



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-0776

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal/Update

Manufacturer Information

Manufacturer: Abbott

Manufacturer's Technical Representative: Eric Kristiansen

Mailing Address: 1921 Hurd Drive, Irving, TX 75038

Telephone: (214) 458-4420

Email: Eric.Kristiansen@abbott.com

Product Information

Product Name: Alinity c, Alinity i, Alinity hq, Alinity hs

Product Type: Automated laboratory blood analyzers

Product Model Number: Alinity c, Alinity i, Alinity hq, Alinity hs

General Description: Automated Laboratory Instruments used for hematology analysis

Applicant Information

Applicant Company Name: Abbott

Contact Person: Eric Kristiansen

Mailing Address: 1921 Hurd Drive, Irving, TX 75038

Telephone: (214) 458-4420

Email: Eric.Kristiansen@abbott.com

Title: Engineer

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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: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

Mailing Address: 2710 Gateway Oaks Drive, Suite 190N, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.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: 8/29/2026

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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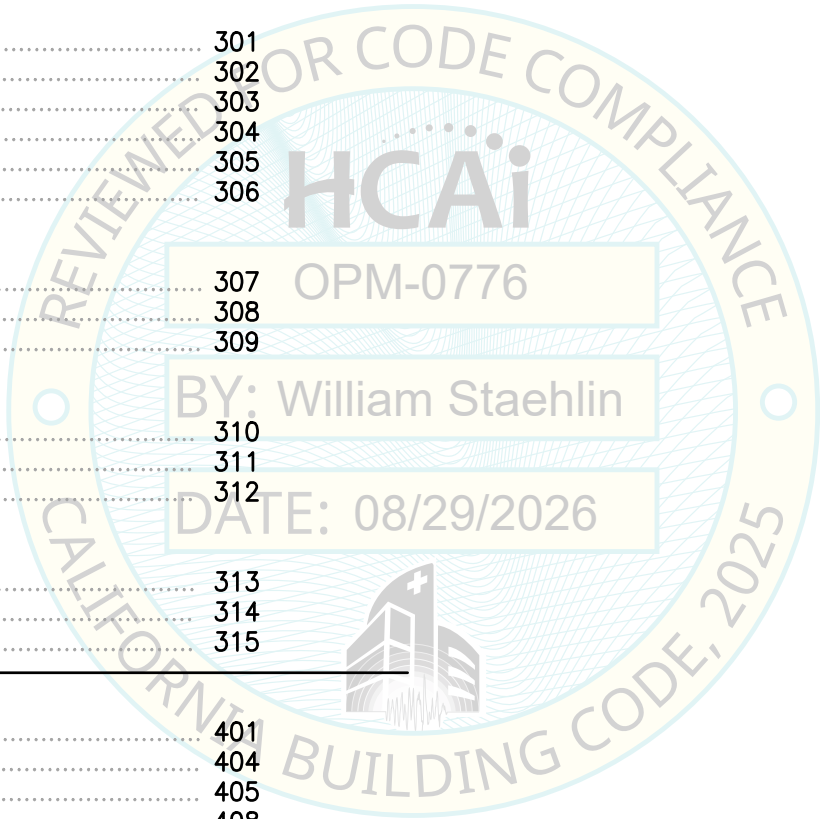
OPM-0776
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NOTES:

THESE DRAWINGS ARE PREPARED FOR ABBOTT LABORATORIES, AN ILLINOIS CORPORATION, ABBOTT PARK, ILLINOIS.

1. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OSHPD WEBSITE AND PROVIDE ONE COPY FOR THE INSPECTOR OF RECORD.
2. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE LABORATORY EQUIPMENT TO THE STRUCTURE.



NOT SEOR

SHEET TITLE: GENERAL NOTES				Rev	Description	Date	Job No: 26015
							Date: 08/072026
							By: CYS
							Page: 101



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2025 "A" CHAPTERS.
- THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2025 "A" CHAPTERS.
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:
- A. THE ADEQUACY OF THE NEW OR (E) STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EACH EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
 - B. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
 - C. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR (E) ANCHORS. THE SPACING SHOWN IN THE TEST LOADS IN TABLE 1 ON THIS PG IS THE REQ MIN SPACING OF THE GIVEN DIA ANCHORS. THE REQ SPACING FROM ANCHORS OF OTHER DIA & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.
 - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2025 "A" CHAPTERS & W/ THE DTLs SHOWN IN THIS PRE-APPROVAL.
 - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DTLs, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
 - F. THAT THE CONC SLAB TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THE APPLICABLE ICC REPORT & THIS OPM.
3. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STL HILTI KB-TZ2 EXPANSION ANCHORS COMPLYING W/ ESR-4266 MOST RECENT EDITION OR CARBON STEEL SIMPSON STRONG-BOLT 2 EXPANSION ANCHORS COMPLYING W/ ESR-3037 MOST RECENT EDITION.
- A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLES ON THIS PG. PROVIDE FULL THRD ENGAGEMENT FOR NUT & WASHER.
 - B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TORQUE 50% OF THE INSTALLED ANCHORS. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE SPECIAL INSPECTOR & REPORT OF TEST RESULTS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD, OWNER & ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIP INSTALLATION, HOWEVER, THE NUT SHALL BE RETORQUED TO INSTALLATION TORQUE AFTER EQUIP INSTALL. ALSO, REFER TO 2025 CBC 1910A.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
 - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLIES FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED W/IN THE FOLLOWING LIMITS: WEDGE TYPE:
ONE-HALF (1/2) TURN OF THE NUT.
 - D. AVOID DAMAGING (E) STL REINF IN CONC SLAB WHEN INSTALLING CONC EXPANSION ANCHORS.
 - E. TEST VALUES: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE, SEE TABLES 1&2.

TABLE 1 – SEISMIC BRACKET EXPANSION ANCHORS

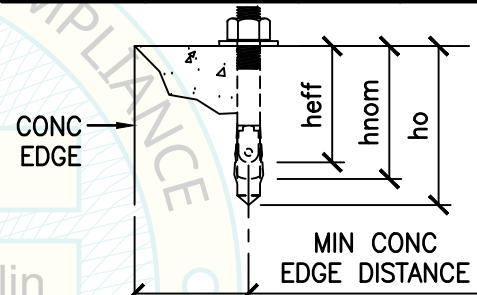
CONDITION OF ANCHORAGE	ANCHOR MFR & TYPE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) hmin	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST LOAD TORQUE (FT-LBS)	ESR REPORT #
CASE 2	HILTI KB-TZ2	1/2	2 1/2	2	2 3/4	4	12	5 1/2	50	4266
	SIMPSON SB2	1/2	2 3/4	2 1/4	3	4	12	5 1/2	60	3037
CASE 3	HILTI KB-TZ2	1/2	2 1/2	2	2 3/4	4	12	5 1/2	50	4266
	SIMPSON SB2	1/2	2 3/4	2 1/4	3	4	12	5 1/2	60	3037

GENERAL NOTES CONTINUED:

4. BOLTS THROUGH CONC ON MTL DECK:
- A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - B. THRU-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16")
 - C. THRU-BOLTS IN CONC SHALL RECEIVE SPECIAL INSPECTION & TESTING IN ACCORDANCE W/ REQUIREMENTS FOR POST-INSTALLED ANCHORS. THRU-BOLTS W/ STL TO STL CONNECTION IN TENSION DO NOT REQUIRE TESTING.
5. EXPANSION ANCHORS TO BOTT OF CONC FILL OVER MTL DECK:
- A. HILTI KB-TZ2 (ICC ESR-4266) TORQUE TEST LOAD FOR CASE 1.
 - B. SIMPSON STRONG-BOLT 2 (ICC ESR-3037) TORQUE TEST LOAD FOR CASE 1.

TABLE 2 – EXPANSION ANCHORS TO BOTTOM OF CONC FILL OVER METAL DECK

CONDITION OF ANCHORAGE	ANCHOR MFR & TYPE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) hmin	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	MAX INSTALLATION TORQUE (FT-LBS)	ESR REPORT #
CASE 1	HILTI KB-TZ2	1/4	1 3/4	1 1/2	2	3/4	1*	10*	4	4266
	SIMPSON SB2	1/4	1 3/4	1 1/2	1 7/8	3/4	1 3/4*	10*	4	3037



6. THREE (3) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:
- CASE 1:** ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h \leq 0.95$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK ($f'c = 3000$ PSI, MIN). ANCHORS SHALL BE A325 STL THRD ROD THRU CONC FILL & MTL DECK.
- CASE 2:** ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h = 0.45$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK ($f'c = 3000$ PSI, MIN). ANCHORS SHALL BE CARBON STEEL EXPANSION ANCHORS INTO CONCRETE FILL.
- CASE 3:** ATTACHMENT DETAILS LOCATED AT OR BLW THE BASE OF A BLDG ($z/h \leq 0.00$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB ($f'c = 3000$ PSI, MIN). ANCHORS SHALL BE CARBON STEEL EXPANSION ANCHORS.
7. THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA WHERE S_{ps} IS LESS THAN OR EQUAL TO VALUES PUBLISHED IN COMPONENT SCHED ON PG 201.
8. FABRICATION LENGTH AND HOLE PLACEMENT TOLERANCES SHALL BE $\pm 1/16"$. HOLE TOLERANCE SHALL BE $+1/16"$



SHEET TITLE: GENERAL NOTES

 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS	 CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com	Rev	Description	Date	Job No: 26015
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DESIGN CRITERIA

SUPPORT & ATTACHMENT DESIGN IS PER 2025 CBC AND ASCE 7-22 AT LRFD LEVEL FORCES.

OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6-1 OF ASCE 7-22:

$$C_{PM} = F_p/W_p = 0.4 S_{DS} I_p \left[\frac{H_f}{R_{\mu}} \right] \left[\frac{C_{AR}}{R_{po}} \right]$$
$$C_{PM} = F_p/W_p \text{ (MAX)} = 1.6 S_{DS} I_p$$
$$C_{PM} = F_p/W_p \text{ (MIN)} = 0.3 S_{DS}$$
$$C_{VM} = F_v/W_p = \pm 0.2 S_{DS}$$
$$H_{fMIN} = 1.0$$
$$H_{fMAX} = 1+2.5 (z/h) = 3.375$$
$$R_{\mu MIN} = 1.0$$
$$R_{\mu MAX} = 1.3$$
$$[H_f/R_{\mu}]_{MAX} = 2.60$$
$$[H_f/R_{\mu}]_{MIN} = 1.00$$

ASCE 7-22 (13.3-1)

ASCE 7-22 (13.3-2)

ASCE 7-22 (13.3-3)

ASCE 7-22 (12.4-4a)

AT OR BELOW GRADE PLANE

ABOVE GRADE $z/h = 0.95$

AT OR BELOW GRADE PLANE

ABOVE GRADE FOR UNSPECIFIED BUILDING SFRS

ABOVE GRADE $z/h = 0.95$

AT OR BELOW GRADE PLANE

SUPPORT & ATTACHMENT DESIGN IS PER 2025 CBC AT LRFD LEVEL FORCES PER TABLE 13.6-1 OF ASCE 7-22. "OTHER MECHANICAL OR ELECTRICAL COMPONENTS"

$$C_{AR} = 1.0$$
$$R_{po} = 1.5$$
$$I_p = 1.5$$
$$\Omega_o = 2.0$$
$$W_p = \text{AS NOTED ON "COMPONENT PLANS \& ELEVATIONS" PAGES}$$

W_p AS NOTED ON COMPONENT SCHEDULE ON PG 201

LOAD COMBINATIONS
(0.9 - 0.2 S_{DS}) D - $\Omega_o F_p$ (FOR MAX TENSION)
(1.2 + 0.2 S_{DS}) D + $\Omega_o F_p$ (FOR MAX COMPRESSION)

TABLE 3 (LRFD)

	S_{DS}	z/h	H_f	$C_{PM} = F_p/W_p$	$C_{VM} = F_v/W_p$
CASE 1	1.90	0.95	3.38	1.97	0.38
CASE 2	0.80	0.45	2.13	0.61	0.16
CASE 3	1.90	0.00	1.00	0.86	0.38

ABBREVIATIONS:

⊙	AT	KSI	KIPS PER SQUARE INCH
ABV	ABOVE	LBS	POUNDS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
BLDG	BUILDING	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
BLW	BELOW	MAX	MAXIMUM
BYD	BEYOND	MFR	MANUFACTURER
CBC	CALIFORNIA BUILDING CODE	MIN	MINIMUM
CG	CENTER OF GRAVITY	MTL	METAL
Ⓢ	CENTERLINE	NO. (#)	NUMBER OR POUNDS
CONC	CONCRETE	NWC	NORMAL WEIGHT CONCRETE
CONN	CONNECTION	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
COORD	COORDINATE		POUNDS PER SQUARE INCH
DBL	DOUBLE	PSI	STRUCTURAL ENGINEER OF RECORD
DIA (⌀)	DIAMETER	SEOR	SAND-LIGHTWEIGHT CONCRETE
(E)	EXISTING CONDITION	SLWC	STAINLESS STEEL
EA	EACH	SS	STANDARD
ELEV	ELEVATION	STD	STEEL
ES	EACH SIDE	STL	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE AT LRFD
EQUIP	EQUIPMENT	Tu	THREAD OR THREADED
f'c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE	THRD	TYPICAL
FLR	FLOOR	TYP	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE AT LRFD
FT (')	FOOT/FEET	Vu	WITH
Fy	SPECIFIED MINIMUM YIELD STRESS OF STEEL	W/	OPERATING WEIGHT
GA	GAUGE	Wp	WEIGHT
IN (")	INCH	WT	

FRACTION & UNIT CONVERSIONS (PROVIDED FOR REFERENCE ONLY)

FRACTION	DECIMAL	mm	FRACTION	DECIMAL	mm	FRACTION	DECIMAL	mm
1/32	0.03	0.8	3/8	0.38	9.5	23/32	0.72	18.3
1/16	0.06	1.6	13/32	0.41	10.3	3/4	0.75	19.1
3/32	0.09	2.4	7/16	0.44	11.1	25/32	0.78	19.8
1/8	0.13	3.2	15/32	0.47	11.9	13/16	0.81	20.6
5/32	0.16	4.0	1/2	0.50	12.7	27/32	0.84	21.4
3/16	0.19	4.8	17/32	0.53	13.5	7/8	0.88	22.2
7/32	0.22	5.6	9/16	0.56	14.3	29/32	0.91	23.0
1/4	0.25	6.4	19/32	0.59	15.1	15/16	0.94	23.8
9/32	0.28	7.1	5/8	0.63	15.9	31/32	0.97	24.6
5/16	0.31	7.9	21/32	0.66	16.7			
11/32	0.34	8.7	11/16	0.69	17.5			



NOT SEOR

SHEET TITLE: DESIGN CRITERIA & ABBREVIATIONS				Rev	Description	Date	Job No: 26015
ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 103

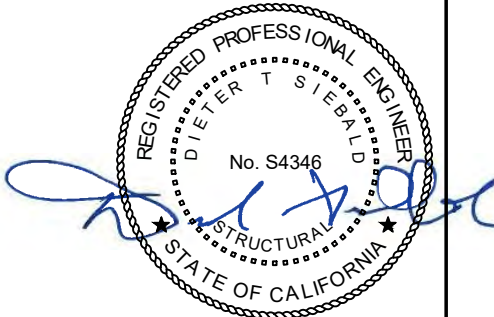
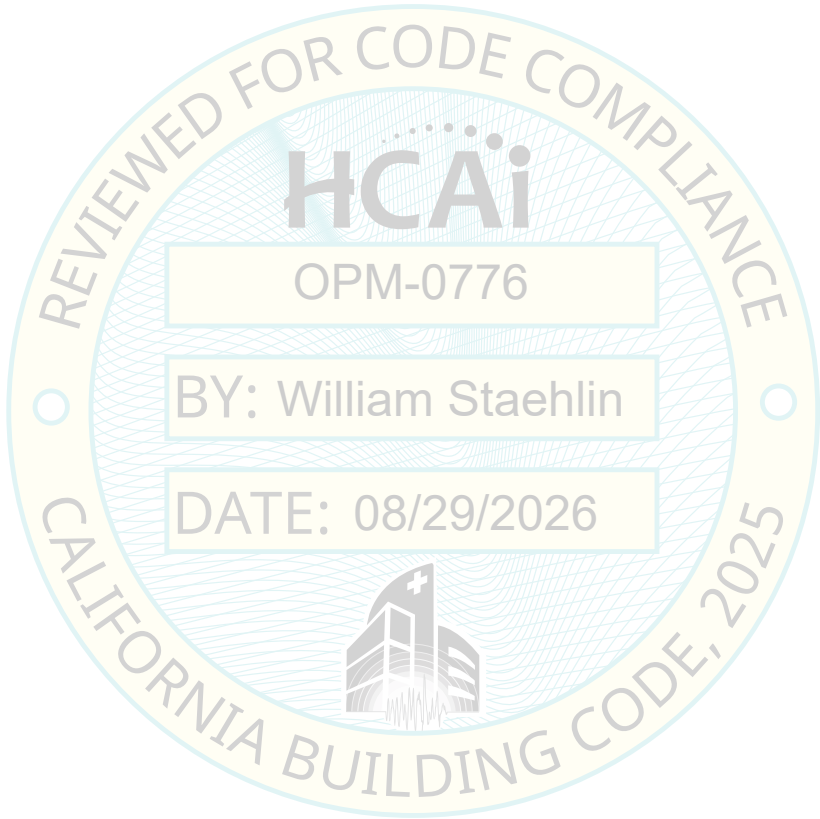
CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
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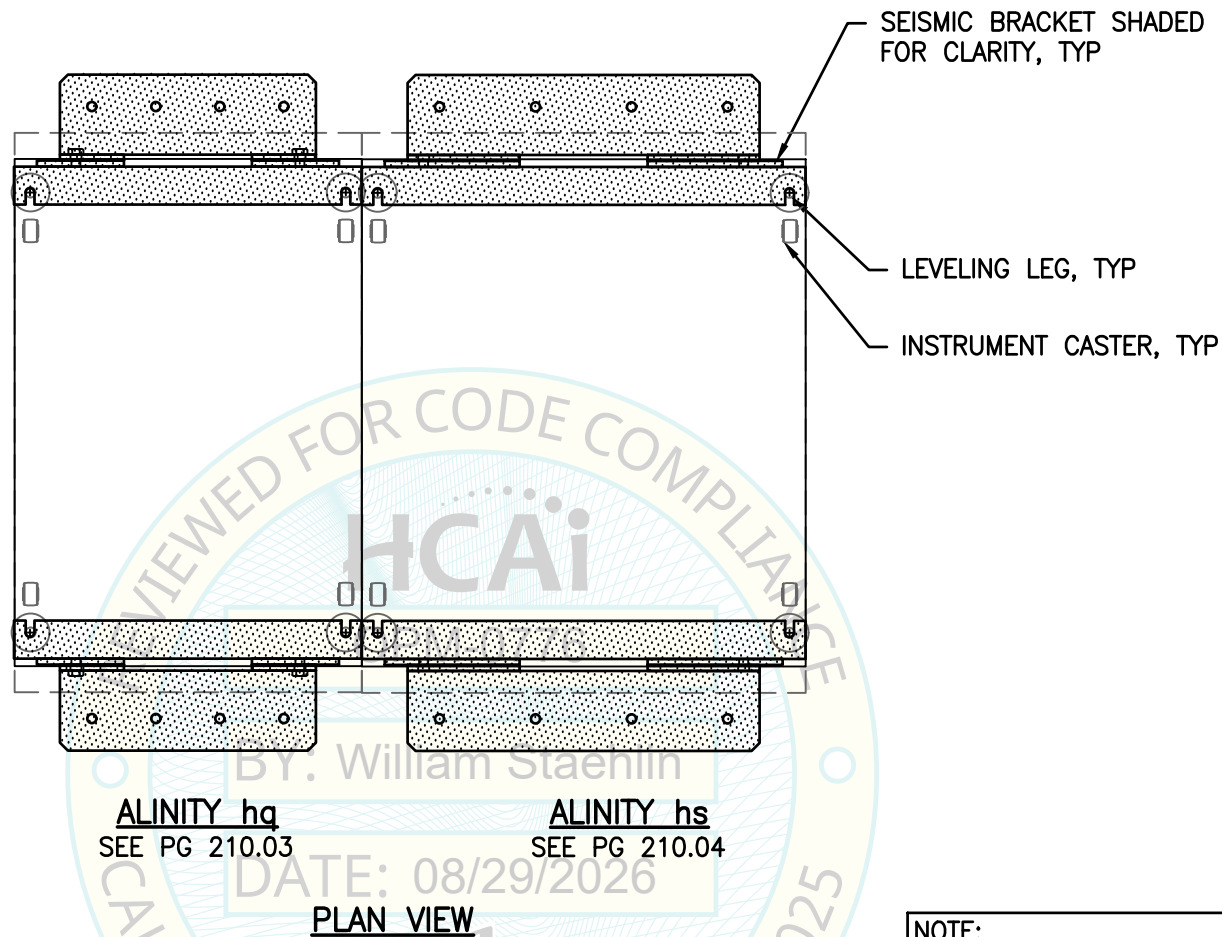
FLOOR SUPPORTED MODULES	PAGE NO.	COMPONENT	CG LOCATION W/O TRACK ⁽¹⁾			WEIGHT W _p (LBS)
			$\bar{x}_1$ (IN)	$\bar{y}_1$ (IN)	$\bar{z}_1$ (IN)	
	210.01	ALINITY c MODULE	19.84"	25.71"	23.23"	1569#
	210.02	ALINITY i MODULE	20.01"	18.26"	22.22"	1374#
	210.03	ALINITY hq MODULE	10.14"	14.19"	26.82"	672#
	210.04	ALINITY hs MODULE	12.59"	15.06"	26.89"	816#



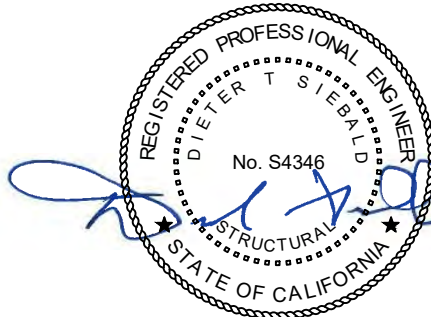
SHEET TITLE: COMPONENT SCHEDULE

	ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS		CYS STRUCTURAL ENGINEERS, INC.		Rev	Description	Date	Job No: 26015
			2710 GATEWAY OAKS DRIVE, SUITE 190N					Date: 08/072026
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NOTE:
COMBINATION & NUMBER OF hs & hq INSTRUMENTS IS DEPENDENT UPON THE NEEDS OF THE HOSPITAL FACILITY & NOT A FUNCTION OF SEISMIC RETENTION. EA INSTRUMENT HAS ITS OWN SEISMIC BRACKETS FOR SEISMIC RETENTION. THIS GRAPHIC DEPICTS A GENERAL UNDERSTANDING OF THE SEISMIC RESTRAINTS.

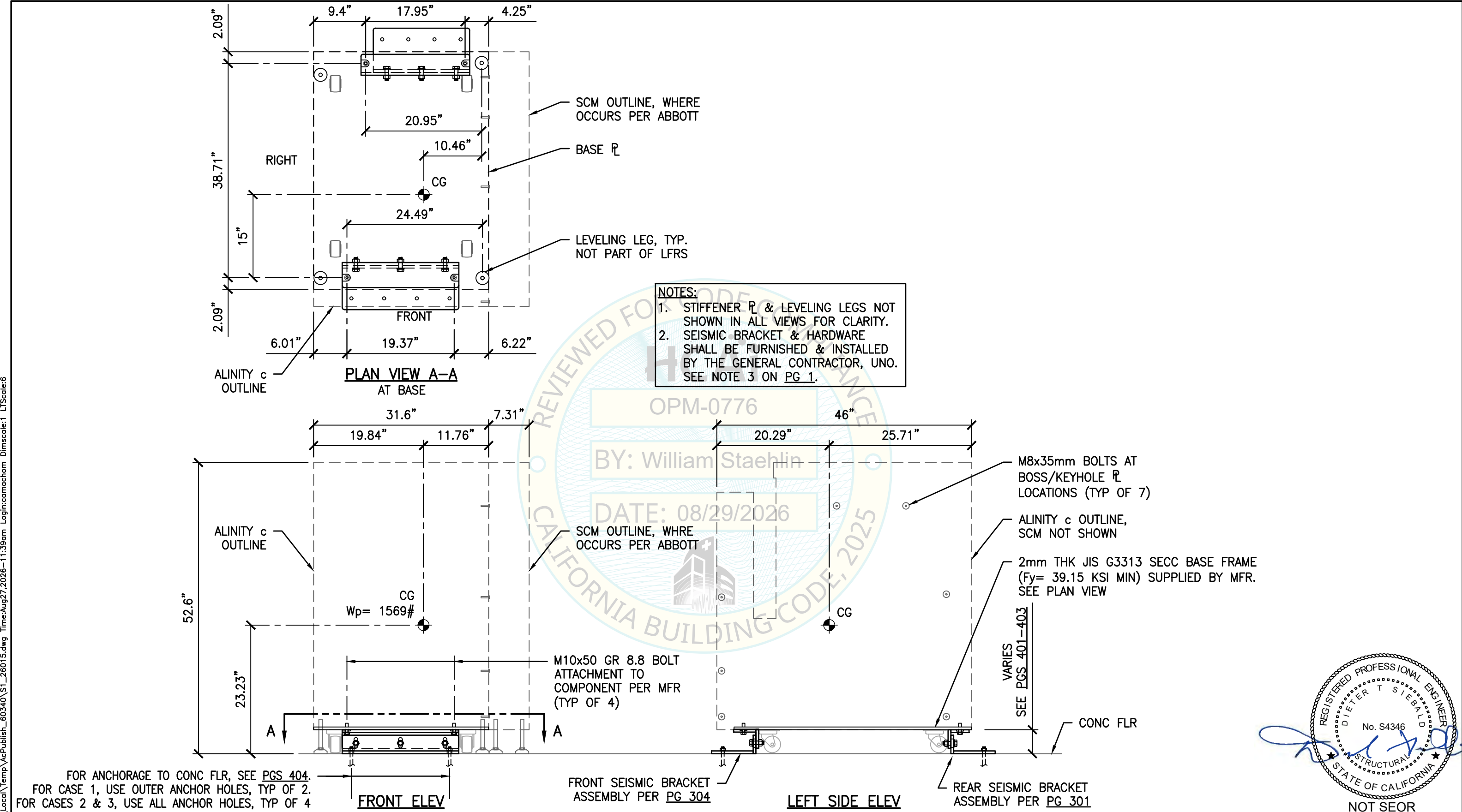


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SHEET TITLE: COMPONENT CONFIGURATIONS

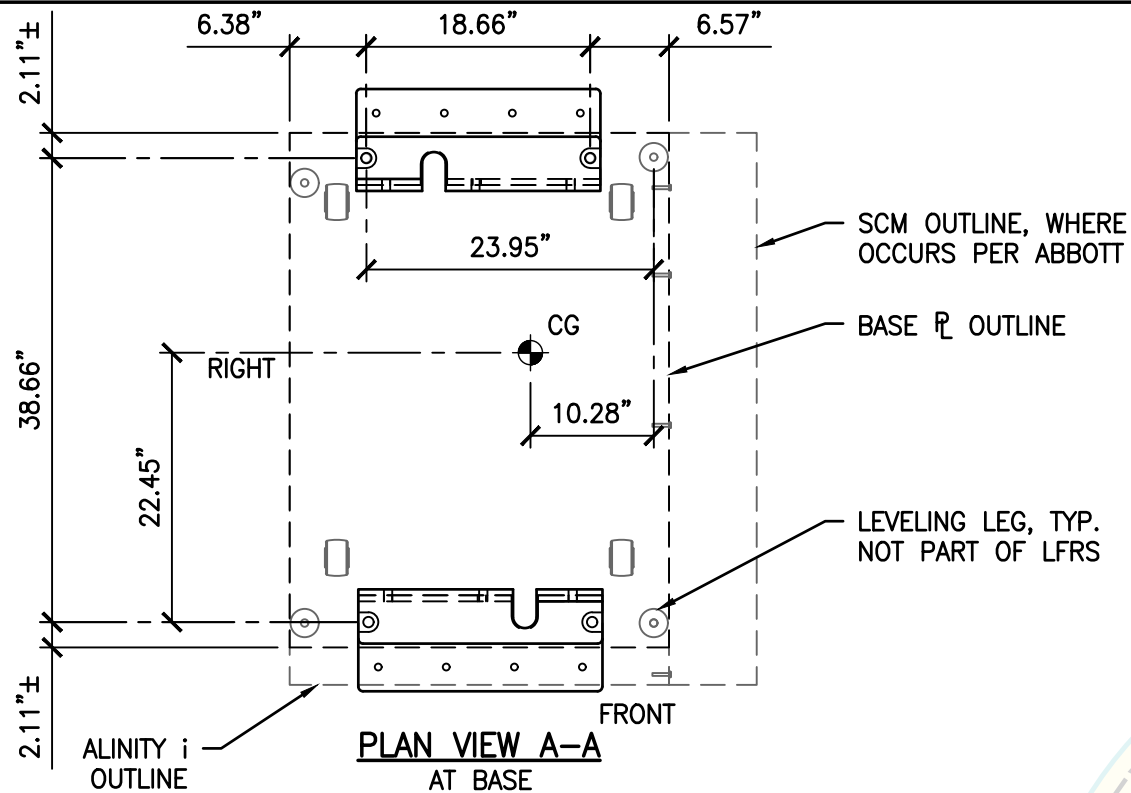
	ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS		CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833	TEL (916) 920-2020 www.cyseng.com	Rev	Description	Date	Job No:	26015
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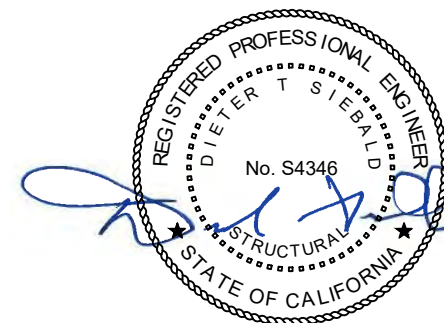
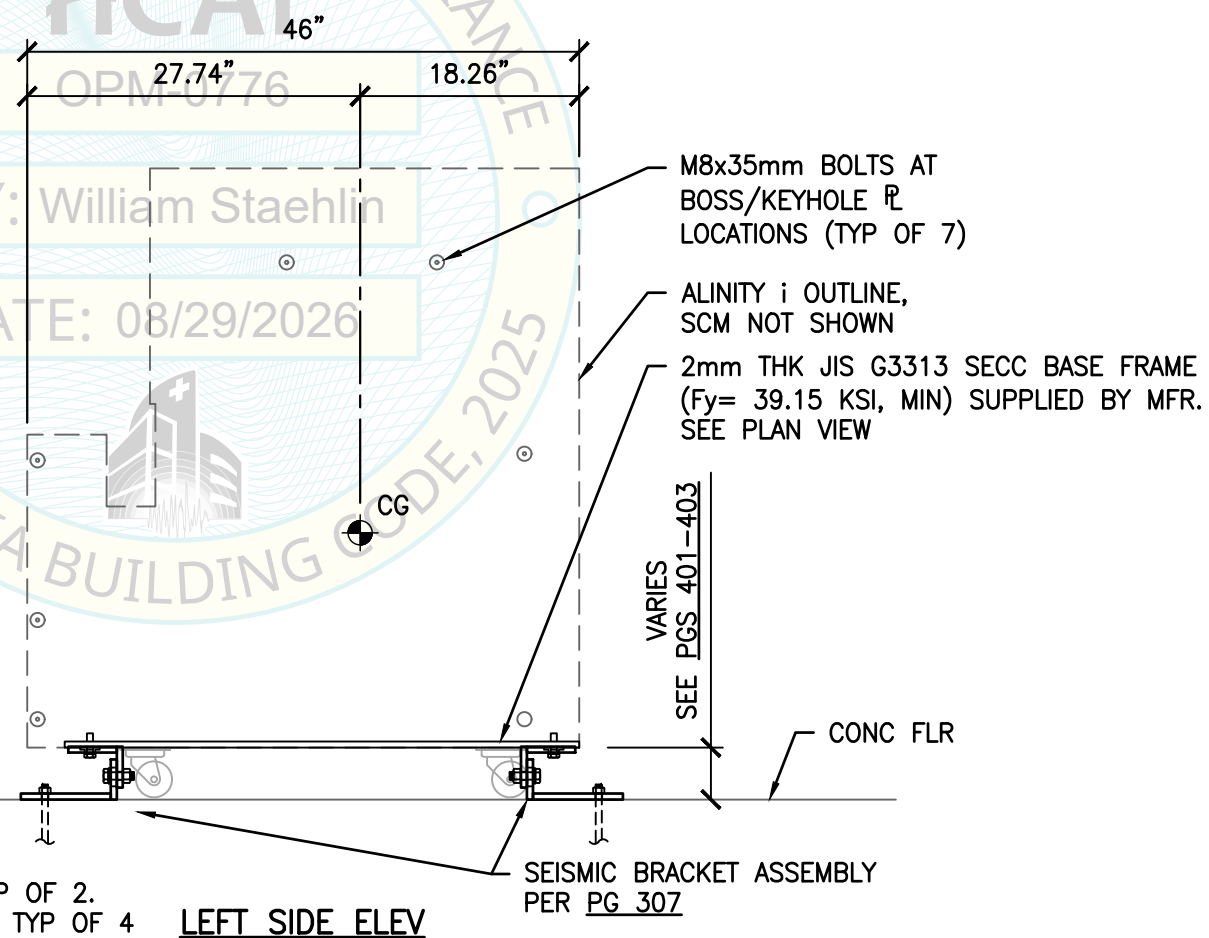
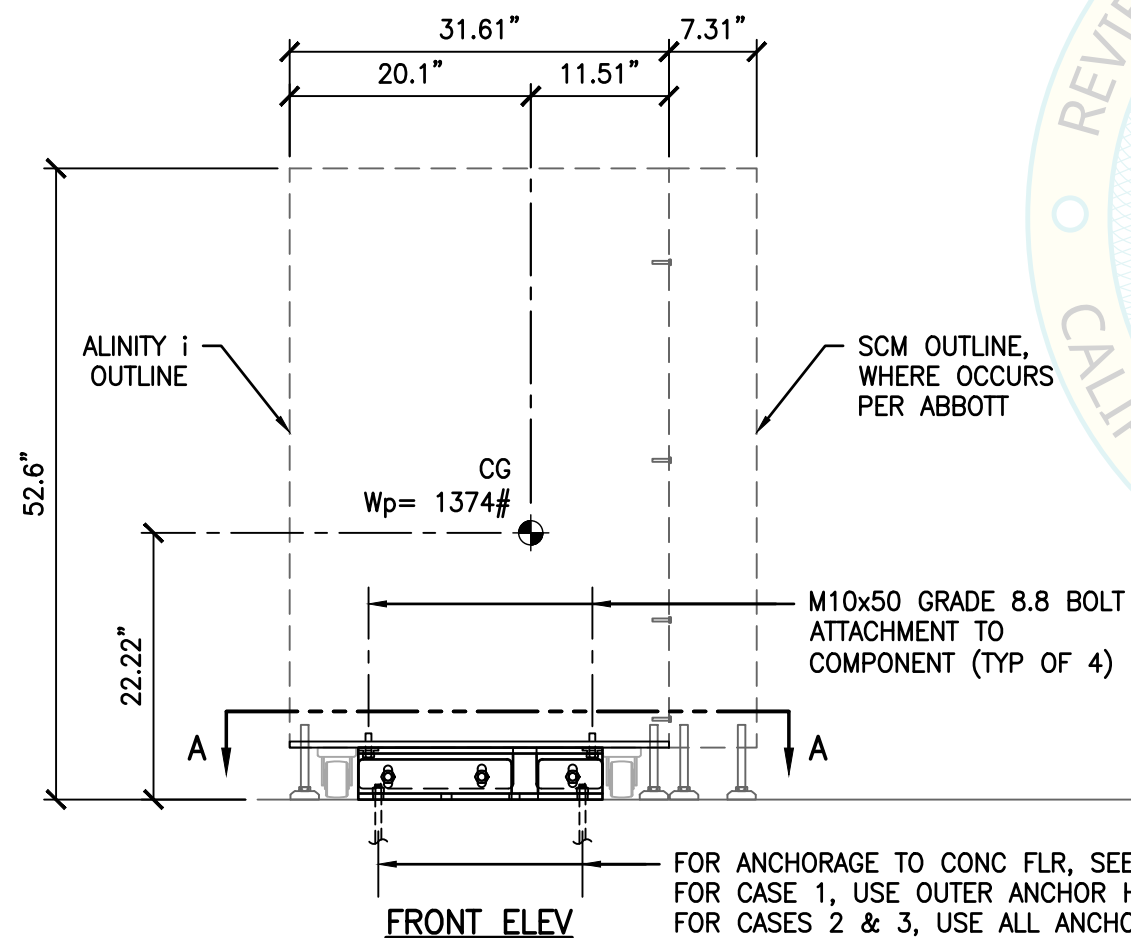


SHEET TITLE: FLOOR SUPPORTED MODULE: ALINITY c MODULE
BASE PLAN & ELEVATIONS

	ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS		CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com	Rev	Description	Date	Job No: 26015
							Date: 08/072026
							By: CYS
							Page: 210.01



- NOTES:**
1. STIFFENER $\square$ & LEVELING LEGS NOT SHOWN IN ALL VIEWS FOR CLARITY.
 2. SEISMIC BRACKET & HARDWARE SHALL BE FURNISHED & INSTALLED BY THE GENERAL CONTRACTOR, UNO.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: ALINITY i MODULE
BASE PLAN & ELEVATIONS

ABBOTT

ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS

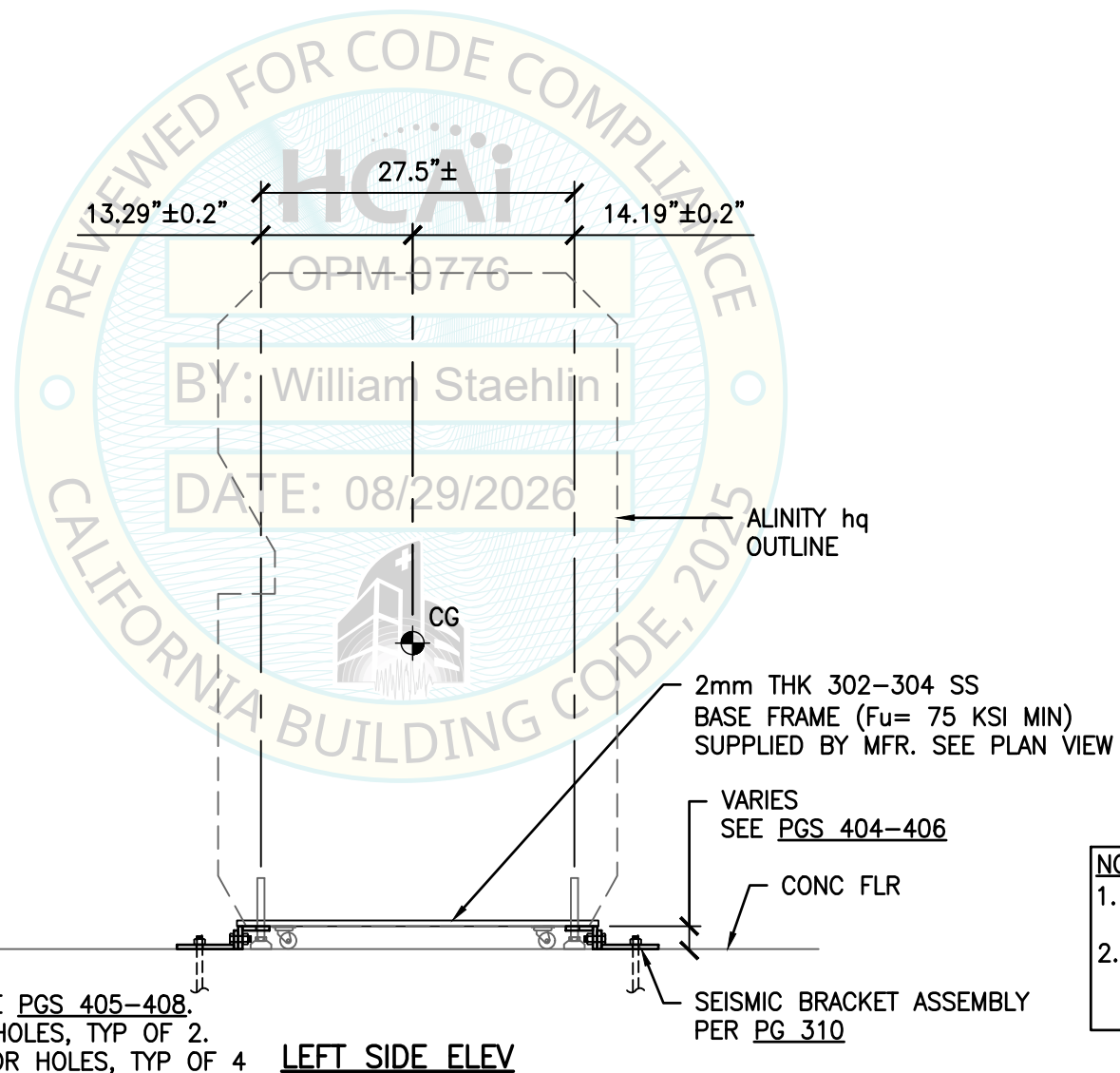
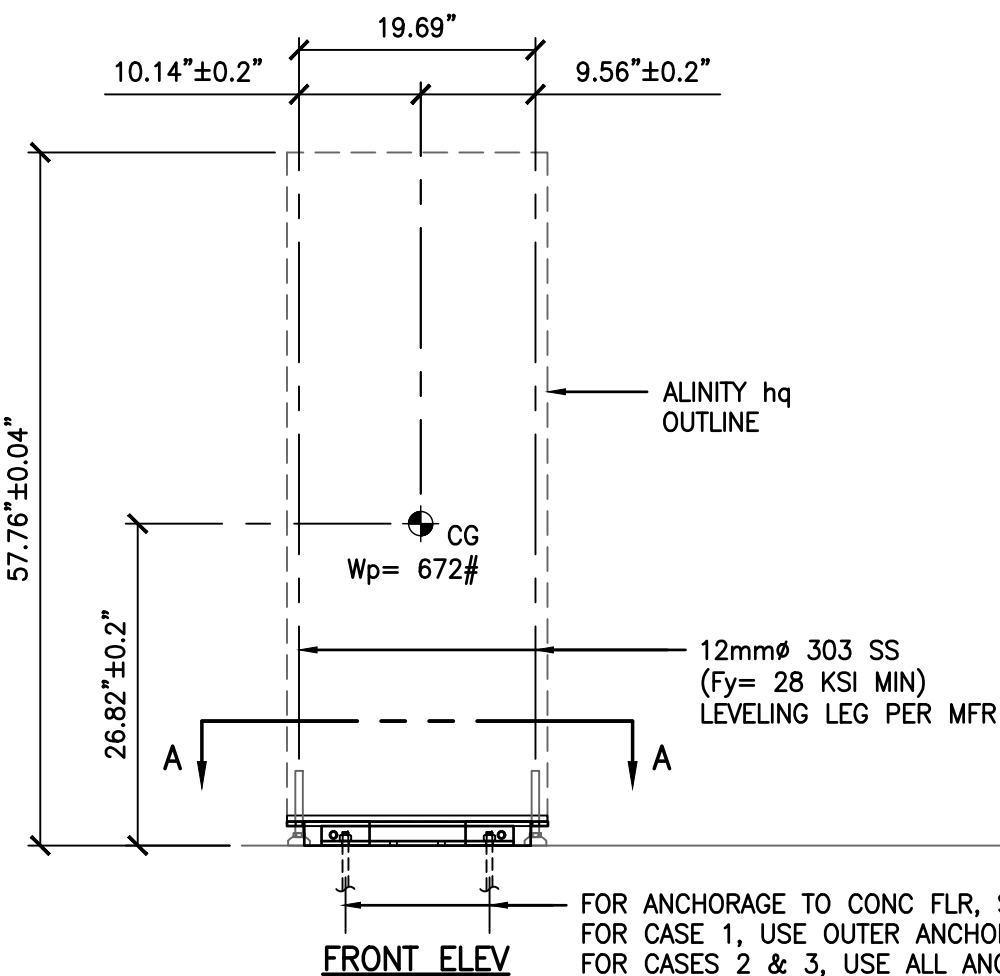
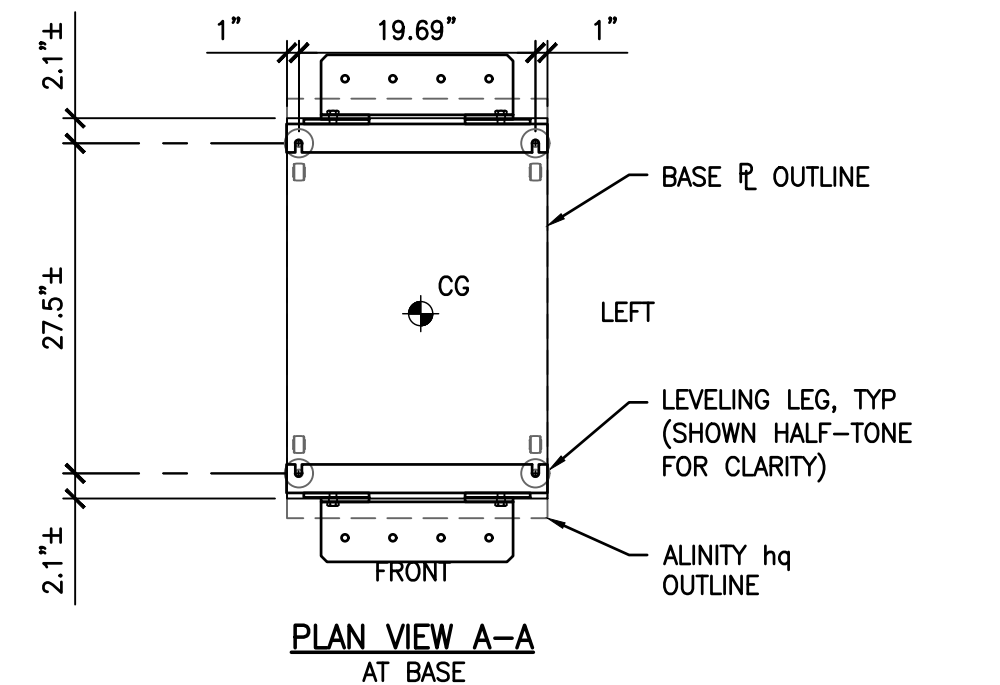
CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

TEL (916) 920-2020
www.cyseng.com

Rev	Description	Date	Job No:
			26015
			Date: 08/072026
			By: CYS
			Page: 210.02

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- NOTES:
1. STIFFENER & LEVELING LEGS NOT SHOWN IN ALL VIEWS FOR CLARITY.
 2. SEISMIC BRACKET & HARDWARE SHALL BE FURNISHED & INSTALLED BY THE GENERAL CONTRACTOR, UNO.



SHEET TITLE: FLOOR SUPPORTED MODULE: ALINITY hq MODULE
BASE PLAN & ELEVATIONS



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



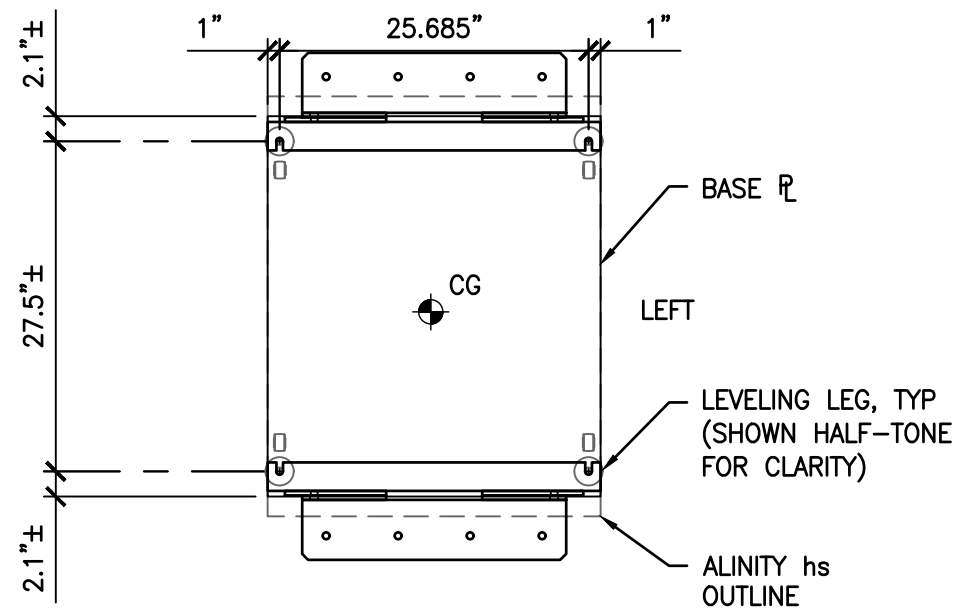
CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

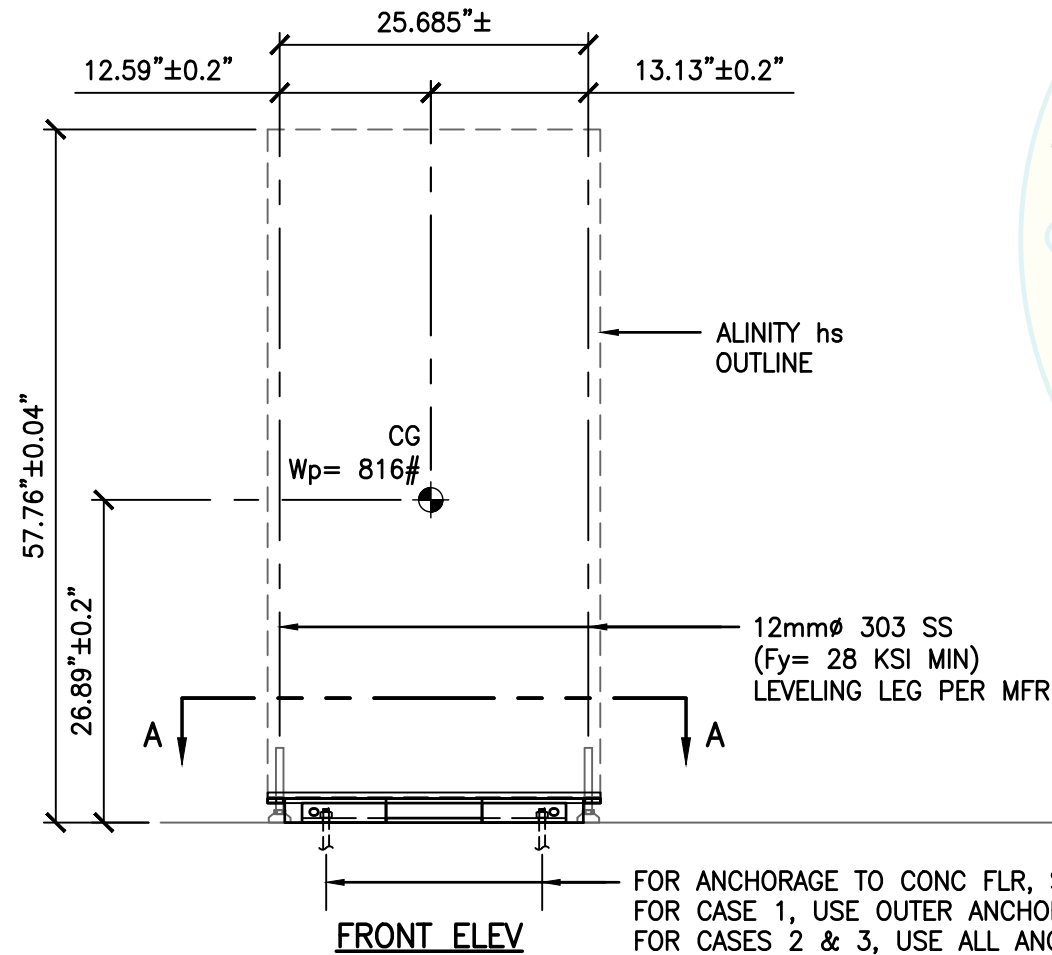
TEL (916) 920-2020
www.cyseng.com

Rev	Description	Date	Job No:
			26015
			Date: 08/072026
			By: CYS
			Page: 210.03

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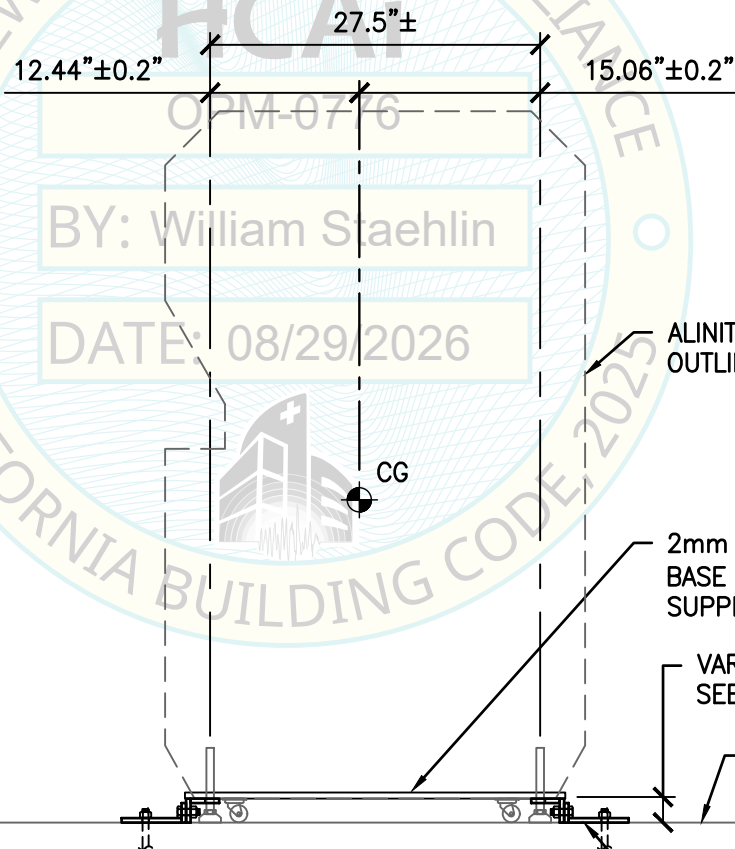


FRONT
PLAN VIEW A-A
AT BASE



FRONT ELEV

FOR ANCHORAGE TO CONC FLR, SEE PG 404.
FOR CASE 1, USE OUTER ANCHOR HOLES, TYP OF 2.
FOR CASES 2 & 3, USE ALL ANCHOR HOLES, TYP OF 4



LEFT SIDE ELEV

- NOTES:
1. STIFFENER PL & LEVELING LEGS NOT SHOWN IN ALL VIEWS FOR CLARITY.
 2. SEISMIC BRACKET & HARDWARE SHALL BE FURNISHED & INSTALLED BY THE GENERAL CONTRACTOR, UNO.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: ALINITY hs MODULE
BASE PLAN & ELEVATIONS



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



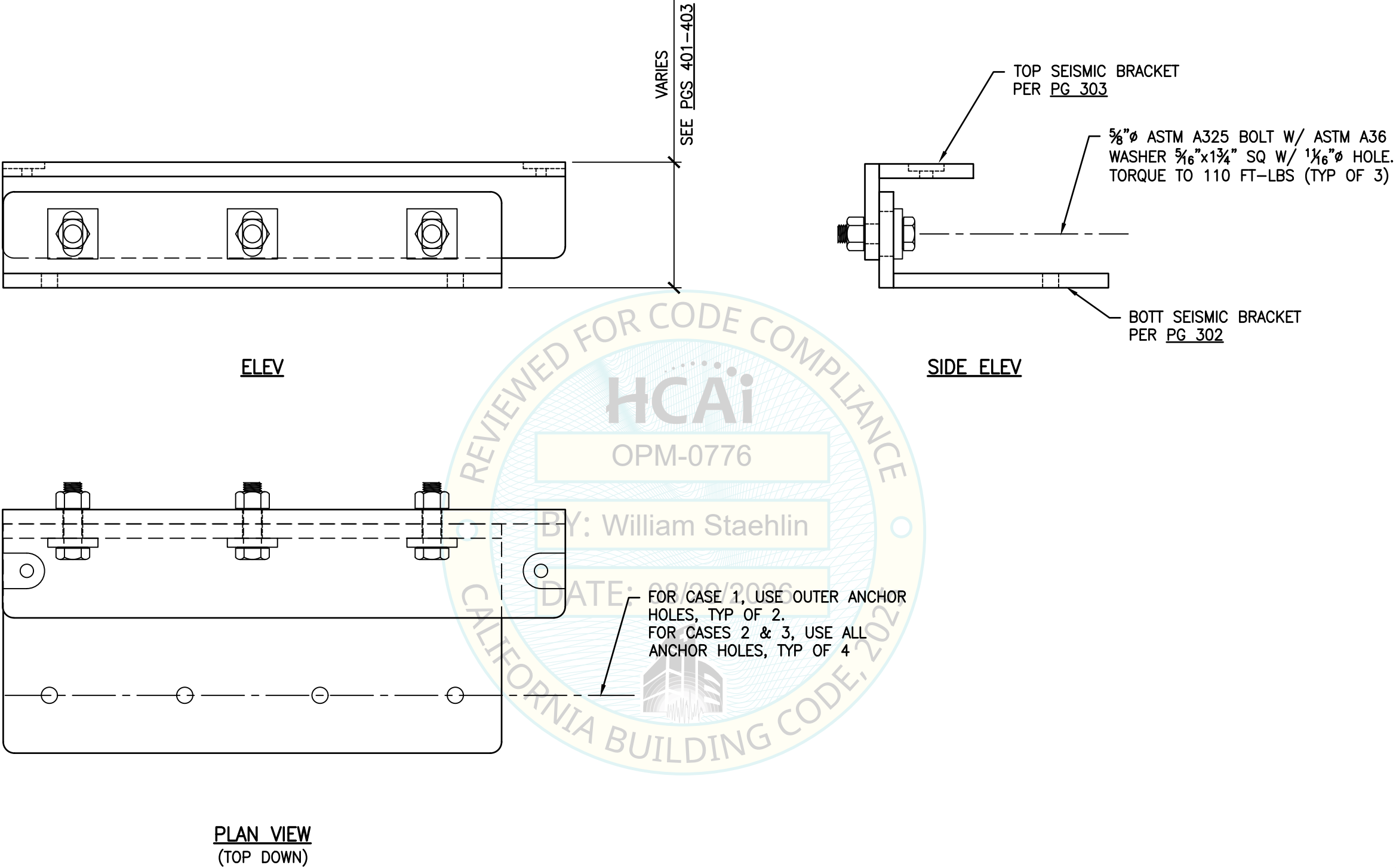
CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

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Rev	Description	Date	Job No:	26015
			Date:	08/072026
			By:	CYS
			Page:	210.04

REAR BRACKET ASSEMBLY:



SHEET TITLE: ALINITY c MODULE REAR SEISMIC BRACKET ASSEMBLY DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 301

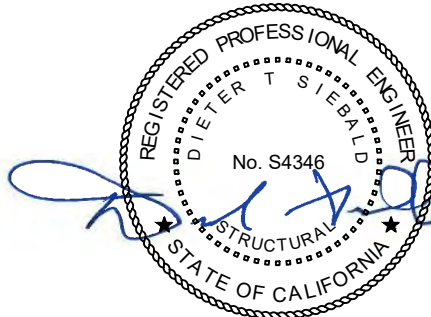
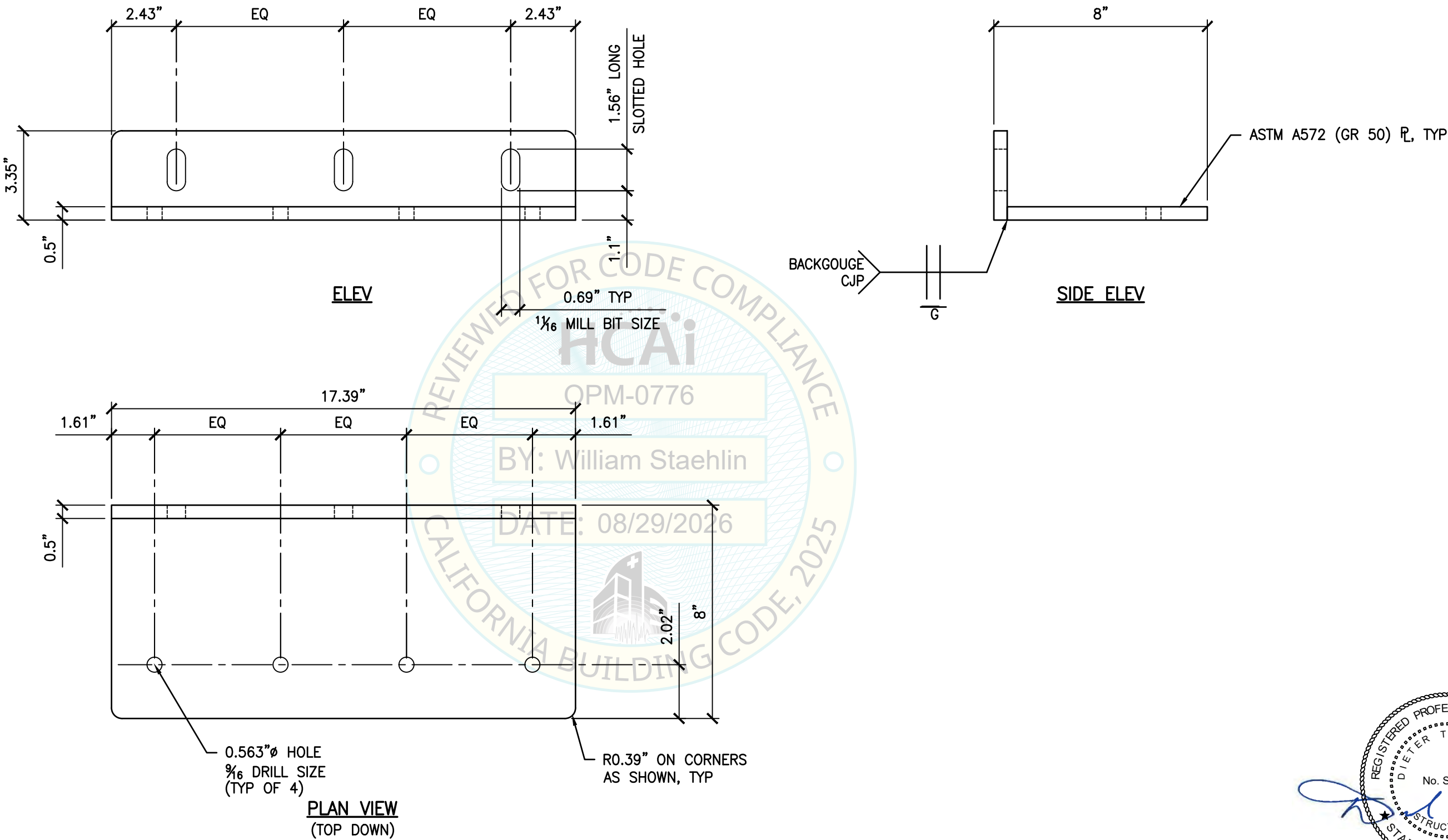


ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



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2710 GATEWAY OAKS DRIVE, SUITE 190N
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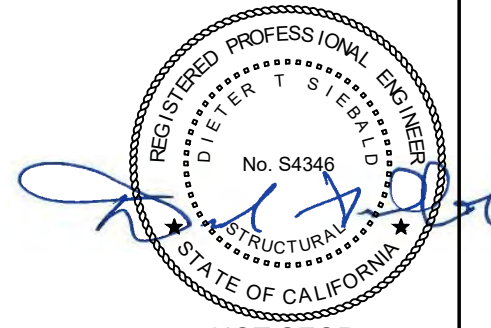
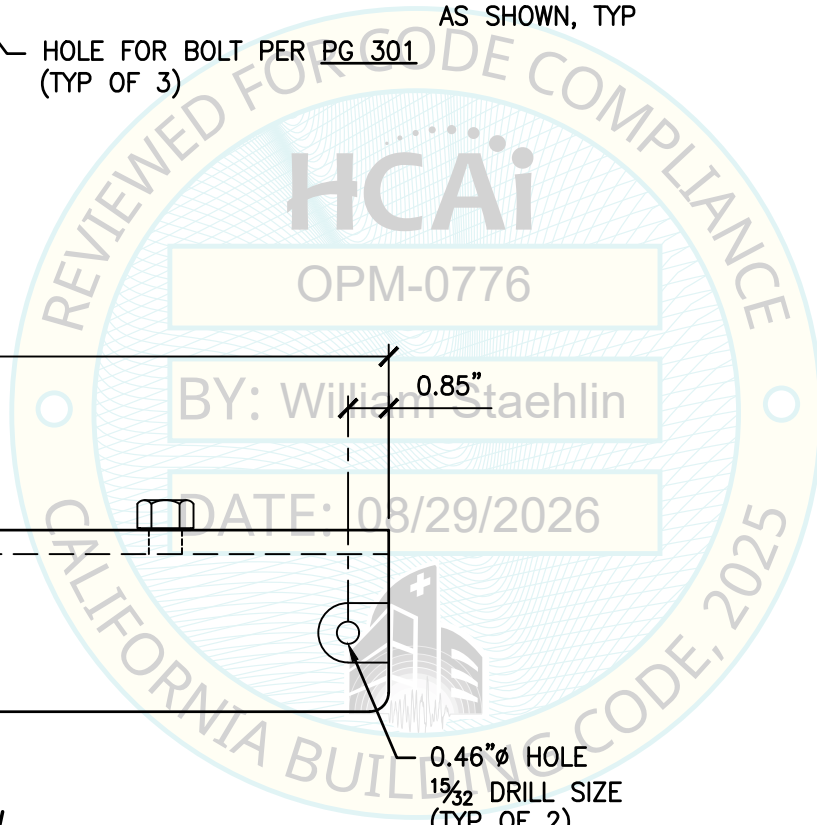
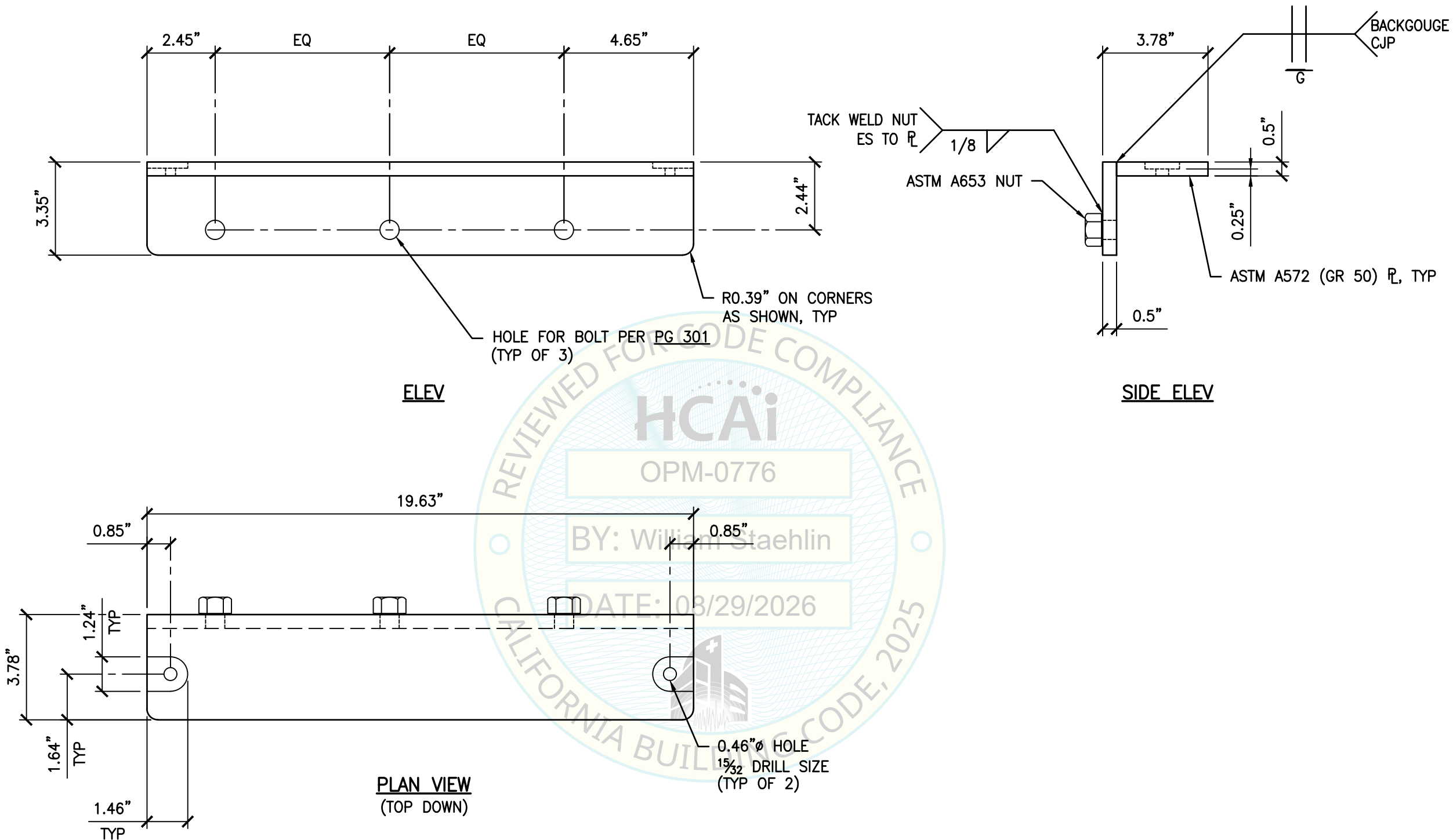
BOTTOM BRACKET DETAIL:



NOT SEOR

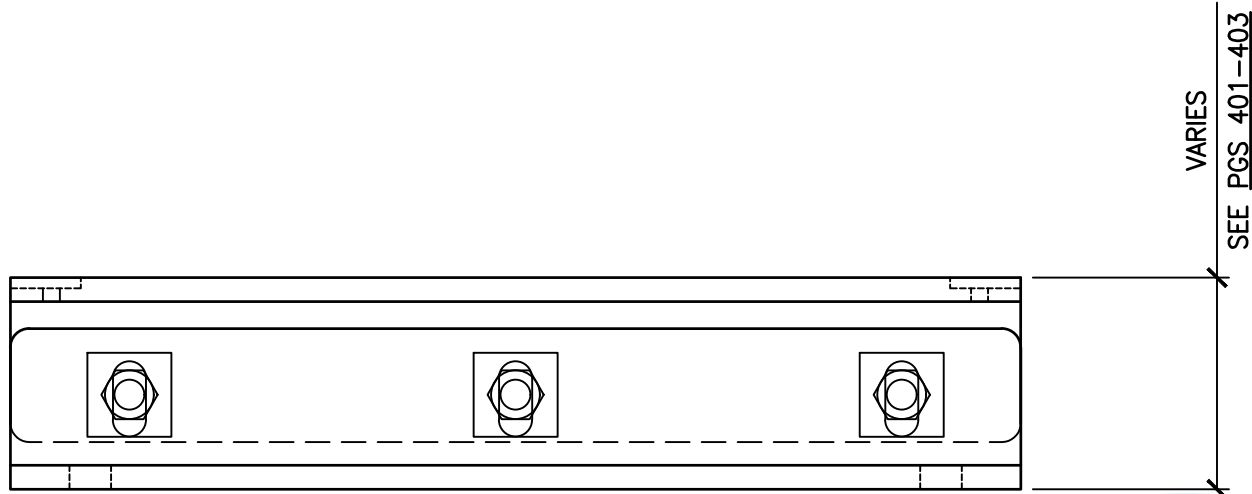
SHEET TITLE: ALINITY c MODULE				Rev	Description	Date	Job No: 26015
REAR BOTTOM SEISMIC BRACKET FABRICATION DETAIL							Date: 08/072026
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS  CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com							By: CYS
							Page: 302

TOP BRACKET DETAIL:

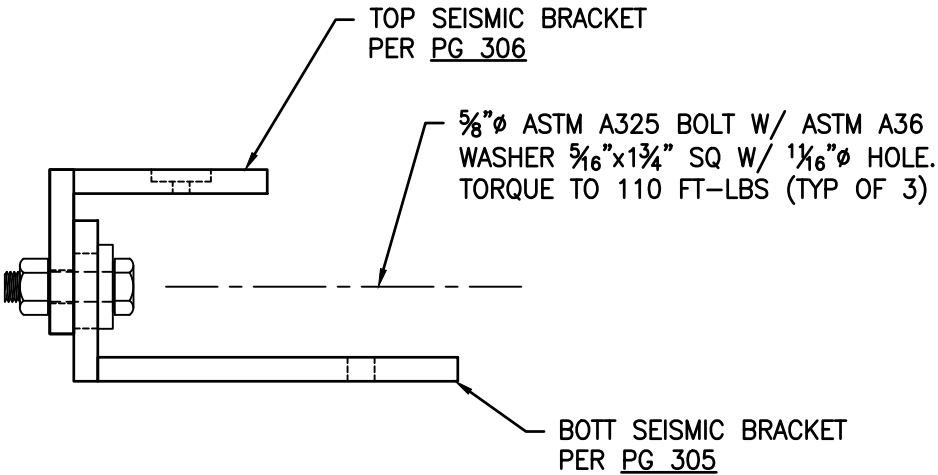


SHEET TITLE: ALINITY c MODULE REAR TOP SEISMIC BRACKET FABRICATION DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 303
 CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833				TEL (916) 920-2020 www.cyseng.com			

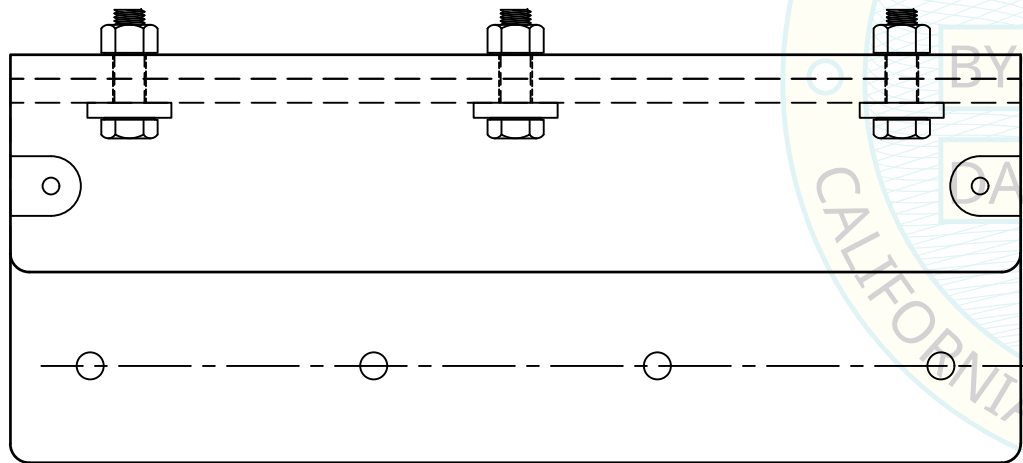
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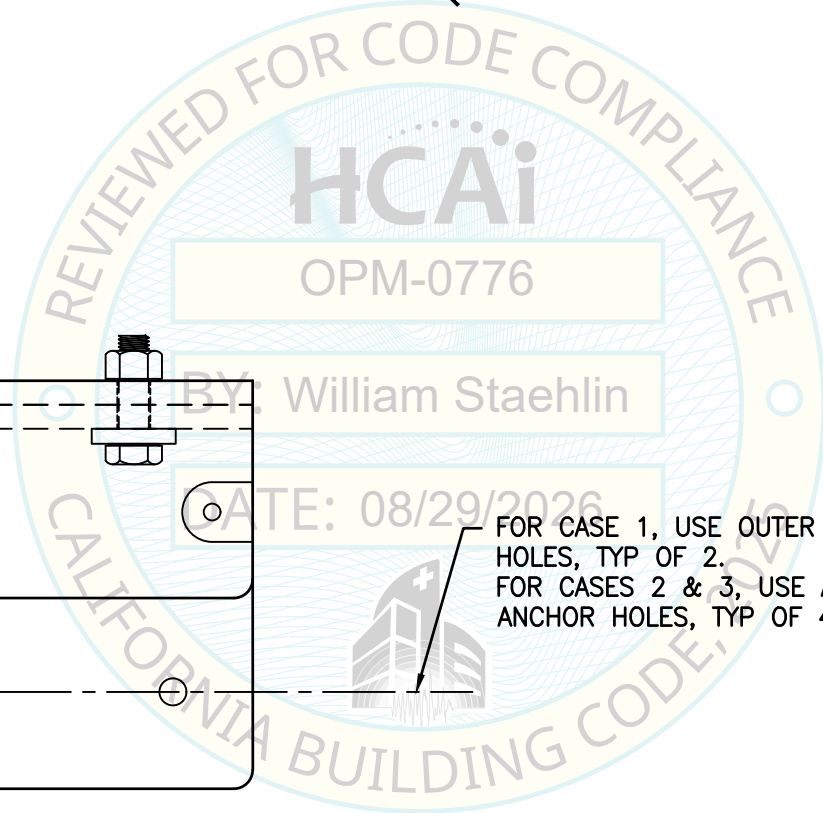
ELEV



SIDE ELEV



PLAN VIEW
(TOP DOWN)

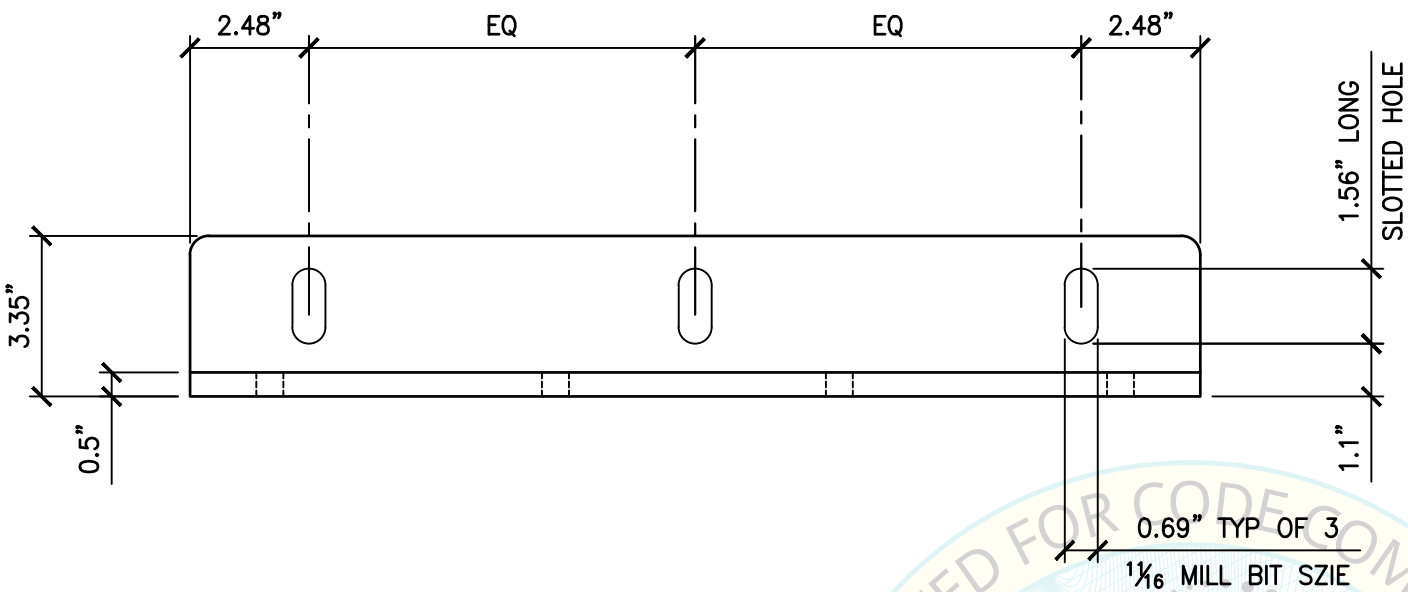


SHEET TITLE: ALINITY c MODULE FRONT SEISMIC BRACKET ASSEMBLY DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 304

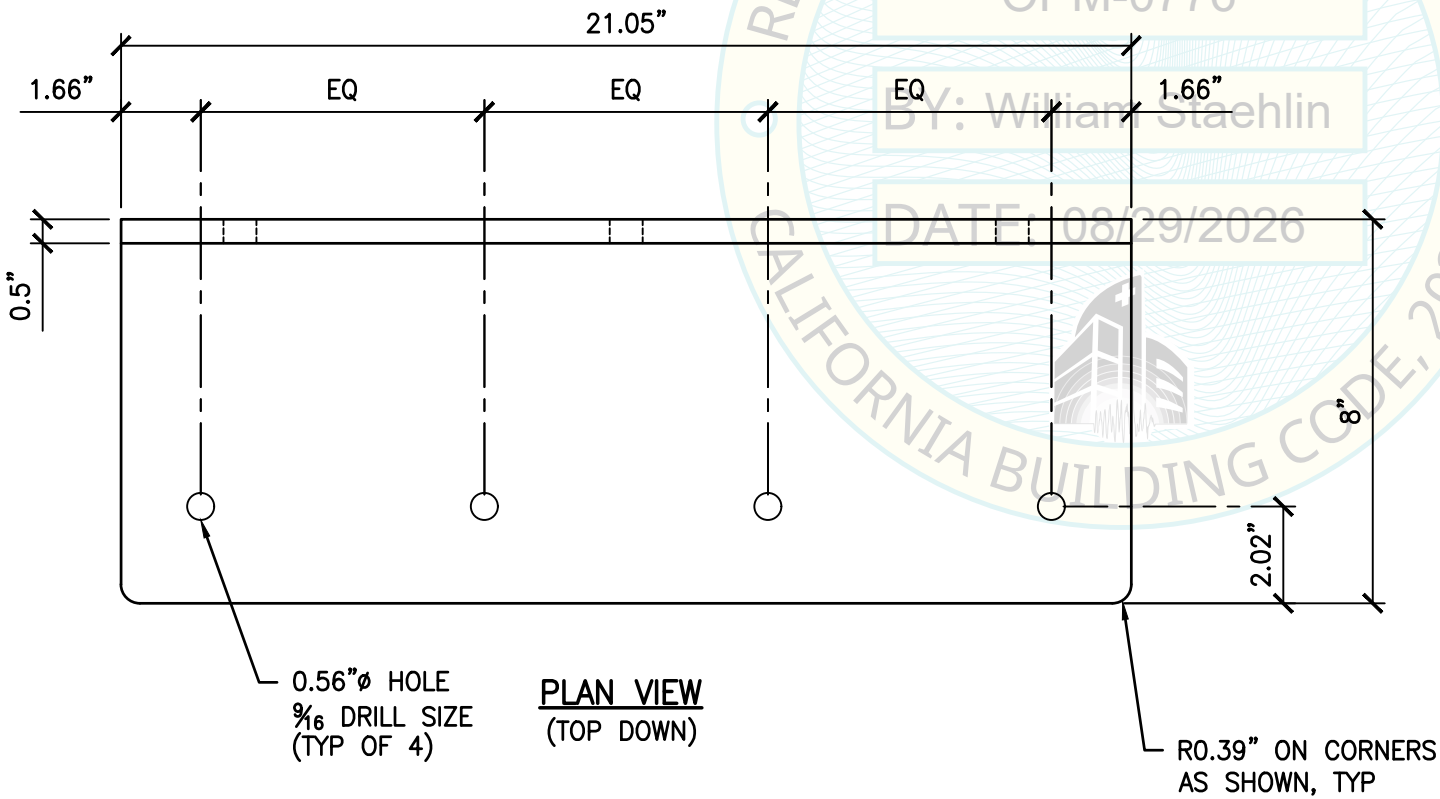
 **CYS STRUCTURAL ENGINEERS, INC.**
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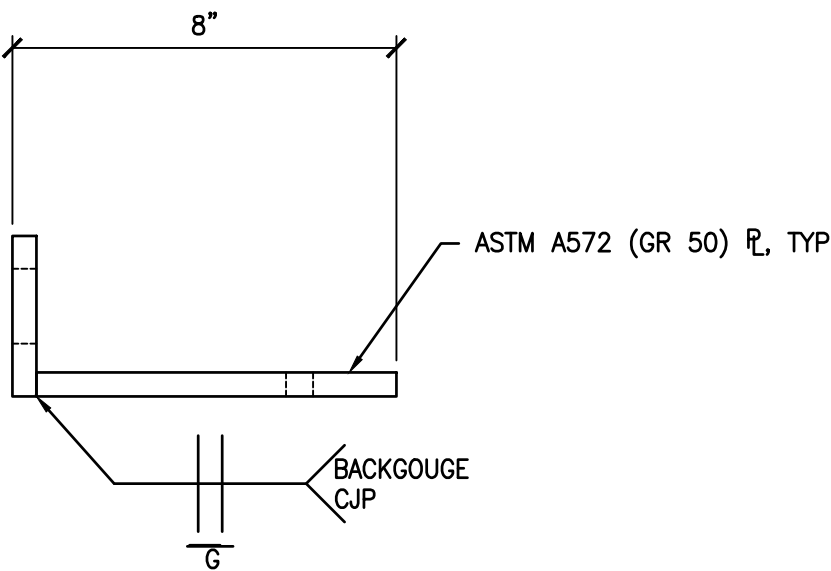
BOTTOM BRACKET DETAIL:



ELEV



PLAN VIEW
(TOP DOWN)



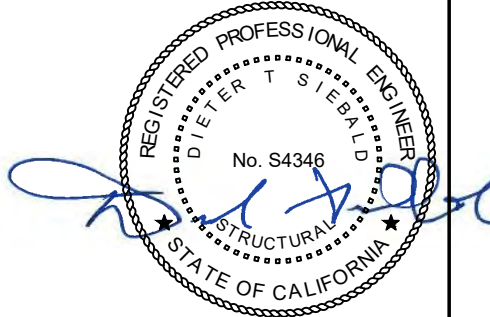
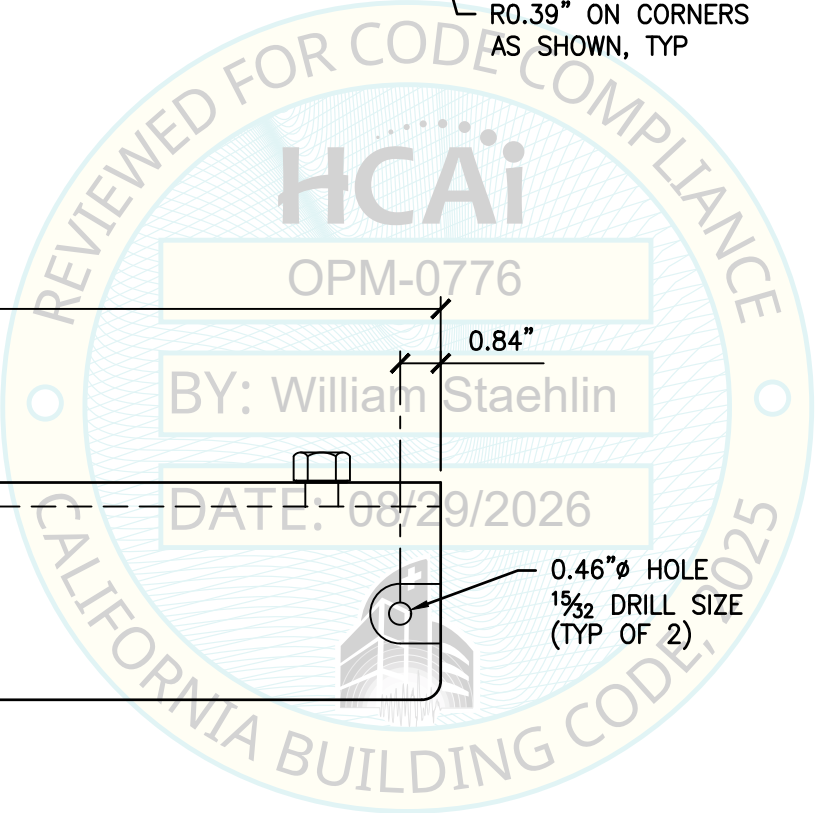
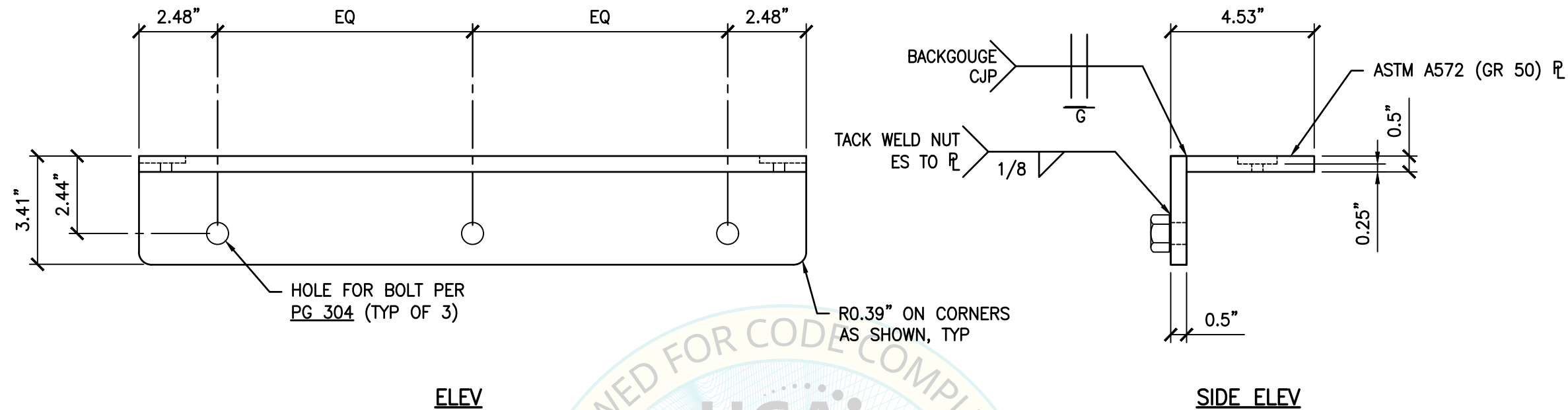
SIDE ELEV



NOT SEOR

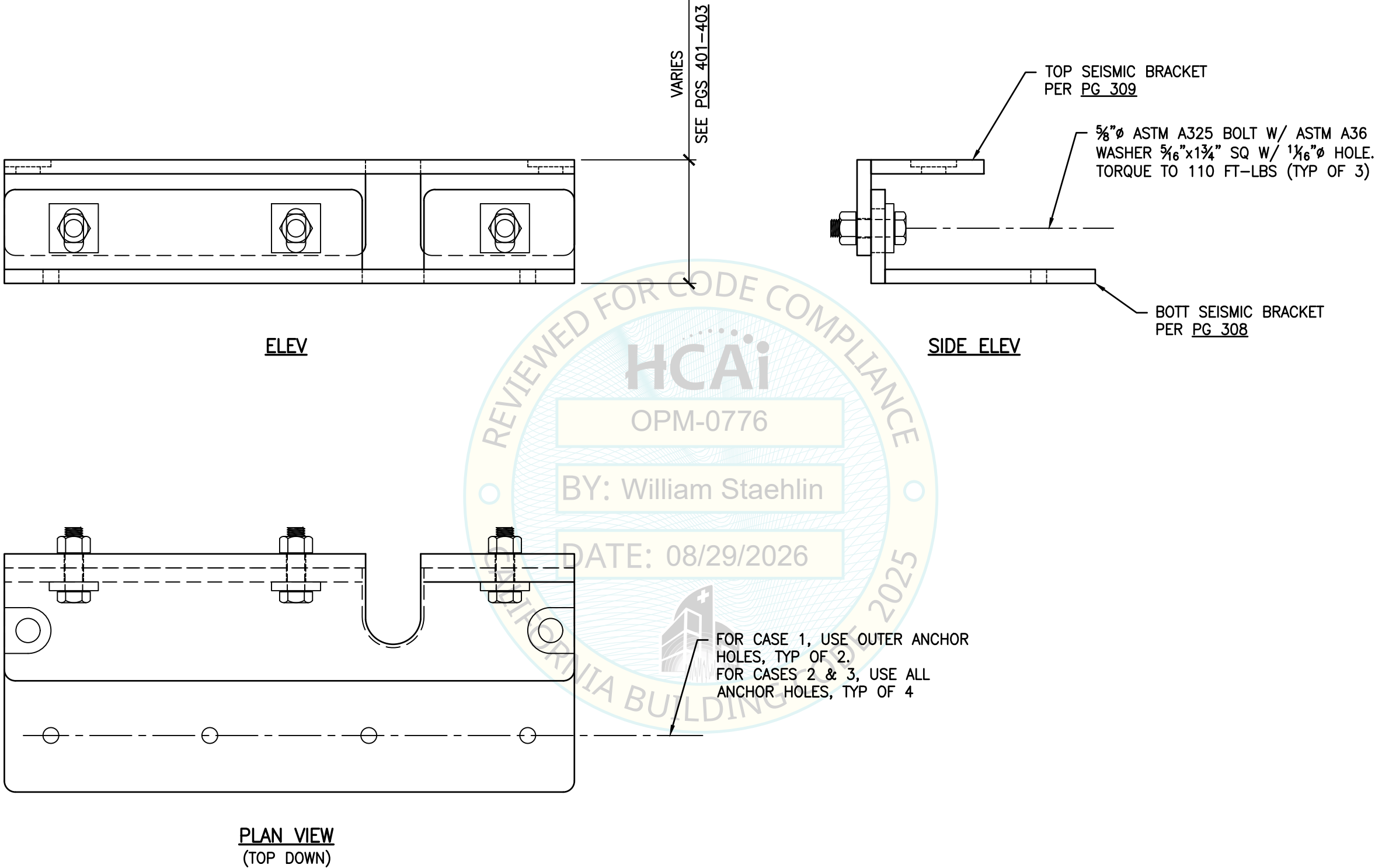
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 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS  CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com							Date: 08/072026
							By: CYS
							Page: 305

TOP BRACKET DETAIL:



SHEET TITLE: ALINITY c MODULE FRONT TOP SEISMIC BRACKET FABRICATION DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 306
 CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833				TEL (916) 920-2020 www.cyseng.com			

SEISMIC BRACKET ASSEMBLY:

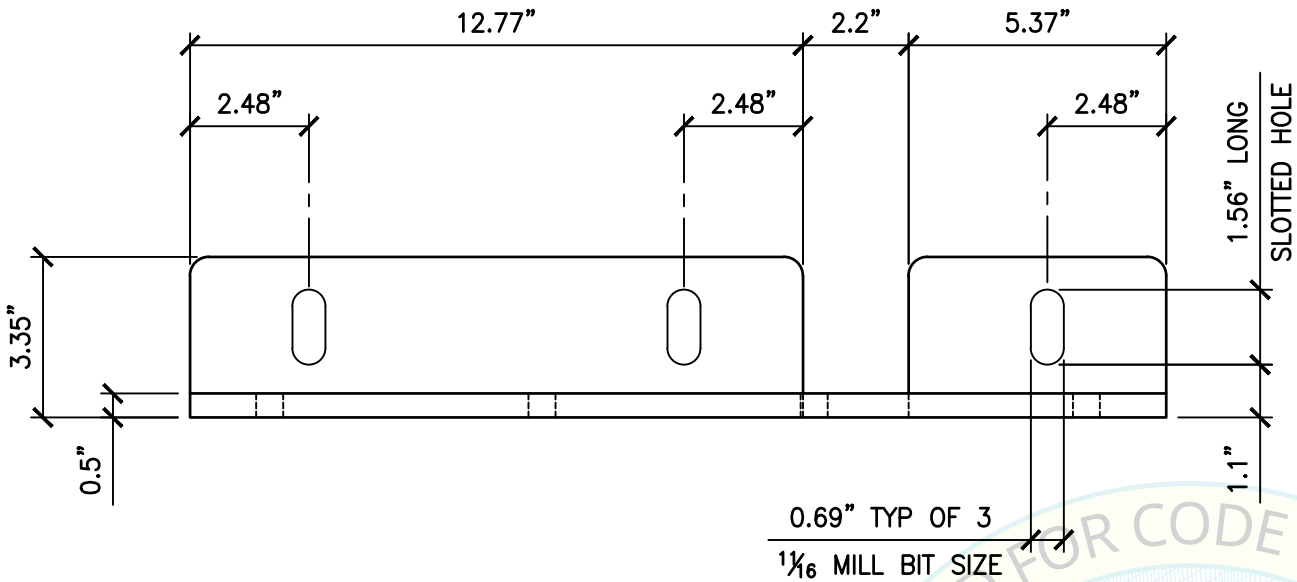


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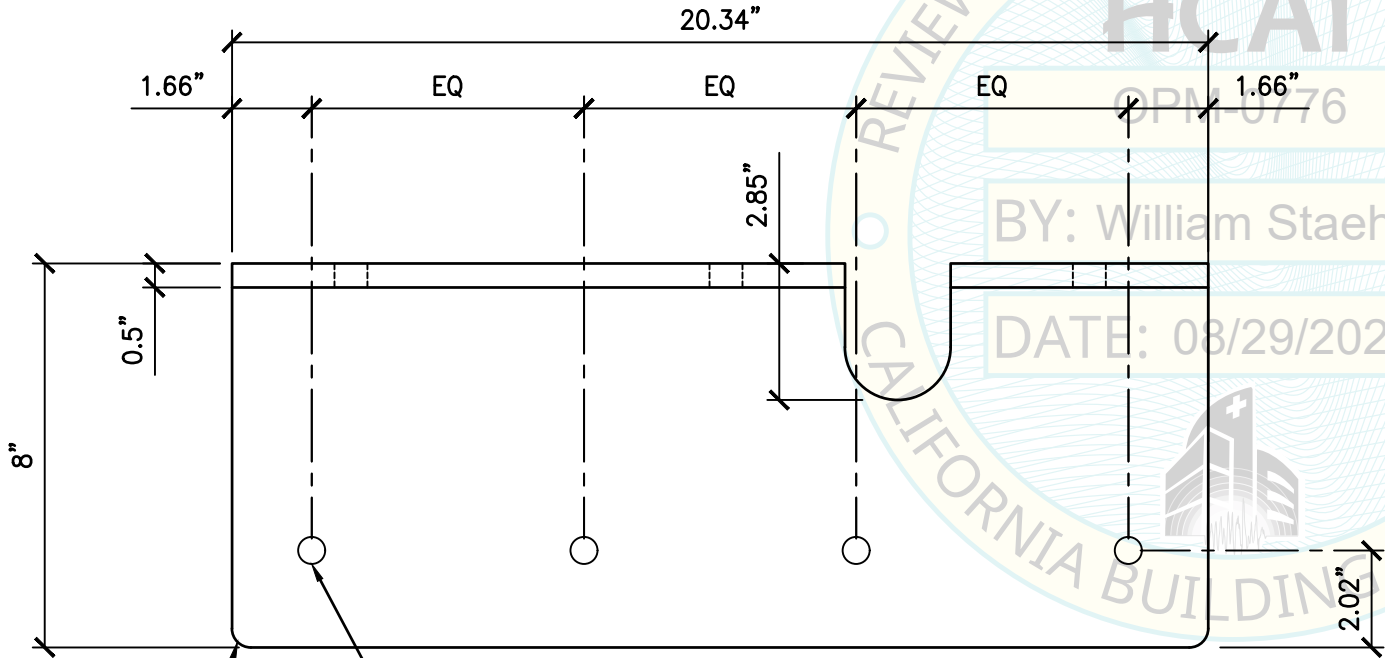
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 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
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							Page: 307

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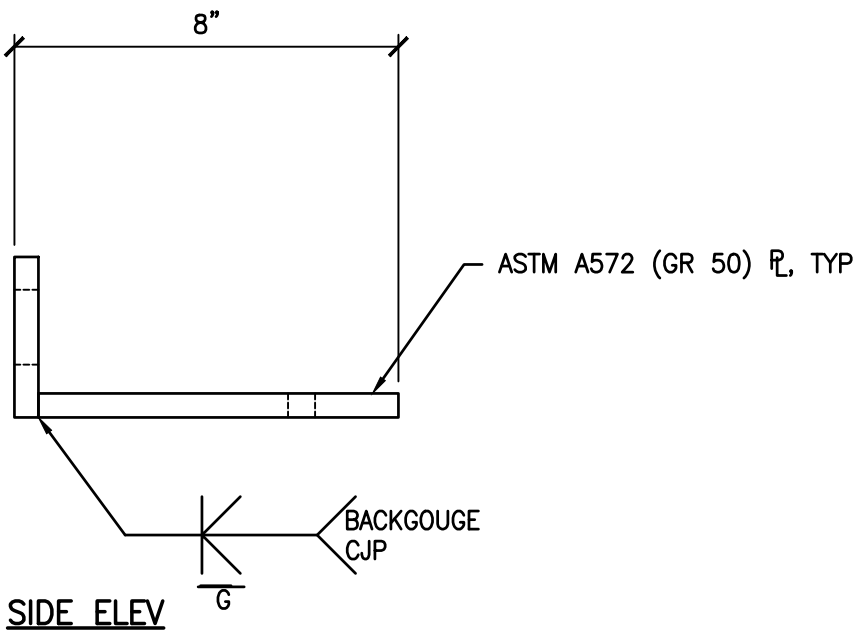
BOTTOM BRACKET DETAIL:



ELEV



PLAN VIEW
(TOP DOWN)



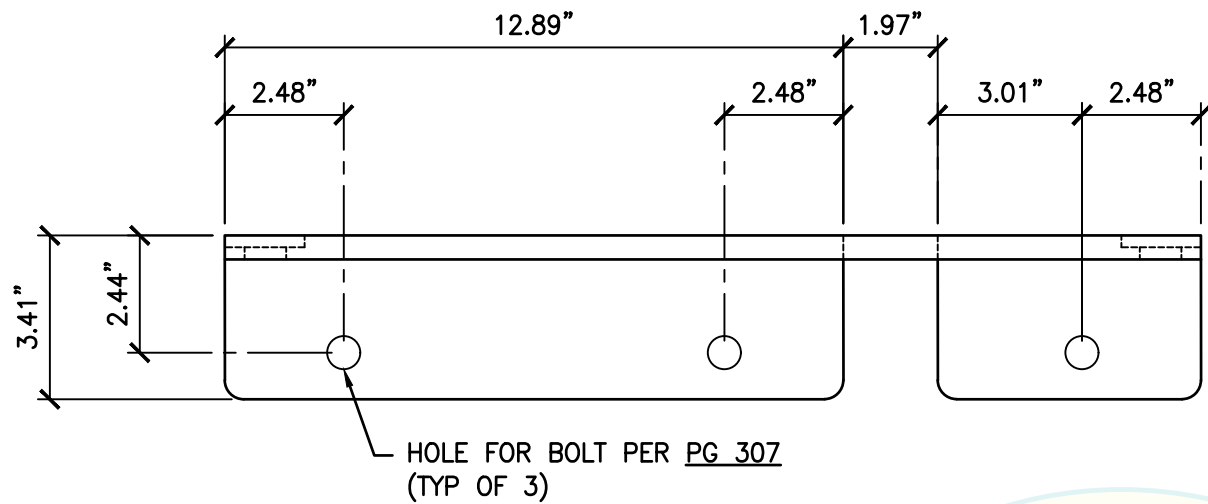
SIDE ELEV



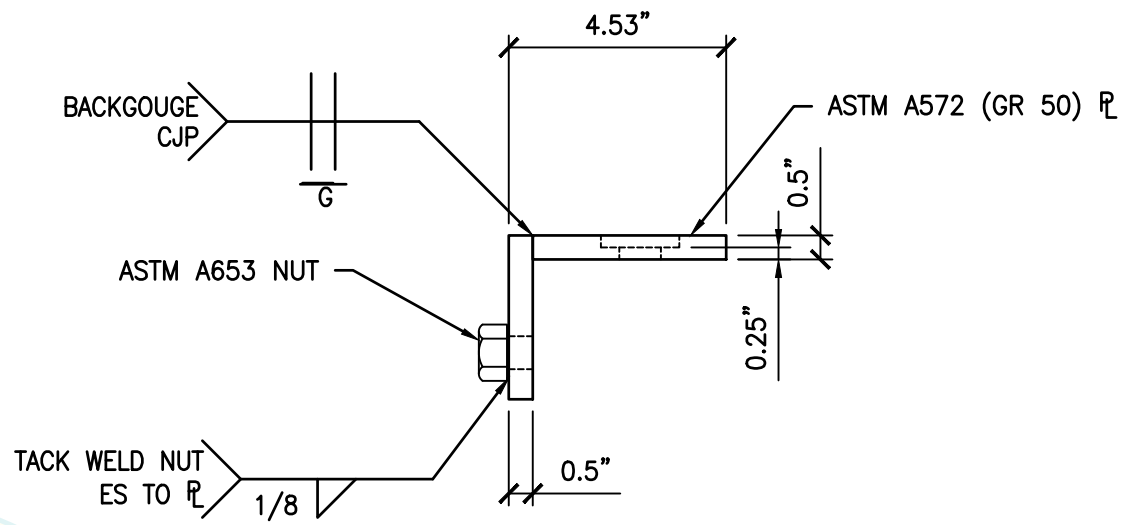
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ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com							Date: 08/072026
							By: CYS
							Page: 308

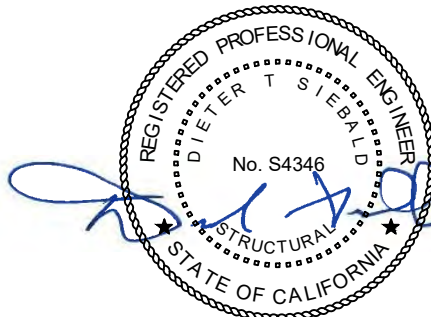
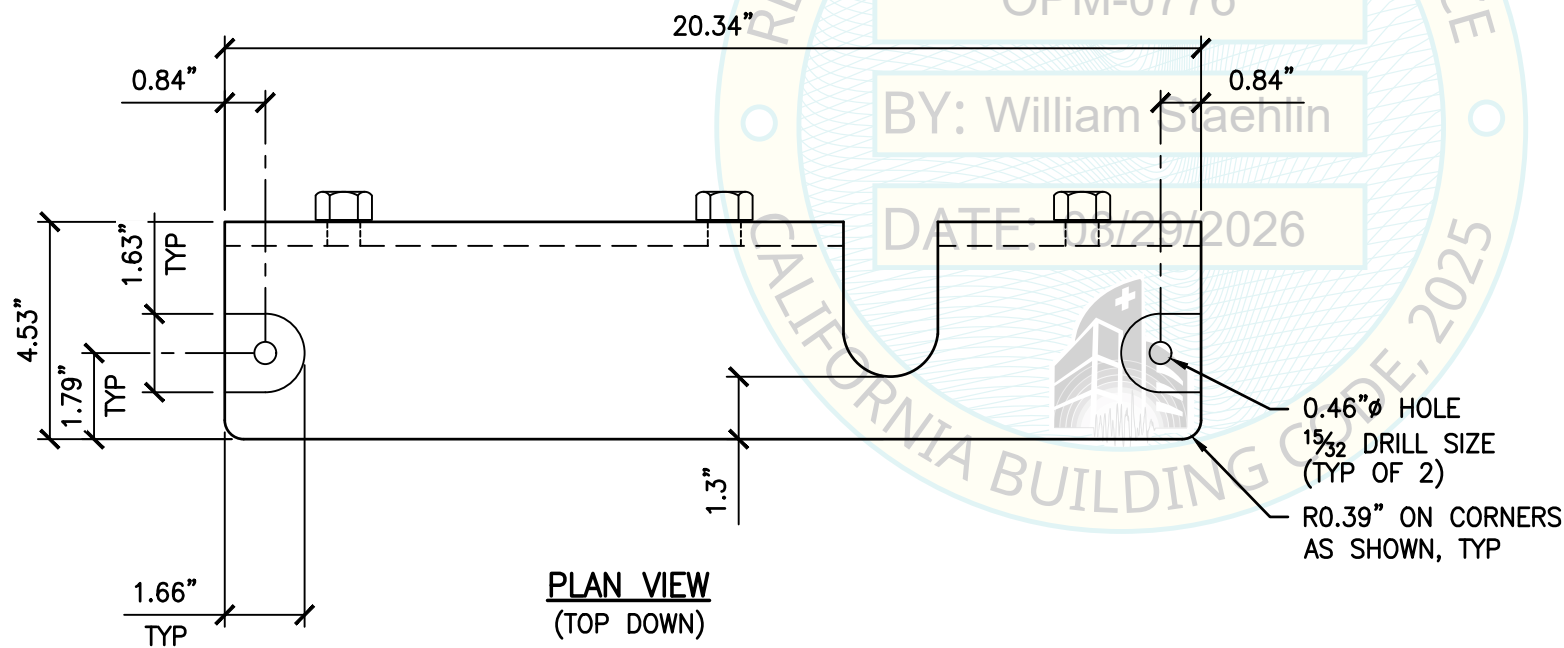
TOP BRACKET DETAIL:



ELEV



SIDE ELEV



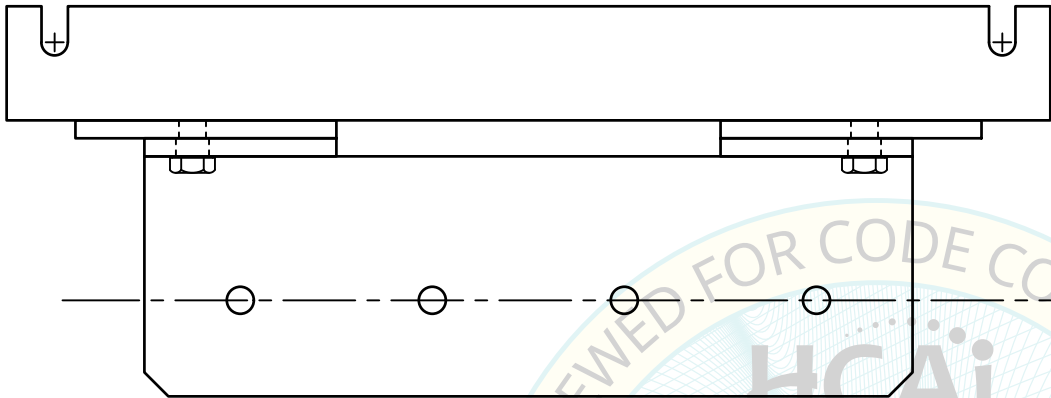
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 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 309

**CYS STRUCTURAL ENGINEERS, INC.**
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SACRAMENTO, CA 95833

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SEISMIC BRACKET ASSEMBLY:

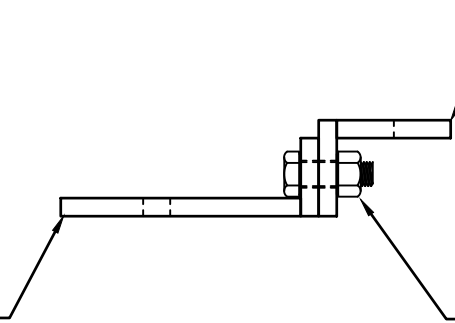


PLAN VIEW
(TOP DOWN)

FOR CASE 1, USE OUTER ANCHOR HOLES, TYP OF 2.
FOR CASES 2 & 3, USE ALL ANCHOR HOLES, TYP OF 4



ELEV



SIDE ELEV

TOP SEISMIC BRACKET
PER PG 312

BOTT SEISMIC BRACKET
PER PG 311

1/2"Ø ASTM F3125 GR A325-SC BOLT
W/ ASTM F436 WASHER. TORQUE
TO 110 FT-LBS. (TYP OF 2)



NOT SEOR

SHEET TITLE: ALINITY hq MODULE SEISMIC BRACKET ASSEMBLY DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 310



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS

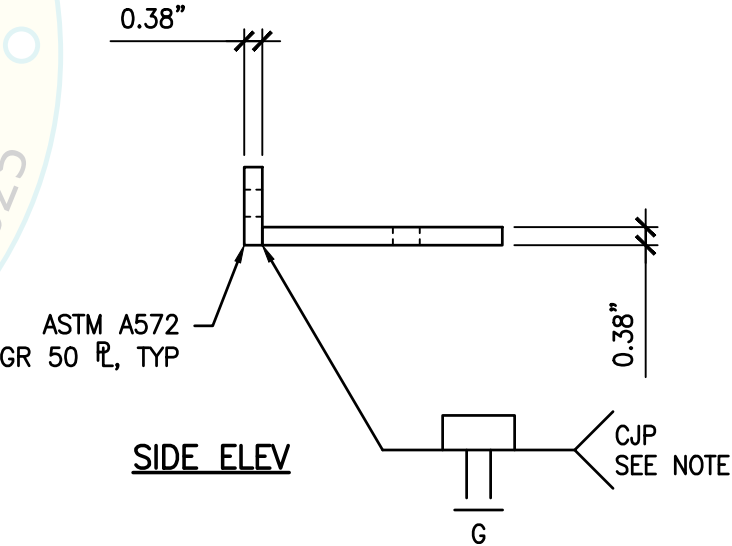
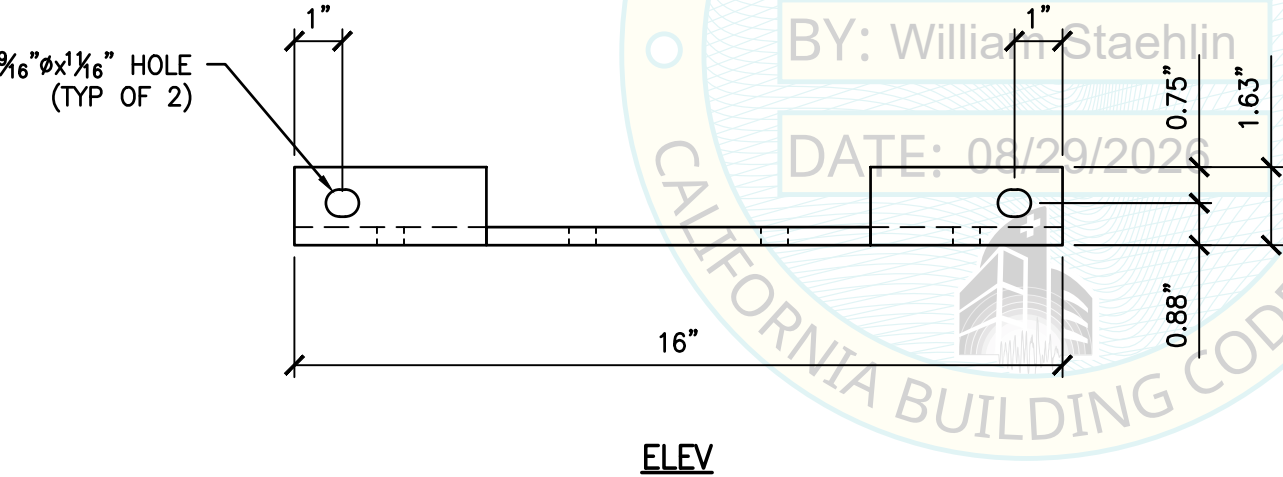
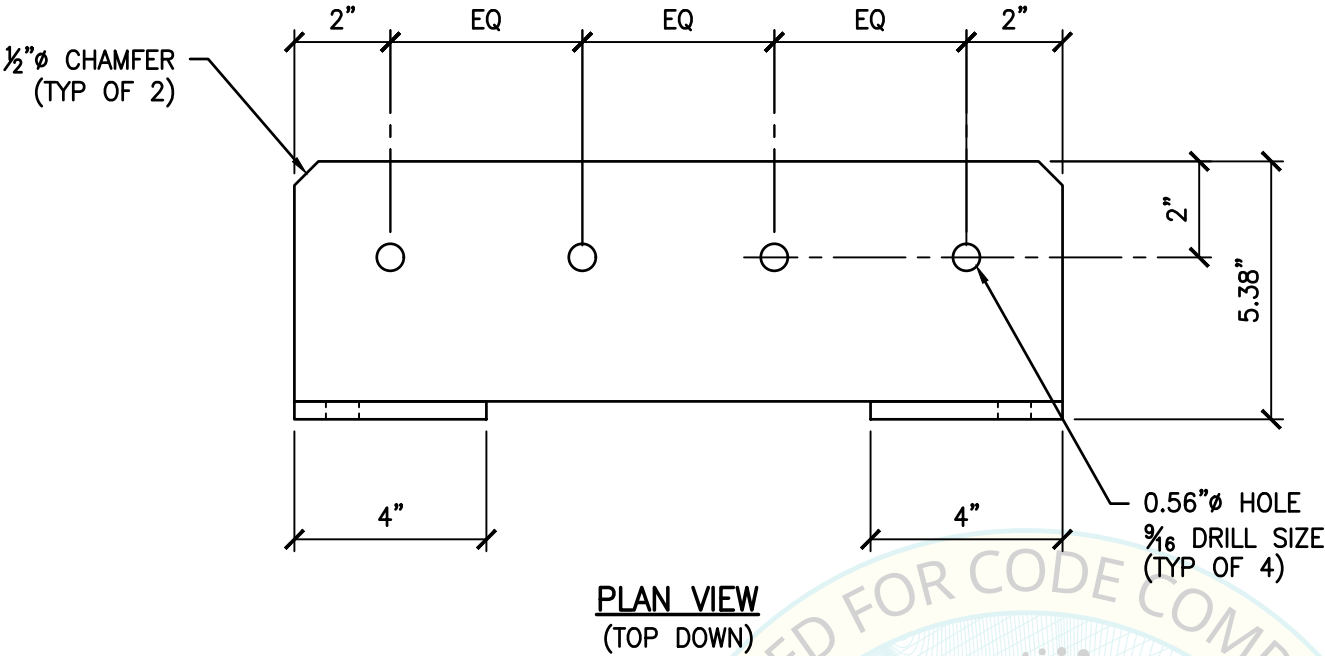


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BOTTOM BRACKET DETAIL:



NOTE:
REMOVE BACKER BAR. MACHINE
RE-ENTRANT CORNER FOR
FIT-UP AS SHOWN. NO RADIUS

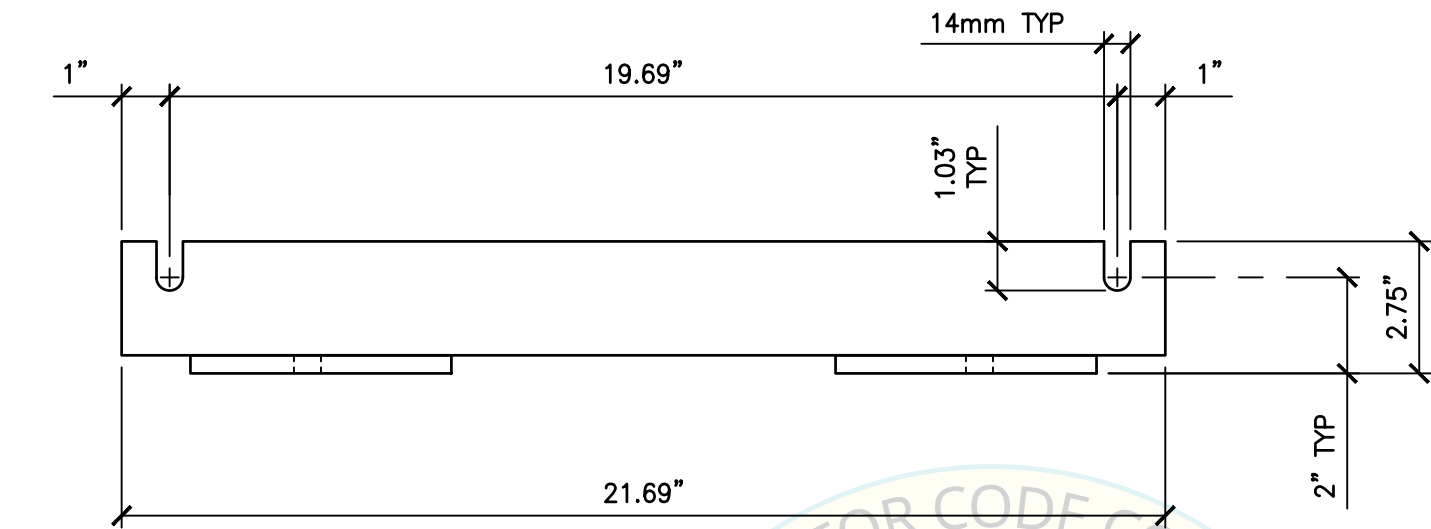


SHEET TITLE: ALINITY hq MODULE BOTTOM SEISMIC BRACKET FABRICATION DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 311

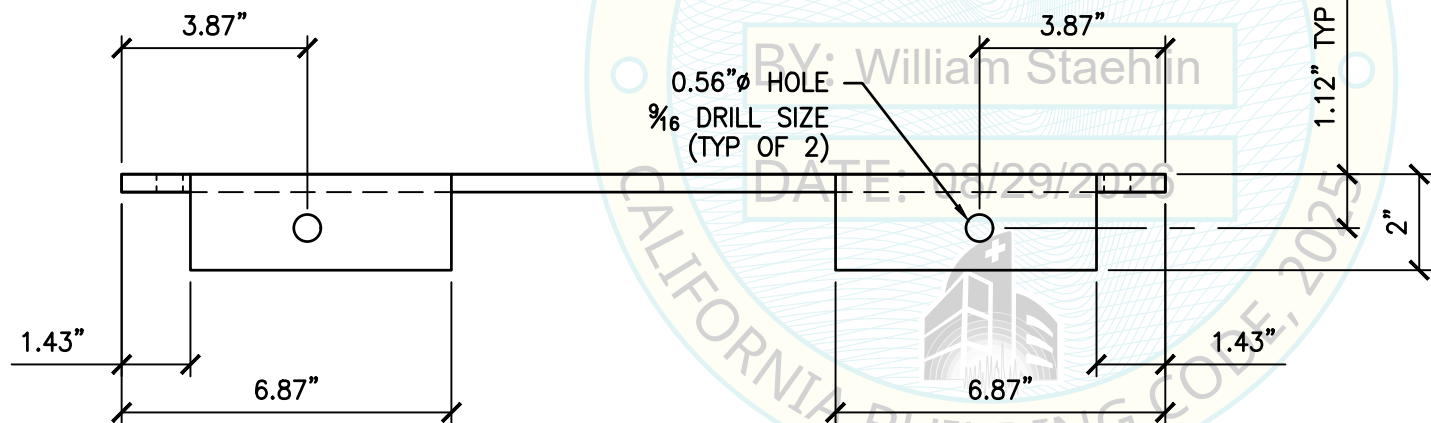
**CYS STRUCTURAL ENGINEERS, INC.**
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

TEL (916) 920-2020
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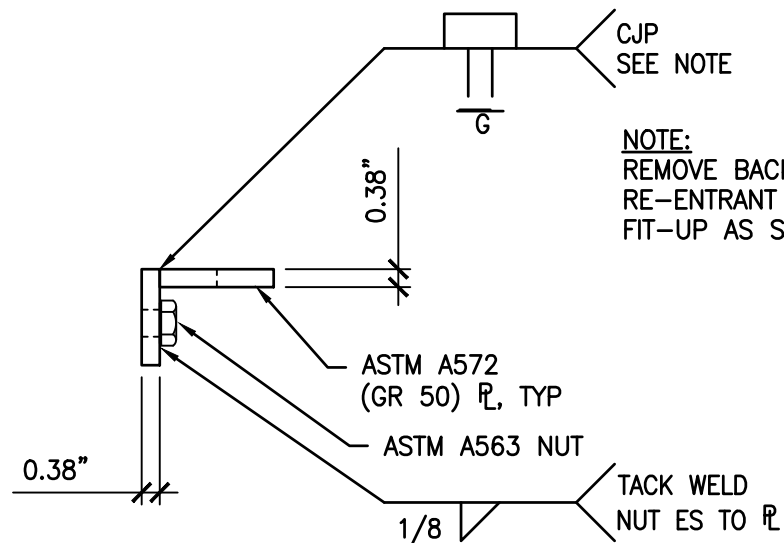
TOP BRACKET DETAIL:



PLAN VIEW
(TOP DOWN)

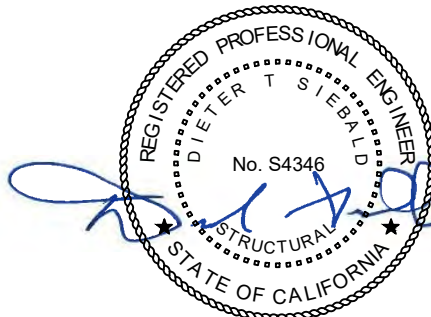


ELEV



SIDE ELEV

NOTE:
REMOVE BACKER BAR. MACHINE
RE-ENTRANT CORNER FOR
FIT-UP AS SHOWN. NO RADIUS

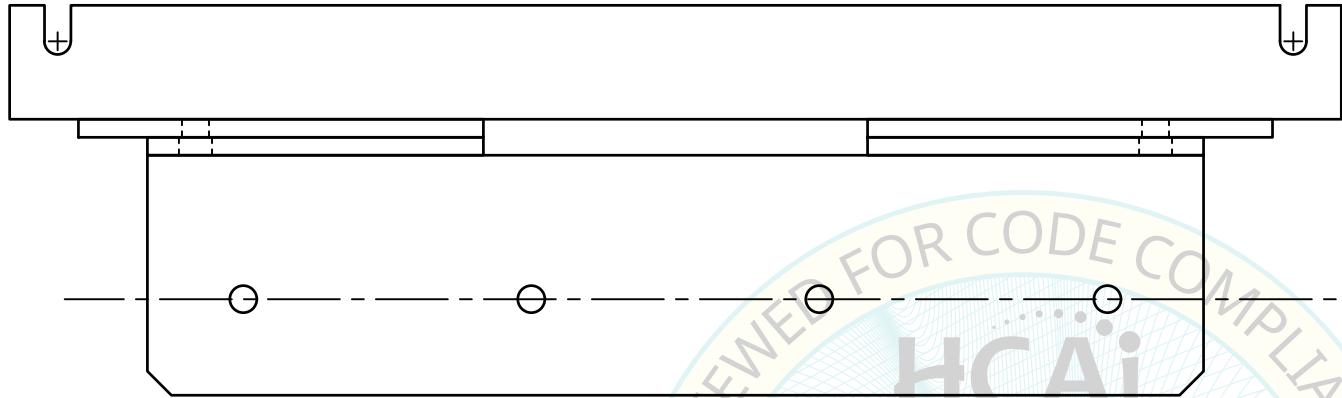


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SHEET TITLE: ALINITY hq MODULE TOP SEISMIC BRACKET FABRICATION DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 312

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SEISMIC BRACKET ASSEMBLY:

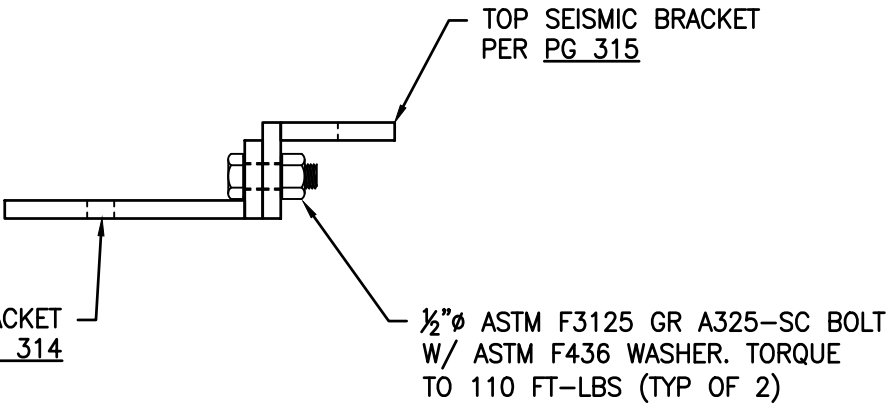


PLAN VIEW
(TOP DOWN)

FOR CASE 1, USE OUTER ANCHOR HOLES, TYP OF 2.
FOR CASES 2 & 3, USE ALL ANCHOR HOLES, TYP OF 4



ELEV



SIDE ELEV



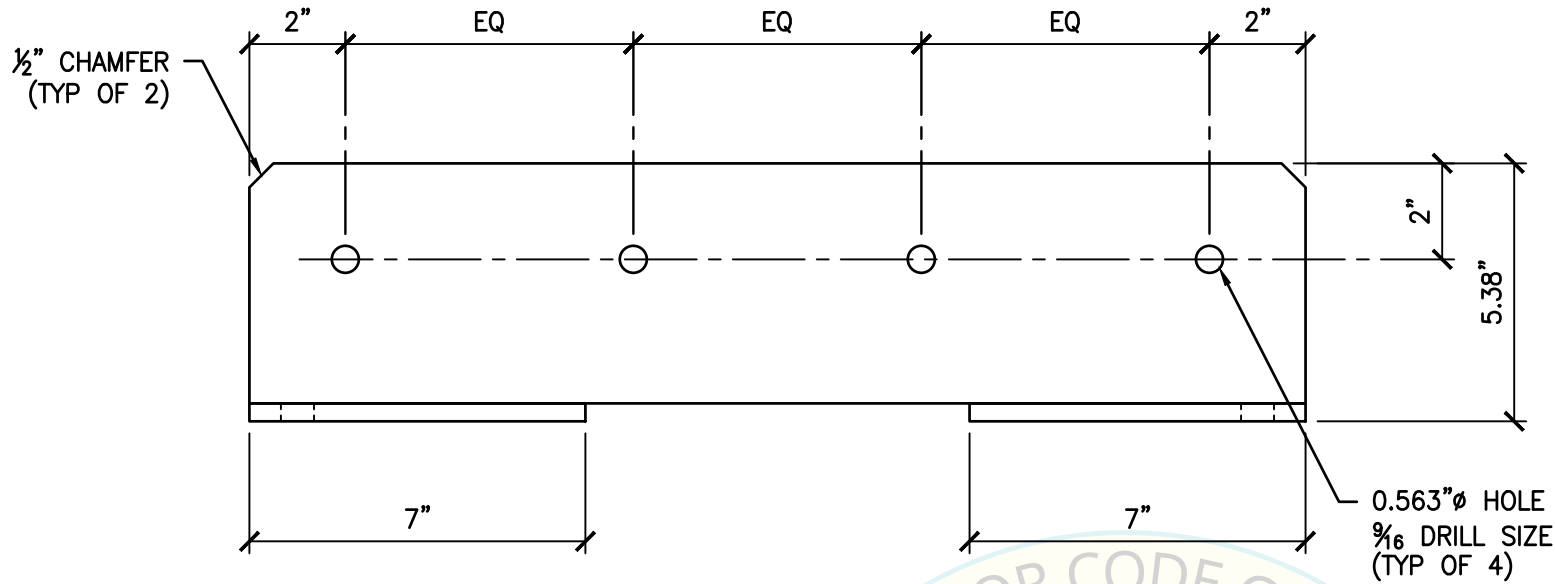
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SHEET TITLE: ALINITY hs MODULE SEISMIC BRACKET ASSEMBLY DETAIL				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 313

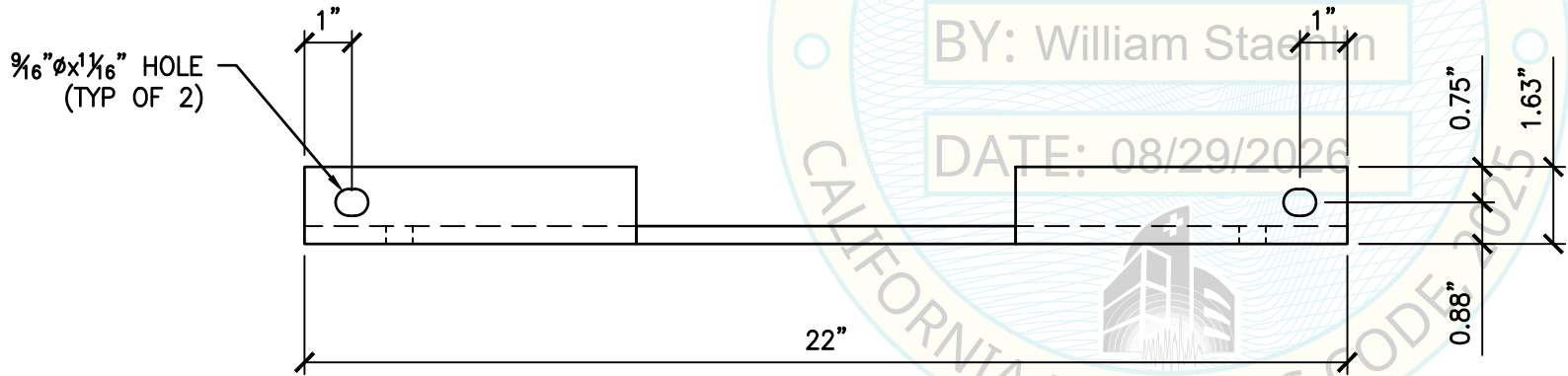
 **CYS STRUCTURAL ENGINEERS, INC.**
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SACRAMENTO, CA 95833

TEL (916) 920-2020
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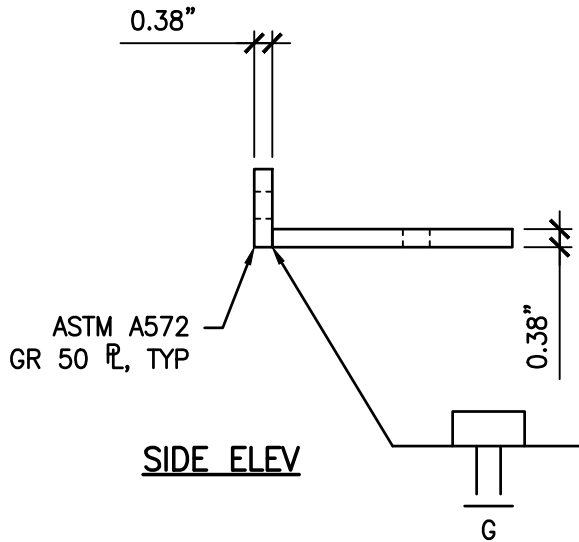
BOTTOM BRACKET DETAIL:



PLAN VIEW
(TOP DOWN)



ELEV



SIDE ELEV

NOTE:
REMOVE BACKER BAR. MACHINE
RE-ENTRANT CORNER FOR
FIT-UP AS SHOWN. NO RADIUS

CJP
SEE NOTE



SHEET TITLE: ALINITY hs MODULE
BOTTOM SEISMIC BRACKET FABRICATION DETAIL



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



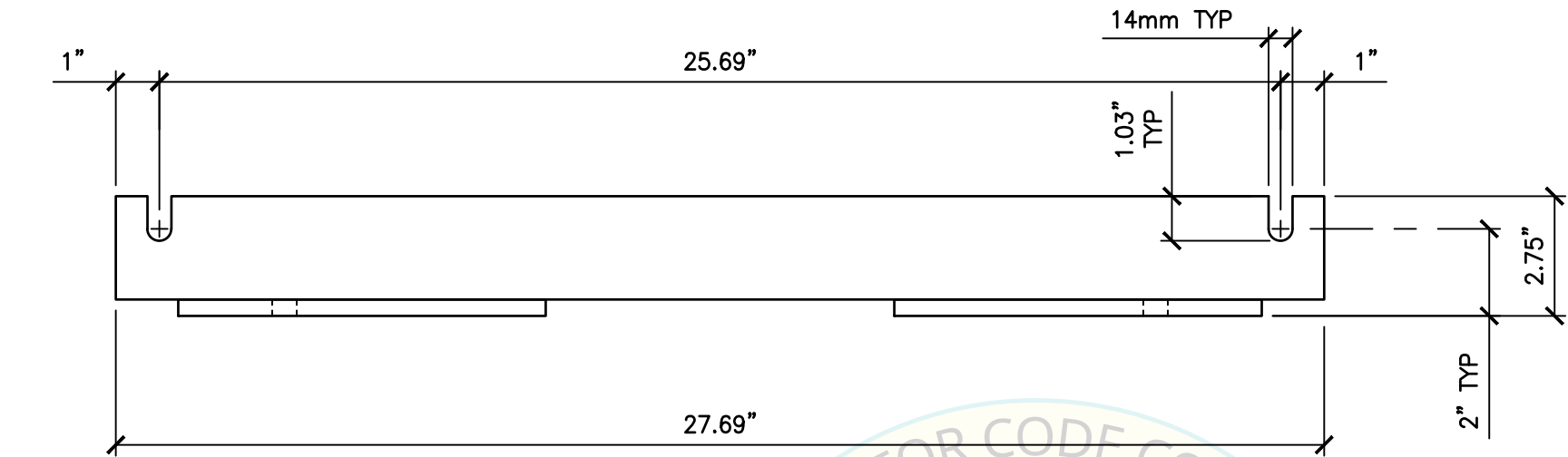
CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

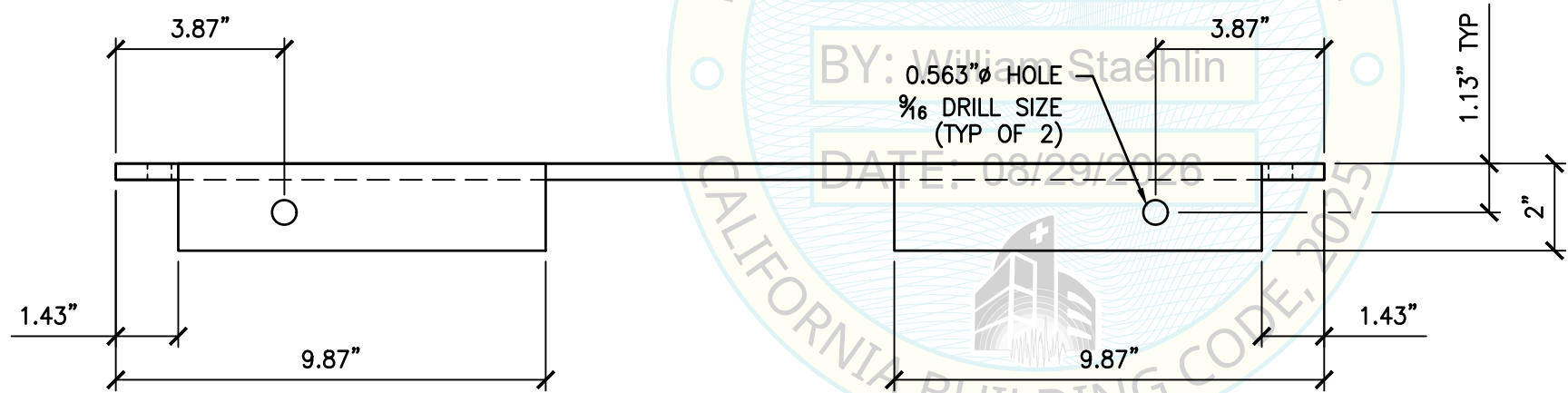
TEL (916) 920-2020
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Rev	Description	Date	Job No:	26015
			Date:	08/072026
			By:	CYS
			Page:	314

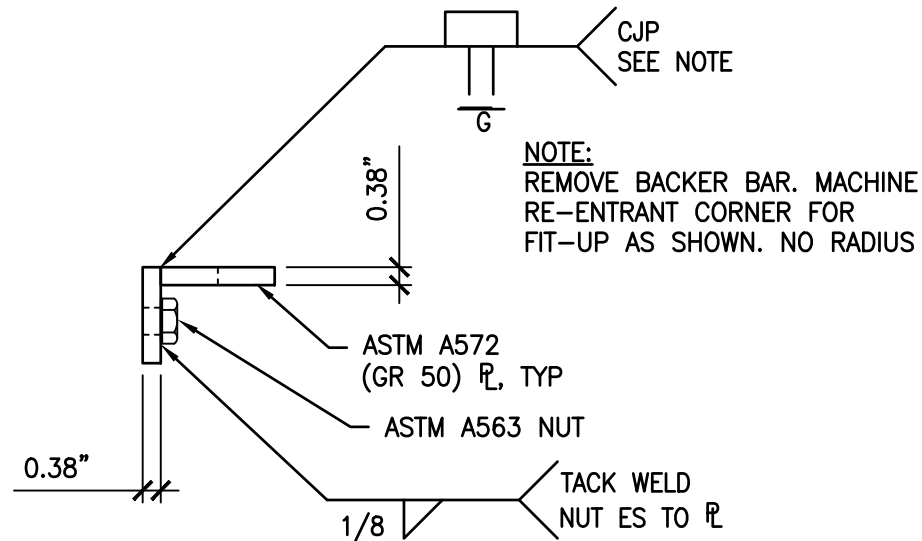
TOP BRACKET DETAIL:



PLAN VIEW
(TOP DOWN)



ELEV



SIDE ELEV

NOTE:
REMOVE BACKER BAR. MACHINE
RE-ENTRANT CORNER FOR
FIT-UP AS SHOWN. NO RADIUS



NOT SEOR

SHEET TITLE: ALINITY hs MODULE
TOP SEISMIC BRACKET FABRICATION DETAIL

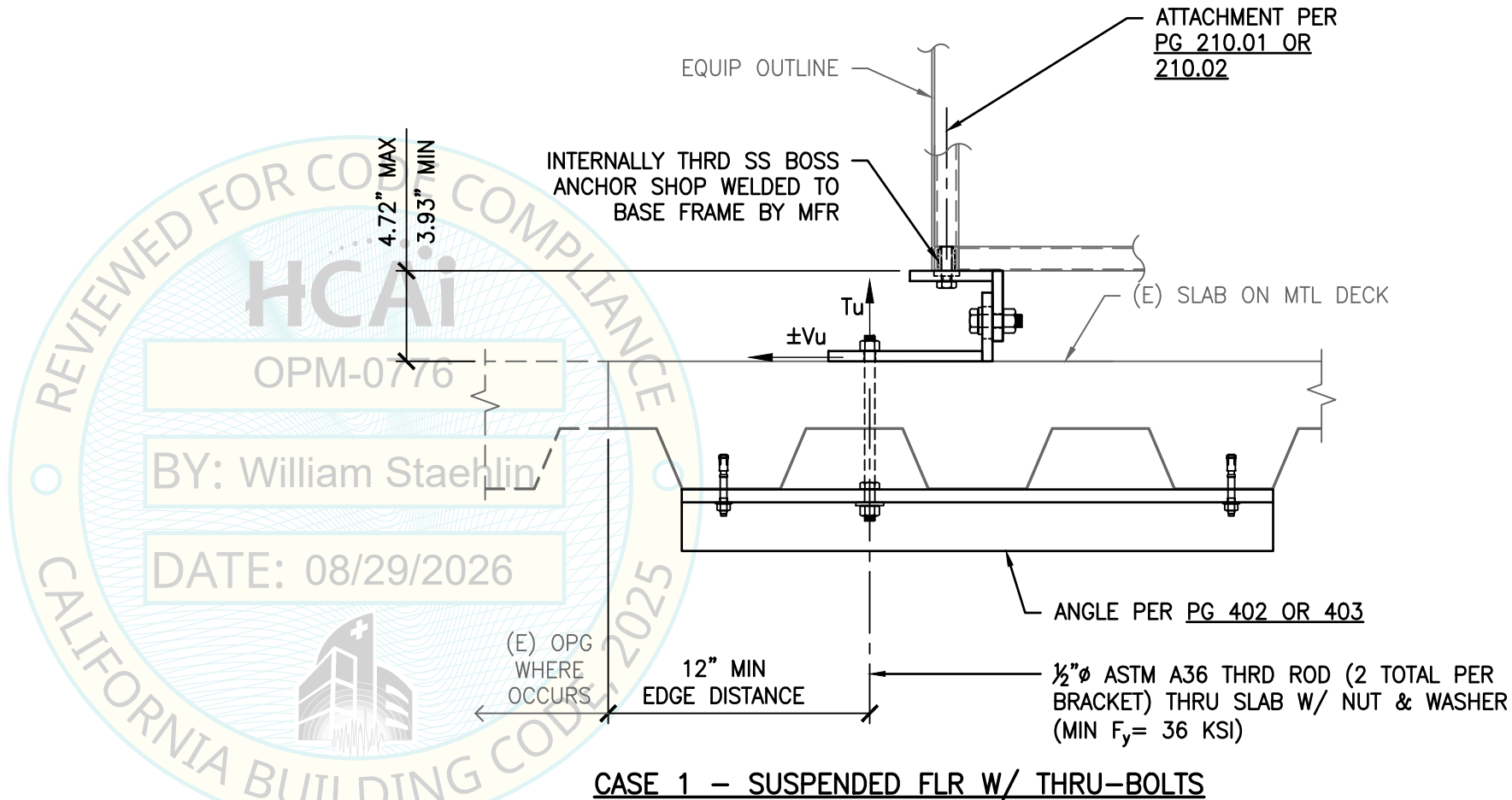
ABBOTT
ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS

CYS STRUCTURAL ENGINEERS, INC.
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833
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Rev	Description	Date	Job No:	26015
			Date:	08/072026
			By:	CYS
			Page:	315

MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 1 z/h ≤ 0.45	2493#	1734#

SHEAR Vu INCLUDES MATERIAL
OVERSTRENGTH FACTOR (ϕ_b)



NOTE:
SUPPORTS & ATTACHMENTS INSTALLATION
BY GENERAL CONTRACTOR.



SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR ALINITY c & i CASE 1				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
							By: CYS
							Page: 401

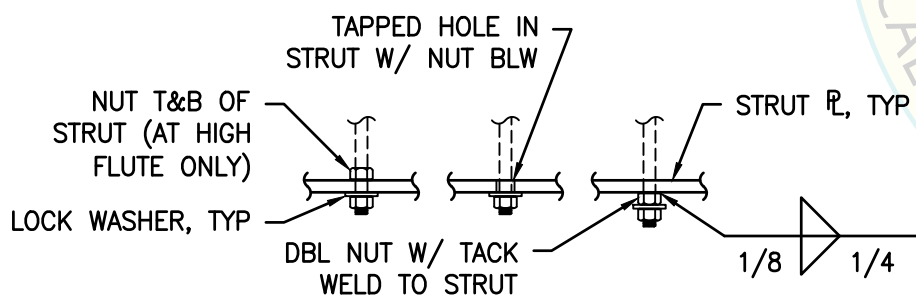
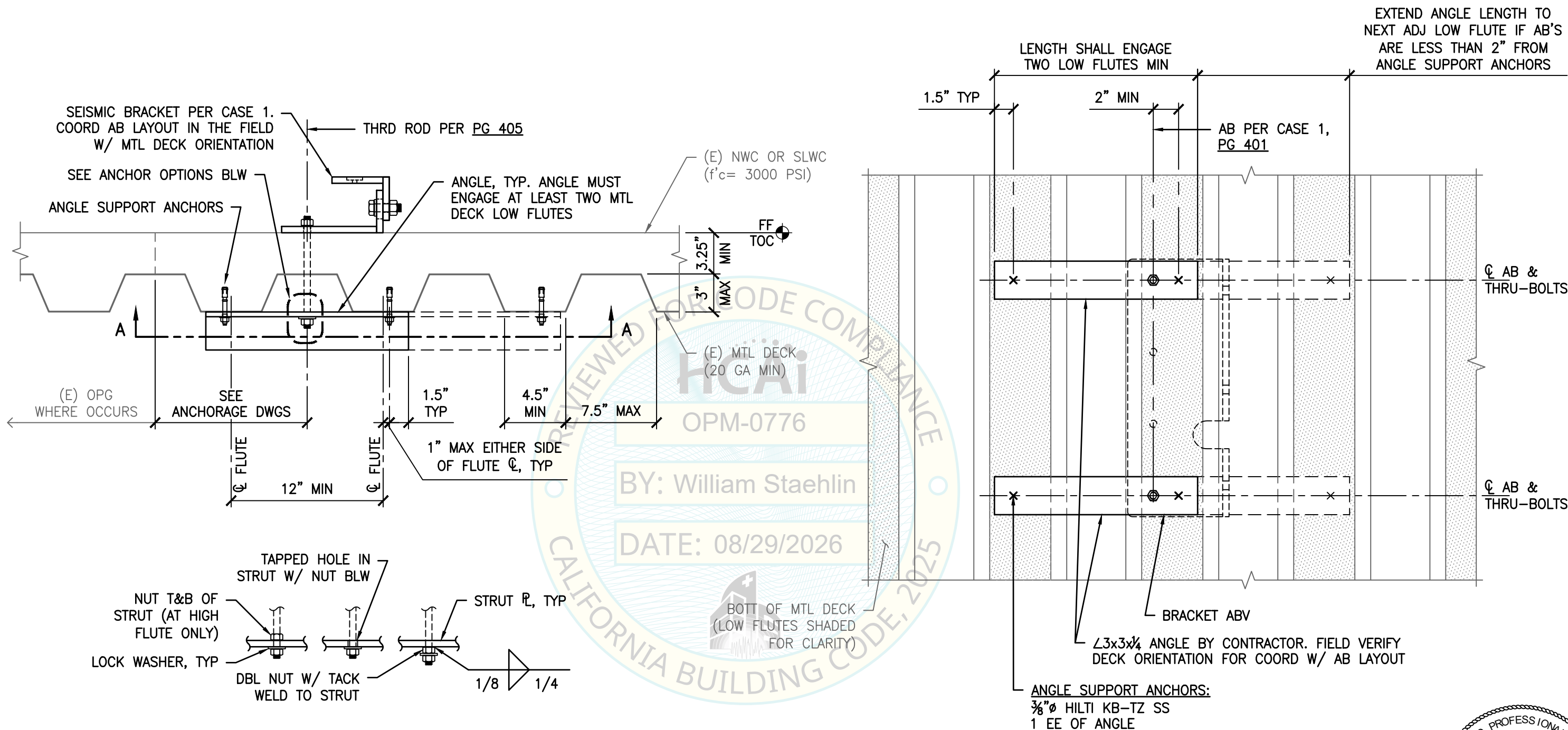


ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



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ANCHOR OPTIONS

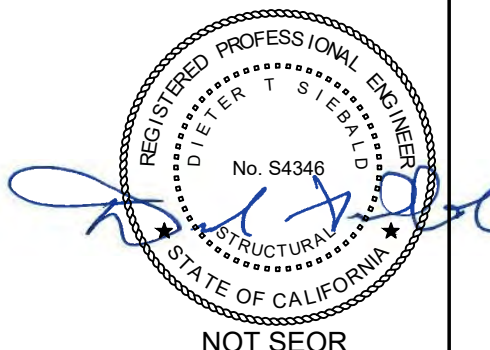
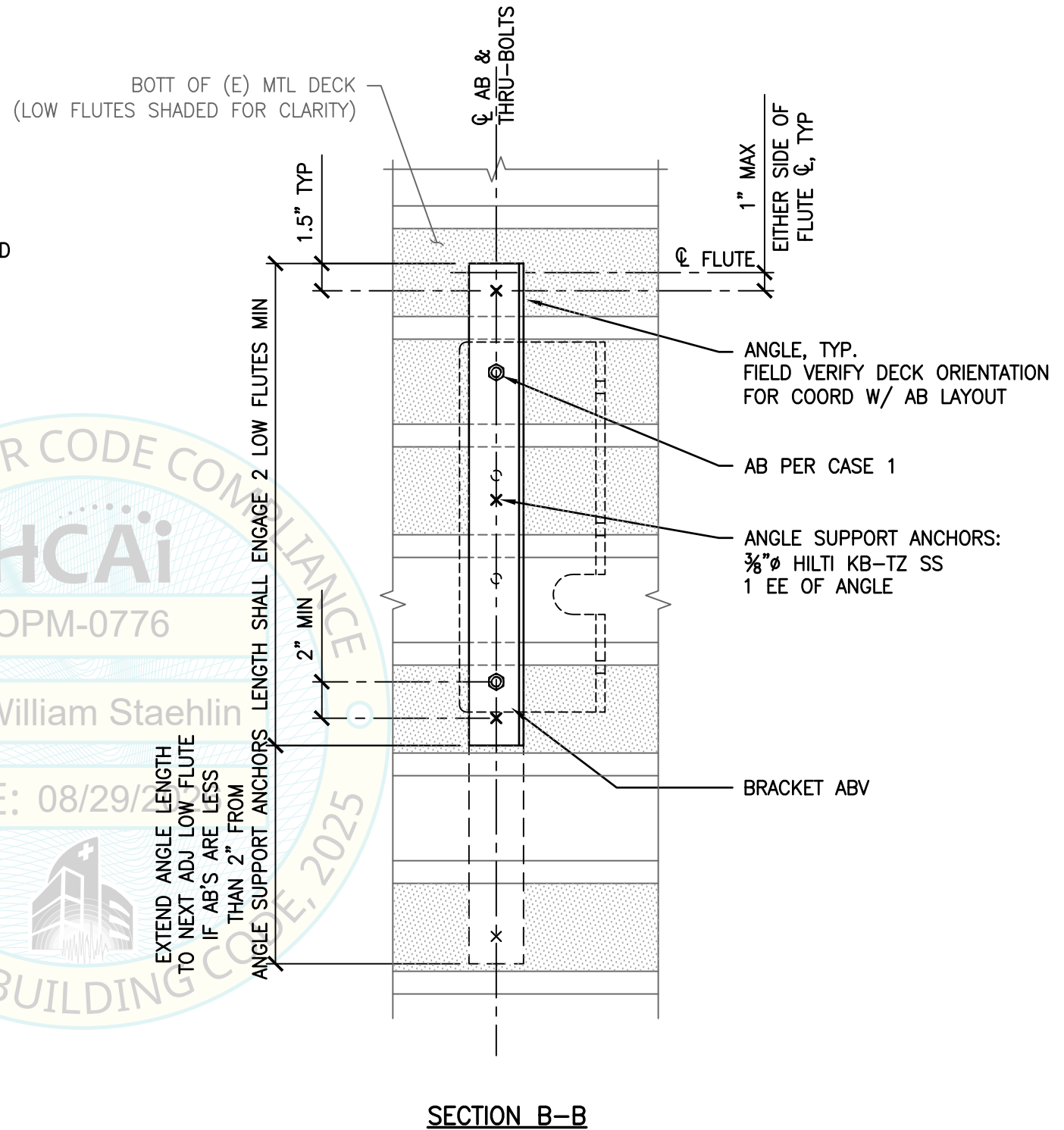
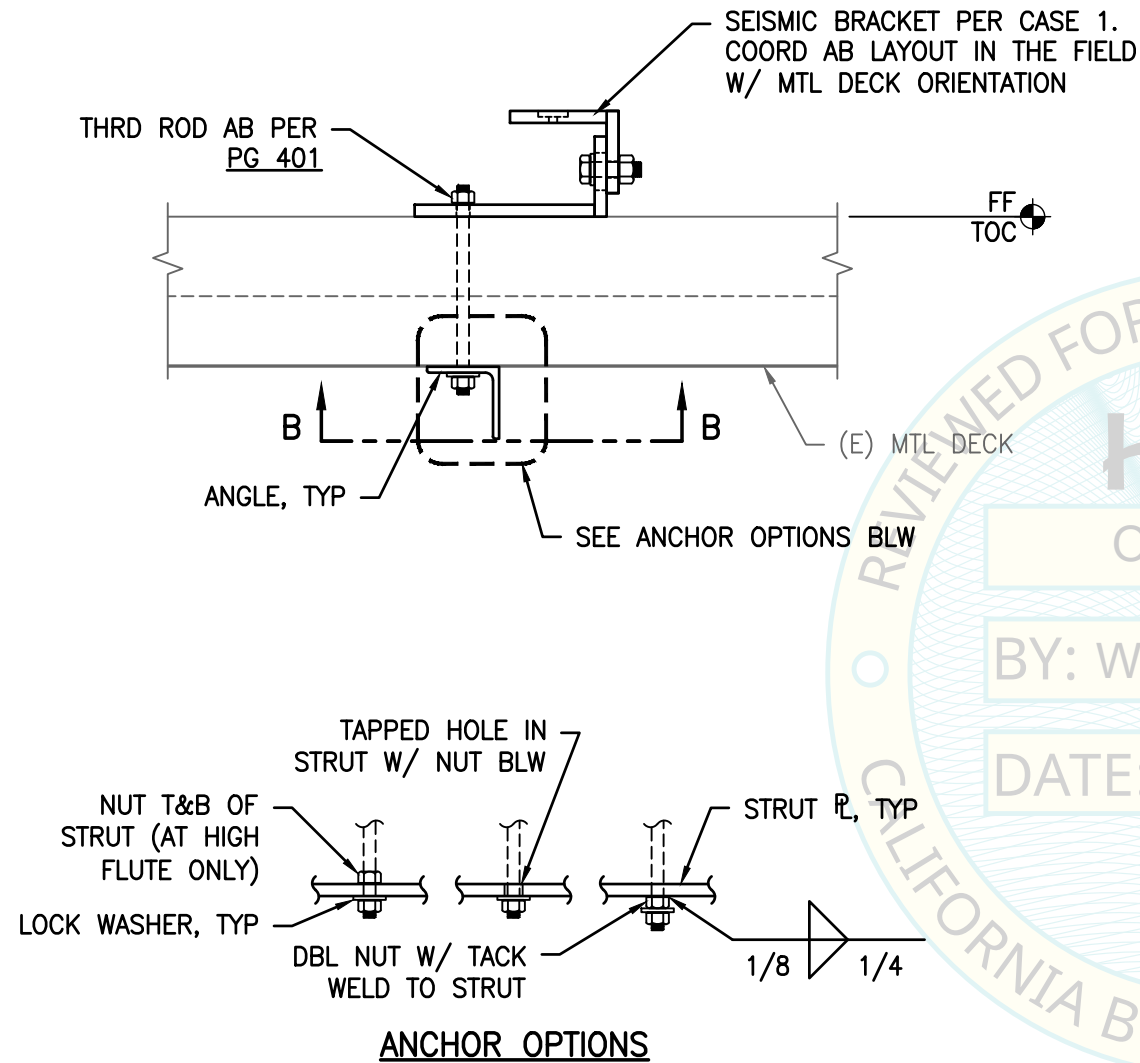
SECTION A-A



NOT SEOR

SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR ALINITY c & i CASE 1				Rev	Description	Date	Job No: 26015
 ABBOTT ALINITY c, i, hq & hs INSTRUMENTS EQUIPMENT SUPPORT & ATTACHMENTS							Date: 08/072026
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SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR
ALINITY c & i CASE 1



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



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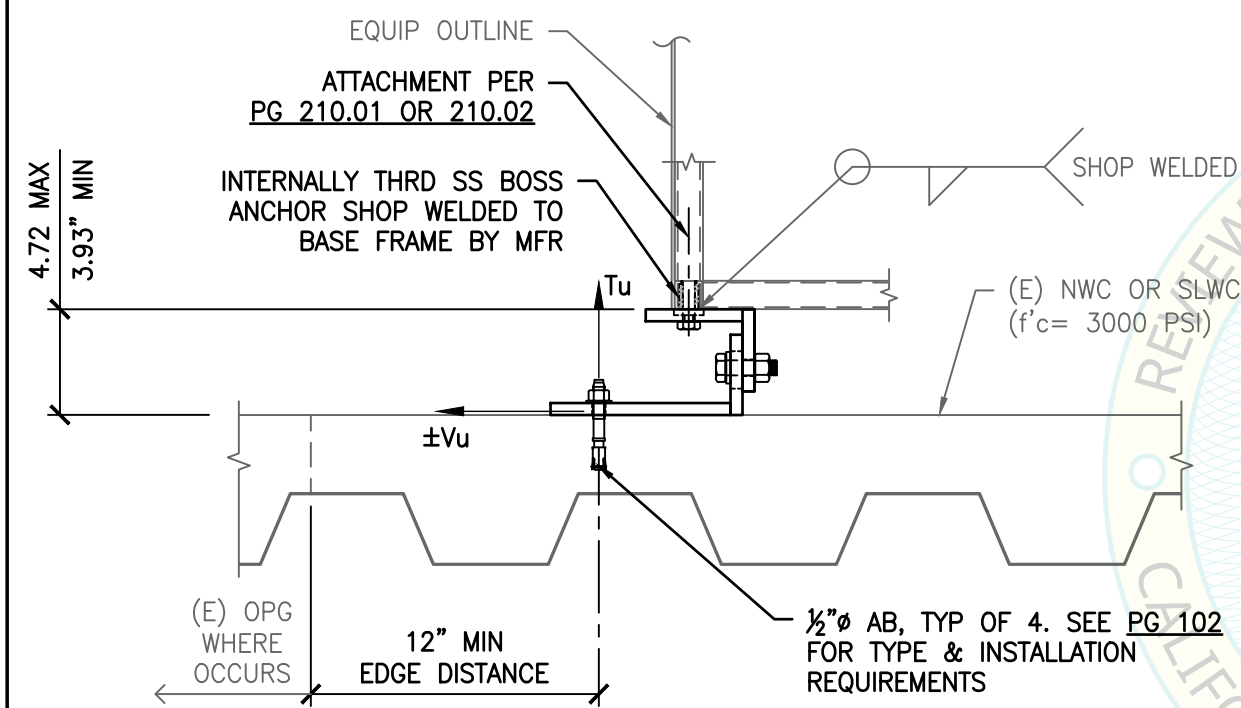
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MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 2 z/h ≤ 0.45	682#	301#

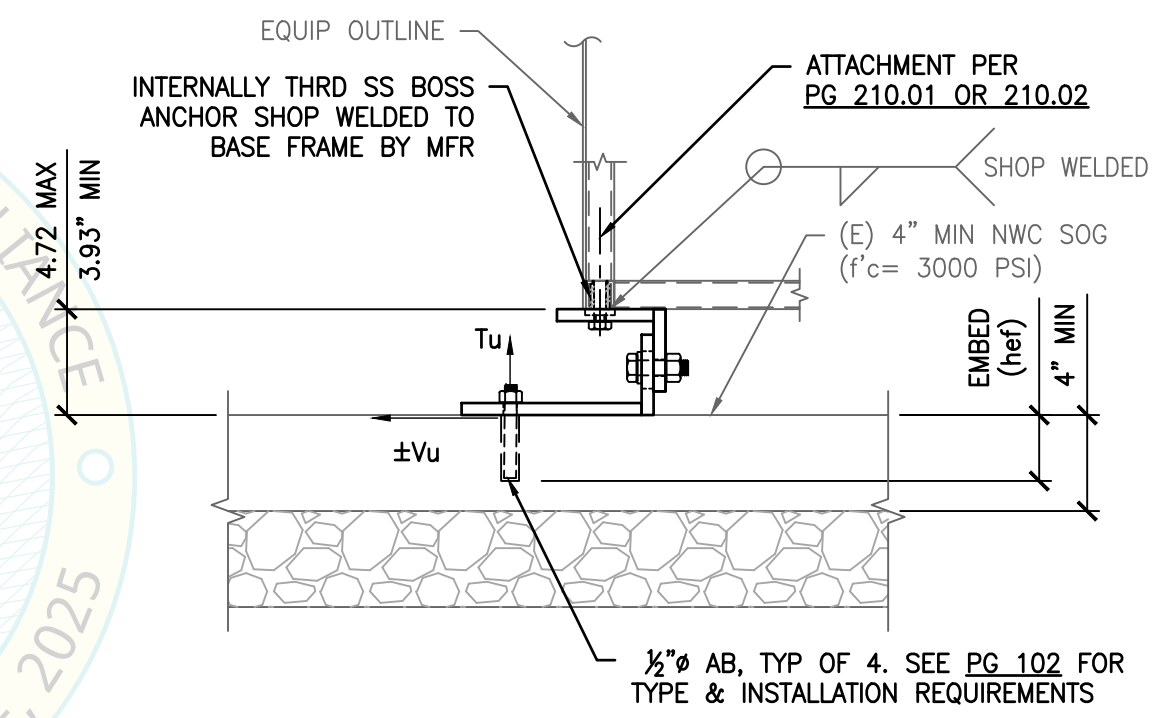
INCLUDES OVERSTRENGTH FACTOR (Ω_o)

MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 3 z/h = 0.00	1146#	466#

INCLUDES OVERSTRENGTH FACTOR (Ω_o)



CASE 2 – SUSPENDED FLR W/ ANCHOR BOLTS INTO CONC FILL



CASE 3 – SOG OR SUSPENDED FLR (SLAB AT OR BLW GRADE)



SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR
ALINITY c & i CASES 2 & 3



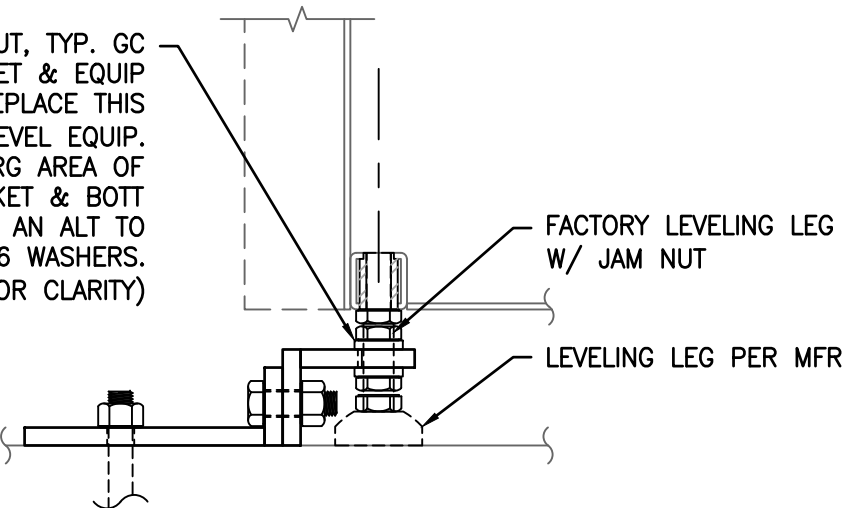
ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



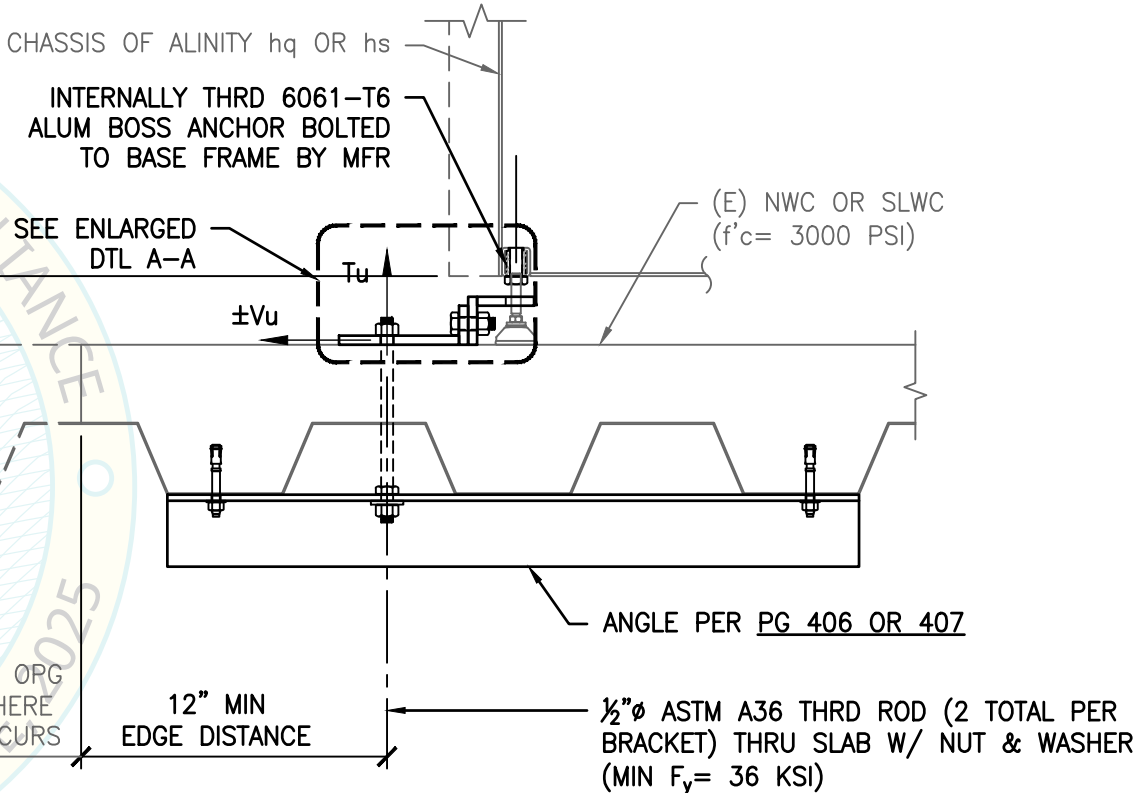
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GC SHALL PROVIDE & INSTALL JAM NUT, TYP. GC SHALL OMIT TOP NUT IF CLR BLW BRACKET & EQUIP IS LESS THAN THE HT OF A NUT & REPLACE THIS NUT W/ SS FINGER SHIMS AS REQ TO LEVEL EQUIP. SHIMS MUST BE SAME DIMS AS BRG AREA OF BRACKET FLG. WHEN CLR BTW T.O. BRACKET & BOTT OF COMPONENT IS 7mm OR LESS. AS AN ALT TO SHIMS USE STACKED HARDENED F436 WASHERS. (SHIMS OR WASHERS NOT SHOWN FOR CLARITY)



ENLARGED DTL A-A



MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 1 z/h ≤ 0.95	685#	217#

SHEAR Vu INCLUDES MATERIAL OVERSTRENGTH FACTOR (Ωb)

CASE 1 – SUSPENDED FLR W/ THRU-BOLTS

- NOTES:
- 1. SUPPORTS & ATTACHMENTS INSTALLATION BY CONTRACTOR.
 - 2. LEVELING LEGS & BOLTS CONNECTING BRACKETS NOT SHOWN FOR CLARITY.



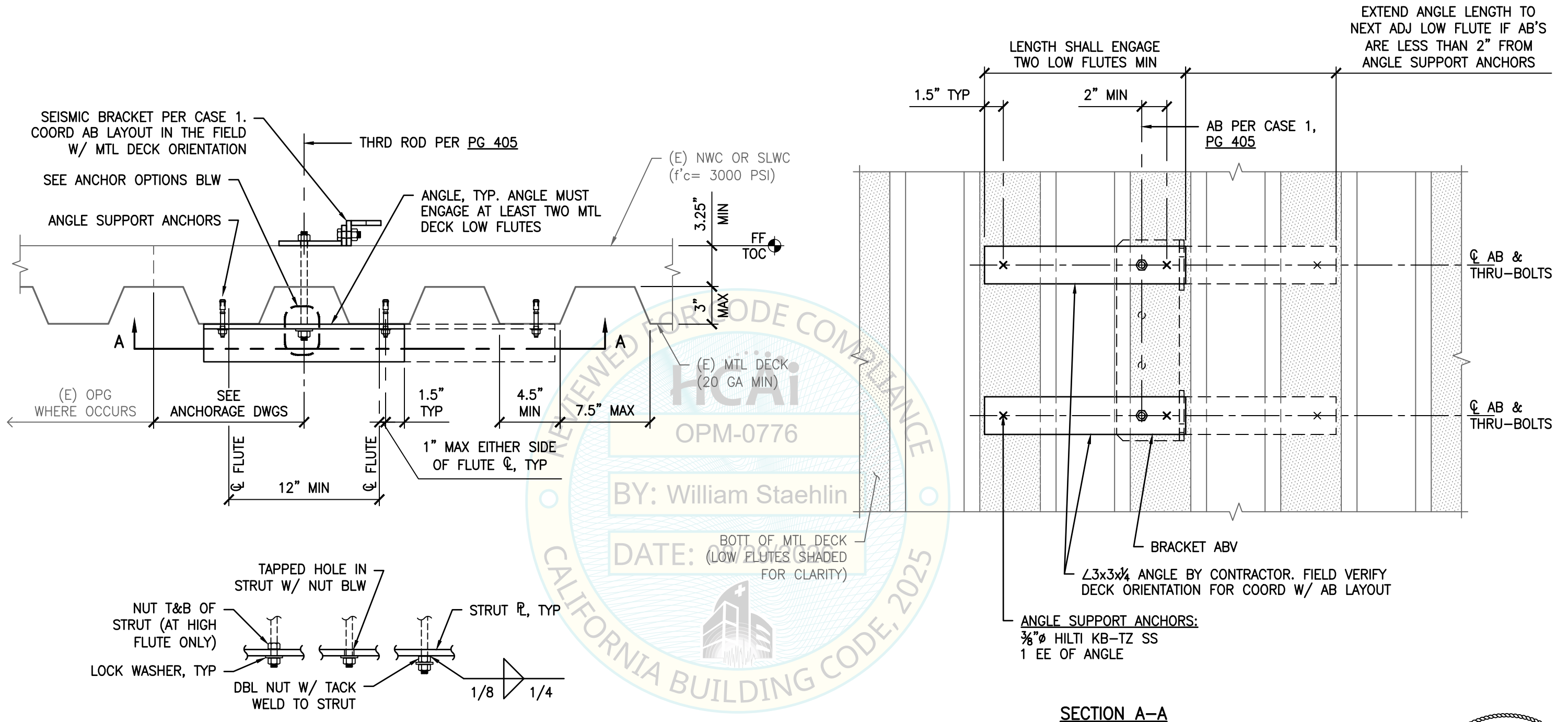
SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR ALINITY hq & hs CASE 1				Rev	Description	Date	Job No: 26015
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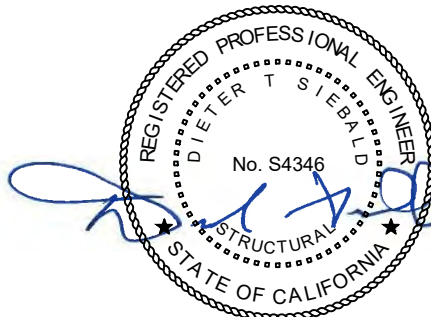
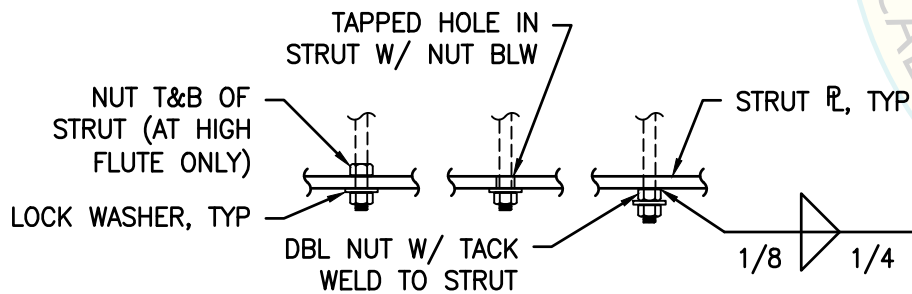
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ANCHOR OPTIONS



SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR
ALINITY hq & hs CASE 1

ABBOTT

ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



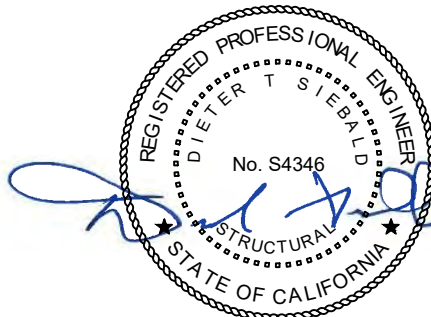
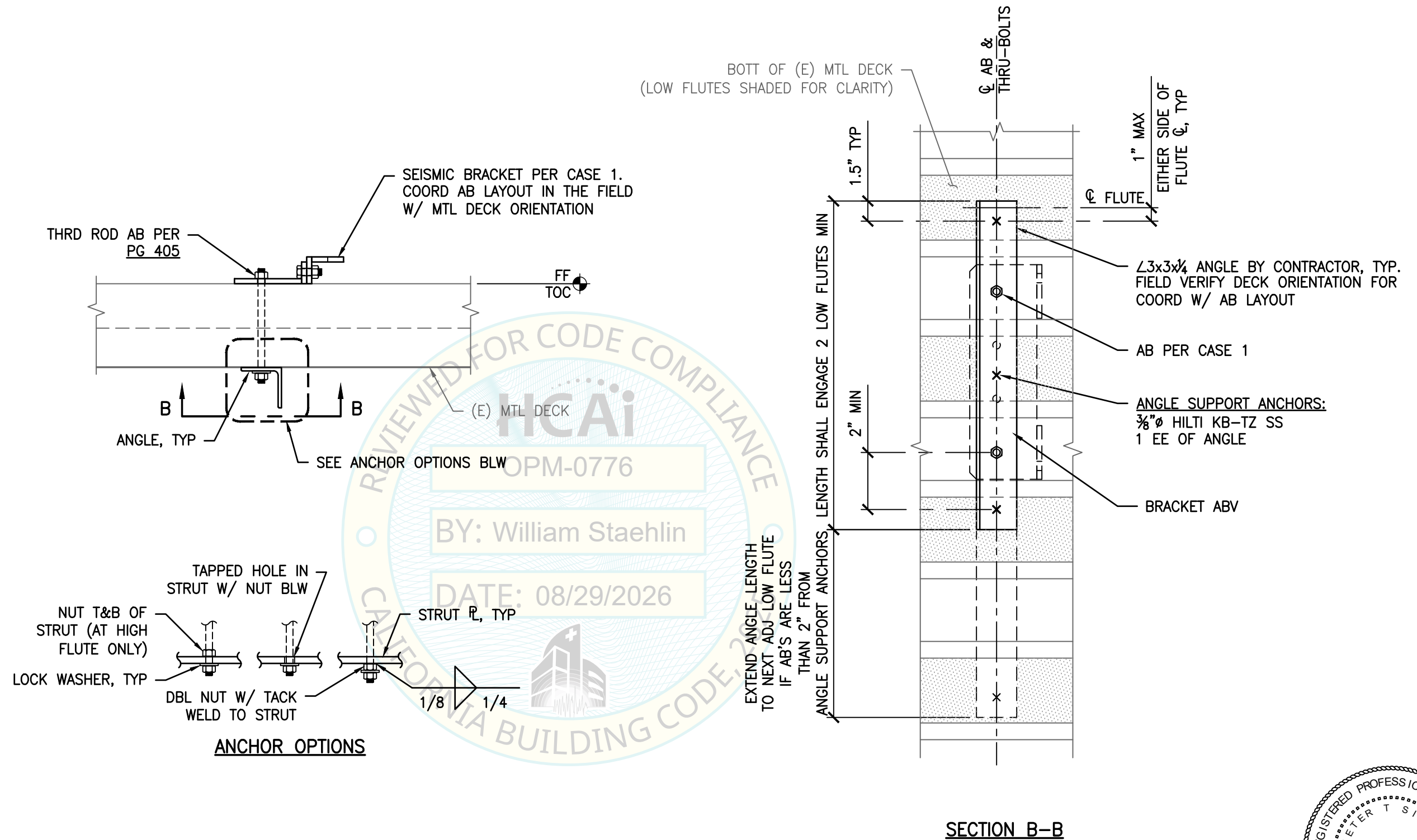
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NOT SEOR

SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR
ALINITY hq & hs CASE 1



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
EQUIPMENT SUPPORT & ATTACHMENTS



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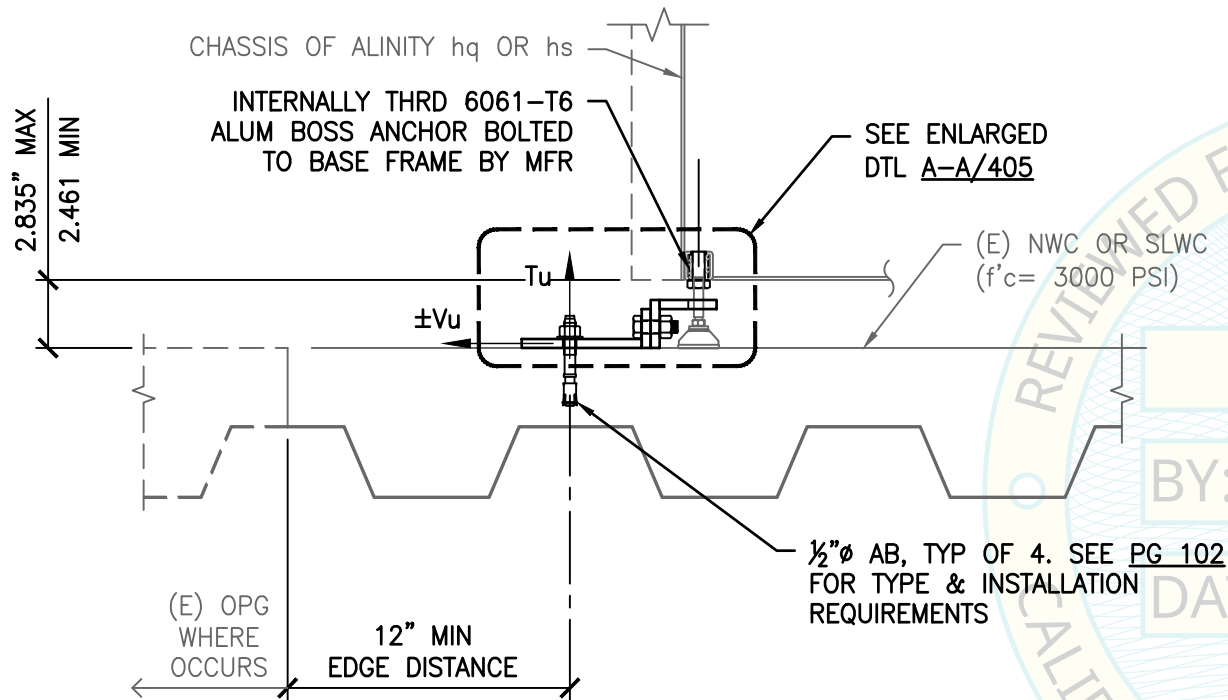
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MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 2 $z/h \leq 0.45$	685#	217#

INCLUDES OVERSTRENGTH FACTOR (Ω_o)

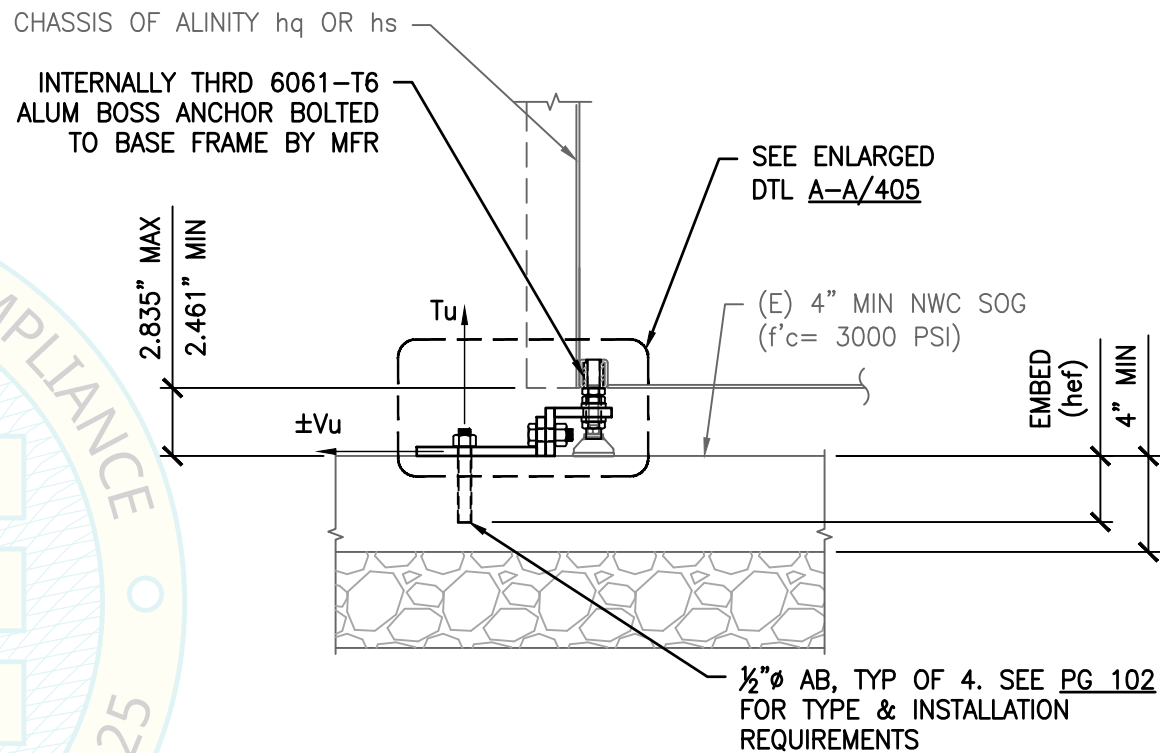


CASE 2 – SUSPENDED FLR W/ ANCHOR BOLTS INTO CONC FILL

- NOTES:
- SUPPORTS & ATTACHMENTS INSTALLATION BY CONTRACTOR.
 - LEVELING LEGS & BOLTS CONNECTING BRACKETS NOT SHOWN FOR CLARITY.

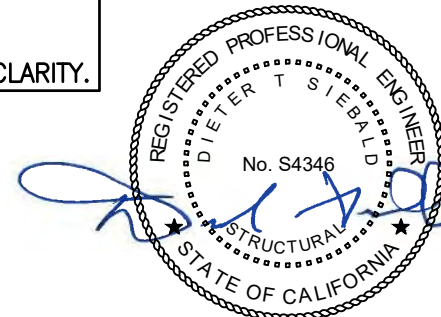
MAX ANCHOR FORCES AT LRFD AT EA AB		
	Tu	Vu
CASE 3 $z/h = 0.00$	1075#	305#

INCLUDES OVERSTRENGTH FACTOR (Ω_o)



CASE 3 – SOG
(SLAB AT OR BLW GRADE)

- NOTES:
- SUPPORTS & ATTACHMENTS INSTALLATION BY CONTRACTOR.
 - LEVELING LEGS & BOLTS CONNECTING BRACKETS NOT SHOWN FOR CLARITY.



SHEET TITLE: ATTACHMENT DETAIL TO SUPPORTING FLOOR
ALINITY hq & hs CASES 2 & 3



ABBOTT ALINITY c, i, hq & hs INSTRUMENTS
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