



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0690

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal/Update

Manufacturer Information

Manufacturer: Chatsworth Products

Manufacturer's Technical Representative: Todd Schneider

Mailing Address: 4175 Guardian Street, Simi Valley, CA 93063

Telephone: (203) 969-4862

Email: TSchneider@chatsworth.com

Product Information

Product Name: ZetaFrame

OPM-0690

Product Type: Instrumentation Cabinet

Product Model Number: ZA13-YYYYY-YY, ZB15-YYYYY-YY, ZC24-YYYYY-YY, ZAZB3313-YYYYY-YY, ZB41-YYYYY-YY, ZAZC4513-YYYYY-YY

General Description: Telecommunication rack

Applicant Information

Applicant Company Name: EASE LLC.

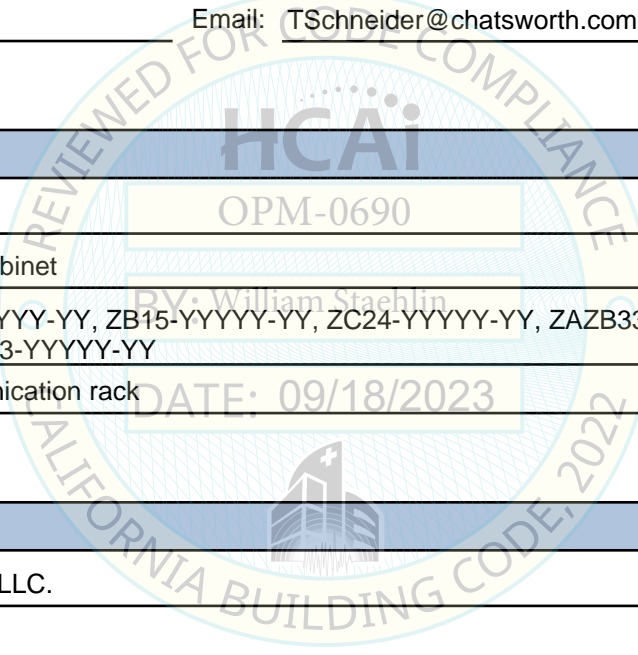
Contact Person: Tiffany Tonn

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

Telephone: (406) 541-3273

Email: tiffany@easeco.com

Title: Office Manager



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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

HCAI Special Seismic Certification Preapproval (OSP)

Special Seismic Certification is preapproved under OSP OSP Number: _____

Certification Method

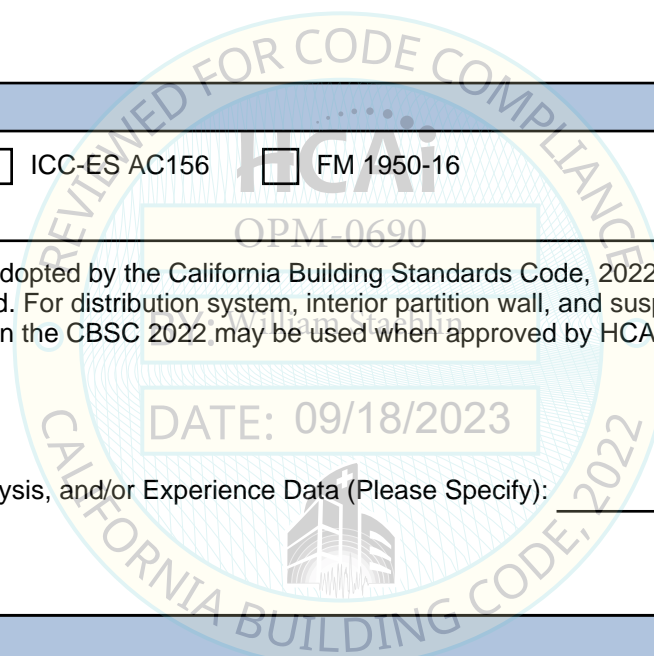
Testing in accordance with: ICC-ES AC156 FM 1950-16
 Other(s) (Please Specify): _____

*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: 9/18/2023
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-0690

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: **CHATSWORTH PRODUCTS, INC**
EQUIPMENT NAME: **ZetaFrame Cabinet**

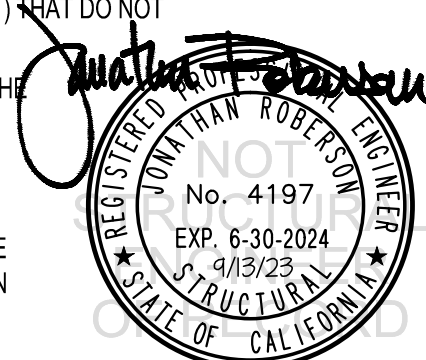
Sheet: 1 of 13
Date: 9/13/23

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 WHERE S_{ds} IS NOT GREATER THAN 1.50, 1.60, 1.80 & 2.00. SEE DETAIL FOR APPLICABILITY.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{ds} = 1.50$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_0
WHERE $S_{ds} = 1.60$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_0
WHERE $S_{ds} = 1.80$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_0
WHERE $S_{ds} = 2.00$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h \leq 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_0
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. $z/h \leq 1$)
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 2022 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 VALUES OF S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- 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.



CHATSWORTH PRODUCTS, INC

ZetaFrame Cabinet

DES. J. ROBERSON

JOB NO. 11-2314

DATE 9/13/23

SHEET

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OF 13 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 <small>(CARBON STEEL)</small>	ESR-4266	2"	6.75	12	See Detail "A"	30 FT-LB	N/A
5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 <small>(CARBON STEEL)</small>	ESR-4266	3.25"	3"	32"	6"	40 FT-LB	2685 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 32" 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) 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.
- TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE NUT

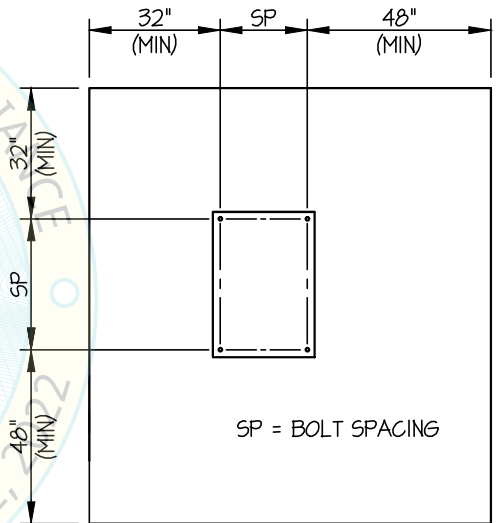
- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.

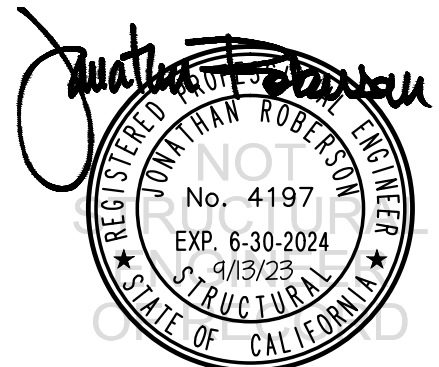
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

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.



TYPICAL CONCRETE EDGE DETAIL
(SLAB ON GRADE ONLY)



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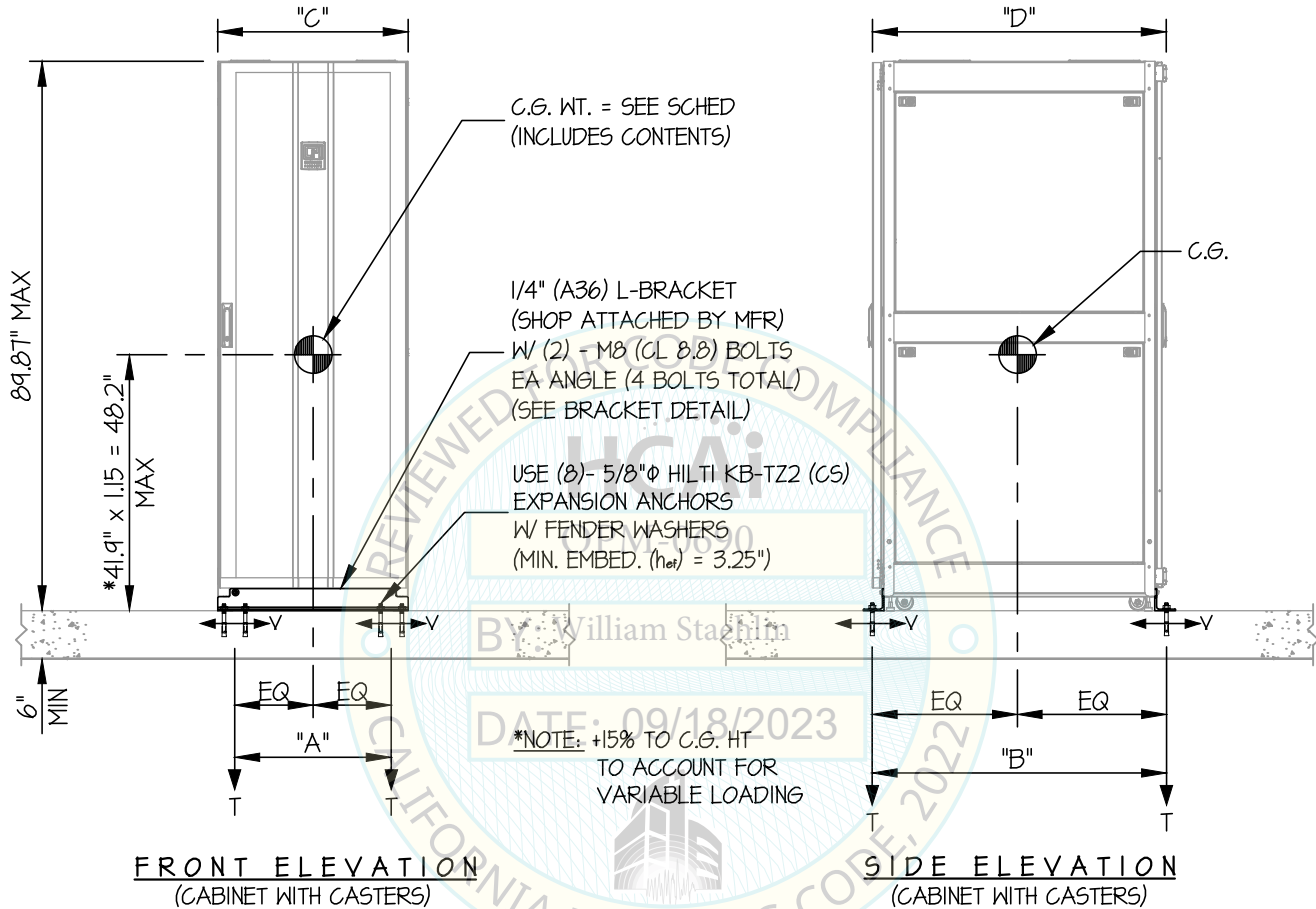
SHEET

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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds} = 1.50$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $\Omega_0 = 2.0$, $z/h = 0$)

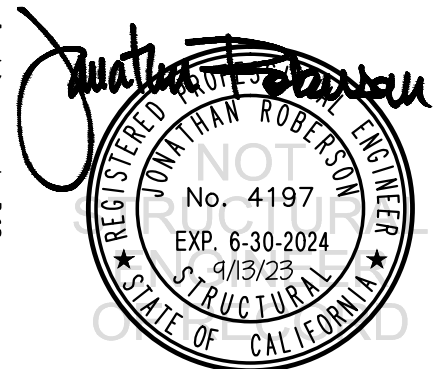
- HORIZONTAL FORCE (E_h) = $0.68 W_p$
- HORIZONTAL FORCE (E_{mh}) = $1.35 W_p$ (FOR CONCRETE ANCHORAGE)
- VERTICAL FORCE (E_v) = $0.30 W_p$

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

3. THIS CALCULATION 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2



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ZetaFrame Cabinet

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SHEET

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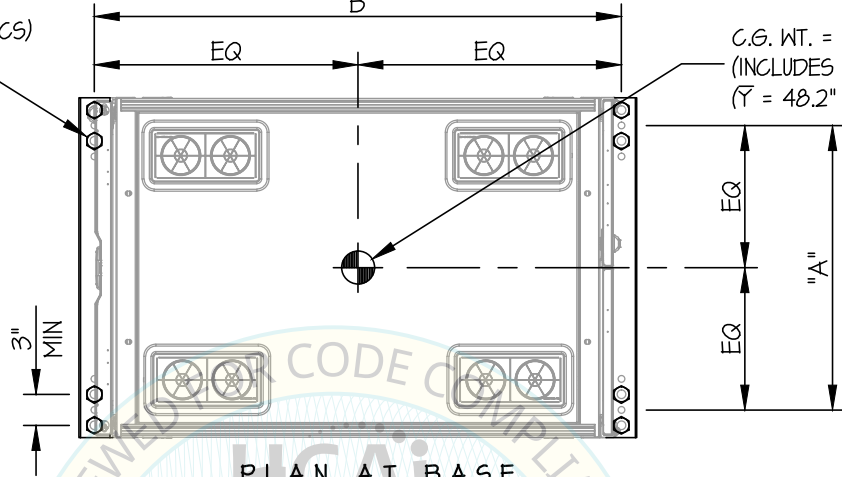
OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$Sds \leq 1.50$

CONCRETE SLAB

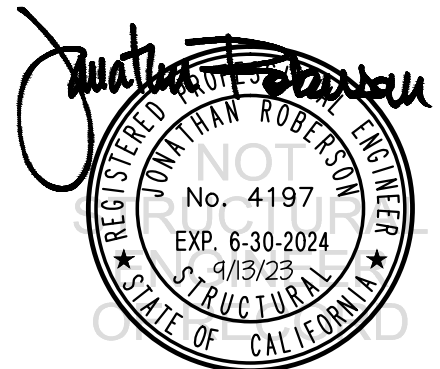
USE (8)- 5/8"φ HILTI KB-TZ2 (CS)
EXPANSION ANCHORS
W/ FENDER WASHERS
(MIN. EMBED. (h_{ef}) = 3.25")



PLAN AT BASE
(CABINET WITH CASTERS)

MODEL NO.	CABINET STYLE	WEIGHT (lb.)	MAX OP WEIGHT (lb.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	** Tu (lb.)	** Vu (lb.)
ZA13-YYYY-YY	42UX600WX1050D	314	2114	18.6	43.36	23.6	44.4	1928	464
ZB15-YYYY-YY	45UX600WX1200D	345	2145	18.6	49.27	23.6	50.3	1928	471
ZC24-YYYY-YY	48UX700WX1100D	375	2175	22.5	45.33	27.5	46.3	1644	477
ZB33-YYYY-YY	45UX750WX1050D	372	2172	24.5	43.36	29.5	44.4	1524	476
ZB41-YYYY-YY	45UX800WX800D	340	2140	26.4	33.52	31.5	34.5	1470	469
ZC45-YYYY-YY	48UX800WX1200D	415	2215	26.4	49.27	31.5	50.3	1418	486

** (VALUES INCLUDE Ω)



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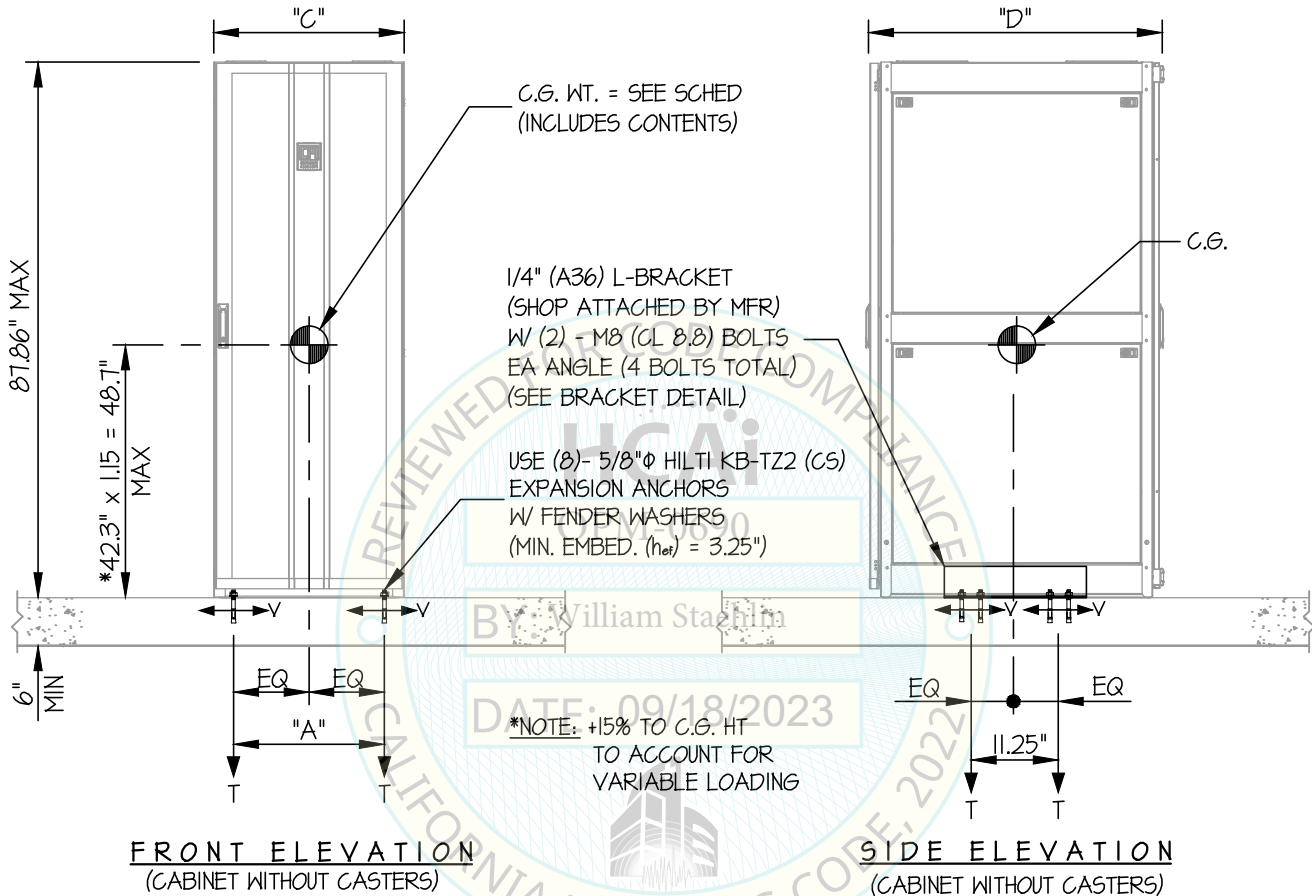
SHEET

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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds} = 1.60$, $a_p = 10$, $l_p = 15$, $R_p = 2.5$, $\Omega_0 = 2.0$, $z/h = 0$)
 - HORIZONTAL FORCE (E_h) = $0.72 W_p$
 - HORIZONTAL FORCE (E_{mh}) = $1.44 W_p$ (FOR CONCRETE ANCHORAGE)
 - VERTICAL FORCE (E_v) = $0.32 W_p$
- THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- THIS CALCULATION 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: SHEETS 1 AND 2



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SHEET

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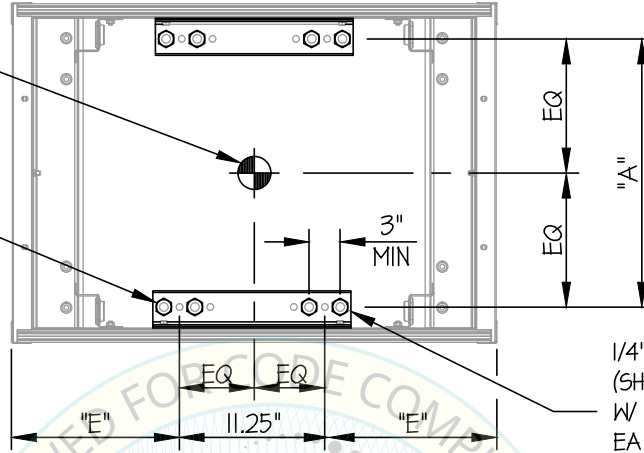
SEISMIC SUPPORTS & ATTACHMENTS

$Sds \leq 1.60$

CONCRETE SLAB

C.G. WT. = SEE SCHED
(INCLUDES CONTENTS)
(\bar{Y} = 48.7" MAX)

USE (B)- 5/8" ϕ HILTI KB-TZ2 (CS)
EXPANSION ANCHORS
W/ FENDER WASHERS
(MIN. EMBED. (h_{ef}) = 3.25")

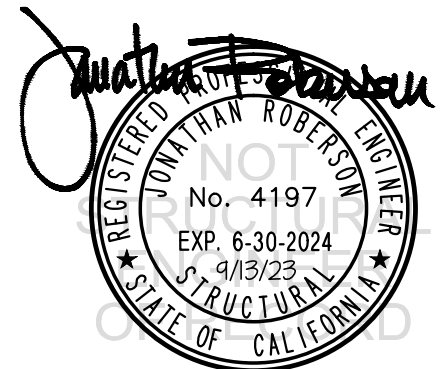


1/4" (A36) L-BRACKET
(SHOP ATTACHED BY MFR)
W/ (2) - M8 (CL 8.8) BOLTS
EA ANGLE (4 BOLTS TOTAL)
(SEE BRACKET DETAIL)

PLAN AT BASE
(CABINET WITHOUT CASTERS)

MODEL NO.	CABINET STYLE	WEIGHT (lb.)	MAX OP WEIGHT (lb.)	"A" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	** Tu (lb.)	** Vu (lb.)
ZA13-YYYY-YY	42UX600WX1050D	290	2090	17.8	23.6	44.4	16.6	2013	489
ZB15-YYYY-YY	45UX600WX1200D	321	2121	17.8	23.6	50.3	19.5	2005	496
ZC24-YYYY-YY	48UX700WX1100D	350	2150	21.7	27.5	46.3	17.5	1770	503
ZB33-YYYY-YY	45UX750WX1050D	348	2148	23.7	29.5	44.4	16.6	1666	503
ZB41-YYYY-YY	45UX800WX800D	315	2115	25.6	31.5	34.5	11.6	1859	495
ZC45-YYYY-YY	48UX800WX1200D	391	2191	25.6	31.5	50.3	19.5	1561	513

** (VALUES INCLUDE Ω)



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ZetaFrame Cabinet

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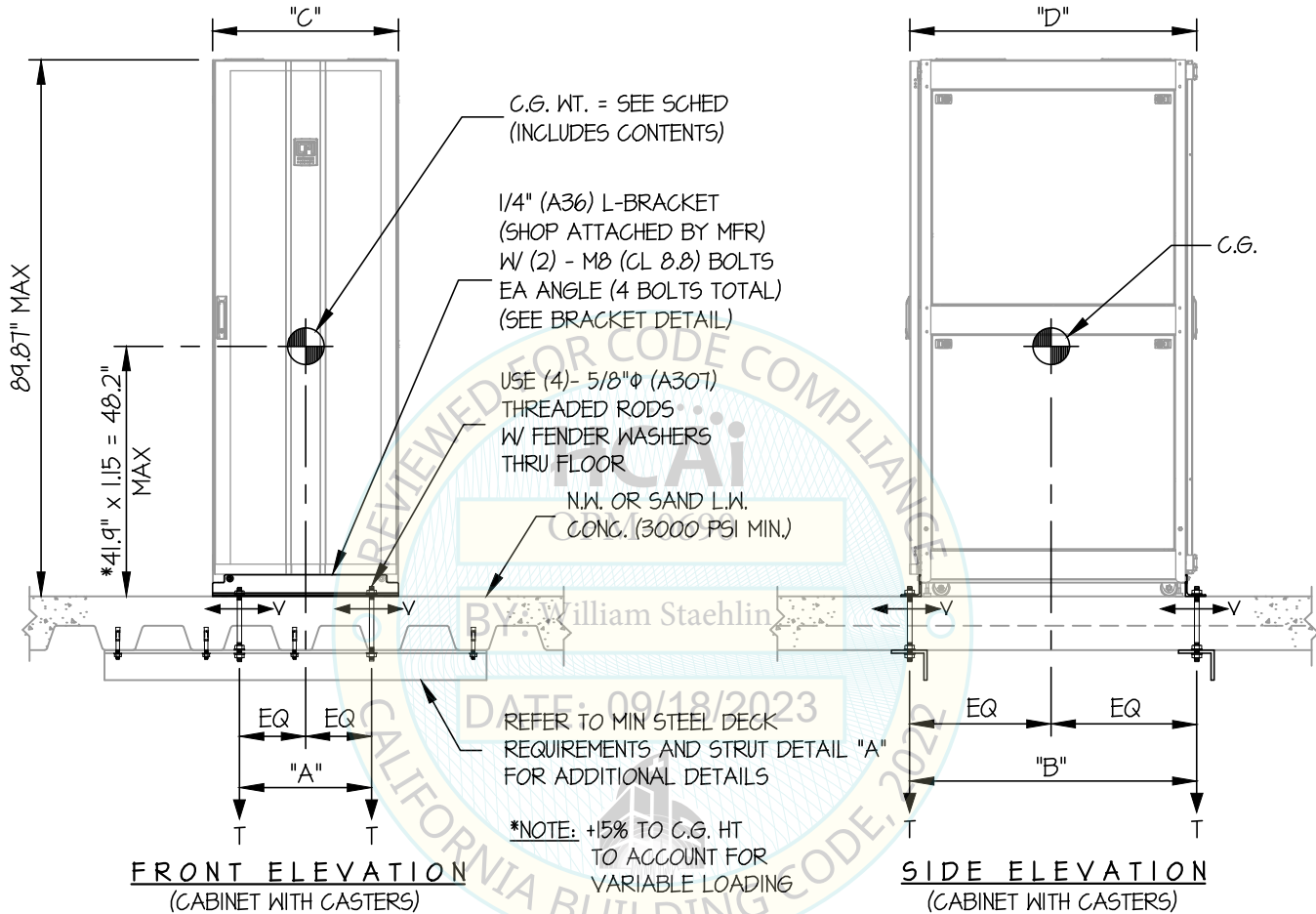
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OF 13 SHEETS

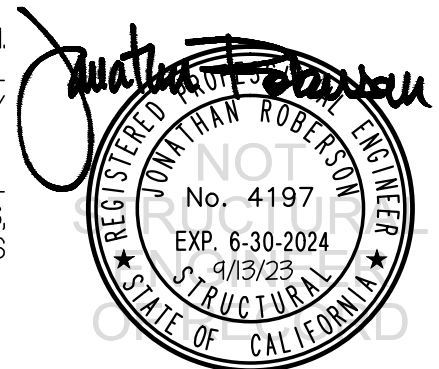
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: $S_Ds = 1.80$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $\Omega_0 = 2.0$, $z/h = 0$)
 - HORIZONTAL FORCE (E_h) = $1.30 W_p$
 - HORIZONTAL FORCE (E_{mh}) = $2.59 W_p$ (FOR CONCRETE ANCHORAGE)
 - VERTICAL FORCE (E_v) = $0.36 W_p$
- THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- THIS CALCULATION 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: SHEETS 1 AND 2



CHATSWORTH PRODUCTS, INC

ZetaFrame Cabinet

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SHEET

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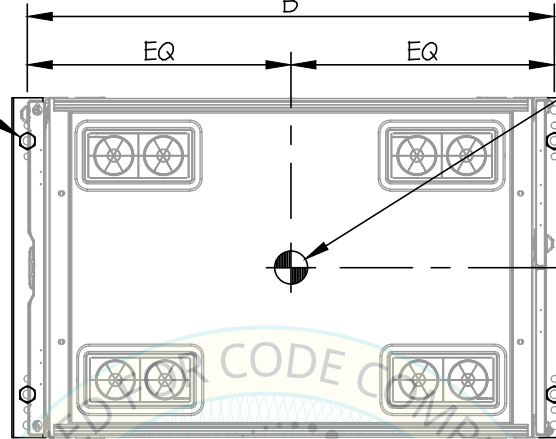
OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$Sds \leq 1.80$

CONCRETE SLAB ON METAL DECK

USE (4)- 5/8"φ (A307)
THREADED RODS
W/ FENDER WASHERS
THRU FLOOR

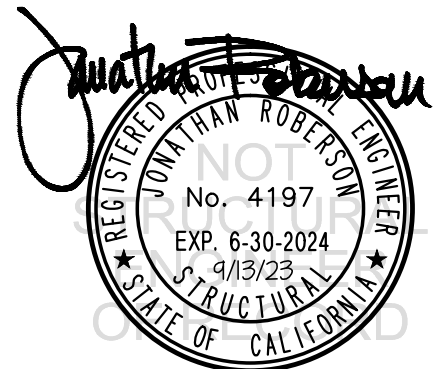


C.G. WT. = SEE SCHED
(INCLUDES CONTENTS)
(\bar{Y} = 42.8" MAX)

PLAN AT BASE
(CABINET WITH CASTERS)

MODEL NO.	CABINET STYLE	WEIGHT (lb.)	MAX OP WEIGHT (lb.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	** Tu (lb.)	** Vu (lb.)
ZA13-YYYY-YY	42UX600WX1050D	314	2114	15.6	43.36	23.6	44.4	4418	893
ZB15-YYYY-YY	45UX600WX1200D	345	2145	15.6	49.27	23.6	50.3	4427	906
ZC24-YYYY-YY	48UX700WX1100D	375	2175	19.5	45.33	27.5	46.3	3652	919
ZB33-YYYY-YY	45UX750WX1050D	372	2172	21.5	43.36	29.5	44.4	3343	918
ZB41-YYYY-YY	45UX800WX800D	340	2140	23.4	33.52	31.5	34.5	3176	904
ZC45-YYYY-YY	48UX800WX1200D	415	2215	23.4	49.27	31.5	50.3	3089	936

** (VALUES DO NOT INCLUDE Ω)



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ZetaFrame Cabinet

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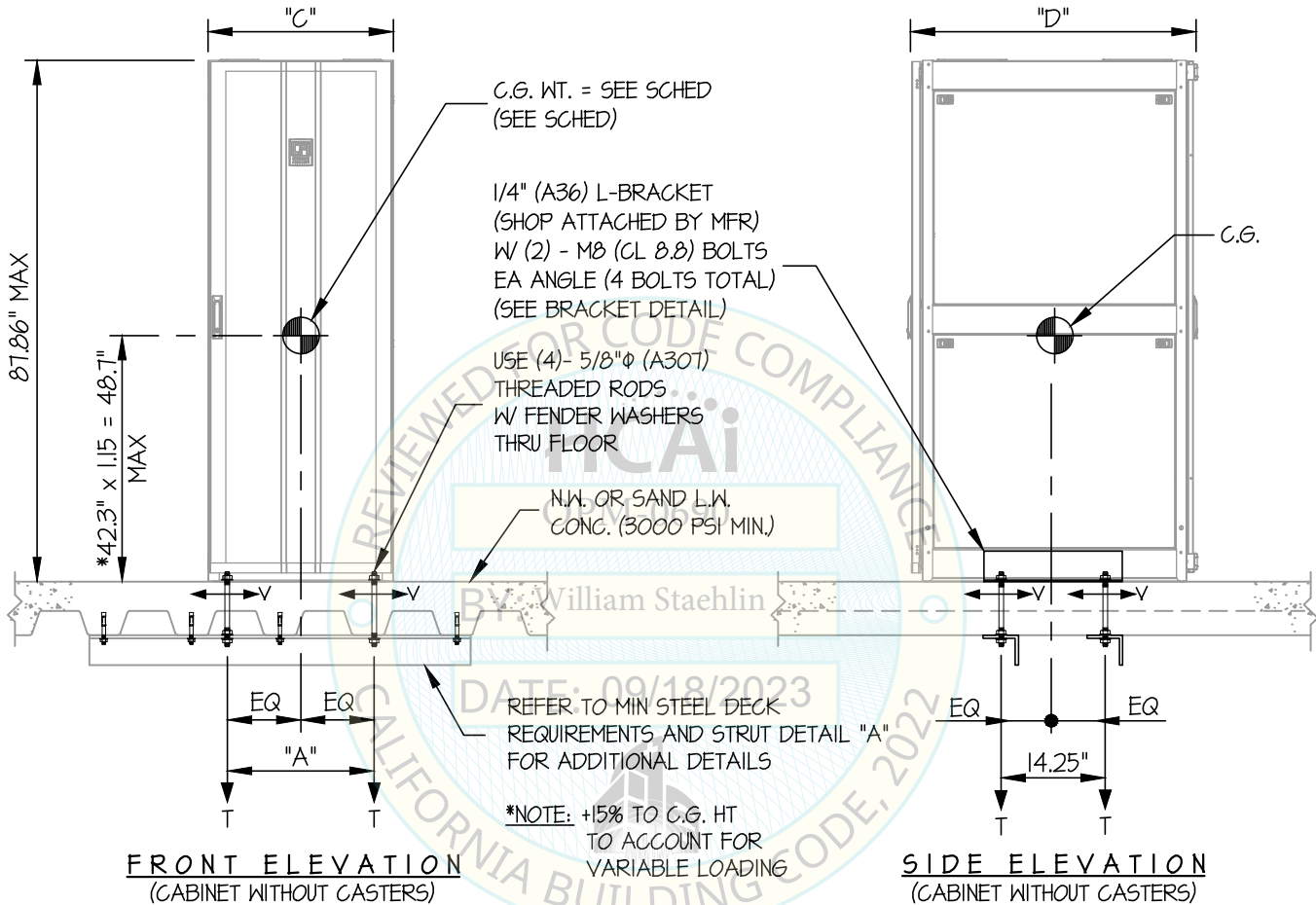
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OF 13 SHEETS

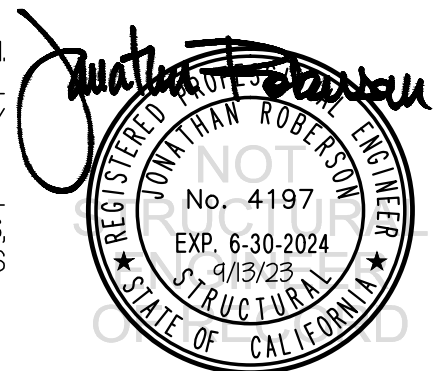
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{Ds} = 2.00$, $a_p = 10$, $l_p = 15$, $R_p = 2.5$, $\Omega_o = 2.0$, $z/h \leq 1$)
 - HORIZONTAL FORCE (E_h) = 1.44 W_p
 - HORIZONTAL FORCE (E_{mh}) = 2.88 W_p (FOR CONCRETE ANCHORAGE)
 - VERTICAL FORCE (E_v) = 0.40 W_p
- THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- THIS CALCULATION 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: SHEETS 1 AND 2



CHATSWORTH PRODUCTS, INC

DES. J. ROBERSON

SHEET

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OF 13 SHEETS

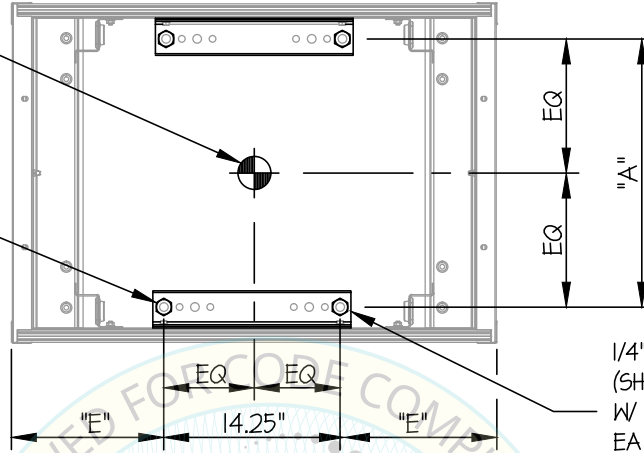
SEISMIC SUPPORTS & ATTACHMENTS

$S_D \leq 2.00$

CONCRETE SLAB ON METAL DECK

C.G. WT. = SEE SCHED
(INCLUDES CONTENTS)
(\bar{Y} = 48.7" MAX)

USE (4)- 5/8"φ (A307)
THREADED RODS
W/ FENDER WASHERS
THRU FLOOR



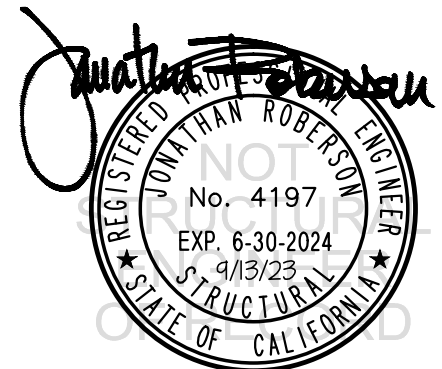
1/4" (A36) L-BRACKET
(SHOP ATTACHED BY MFR)
W/ (2) - M8 (CL 8.8) BOLTS
EA ANGLE (4 BOLTS TOTAL)
(SEE BRACKET DETAIL)

PLAN AT BASE
(CABINET WITHOUT CASTERS)

MODEL NO.	CABINET STYLE	WEIGHT (lb.)	MAX OP WEIGHT (lb.)	"A" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	** Tu (lb.)	** Vu (lb.)
* ZA13-YYYY-YY	42UX600WX1050D	290	2090	17.8	23.6	44.4	15.1	4028	978
ZB15-YYYY-YY	45UX600WX1200D	321	2121	17.8	23.6	50.3	18.0	4019	993
ZC24-YYYY-YY	48UX700WX1100D	350	2150	21.7	27.5	46.3	16.0	3543	1006
ZB33-YYYY-YY	45UX750WX1050D	348	2148	23.7	29.5	44.4	15.1	3333	1005
ZB41-YYYY-YY	45UX800WX800D	315	2115	25.6	31.5	34.5	10.1	3560	990
ZC45-YYYY-YY	48UX800WX1200D	391	2191	25.6	31.5	50.3	18.0	3132	1025

* THIS UNIT IS USED IN CALCULATION

** (VALUES DO NOT INCLUDE Ω)



CHATSWORTH PRODUCTS, INC

DES. **J. ROBERSON**

SHEET

11

JOB NO. **11-2314**

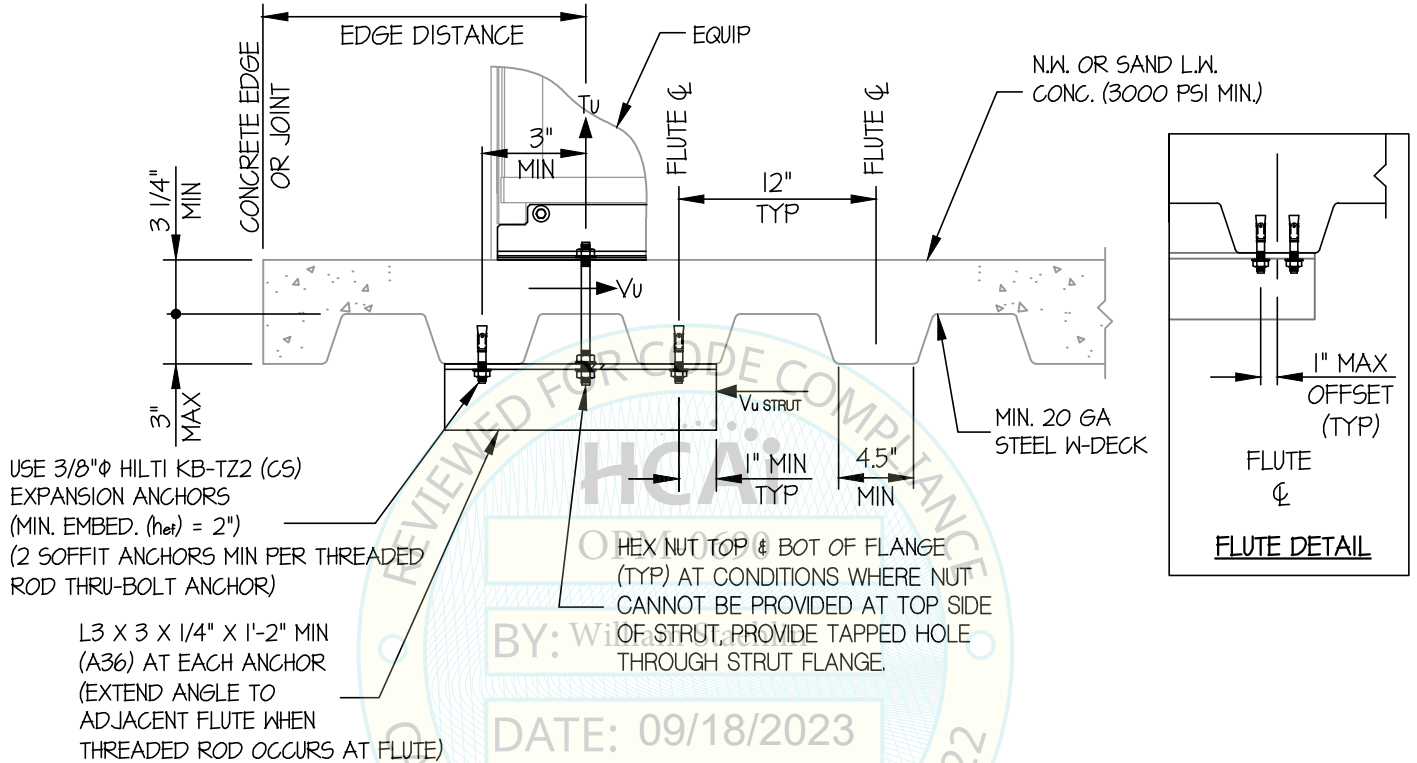
DATE **9/13/23**

OF **13** SHEETS

ZetaFrame Cabinet

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A)

Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2024
9/13/23
STRUCTURAL
STATE OF CALIFORNIA

CHATSWORTH PRODUCTS, INC

DES. **J. ROBERSON**

SHEET

12

ZetaFrame Cabinet

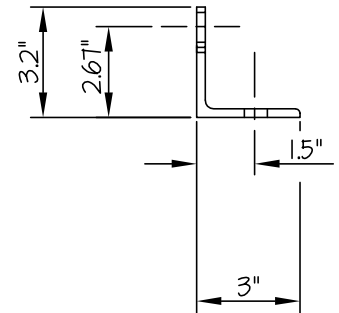
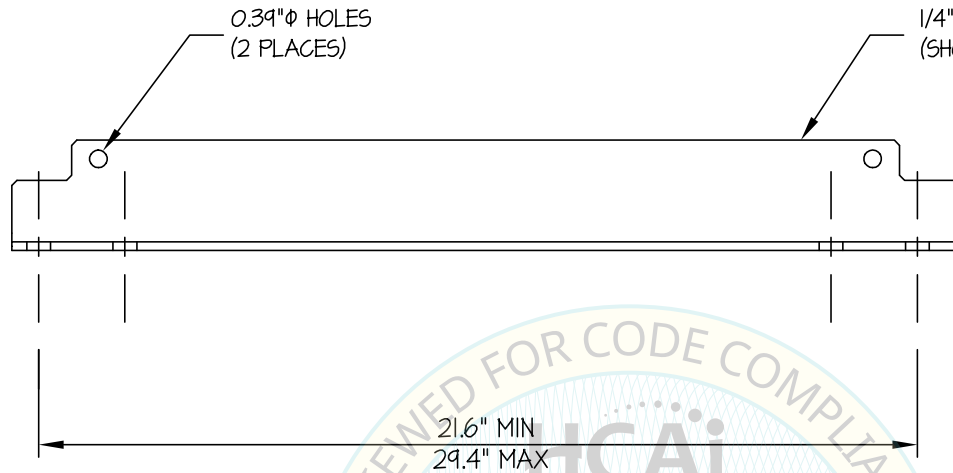
JOB NO. **11-2314**

DATE **9/13/23**

OF **13** SHEETS

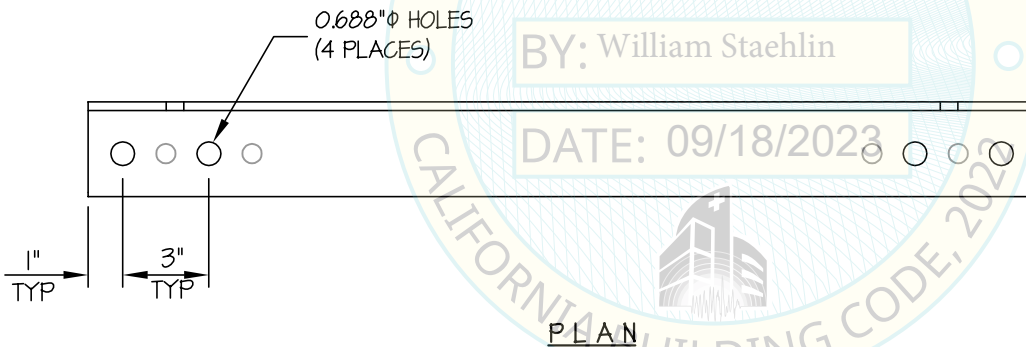
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS

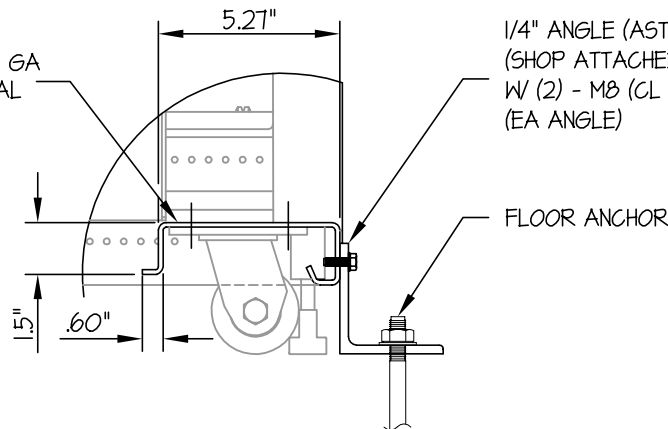


FRONT

SIDE



PLAN



DETAIL
(WITH CASTERS)



CHATSWORTH PRODUCTS, INC

DES. **J. ROBERSON**

SHEET

13

ZetaFrame Cabinet

JOB NO. **11-2314**

DATE **9/13/23**

OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS

