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.								
X Analysis BY: Haeseong Lim								
Experience Data C DATE: 07/23/2021								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
CODE								
OSHPD Approval BUILDING								
Date: 7/23/2021								
lame: Haeseong Lim Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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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-0551

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER:

EQUIPMENT NAME:

MAVIG CORPORATION

INJECTOR HOLDER SYSTEM GD40030-BO

Sheet: 1 of 9

Date: 7/16/21

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.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.00, **a**_p = 2.5, I_p = 1.5, R_p = 2.5, z/h < 1.
- 5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 2.00.

 BY: Haeseong Lim
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 8. 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 SDS & z/h RESULT IN SEISMIC FORCES (Eh , Ev) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.



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INJECTOR HOLDER SYSTEM GD40030-BO

DES. J. ROBERSON

JOB NO. 11-1919

DATE

7/16/21

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SHEET

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. Over Flute	Torque Test	Direct Tension
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6.75"	12"	3.25"	50 FT-LB	N/A

- B. 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 OR TORQUE 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.

 DATE: 07/23/2021
 - 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.
- C. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- D. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

MAVIG CORPORATION INJECTOR HOLDER SYSTEM GD40030-BO

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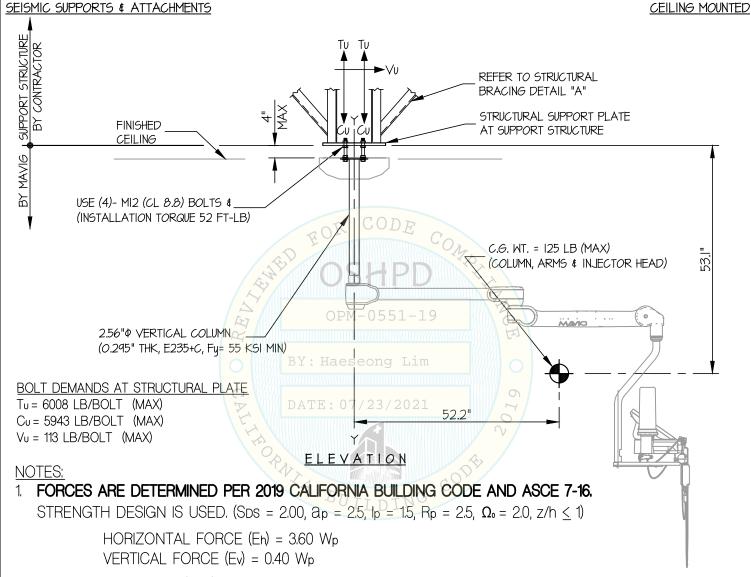
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- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2

No. 4197 EXP. 6-30-2022

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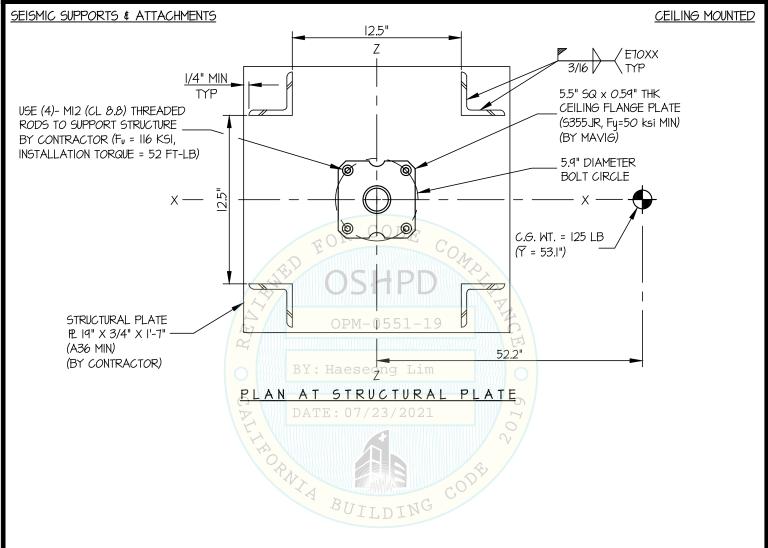
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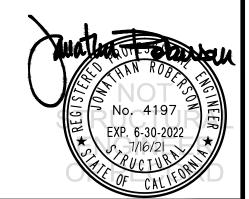
DATE 7/16/21

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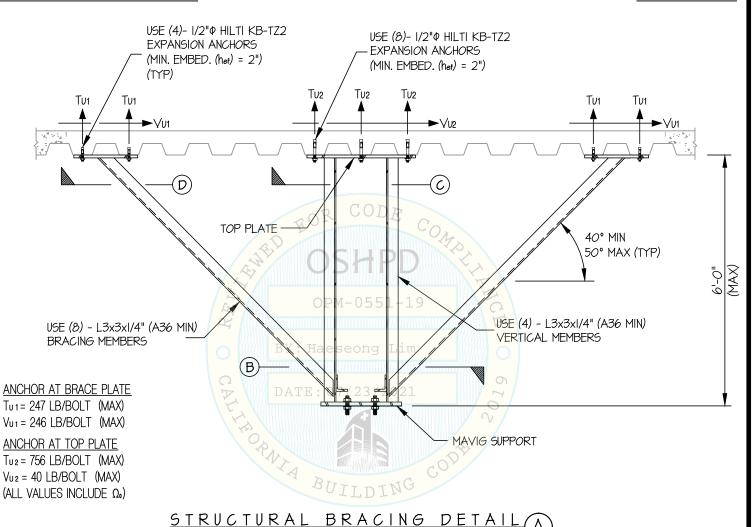
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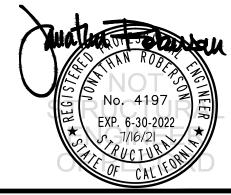
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9 sheets

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED





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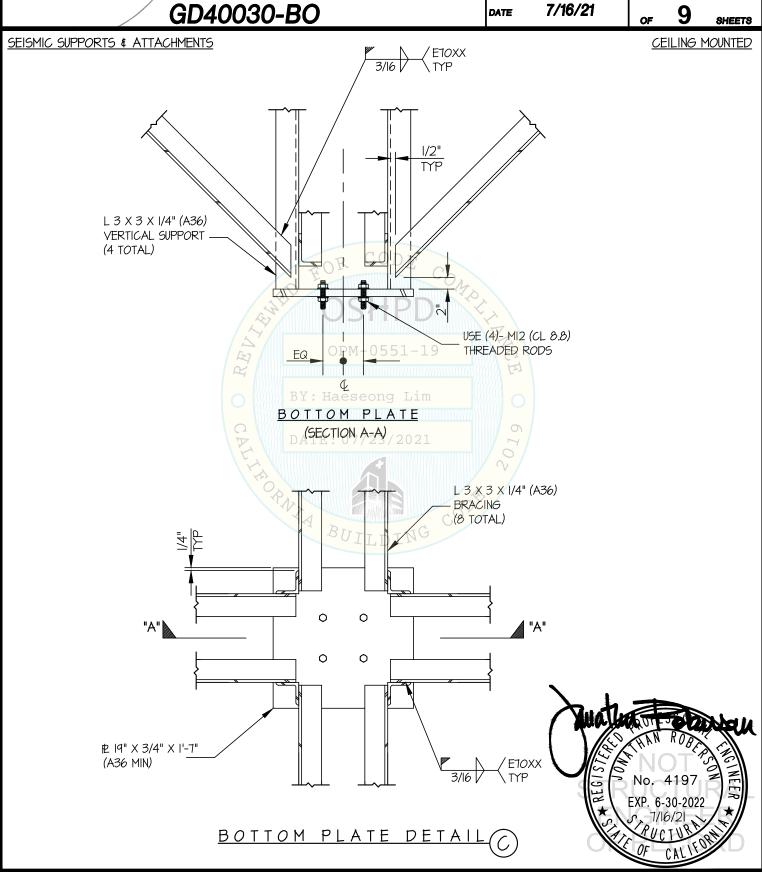
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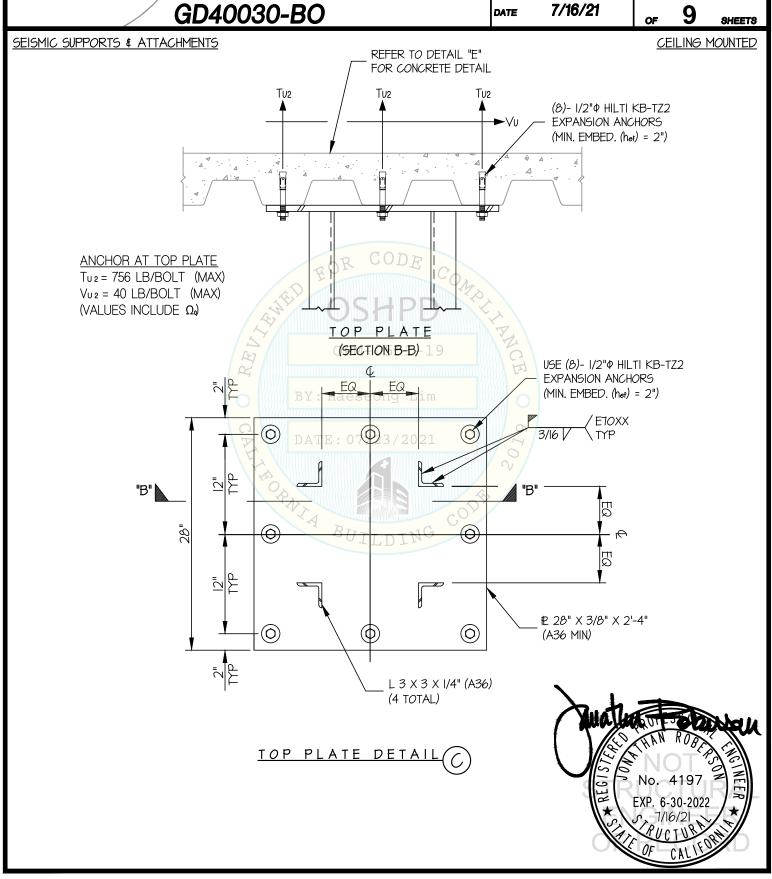


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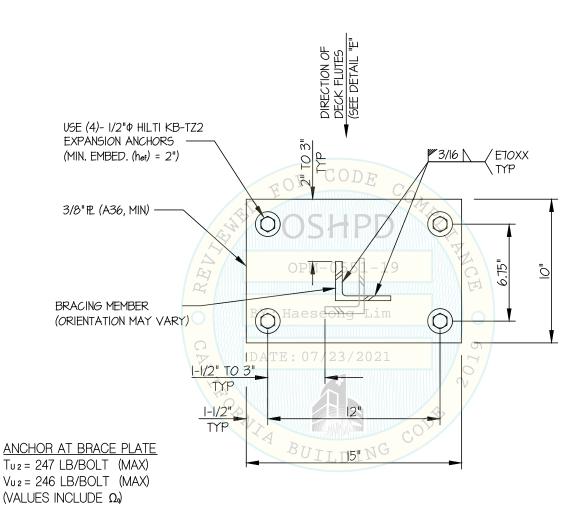
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SHEET

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SEISMIC SUPPORTS & ATTACHMENTS

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BRACE PLATE DETAIL (D)



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SHEET

