

Type:

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-0697

HCAI Preapproval of Manufacturer's Certification (OPM)

X New Renewal/Update

Manufacturer Information

Manufacturer: Abbott

Manufacturer's Technical Representative: Claudia Moreno

Mailing Address: 1921 Hurd Drive, Irving, TX 75038

Telephone: (972) 518-7691

Email: Claudia.Moreno@abbott.com

Product Information

Product Name: Abbott Automation Solutions - GLP Systems Track, Abbott Interfaces - Supports & Attachments

Product Type: Automated Pre/Post Analytical Processing Laboratory Instruments

Product Model Number: RBI Alinity h and RBI Alinity s illiam Staehlin

General Description: The Abbott Automation Solutions - GLP Systems Track, Abbott Interfaces - Supports & Attachments is a modular system designed to automate pre-analytical and post analytical processing, sample handling, and processing in the laboratory. The system consolidates multiple analytical instruments into a unified work station by employing a common sample processing capability.

Applicant Information

Applicant Company Name: CYS Structural Engineers, Inc. 1

Contact Person: Dieter Siebald

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

Title: Structural Engineer/Manager

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





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

Registered Design Professonal Preparing Engineering Recommendations

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

HCAI Special Seismic Certification Preapproval (OSP)	
Special Seismic Certification is preapproved under OSP	OSP Number:
EOR COD	ECO
Certification Method	
Testing in accordance with: ICC-ES AC156 FM 19	50-16
Other(s) (Please Specify):	27
*Use of criteria other than those adopted by the California Building and attachments are not permitted. For distribution system, interior criteria other than those adopted in the CBSC 2022 may be used w	partition wall, and suspended ceiling seismic bracings, test
X Analysis	
Experience Data	3/2024
Combination of Testing, Analysis, and/or Experience Data (Ple	ase Specify):
OPVIA	CODE
HCAI Approval	
Date: 8/29/2024	
Name: William Staehlin	Title: Senior Structural Engineer
Condition of Approval (if applicable):	



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COMPONENTS FLOOR SUPPORTED MODULE: RBI ALINITY h FLOOR SUPPORTED MODULE: RBI ALINITY s	
SEISMIC BRACKET DETAIL TRACK TO COMPONENT CONNECTIONS	
FLOOR MOUNTED ATTACHMENT CASE 1 – TYPICAL STRUT DETAILS CASE 1 & 2 – SEISMIC BRACKET	
NOTES: THESE DRAWINGS ARE PREPARED FOR ABBOTT LABORATORIES, A ABBOTT PARK, ILLINOIS.	N ILLINOIS CORPORATION,
1. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS PRE-APP HCAI/OSHPD PRE-APPROVAL PROGRAM WEBSITE AND PROVID INSPECTOR OF RECORD.	
2. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMI EQUIPMENT TO THE STRUCTURE.	ENTS OF THE LABORATORY
 BRACKETS, STRUT PLATES & CONCRETE ANCHORS SHALL BE BY THE CONTRACTOR. 	E PROVIDED AND INSTALLED Illiam Staehlin
	Q DATE: 08/29/2024
	VIA BUILDING COV
	OILDIN

SHEET TITLE: TABLE OF CONTENTS

Abbott

ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK ABBOTT INTERFACES SUPPORTS & ATTACHMENTS FOR RBI ALINITY h & RBI ALINITY s



CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833

TEL (916) 920-202 www.cyseng.coi

			\sim	REG(5)	No. S4346	
	Rev	Description	Date	Job No:	20097.08	
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				By:	CYS	
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<u>GENERA</u>	L NOTES:																		
1. THIS (CALIFORNIA DEPARTMENT OF HE	EALTH CARE AC	CESS & I	NFORMATION	(HCAI) OFF	ICE OF	STATEWIDE			4 BOLTS TH	ROUGH CO	NC ON MTL D	FCK·						
	TAL PLANNING & DEVELOPMENT							м)				E TORQUED B			NUT AFTER				
	SED ON THE CBC 2022.	· · · ·					· ·				THE SNUG	TIGHT CONDIT	ION IS DEF	FINED AS	S THE TIGHT	INESS REC) TO BRIN	IG THE CON	INFCTED
THE D	EMAND (DESIGN FORCES) FOR	USE W/ THIS	OPM SHA	LL BE BASED	ON THE (CBC 202	22.				S INTO FIRM								
	THE RESPONSIBILITY OF THE S							го				ES SHALL BE	۶ IARGE	R THAN	BOLT SIZE	(HOLE SI	7F = BOI	T SIZE +	Ke")
VERIFY										C THRI	J-BOLTS IN	CONC SHALL	RECEIVE S		INSPECTION	& TESTIN	G IN ACC	ORDANCE W	
	HE ADEQUACY OF THE NEW OR	R (E) STRUCTUR	RE TO RES	SIST THE FOR	CES & WT	SPECIFI	ED FOR EA	СН				FOR POST-INS							
	QUIP IN ADDITION TO ALL OTHE											<u>T</u> REQUIRE TE		chors.	THRO-DOLI	5 W/ 31L	IU JIL	CONNECTION	
	HAT THE FLR ANCHORS ARE LO											TO BOTT OF							
	PENINGS.											CC ESR-4266				49F 1 9F	FTARIE		
C. Tł	HAT THE FLR ANCHORS ARE LO	OCATED AT AN	ADEQUATE	DISTANCE FF	ROM ANY N	IEW OR	(E) ANCHO	RS.				00 LSN 4200) TENSION			AJL 1, JL		Z DLLOW.	
	HE SPACING SHOWN IN THE TE									TABLE 2									
	HE GIVEN DIA ANCHORS. THE F		ROM ANCH	HORS OF OTH	ER DIA &	EMBEDM	IENTS MAY									MIN			ן ו
	ARY & SHALL BE EVALUATED E									CONDITION	ANCHOR	INSTALLATION	EFFECTIVE	HOLE	MIN CONC	CONC		MAX	
	HAT THE INSTALLATION IS IN CO	ONFORMANCE W	N/ THE CI	BC 2022 & V	V/ THE DTI	LS SHOV	WN IN THIS			OF	DIA	EMBED	EMBED	DEPTH	THICKNESS	EDGE	SPACING	MAX INSTALLATION TORQUE	
	RE-APPROVAL.									ANCHORAG	E (INCH)	(INCH)	(INCH)	(INCH)	(INCH)	DISTANCE	(INCH)		
	HAT THE ACTUAL EQUIP'S WT, (da	hnom	`hef ´	`ho ́	h _{min}	(INCH)		(FT-LBS)	
	TLS, & THE MATERIAL & GA OI				RE MADE, A	AGREE W	/ THE				_					(
	FORMATION SHOWN ON THE PF						C()	K CO	υς (CASE 1	1/4	13⁄4	11/2	2	31/4	1*	10*	4	
	HAT THE CONC SLAB TO WHICH		S ANCHOR	ED SHALL ME	ET THE RE	QUIREME	ENTS OF TH	E	XXXXX										J
	PPLICABLE ICC REPORT & THIS									* SEE <u>PG 4</u>	<u>101</u> in this	OPM & FIGU	RE 5B IN I	ESR-42	66				
	SION ANCHORS INSTALLED IN I				_ HILII KB-	-122 EX	PANSION												
	DRS COMPLYING W/ ESR-4266					\mathcal{L}				6. TWO (2	2) CASES O	F ATTACHMENT	ARE SPEC	CIFIED &	PRESENTED) in this	PRE-APP	ROVAL:	
	STALLATION: INSTALL THE EXPA										1								
	HE ICC EVALUATION REPORT FO					SIVEN IN	THE TABLE		(07	z/h	1								
	N THIS PG. PROVIDE FULL THR							PM-0	697	2/11					HMENT DETA				
	DB TESTING: FOR VERIFYING SA							NG			ROOF	`			DG. THE FLF				
	ACCORDANCE W/ THE TEST L									2/3	3RD FL	R			PING OVER				
	SPECTOR & REPORT OF TEST							illiam S	taehlir						ANCHORS	SHALL BE	A325 SI		
	WNER & ARCHITECT OR ENGINE								laciiii	<u>}</u>	2ND FL	R N	CONC F	ILL & N	MTL DECK.				
	LL ANCHORS. THE TEST SHALL									0	DAGE								
	AY BE DONE PRIOR TO EQUIP										BASE	-			HMENT DETA				BASE OF
	STALLATION TORQUE AFTER EQ							$\cdot 08/2$	29/20	$124 0^{-1}$	BASEMEI	JT /			TLRS ARE AS				
	OST-INSTALLED ANCHORS IN C						JATL					<u> </u>			LAB (f'c =				
	AILURE/ACCEPTANCE CRITERIA:		G CRITFRIA	APPLIES FOR	R THE ACC	FPTANCE	OF			CEREFERE	BLDG EL			11110 01					
	STALLED ANCHORS:									AAAAA V									
•	TORQUE WRENCH METHOD:	THE APPLICABL	E TEST TO	RQUE MUST	BE REACHE	D W/IN	THE		-AAAA	7. THIS P	RE-APPROV	AL MAY BE US	SED AT AN	Y GEOGF	RAPHICAL LO	CATION IN	THE STA	TE OF CALI	FORNIA
	FOLLOWING LIMITS: WEDGE T						MANN			WHERE	S _{DS} & z/h	ARE LESS TH	IAN OR EQ	UAL TO	THE DESIGN	CRITERIA	ON <u>PG</u>	<u>103</u> .	
	ONE-HALF (½) TURN OF TH	IE NUT.				$\backslash \gamma$													
D. A	VOID DAMAGING (E) STL REINF	IN CONC SLAE	3 WHEN IN	ISTALLING CO	NC EXPANS	ION ANC	CHORS.			0									
	EST VALUES: APPLY TEST LOAD							1111	TVI(1										
	ASE 2, SEE TABLE 1 BELOW.							UILL											
																		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	000000
	┍──┊╌╄═╋╧╴╴╲╴╴╲╴╴	TABLE 1						1		· · · · · · · · · · · · · · · · · · ·								BOI	ESS/ON
					EFFECTIVE	HOLE	MIN CONC	MIN										A DED .	
00110	h hnom			INSTALLATION EMBED	EMBED		THICKNESS	CONC		TEST LOAD								A Stranger	S / K
		OF		(INCH)	(INCH)	(INCH)	(INCH)			TORQUE								10 10 10	
EDGE		ANCHORAGE	(INCH)	hnom	hef		6	DISTANCE	(INCH)	(FT–LBS)							$\frown$	No No	S4346
			da	nnom	nei	ho	^{rn} min	(INCH)									$\langle \rangle$		J. Q.
		CASE 0	1/		2	∩3/	A	10	<b>51</b> /	50							1	A to Jy	RAV *
		CASE 2	1/2	21⁄2	2	2¾	4	12	51⁄2	50								No Crain Charles	CTUN
																		OF TE OF	CALIFON
	K X 2222 2.0.1.1.02																	NOT	SEOR
															Deceminatio		Data		
DHEET TITLE:	GENERAL NOTES													Rev	Descriptio	on		Job No:	20097.08
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	ABBOTT AUTOMATION			YSTEMS TR	ACK		🔥 C	YS STF	RUCTL	JRAL ENG	SINEER	S, INC.						By:	CYS
	ABE	BOTT INTERF	ACES			-				RIVE, SUITE 65		•	916) 920-202	20					
Abbott	SUPPORTS & ATTACHME	ENTS FOR RB	<u>BI A</u> LINIT`	<u>Y h &amp;</u> RBI AL	INITY s			CRAMENT				,	v.cyseng.co					Page:	102 of -
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DESIGN CRITERIA	ABBREVIA
SUPPORT & ATTACHMENT DESIGN IS PER 2022 CBC AT LRFD LEVEL FORCES.	@ ABV
OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6–1 OF ASCE 7–16 INCLUDING SUPPLEMENT $\#1$ & ERRATA:	ASME ASTM
$S_{DS} = 2.00$ $a_p = 1.0$ $R_p = 1.5$ $I_p = 1.5$ $\Omega_0 = 1.5$ (CONC ANCHORS)	
₩ _P AS NOTED ON COMPONENT BASE PLAN & ELEV. SEE PGS 201 - 202	BLDG BLW
FOR CASE 1 – UPPER FLRS ABV THE BASE, z/h $\leq$ 0.8 (LRFD) F _p = 2.08 Wp F _v = 0.40 Wp	BRCG CBC CG
FOR CASE 2 - SLAB AT OR BLW BASE, z/h = 0 (LRFD) Fp = 0.300 Wp Fv = 0.40 Wp V = 0.40 Wp	Q CONC COORD DBL DIA (Ø) (E) ELEV EN EQUIP ES f'c FLR FT (') Fy GA HCAI IN (") KSI LBS LLH LLV LRFD MAX MFR MIN mm MTL NO. (#) NWC

BBREVI	ATIONS:
	AT
3V	ABOVE
SME	AMERICAN SOCIETY OF MECHANICAL
	ENGINEERS
STM	AMERICAN SOCIETY FOR TESTING &
	MATERIALS
DG	BUILDING
W	BELOW
RCG	BRACING
3C	CALIFORNIA BUILDING CODE
3	CENTER OF GRAVITY
	CENTERLINE
ONC	CONCRETE
DORD	COORDINATE
BL	DOUBLE
A (Ø)	DIAMETER
)	EXISTING CONDITION
.EV	ELEVATION
	EDGE NAILING/EDGE FASTENING
UIP	EQUIPMENT
5 $N$	EACH SIDE
	MINIMUM ULTIMATE COMPRESSIVE
	STRENGTH OF CONCRETE
.R	FLOOR
(')	FOOT/FEET
	SPECIFIED MINIMUM YIELD
	STRESS OF STEEL
	GAUGE
	DEPARTMENT OF HEALTHCARE ACCESS
	AND INFORMATION (aka OSHPD)
(")	INCH
SI SI	KIPS PER SQUARE INCH
S S	POUNDS
θ <u>/</u>	
¥4	LONG LEG HORIZONTAL LONG LEG VERTICAL
RFD	LOAD AND RESISTANCE FACTOR DESIGN
AX	MAXIMUM
R	MANUFACTURER
N	MINIMUM
	MILLIMETER
	METAL
m 「L ).(#)	NUMBER OR POUNDS
VC	NORMAL WEIGHT CONCRETE

SHEET TITLE: DESIGN CRITERIA & ABBREVIATIONS

ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK ABBOTT INTERFACES SUPPORTS & ATTACHMENTS FOR RBI ALINITY h & RBI ALINITY s



CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 TEL SACRAMENTO, CA 95833

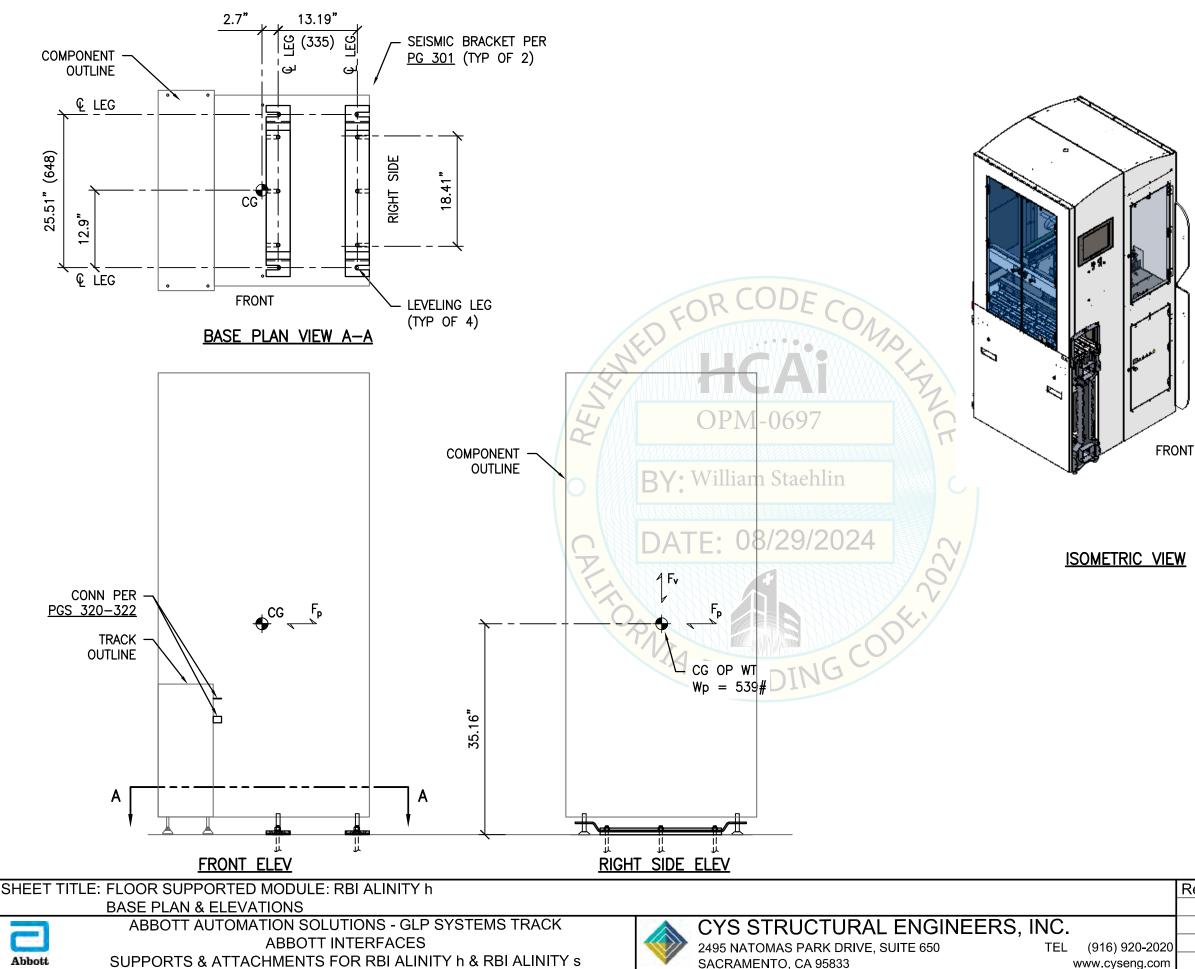
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OPP OSHPD	OPPOSITE OFFICE OF STATEWIDE HOSPITAL PLANNING & DEVELOPMENT
PG	PAGE
ዋ	PLATE
PSI	POUNDS PER SQUARE INCH
SCHED	SCHEDULE
SEOR	STRUCTURAL ENGINEER OF RECORD
SLWC	SAND-LIGHTWEIGHT CONCRETE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE AT LRFD
THK	THICK/THICKNESS
THRD	THREAD OR THREADED
TYP	TYPICAL
Vu	ANCHORAGE SHEAR REACTION DUE TO
VERT	SEISMIC FORCE AT LRFD VERTICAL
W/	WITH
Wp	OPERATING WEIGHT
WT	WEIGHT

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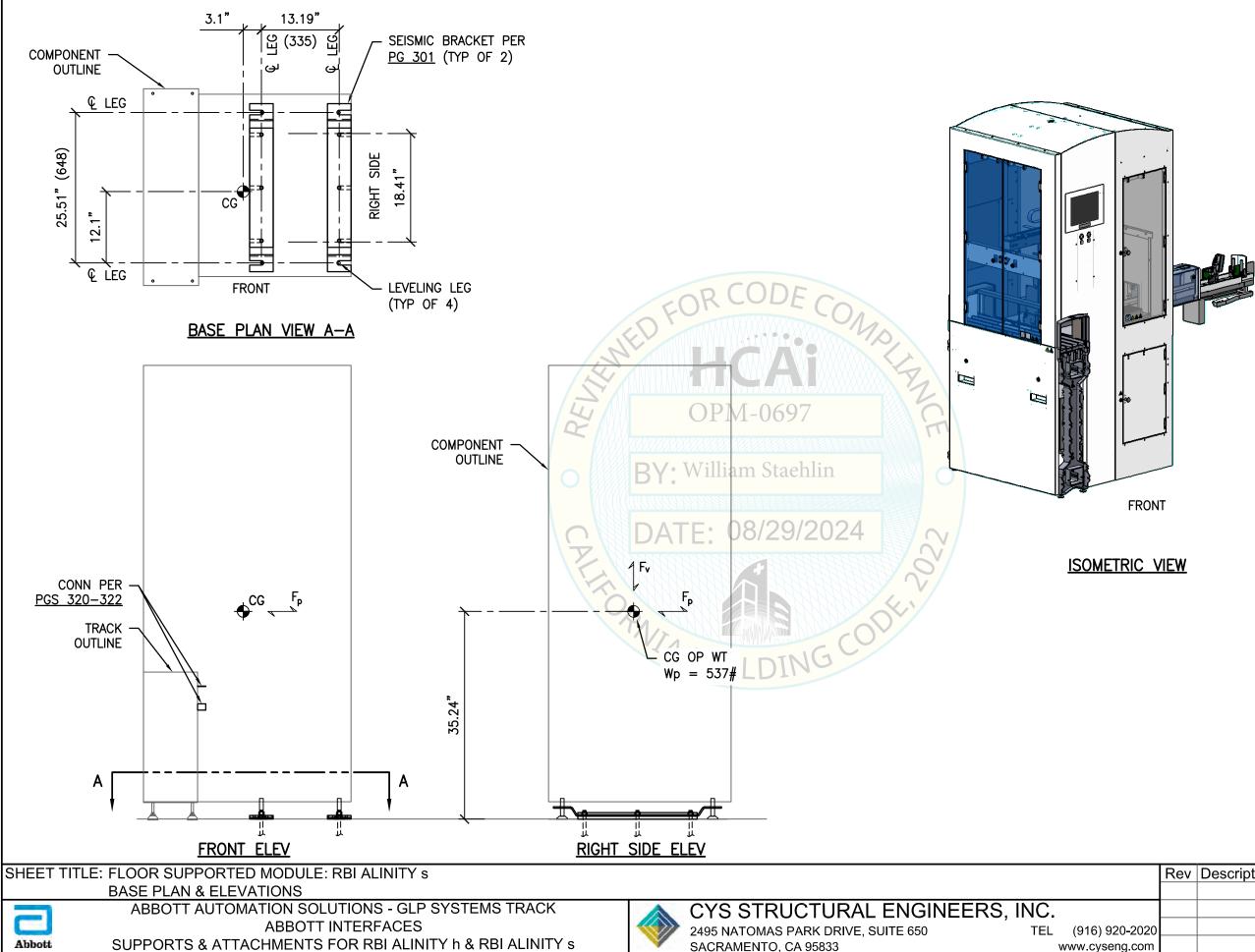
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# MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	Cmax	Vmax
CASE 1 ¹	1769#	2200 <b>#</b>	422 <b>#</b>
CASE 2 ²	1179#	1610 <b>#</b>	274#

- 1. OVERSTRENGTH FACTOR ( $\Omega_0$ ) MUST BE APPLIED FOR ANCHORAGE TO CONC.
- 2. INCLUDES OVERSTRENGTH FACTOR **(**Ω₀).

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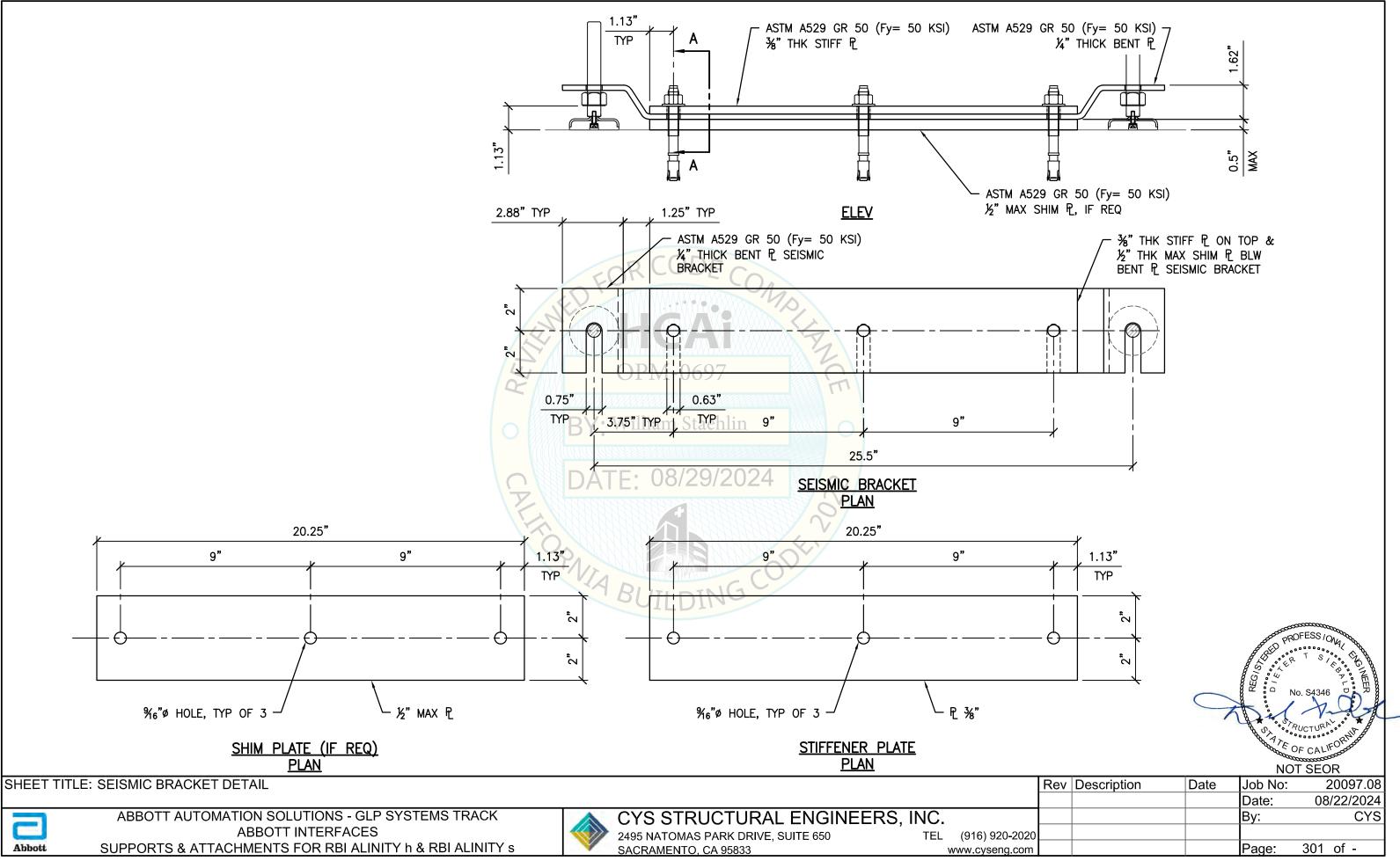
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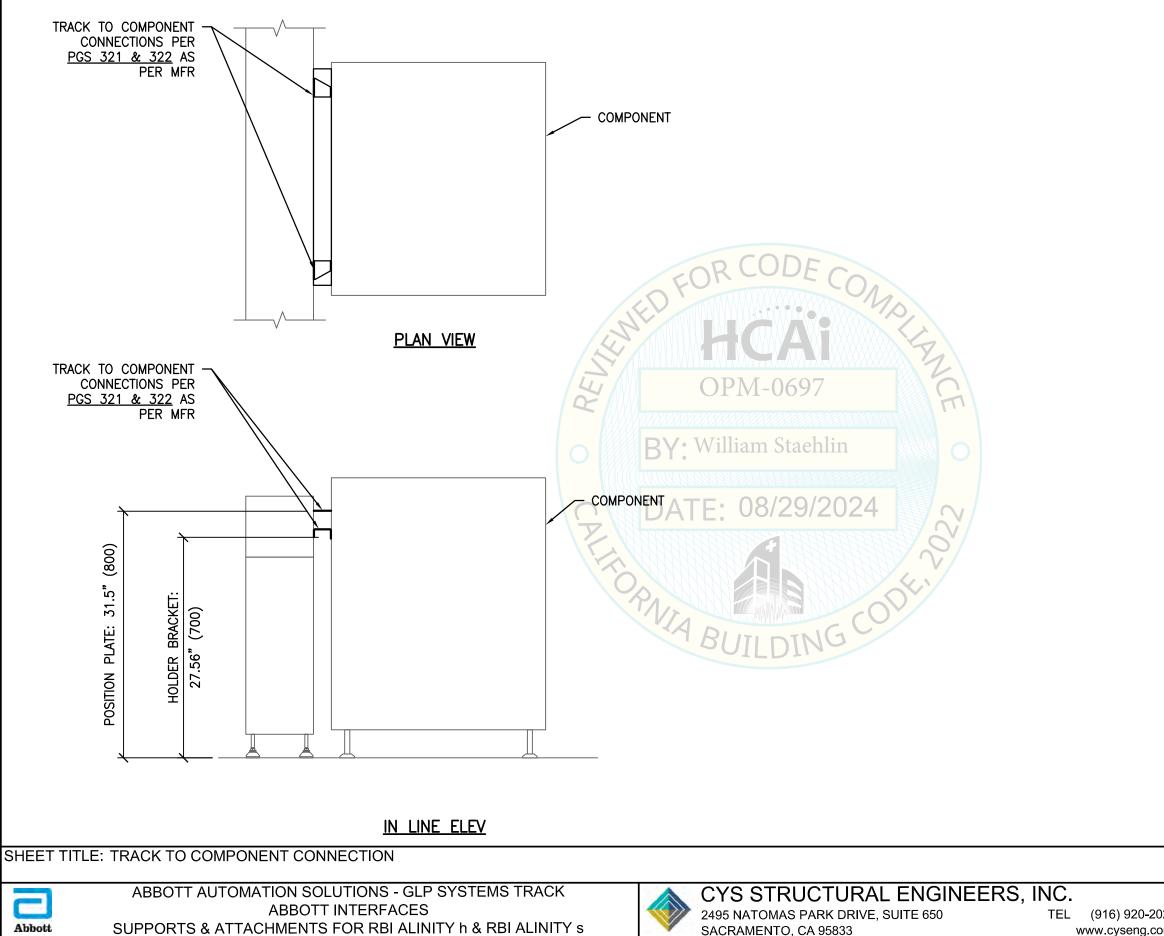
# MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	Cmax	Vmax		
CASE 1 ¹	1792#	2222 <b>#</b>	423 <b>#</b>		
CASE 2 ²	1203#	1632 <b>#</b>	274#		

- 1. OVERSTRENGTH FACTOR ( $\Omega_0$ ) MUST BE APPLIED FOR ANCHORAGE TO CONC.
- 2. INCLUDES OVERSTRENGTH FACTOR **(**Ω₀).

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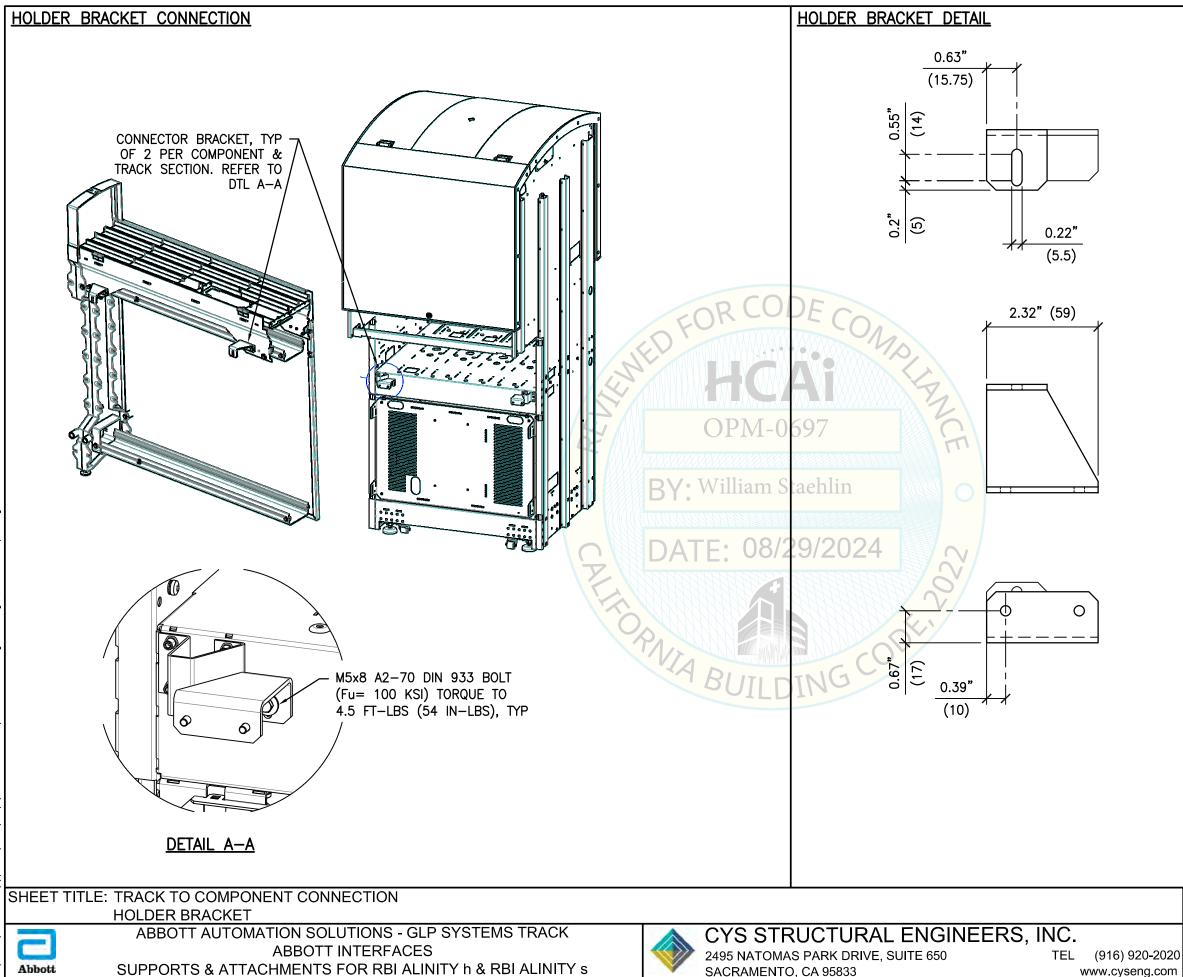


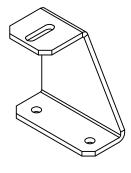
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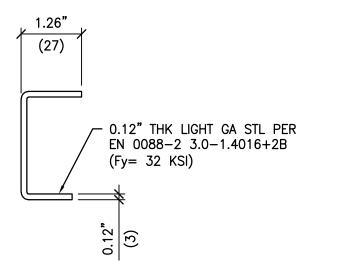
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OPM-0697: Reviewed for Code Compliance by William E Staehlin

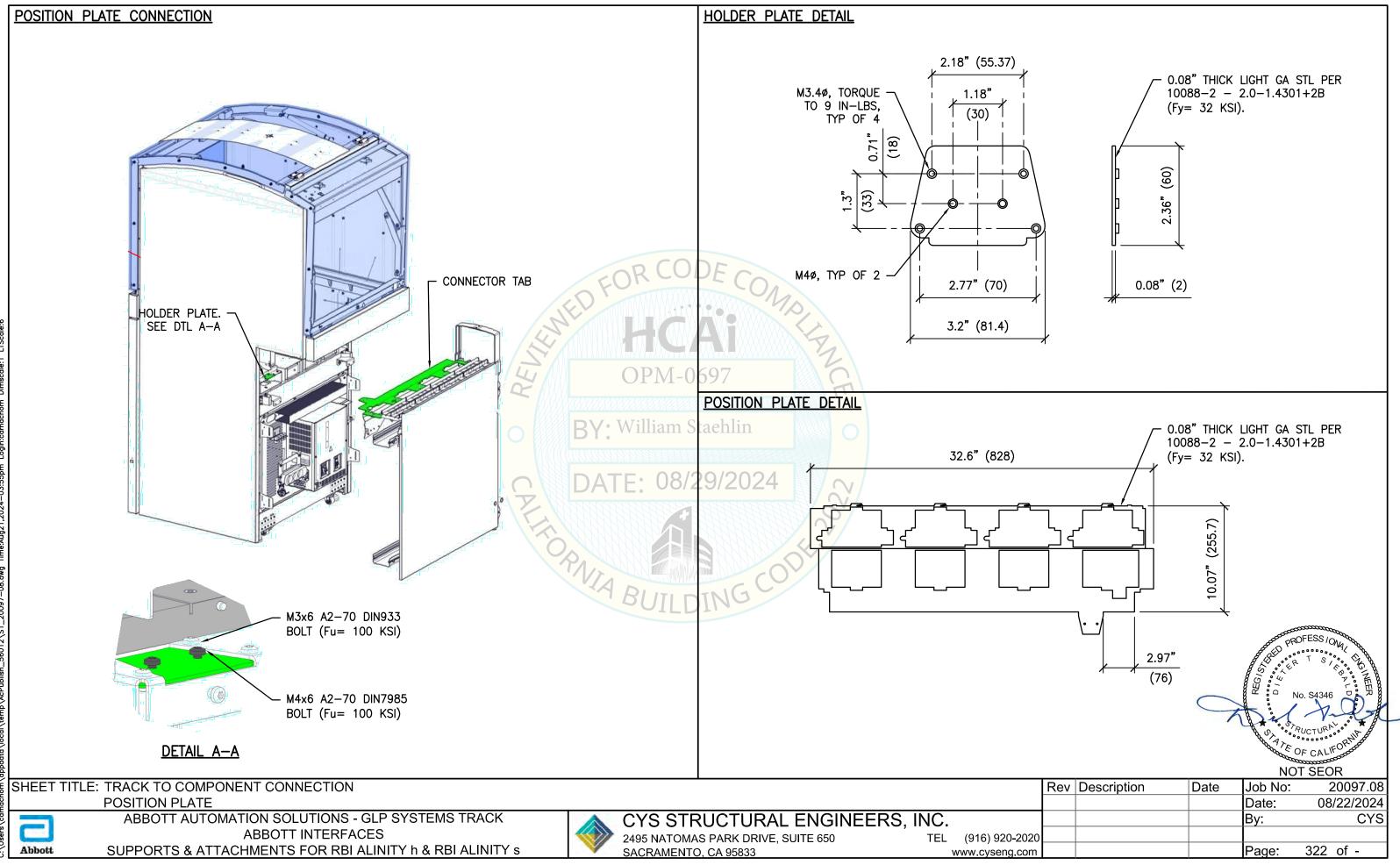
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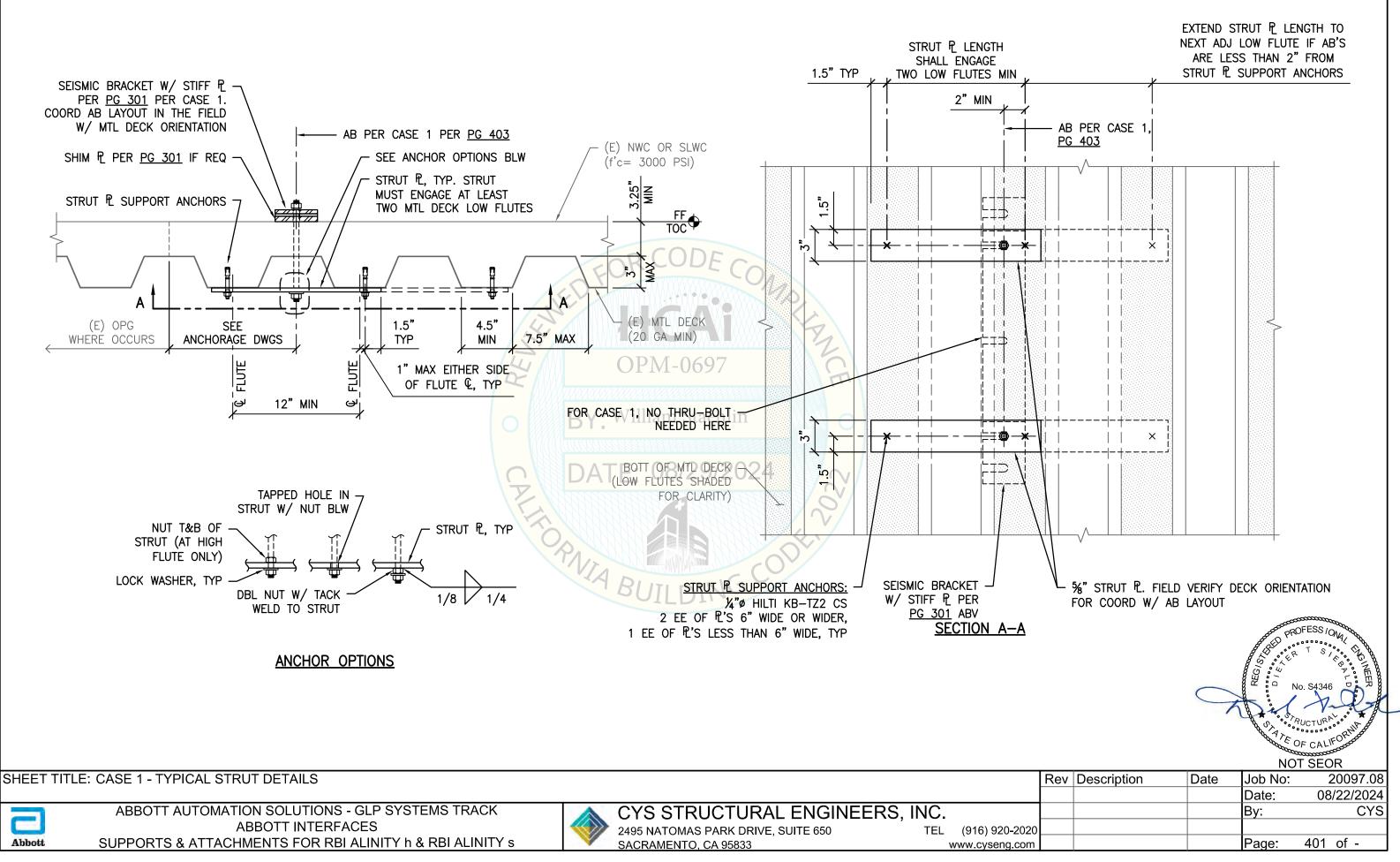




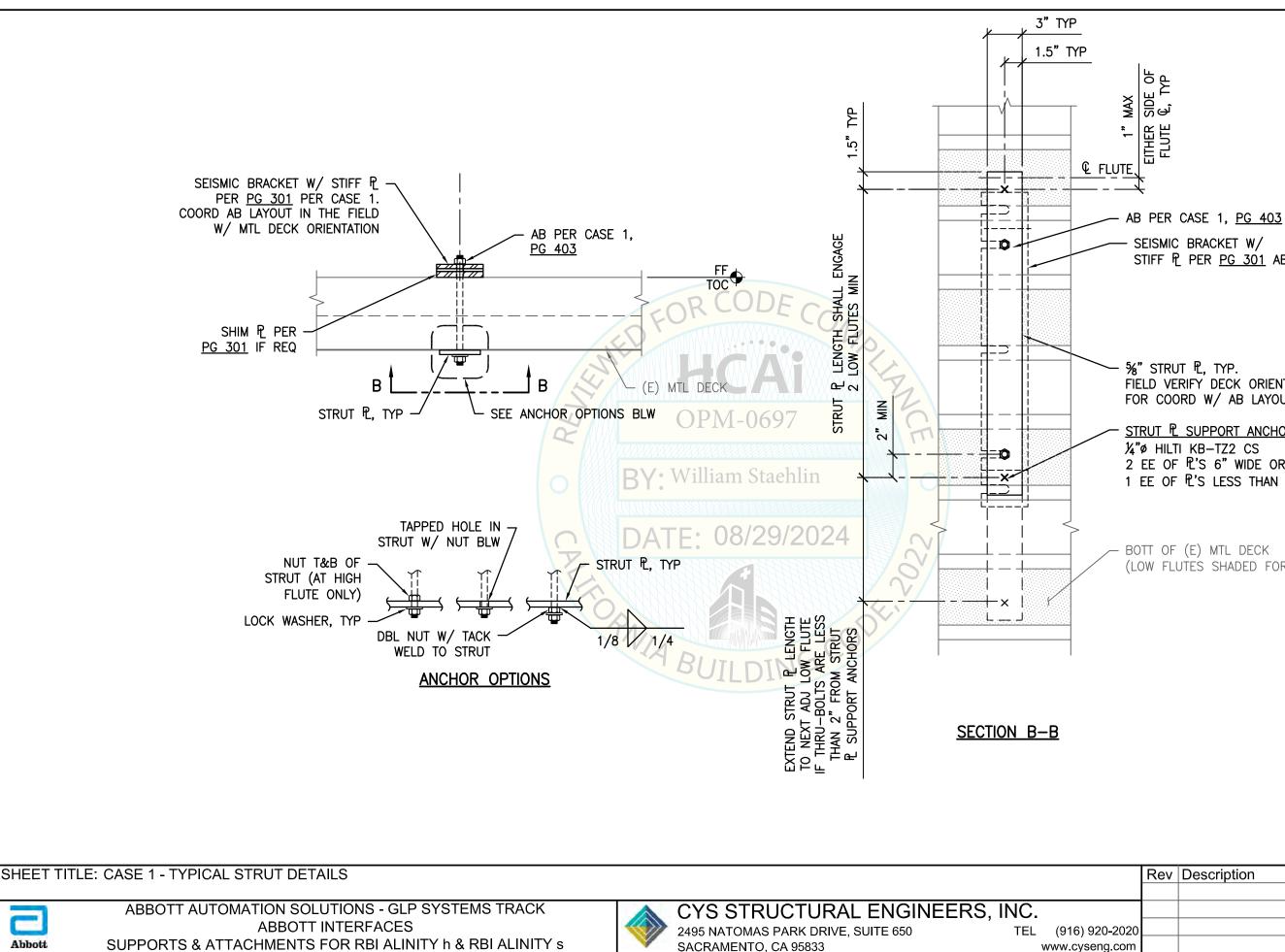


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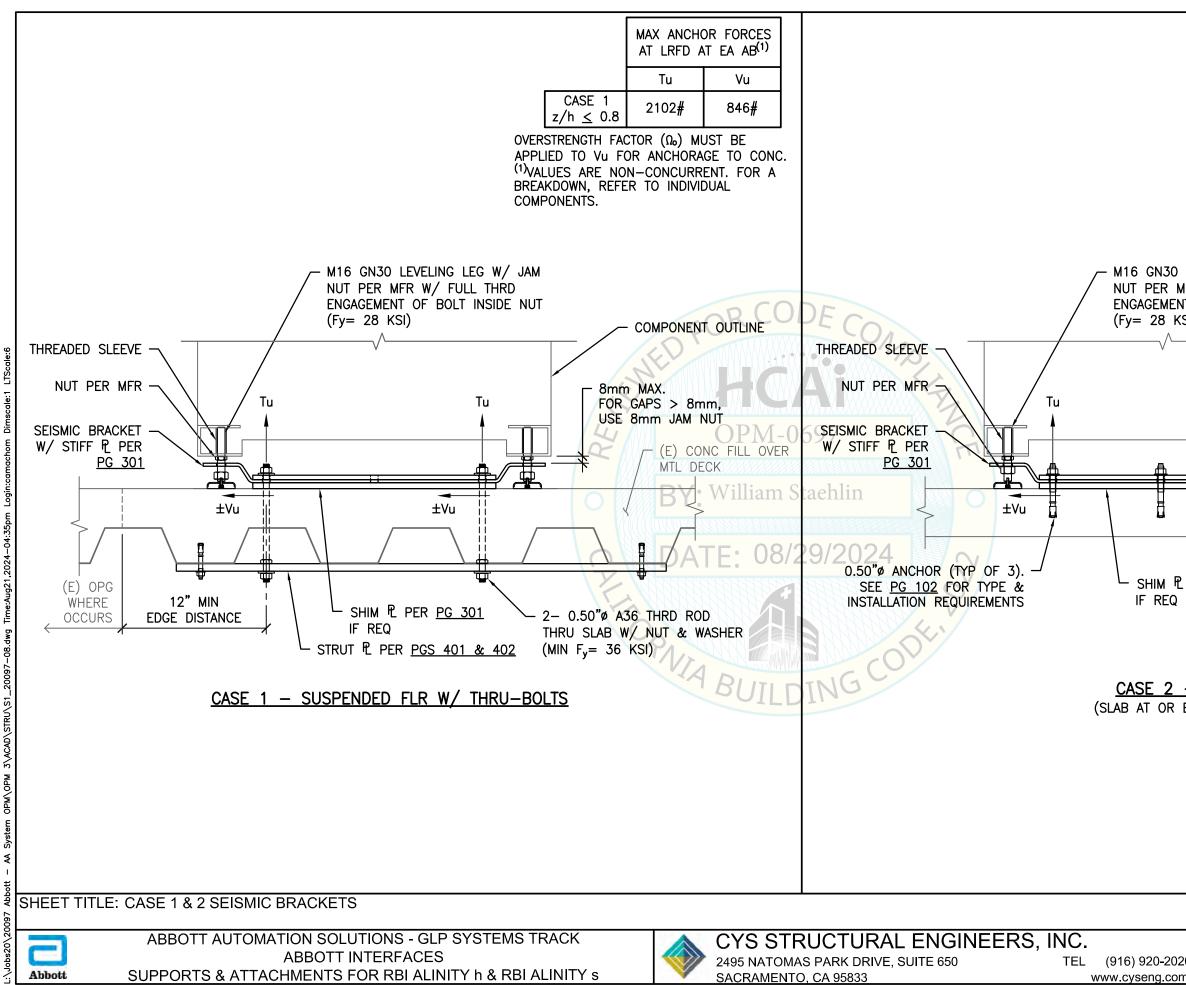
BOTT	OF (	E)	MTL	DEC	K	
(LOW	FLUT	ES	SHA	DED	FOR	CLARITY)

STRUT PL SUPPORT ANCHORS: ¼"ø HILTI KB-TZ2 CS 2 EE OF PL'S 6" WIDE OR WIDER, 1 EE OF PL'S LESS THAN 6" WIDE

‰" STRUT ₽, TYP. FIELD VERIFY DECK ORIENTATION FOR COORD W/ AB LAYOUT

SEISMIC BRACKET W/ STIFF P PER PG 301 ABV

SIDE OF C, TYP EITHER FLUTE



			OR FORCES AT EA AB ⁽¹⁾
		Tu	Vu
	ASE 2 h = 0	1411#	365 <b>#</b>
INCLUD (1)VALU	ES OVER ES ARE AKDOWN,	STRENGTH F NON-CONCU REFER TO	IRRENT. FOR
LEVELING LEG W/ JAM MFR W/ FULL THRD NT OF BOLT INSIDE NUT (SI)		COMPONEN	T OUTLINE
	FOR		
±Vu []			
<u>– SOG</u> BLW GRADE)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	constant.
	0	STATE O	F CALIFOR
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