



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

OFFICE USE ONLY

APPLICATION #: OPM-0219

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: SteelcoBelimed Inc

Manufacturer's Technical Representative: Zack Spinelli

Mailing Address: 8351 Palmetto Commerce Parkway Suite 101, Ladson, SC 29456

Telephone: (843) 725-8117

Email: zack.spinelli@belimed.com

Product Information

Product Name: Ultrasonic Washers

Product Type: Laboratory Equipment

Product Model Number: 200c & UW565

General Description: Floor mounted ultrasonic washers with seismic mounting brackets

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 Assistant

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

Registered Design Professional 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

Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950 ASHRAE 171 FEMA 461

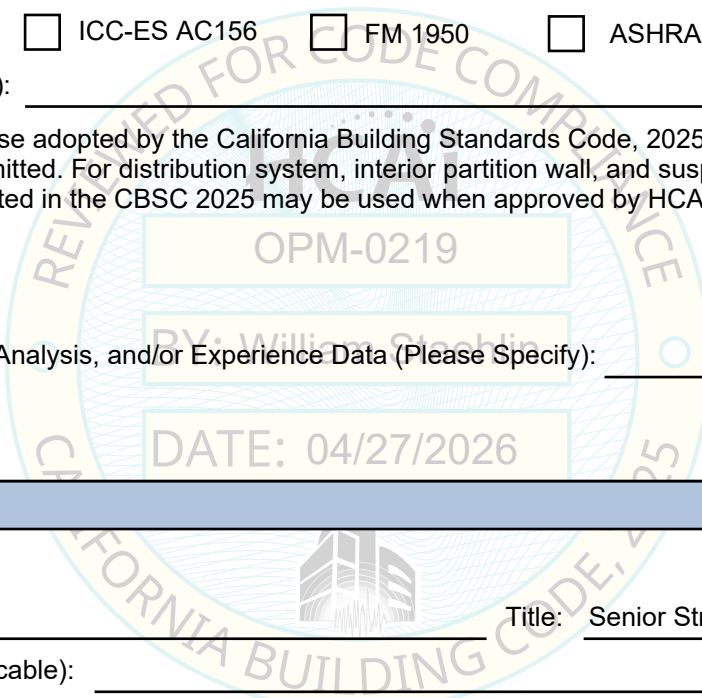
Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) 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 2025 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: 4/27/2026

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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**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-0219

THIS PREAPPROVAL CONFORMS TO THE 2025 CALIFORNIA BUILDING CODE

MANUFACTURER: **SteelcoBelimed Inc**
EQUIPMENT NAME: **ULTRASONIC WASHERS**

Sheet: 1 of 10
Date: 4/21/26

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2025 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2025 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 2025 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.20 & 2.50.
4. FORCES PER ASCE 7-22 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{Ds}=2.50, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0, (R_{\mu}=1.0, H_f=1.0)$ AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}
WHERE $S_{Ds}=1.20, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0.50, (R_{\mu}=1.3, H_f=2.25)$ AT CONCRETE SLAB ON METAL DECK.
WHERE $S_{Ds}=2.50, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0.95, (R_{\mu}=1.3, H_f=3.375)$ AT CONCRETE SLAB ON METAL DECK.
SEE FOLLOWING SHEETS FOR Ω_{op}
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 SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. $z/h=0.50, z/h=0.95$)
8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. $z/h=0$)
9. **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 2025 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 SEISMIC PARAMETERS RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES IN THIS OPM.
 - D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.
 - E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB 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 $6h_{ef}$ FROM THIS UNIT'S ANCHORS.



SteelcoBelimed Inc

ULTRASONIC WASHERS

DES. **J. ROBERSON**

JOB NO. **11-2522**

DATE **4/21/26**

SHEET

2

OF **10** 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. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	8"	16"	3.25"	40 FT-LB	1189 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	2.5"	10"	24"	5"	50 FT-LB	2770 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 16" & 24" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

- C. 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) DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.
(ii) ACCEPTANCE CRITERIA:

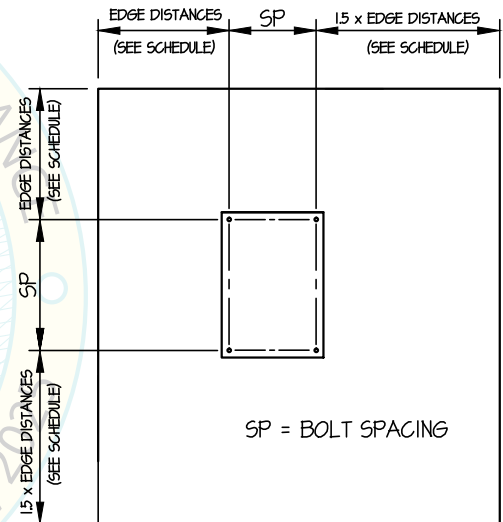
- DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE NUT

- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

11. BOLTS THROUGH CONCRETE ON METAL DECK

- A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



SP = BOLT SPACING

TYPICAL CONCRETE EDGE DETAIL (SLAB AT OR BELOW GRADE ONLY)



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

3

**ULTRASONIC WASHERS
MODELS 200c & UW565**

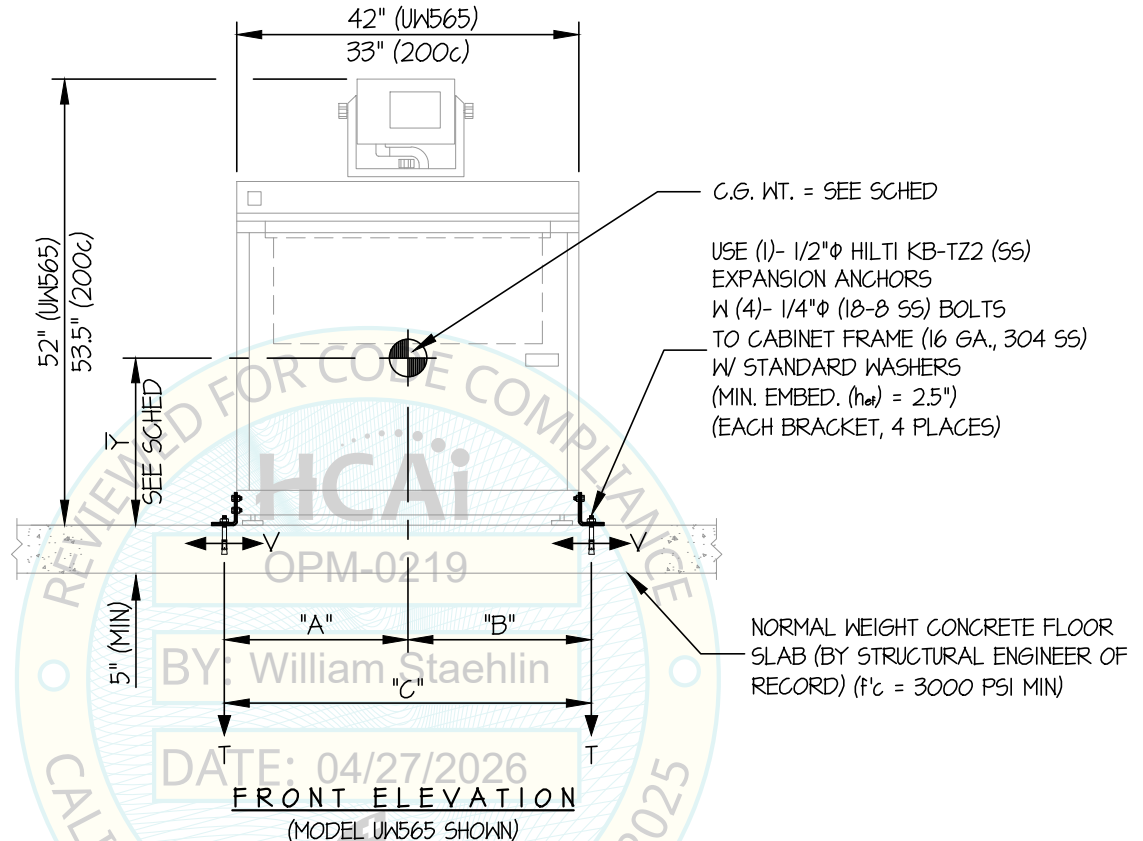
JOB NO. **11-2522**

DATE **4/21/26**

OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB AT OR BELOW GRADE



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=2.50$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_{Uj}=1.0$, $H_f=1.0$, $z/h=0$)
 HORIZONTAL FORCE (E_h) = 1.125 W_p
 HORIZONTAL FORCE (E_{mh}) = 2.25 W_p (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = 0.50 W_p
- THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- 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.
- 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.
- SEE GENERAL NOTES: SHEET 1 AND 2



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

4

**ULTRASONIC WASHERS
MODELS 200c & UW565**

JOB NO. **11-2522**

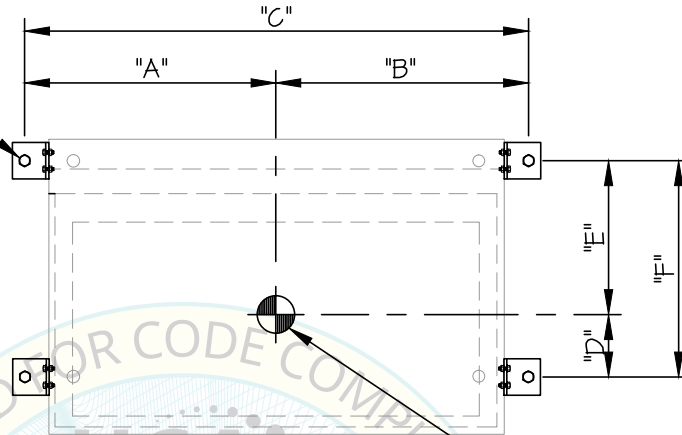
DATE **4/21/26**

OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB AT OR BELOW GRADE

USE (1)- 1/2"Φ HILTI KB-TZ2 (SS)
EXPANSION ANCHORS
W (4)- 1/4"Φ (18-8 SS) BOLTS
TO CABINET FRAME (16 GA., 304 SS)
W STANDARD WASHERS
(MIN. EMBED. (h_{set}) = 2.5")
(EACH BRACKET, 4 PLACES)



C.G. WT. = SEE SCHED
(\bar{Y} = SEE SCHED)

PLAN AT BASE
(MODEL UW565 SHOWN)

BY: William Staehlin

MODEL	WEIGHT (lb.) MAX	\bar{Y} (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	⁺⁺ Tu (lb.)	⁺⁺ Vu (lb.)
200c	550	20.7	18.5	18.5	37	5.8	14.2	20	710	532
UW565	815	21.3	23	23	46	5.7	14.3	20	1042	793

⁺⁺ (VALUES INCLUDE Ω_{sp})



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

5

**ULTRASONIC WASHERS
MODELS 200c & UW565**

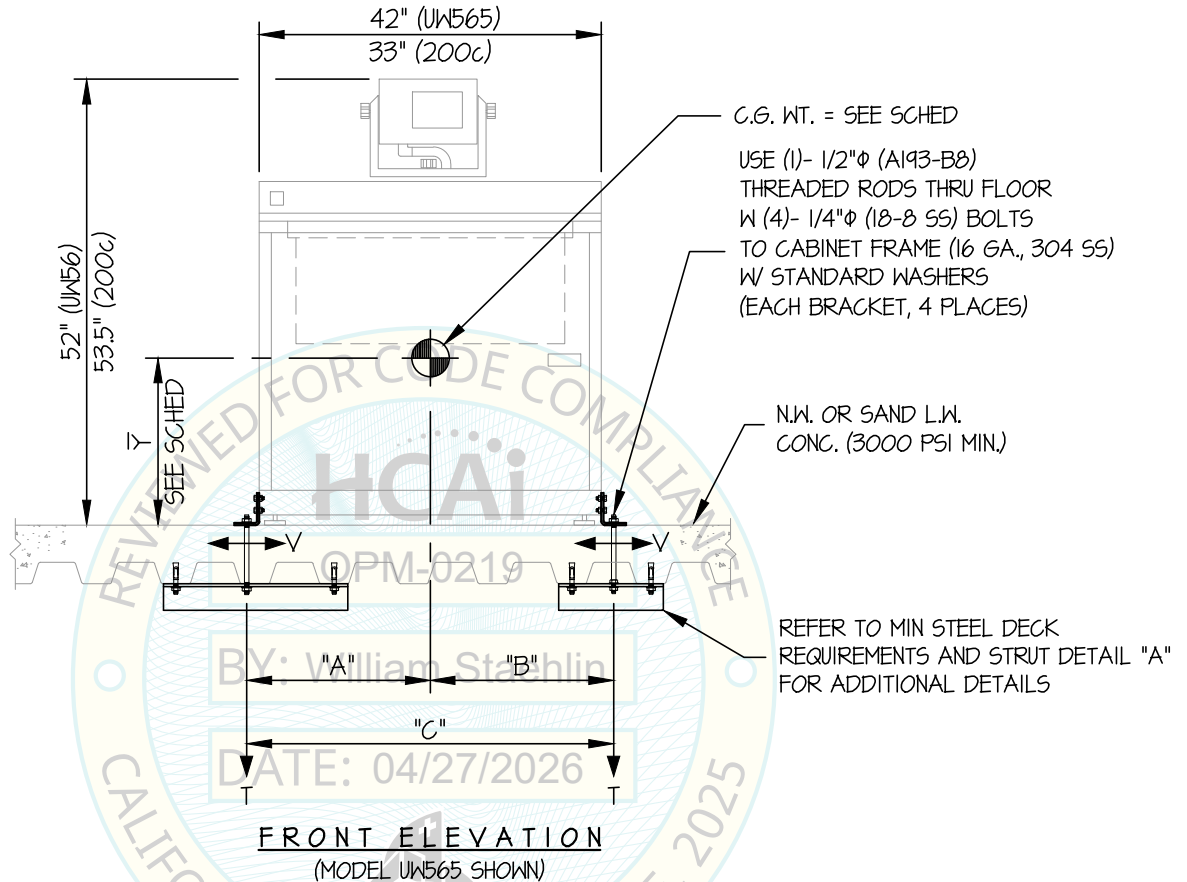
JOB NO. **11-2522**

DATE **4/21/26**

OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=2.50$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_{Uj}=1.3$, $H_f=3.375$, $z/h=0.95$)
 HORIZONTAL FORCE (E_h) = 2.60 W_p
 HORIZONTAL FORCE (E_{mh}) = 5.20 W_p (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = 0.50 W_p
- THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- 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.
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- SEE GENERAL NOTES: SHEET 1 AND 2



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

6

**ULTRASONIC WASHERS
MODELS 200c & UW565**

JOB NO. **11-2522**

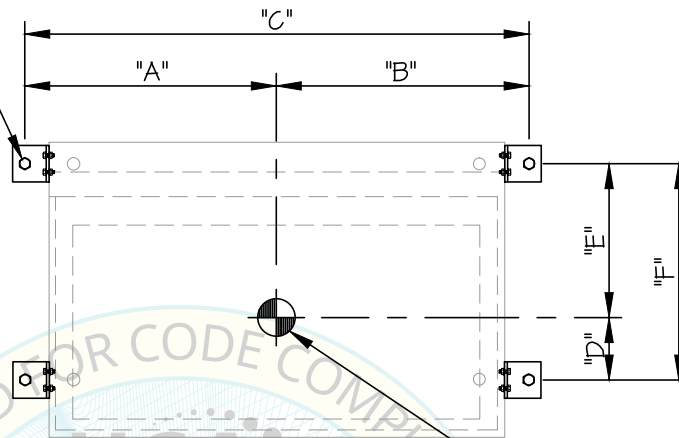
DATE **4/21/26**

OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK

USE (1)- 1/2"φ (A193-B8)
THREADED RODS THRU FLOOR
W (4)- 1/4"φ (18-8 SS) BOLTS
TO CABINET FRAME (16 GA., 304 SS)
W/ STANDARD WASHERS
(EACH BRACKET, 4 PLACES)



C.G. WT. = SEE SCHED
(\bar{Y} = SEE SCHED)

PLAN AT BASE
(MODEL UW565 SHOWN)

BY: William Staehlin

MODEL	WEIGHT (lb.) (MAX)	\bar{Y} (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	⁺⁺ T _u (lb.)	⁺⁺ V _u (lb.)
200c	550	20.7	18.5	18.5	37	5.8	14.2	20	832	615
UW565	815	21.3	23	23	46	5.7	14.3	20	1185	917

⁺⁺ (VALUES DO NOT INCLUDE Ω_{cp})



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

7

**ULTRASONIC WASHERS
MODELS 200c & UW565**

JOB NO. **11-2522**

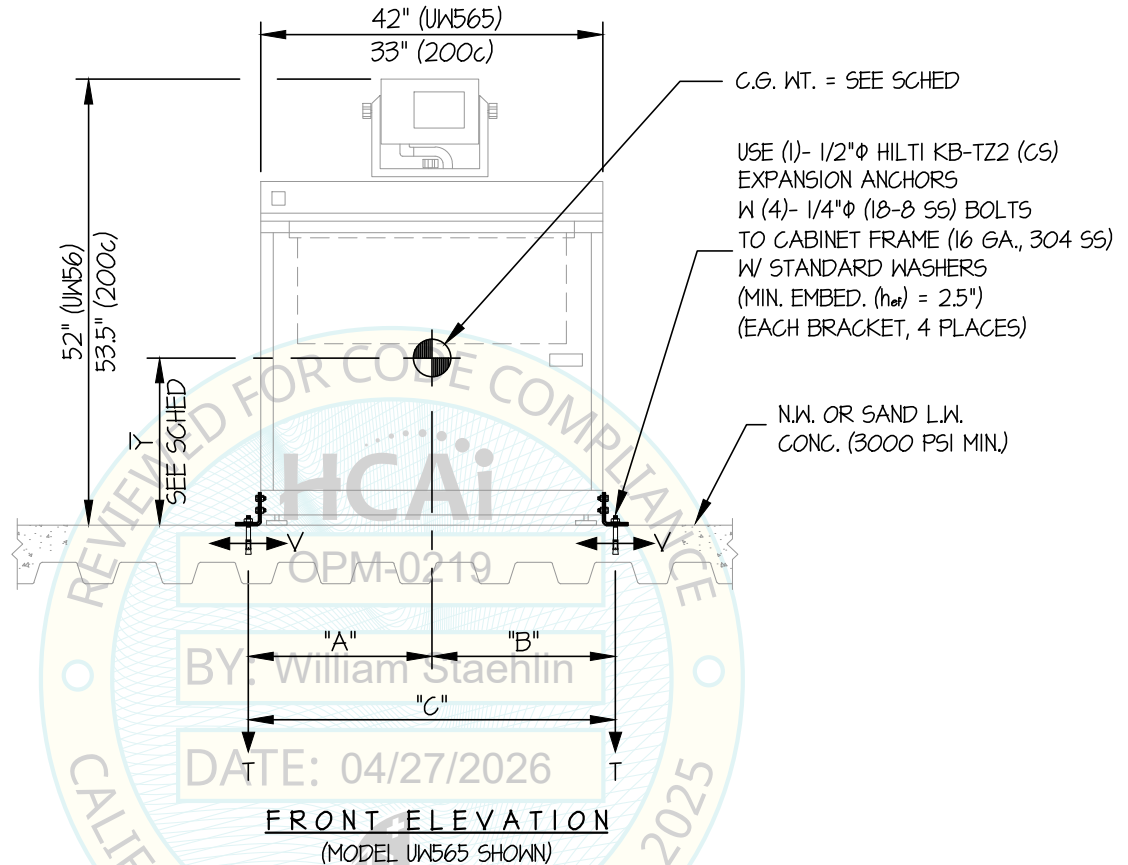
DATE **4/21/26**

OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK

(EXPANSION ANCHORS)



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=1.20$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_U=1.3$, $H_f=2.25$, $z/h=0.50$)
 HORIZONTAL FORCE (E_h) = 0.83 W_p
 HORIZONTAL FORCE (E_{mh}) = 1.66 W_p (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = 0.24 W_p
- THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
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- SEE GENERAL NOTES: SHEET 1 AND 2

Jonathan Roberson

SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

8

**ULTRASONIC WASHERS
MODELS 200c & UW565**

JOB NO. **11-2522**

DATE **4/21/26**

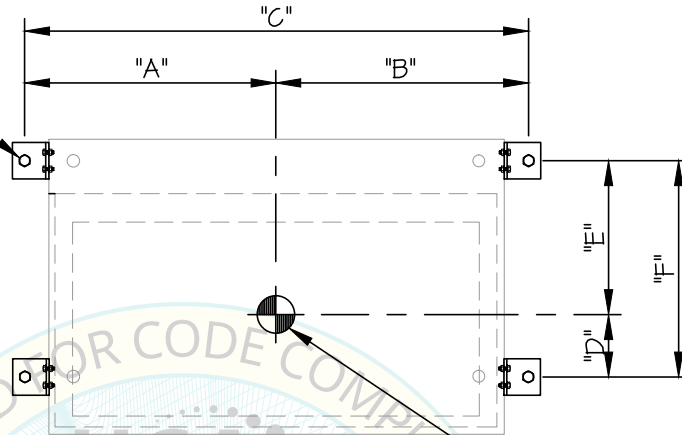
OF **10** SHEETS

SEISMIC ANCHORAGE

CONCRETE SLAB ON METAL DECK

($S_{ps} \leq 1.20, z/h=0.50$)

USE (1)- 1/2"φ HILTI KB-TZ2 (CS)
EXPANSION ANCHORS
W (4)- 1/4"φ (18-8 SS) BOLTS
TO CABINET FRAME (16 GA., 304 SS)
W STANDARD WASHERS
(MIN. EMBED. (h_{ef}) = 2.5")
(EACH BRACKET, 4 PLACES)



C.G. WT. = SEE SCHED
(\bar{Y} = SEE SCHED)

PLAN AT BASE
(MODEL UW565 SHOWN)

BY: William Staehlin

MODEL	WEIGHT (lb.) (MAX)	\bar{Y} (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	⁺⁺ T _u (lb.)	⁺⁺ V _u (lb.)
200c	550	20.7	18.5	18.5	37	5.8	14.2	20	464	393
UW565	815	21.3	23	23	46	5.7	14.3	20	697	585

⁺⁺ (VALUES INCLUDE Ω_m)



SteelcoBelimed Inc

DES. **J. ROBERSON**

SHEET

9

ULTRASONIC WASHERS MODELS 200c & UW565

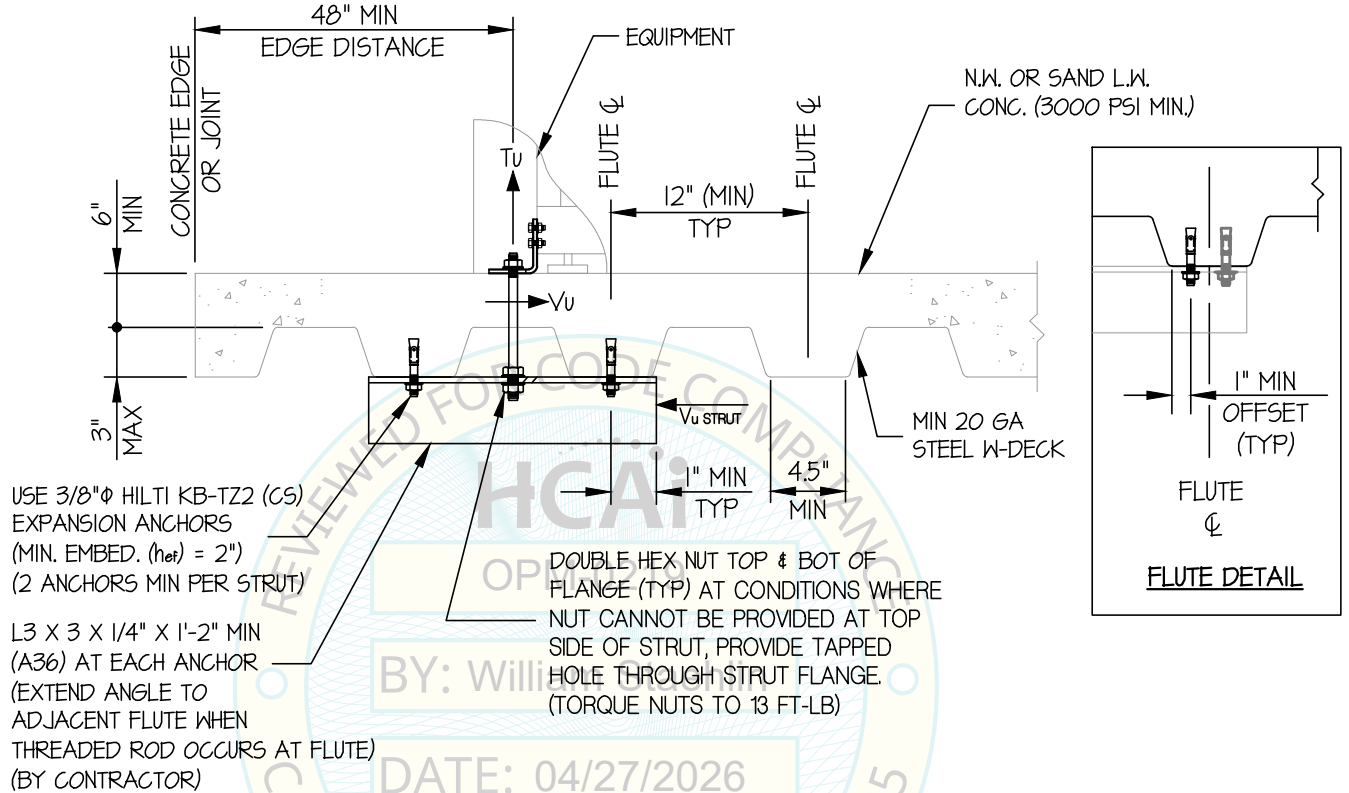
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OF **10** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAIL



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A)



SteelcoBelimed Inc

DES. J. ROBERSON

SHEET

10

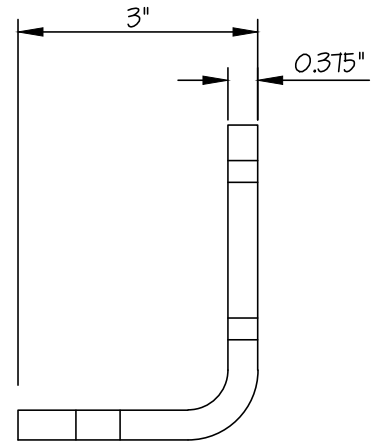
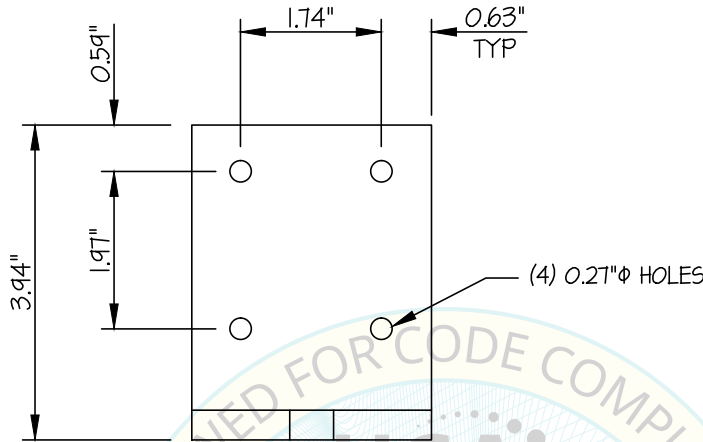
ULTRASONIC WASHERS MODELS 200c & UW565

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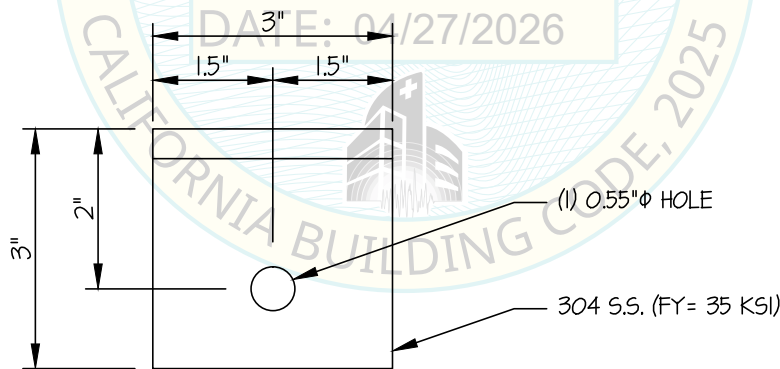
OF 10 SHEETS

BRACKET DETAIL



FRONT

SIDE



PLAN

