



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0626

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: [] New [X] 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

OPM-0626

Product Type: AUTOMATED PRE/POST ANALYTICAL PROCESSING LABORATORY INSTRUMENTS

Product Model Number: MODULES: IOM, TUBE ASSESSMENT, BULK LOADER, CENTRIFUGE, DECAPPER-SINGLE, DECAPPER-DOUBLE, ALIQUOT, RECAPPER-SINGLE, RECAPPER-DOUBLE, REMOVER-SMALL, REMOVER SMALL LARGE, SCREWCAPPER, BUFFER; TRACK SECTIONS: STRAIGHT 20CM, STRAIGHT 40CM, STRAIGHT 80CM, STRAIGHT END, CURVED 90, CURVED 180, U-TURN SINGLE 40, U-TURN DOUBLE, T ACTIVE NO LOOP, T INACTIVE PASSIVE NO LOOP, ROUNDABOUT 3-WAY, ROUNDABOUT 4-WAY; ANALYZER INTERFACES: SAL ALINITY ci T-RIGHT, SAL ARCHITEC i2000SR, SAL ARCHITECT c16000, RBM SYSMEX XN9000/9100, RBI STAGO STA-R MAX2, RBI THERMO PHADIA 250, IL-SAL LIAISON XL

General Description: THE ABBOTT AUTOMATED SOLUTIONS IS A MODULAR SYSTEM DESIGNED TO AUTOMATE PRE-ANALYTICAL AND POST-ANALYTICAL PROCESSING, SAMPLE-HANDLING, AND PROCESSING IN THE LABORATORY. THE SYSTEM CONSOLIDATES MULTIPLE ANLAYTICAL INSTRUMENTS INTO A UNIFIED WORKSTATION BY EMPLOYING A COMMON SAMPLE PROCESSING CAPABILITY.

Applicant Information

Applicant Company Name: CYS Structural Engineers, Inc.

Contact Person: Dieter Siebald

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

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



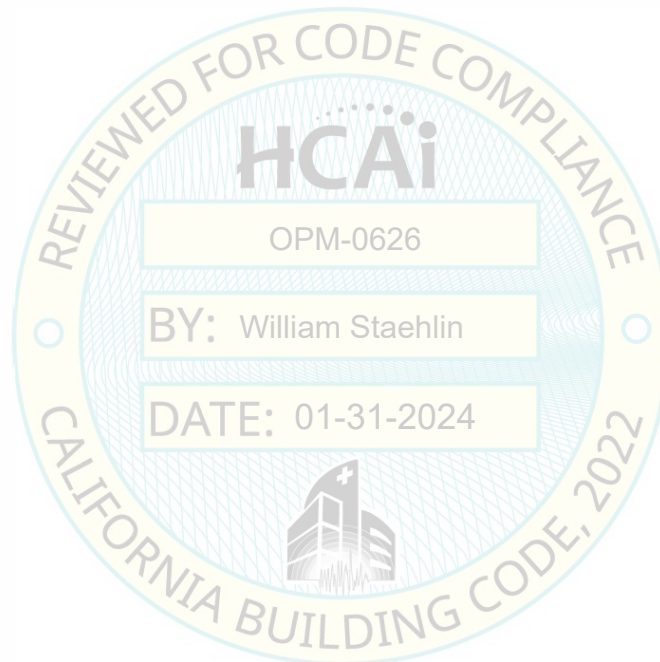


**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

Telephone: (916) 920-2020

Email: dieters@cyseng.com

Title: Structural Project Manager



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

Registered Design Professional 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: _____

Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950-16

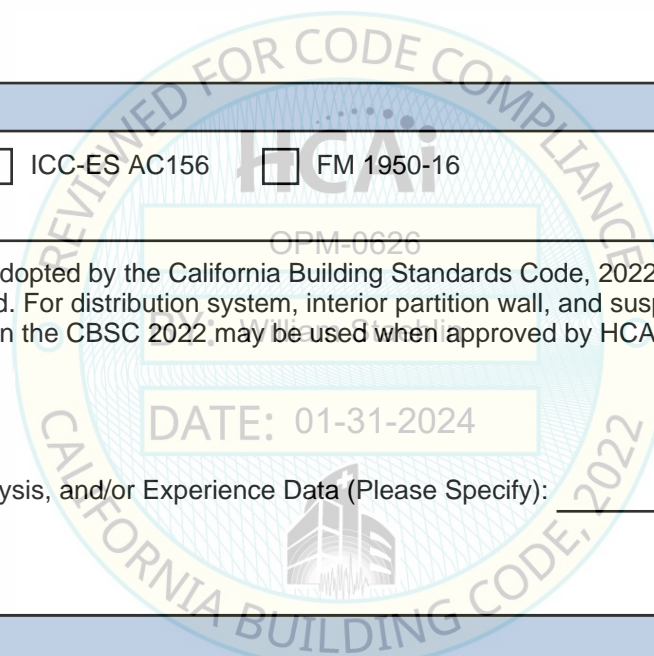
Other(s) (Please Specify): _____

*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: 01/31/2024

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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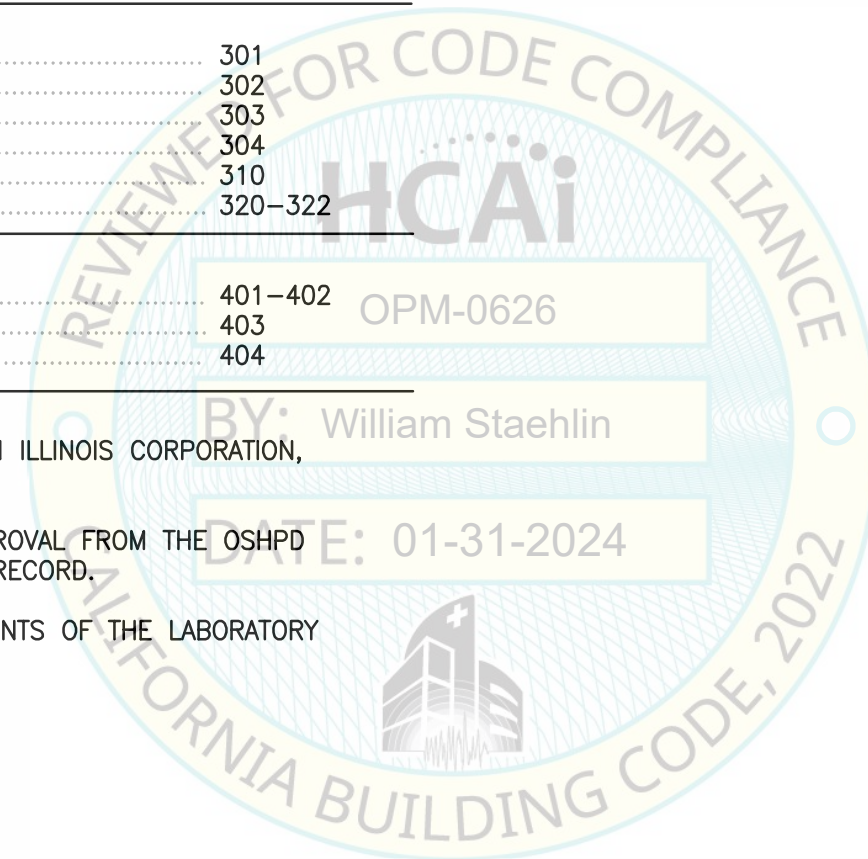
OPM-0626
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NOTES:

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: 20097.02 Date: 10/03/2023 By: CYS Page: 101
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS	CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com		

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GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2022 "A" CHAPTERS. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2022 "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 2022 "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 REISSUED DECEMBER 2021, REVISED MAY 2023.
 - 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 TABLE 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 2022 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 TABLE BELOW.

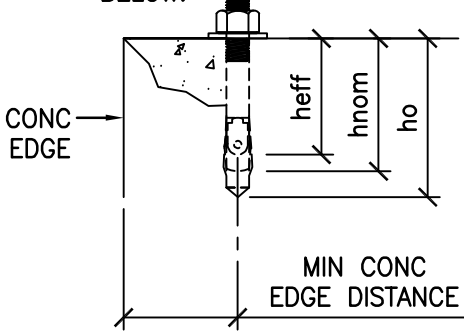


TABLE 1

CONDITION OF ANCHORAGE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) h _{min}	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST LOAD TORQUE (FT-LBS)
CASE 2	1/2	2 1/2	2	2 3/4	4	12	5 1/2	50

GENERAL NOTES CONTINUED:

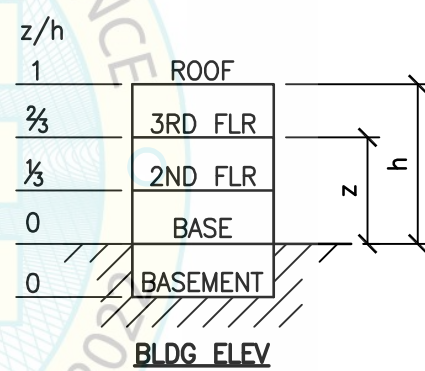
4. BOLTS THROUGH CONC ON MTL DECK:
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - B. THRU-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE 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) TENSION TEST LOAD FOR CASE 1.

TABLE 2

CONDITION OF ANCHORAGE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) h _{min}	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	MAX INSTALLATION TORQUE (FT-LBS)
CASE 1	1/4	1 3/4	1 1/2	2	3/4	1*	10*	4

* SEE PG 401 IN THIS OPM & FIGURE 5B IN ESR-4266

6. TWO (2) 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 ≤ PER COMPONENT SCHED ON PG 201). 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 OR BLW THE BASE OF A BLDG (z/h=0). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB (f'c = 3000 PSI, MIN).

7. THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA WHERE S_{DS} IS LESS THAN OR EQUAL TO VALUES PUBLISHED IN COMPONENT SCHED ON PG 201.



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ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



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

DESIGN CRITERIA

SUPPORT & ATTACHMENT DESIGN IS PER 2022 CBC AT LRFD LEVEL FORCES.

OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6-1 OF ASCE 7-16 INCLUDING SUPPLEMENT #1 & ERRATA:

$\phi_p = 1.0$ $R_p = 1.5$ $I_p = 1.5$ $\Omega_o = 1.5$ (CONC ANCHORS)

W_p AS NOTED ON COMPONENT SCHEDULE ON PG 201

FOR CASE 1 - UPPER FLRS ABV THE BASE, $z/h \leq$ PER COMPONENT SCHEDULE OF PG 201

S_{Ds} = PER COMPONENT SCHEDULE OF PG 201

FOR CASE 2 - SLAB AT OR BLW BASE, $z/h = 0$

S_{Ds} = PER COMPONENT SCHEDULE OF 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)

FRACTION & UNIT CONVERSIONS

FRACTION	DECIMAL	mm
1/32	0.03	0.8
1/16	0.06	1.6
3/32	0.09	2.4
1/8	0.13	3.2
5/32	0.16	4.0
3/16	0.19	4.8
7/32	0.22	5.6
1/4	0.25	6.4
9/32	0.28	7.1
5/16	0.31	7.9
11/32	0.34	8.7
3/8	0.38	9.5
13/32	0.41	10.3
7/16	0.44	11.1
15/32	0.47	11.9
1/2	0.50	12.7

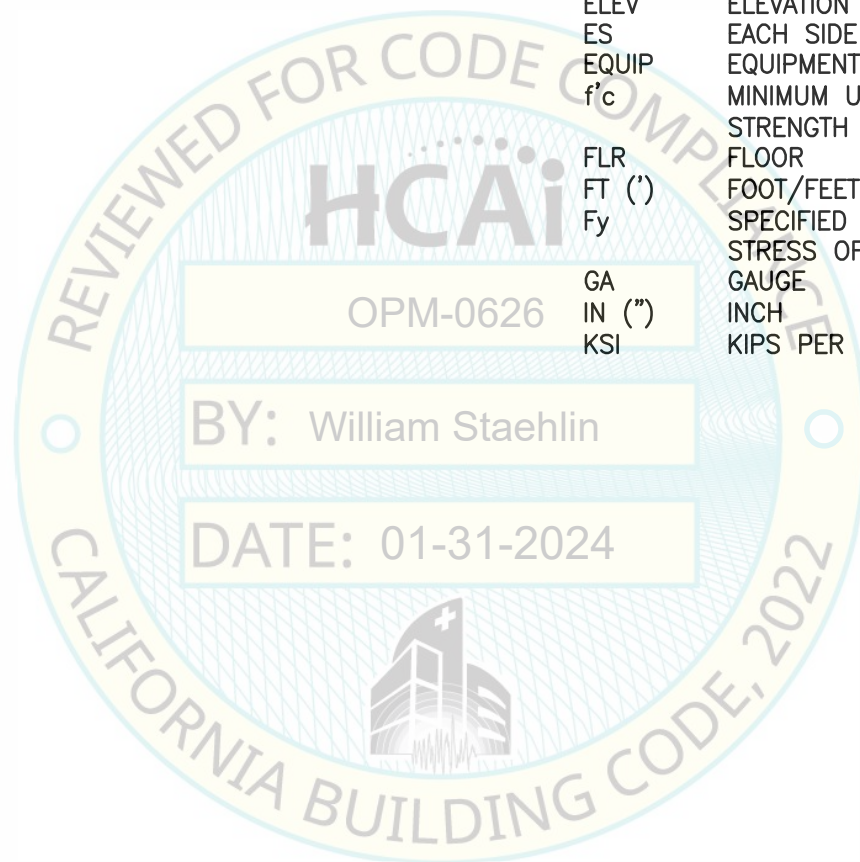
FRACTION	DECIMAL	mm
17/32	0.53	13.5
9/16	0.56	14.3
19/32	0.59	15.1
5/8	0.63	15.9
21/32	0.66	16.7
11/16	0.69	17.5
23/32	0.72	18.3
3/4	0.75	19.1
25/32	0.78	19.8
13/16	0.81	20.6
27/32	0.84	21.4
7/8	0.88	22.2
29/32	0.91	23.0
15/16	0.94	23.8
31/32	0.97	24.6

ADDED TABLE FOR INFORMATION ONLY

ABBREVIATIONS:

@	AT
ABV	ABOVE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
BLDG	BUILDING
BLW	BELOW
CBC	CALIFORNIA BUILDING CODE
CG	CENTER OF GRAVITY
CL	CENTERLINE
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
DBL	DOUBLE
DIA (φ)	DIAMETER
(E)	EXISTING CONDITION
EA	EACH
ELEV	ELEVATION
ES	EACH SIDE
EQUIP	EQUIPMENT
f'c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE
FLR	FLOOR
FT (')	FOOT/FEET
Fy	SPECIFIED MINIMUM YIELD STRESS OF STEEL
GA	GAUGE
IN (")	INCH
KSI	KIPS PER SQUARE INCH

LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NO. (#)	NUMBER OR POUNDS
NWC	NORMAL WEIGHT CONCRETE
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
PSI	POUNDS PER SQUARE INCH
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
THRD	THREAD OR THREADED
TYP	TYPICAL
Vu	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE AT LRFD
W/	WITH
Wp	OPERATING WEIGHT
WT	WEIGHT



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SHEET TITLE: DESIGN CRITERIA & ABBREVIATIONS



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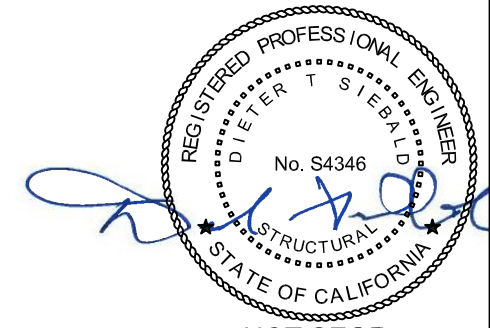
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PAGE NO.	COMPONENT	ABBREV	LEVELING FOOT DIMS		CG LOCATION W/O TRACK ⁽¹⁾			WEIGHT	CG LOCATION W/ TRACK			WEIGHT	MODULE TYPE (FOOT FRAME)					ANCHOR P/ BRACKET	SEISMIC DESIGN VALUES	
			WIDTH	DEPTH	\bar{x}_1	\bar{y}_1	\bar{z}_1	(W _p)	\bar{x}_2	\bar{y}_2	\bar{z}_2	(W _p)	CENTRIFUGE	40 BASIC	80 BASIC	ATTACHMENT/SUBMODULE	MODULE/TRACK HYBRID		S _{DS}	z/h (CASE 1)
210.01	IOM MODULE	IOM	25.20"	22.83"	12.89"	13.74"	36.63"	587#	12.89"	15.84"	36.63"	670#			X			PG 301	1.80	0.90
210.02	TUBE ASSESSMENT CENTRE	TAC	N/A	N/A	N/A	N/A	N/A	131#	N/A	N/A	N/A	131#				X		PG 210.02	1.80	0.90
210.03	TUBE ASSESSMENT MODULE	TAM	25.20"	22.83"	13.20"	13.74"	36.91"	587#	13.20"	15.84"	36.91"	670#			X			PG 301	1.80	0.90
210.04	BULK LOADER MODULE	BLM	25.20"	22.83"	12.27"	14.72"	35.99"	671#	12.27"	16.47"	35.99"	754#			X			PG 301	1.80	0.90
210.05	CENTRIFUGE MODULE	CM	24.88"	22.64"	12.51"	13.44"	33.88"	1028#	12.51"	14.71"	33.88"	1111#	X					PG 304	1.80	0.90
210.06	DECAPPER MODULE - SINGLE	DM	9.45"	22.83"	4.63"	13.46"	36.33"	462#	4.63"	15.46"	36.33"	523#		X				PG 301	1.80	0.90
210.07	DECAPPER MODULE - DOUBLE	DM DBL	9.45"	22.83"	5.00"	13.36"	36.83"	477#	5.00"	15.32"	36.83"	538#		X				PG 301	1.80	0.90
210.08	ALIQUT MODULE	AM	25.20"	22.83"	12.72"	12.97"	34.63"	684#	12.72"	14.88"	34.63"	767#			X			PG 301	1.80	0.90
210.09	RECAPPER MODULE - SINGLE	RM	9.45"	22.83"	4.53"	13.57"	33.28"	585#	4.53"	15.18"	33.28"	646#		X				PG 301	1.80	0.90
210.10	RECAPPER MODULE - DOUBLE	RM DBL	9.45"	22.83"	4.75"	13.59"	32.83"	587#	4.75"	15.19"	32.83"	648#		X				PG 301	1.80	0.90
210.11	REMOVER MODULE - SMALL	REM S	9.45"	22.83"	4.59"	13.87"	35.97"	460#	4.59"	15.84"	35.97"	520#		X				PG 301	1.80	0.90
210.12	REMOVER MODULE - SMALL LARGE	REM SL	9.45"	22.83"	4.67"	14.04"	36.07"	486#	4.67"	15.89"	36.07"	547#		X				PG 301	1.80	0.90
210.13	SCREWCAPPER MODULE	SCCM	9.45"	22.83"	4.55"	13.37"	33.82"	587#	4.55"	15.00"	33.82"	648#		X				PG 301	1.80	0.90
210.14	BUFFER MODULE	BM	25.20"	22.83"	12.89"	14.36"	37.94"	515#	12.89"	16.63"	37.94"	597#			X			PG 301	1.80	0.90
210.15	STRAIGHT SECTION - 20cm		7.95"	6.69"	3.98"	3.35"	19.33"	26#	N/A	N/A	N/A	N/A							2.50	1.00
210.16	STRAIGHT SECTION - 40cm		15.91"	6.69"	7.95"	3.35"	20.33"	50#	N/A	N/A	N/A	N/A							2.50	1.00
210.17	STRAIGHT SECTION - 80cm		31.81"	6.69"	15.91"	3.35"	20.86"	83#	N/A	N/A	N/A	N/A							2.50	1.00
210.18	STRAIGHT SECTION - TRACK END		SEE PG 210.18		4.57"	3.35"	19.51"	35#	N/A	N/A	N/A	N/A							2.50	1.00
210.19	CURVED 90 SECTION		SEE PG 210.19		12.03"	12.03"	20.33"	81#	N/A	N/A	N/A	N/A							2.50	1.00
210.20	CURVED 180 SECTION		SEE PG 210.20		4.92"	11.73"	20.12"	97#	N/A	N/A	N/A	N/A							2.50	1.00
210.21	U-TURN SINGLE 40		15.91"	6.69"	7.95"	3.35"	20.36"	70#	N/A	N/A	N/A	N/A							2.50	1.00
210.22	U-TURN DOUBLE		31.81"	6.69"	15.91"	3.35"	20.37"	99#	N/A	N/A	N/A	N/A							2.50	1.00
210.23	T-SECTION ACTIVE (NO LOOP)		SEE PG 210.23		15.91"	12.54"	20.91"	88#	N/A	N/A	N/A	N/A							2.50	1.00
210.24	T-SECTION INACTIVE (PASSIVE, NO LOOP)		SEE PG 210.24		15.91"	12.39"	21.63"	90#	N/A	N/A	N/A	N/A							2.50	1.00
210.25	ROUNDAABOUT - 3-WAY		SEE PG 210.25		23.86"	20.87"	24.39"	176#	N/A	N/A	N/A	N/A							2.50	1.00
210.26	ROUNDAABOUT - 4-WAY		SEE PG 210.26		23.91"	23.83"	24.85"	209#	N/A	N/A	N/A	N/A							2.50	1.00
210.27	SAL ALINITY ci T-RIGHT	Alci	SEE PG 210.27		16.00"	7.25"	20.77"	152#	16.00"	7.25"	20.77"	174#						PGS 220 & 310	2.50	1.00
210.28	NOT USED																			
210.29	SAL ARCHITECT i2000SR	i2SR	N/A	N/A	29.25"	4.24"	29.84"	81#	N/A	N/A	N/A	N/A				X		PG 210.29	2.00	0.90
210.30	SAL ARCHITECT c16000	c16	N/A	N/A	36.49"	4.19"	30.07"	88#	N/A	N/A	N/A	N/A				X		PG 210.30	2.00	0.90
210.31	RBM SYSMEX XN9000/9100	XN9 OR RBX	25.20"	22.83"	12.59"	13.91"	36.17"	587#	12.59"	13.91"	15.98"	670#			X			PG 301	1.80	0.90
210.32	RBI STAGO STA-R MAX2	STR	SEE PG 210.32		15.96"	9.64"	40.01"	341#	N/A	N/A	N/A	N/A					X	PGS 220, 302 & 310	2.00	0.90
210.33	RBI THERMO PHADIA 250	P250	SEE PG 210.33		15.59"	12.79"	39.53"	394#	N/A	N/A	N/A	N/A					X	PGS 220, 303 & 310	2.00	0.90
210.34	IL-SAL LIAISON XL	LIA	6.69"	31.81"	17.60"	3.02"	25.90"	73#	N/A	N/A	N/A	N/A						PGS 220 & 310	2.50	1.00

NOTE 1: SYMBOLS ALSO USED FOR COMPONENTS 210.15-210.26, 210.29, 210.30, 210.32, 210.33



NOT SEOR

SHEET TITLE: COMPONENT SCHEDULE				Rev	Description	Date	Job No: 20097.02
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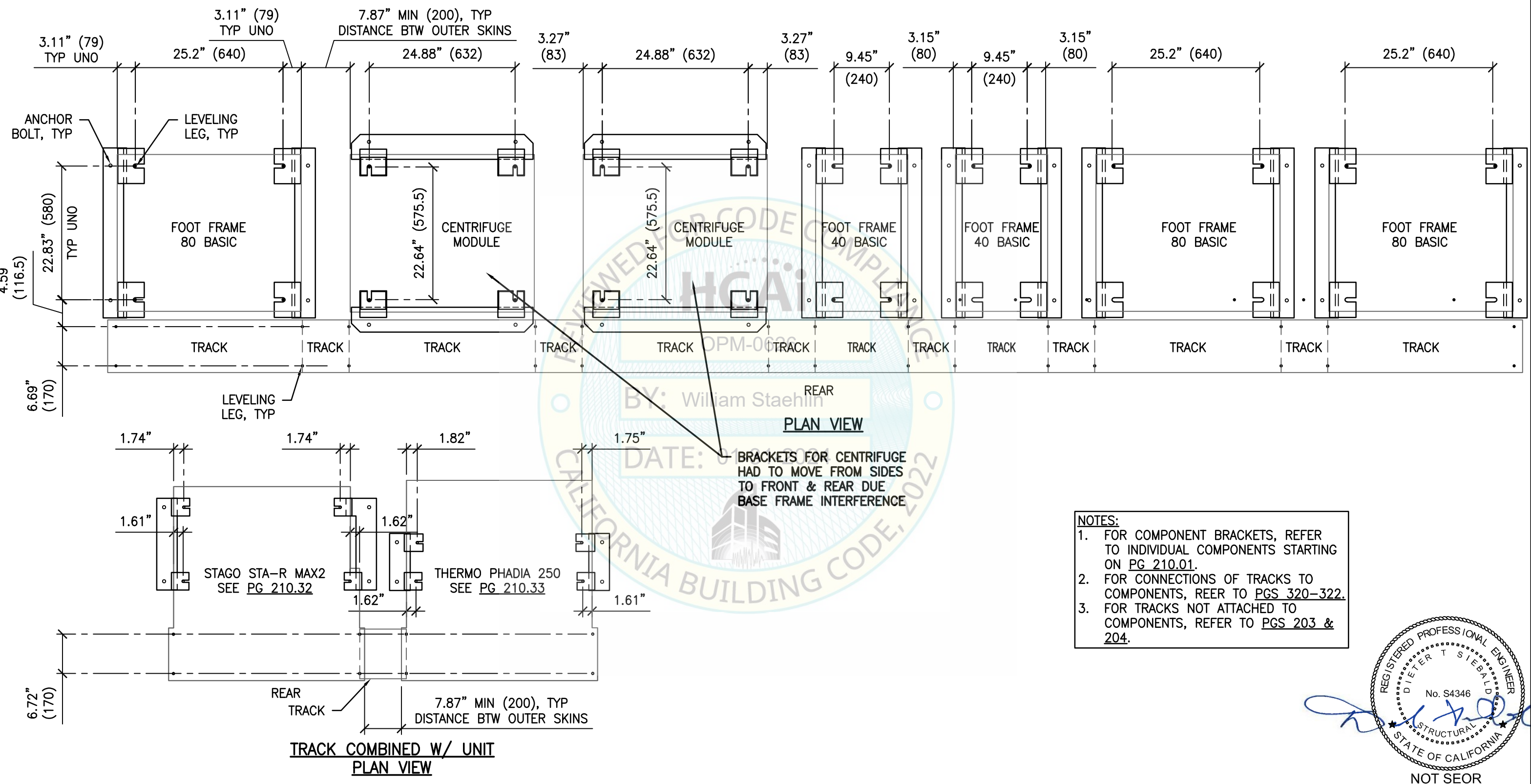


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



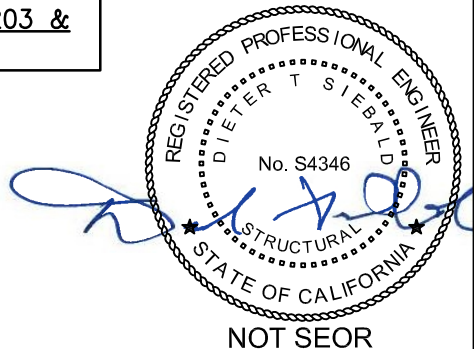
CYS STRUCTURAL ENGINEERS, INC.
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BRACKETS FOR CENTRIFUGE HAD TO MOVE FROM SIDES TO FRONT & REAR DUE BASE FRAME INTERFERENCE

- NOTES:**
1. FOR COMPONENT BRACKETS, REFER TO INDIVIDUAL COMPONENTS STARTING ON PG 210.01.
 2. FOR CONNECTIONS OF TRACKS TO COMPONENTS, REER TO PGS 320-322.
 3. FOR TRACKS NOT ATTACHED TO COMPONENTS, REFER TO PGS 203 & 204.



NOT SEOR

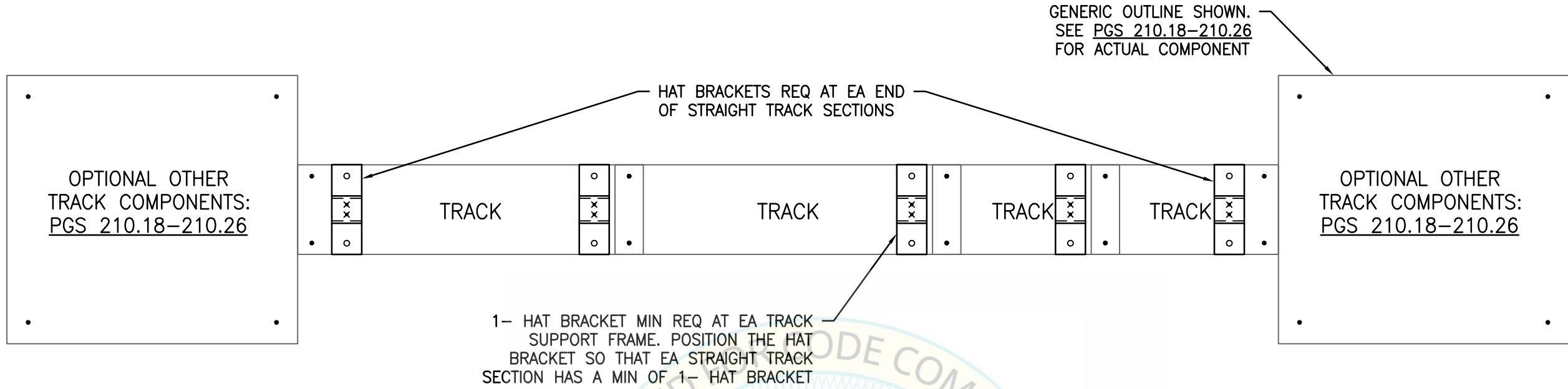
SHEET TITLE: COMPONENT CONFIGURATIONS

Abbott ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS

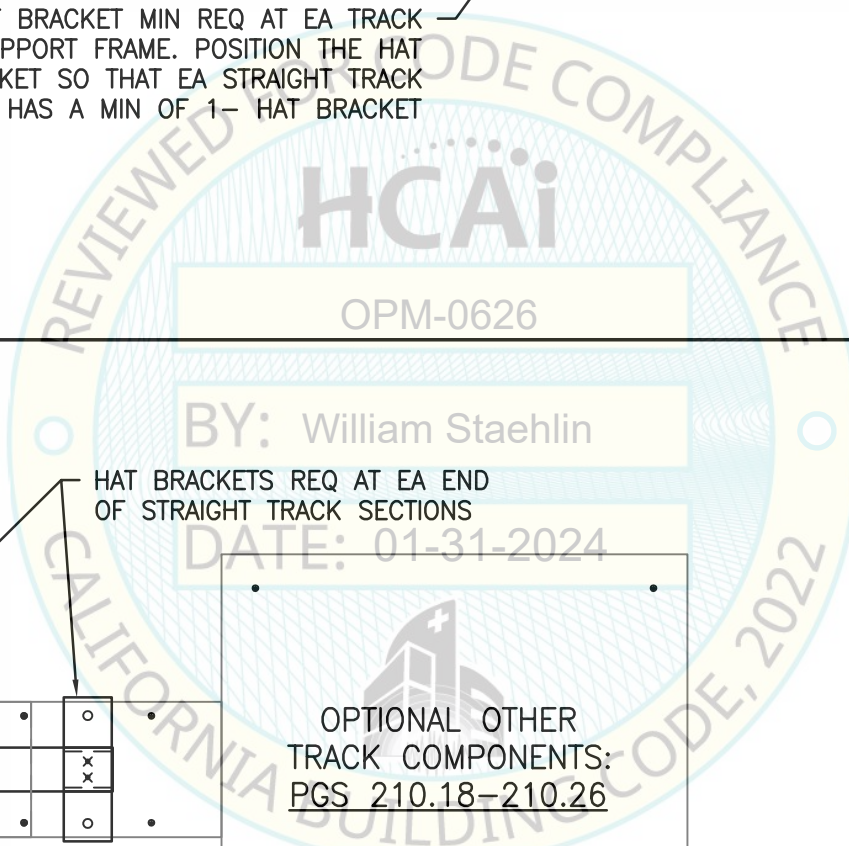
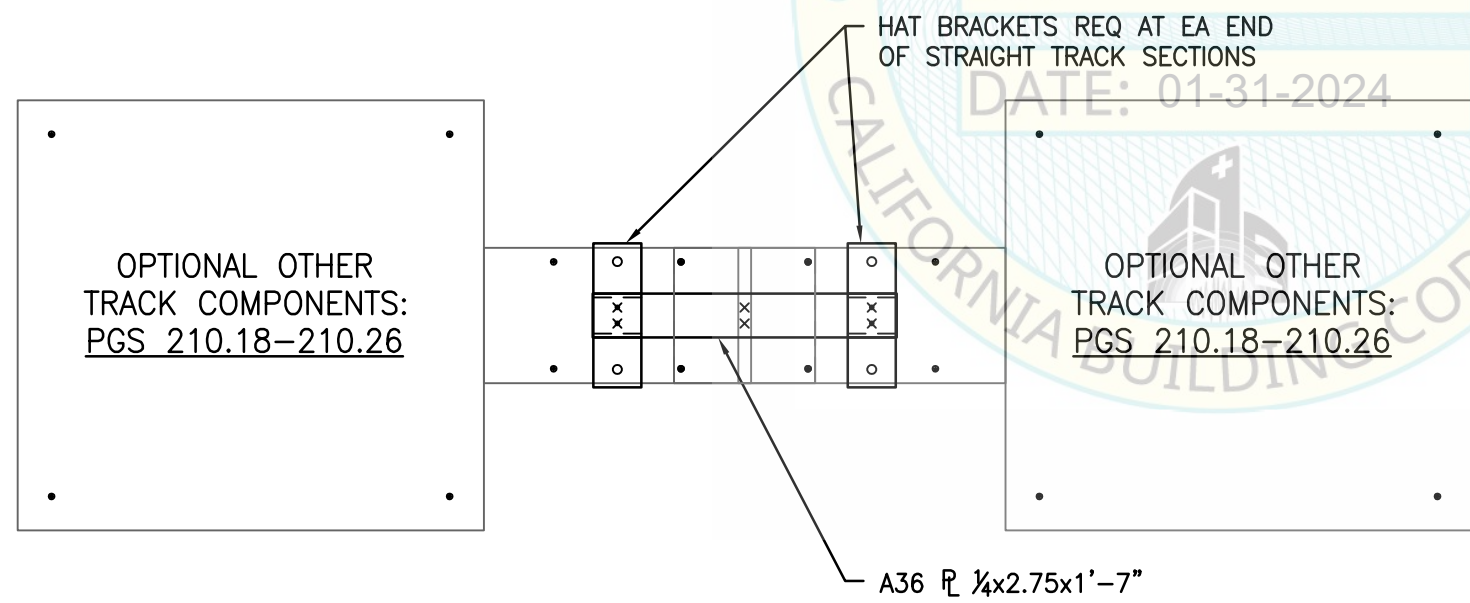
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80cm AND/OR 40cm STRAIGHT TRACK SECTIONS ONLY



20cm STRAIGHT TRACK SECTIONS ONLY



NOTE:
FOR INFO NOT SHOWN OR NOTED, REFER TO BASE PLAN & ELEVS ON PGS 210.15, 210.16 & 210.17



SHEET TITLE: TRACK CONFIGURATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS



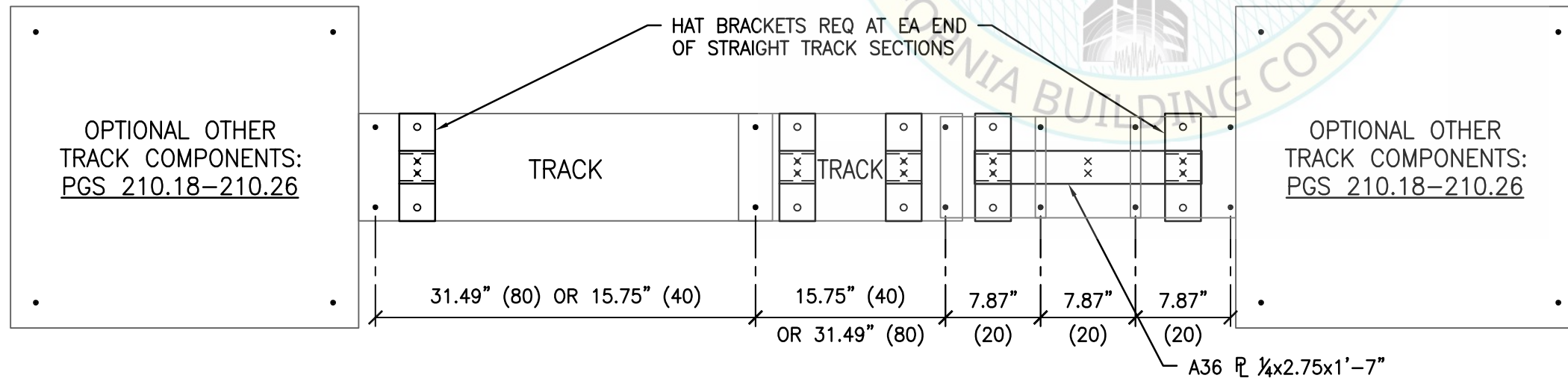
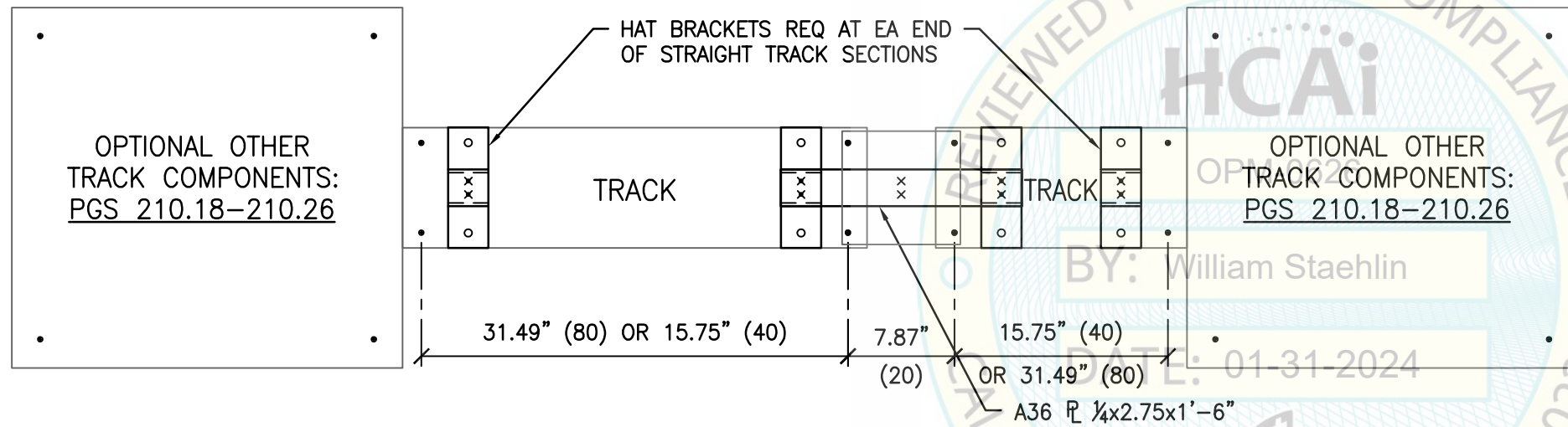
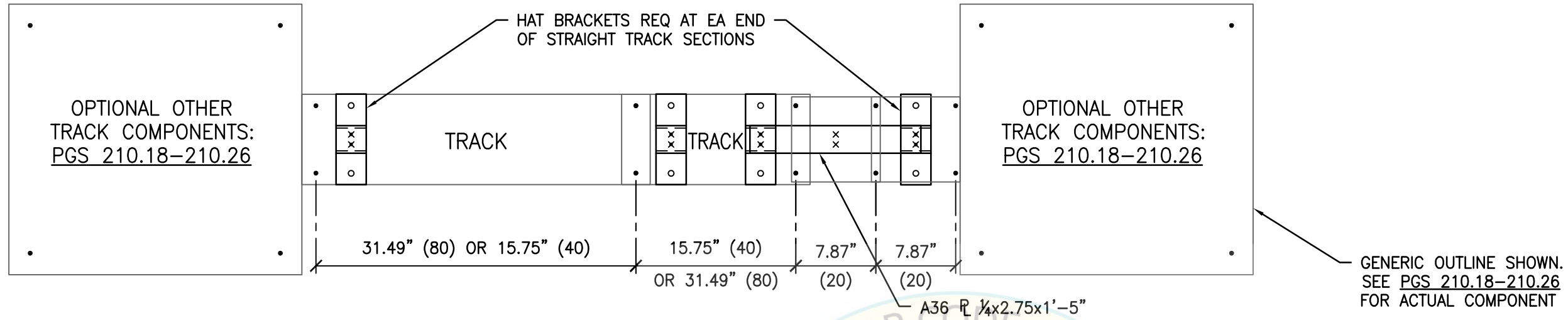
CYS STRUCTURAL ENGINEERS, INC.
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833
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			20097.02
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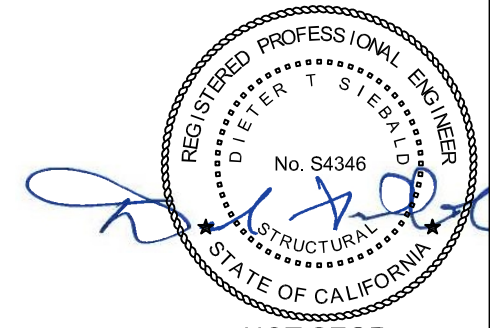
NOT SEOR

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COMBINATION OF 80cm AND/OR 40cm STRAIGHT TRACK SECTIONS W/ 20cm STRAIGHT TRACK SECTIONS



NOTE:
FOR INFO NOT SHOWN OR NOTED,
REFER TO BASE PLAN & ELEVS ON
PGS 210.15, 210.16 & 210.17



SHEET TITLE: TRACK CONFIGURATIONS



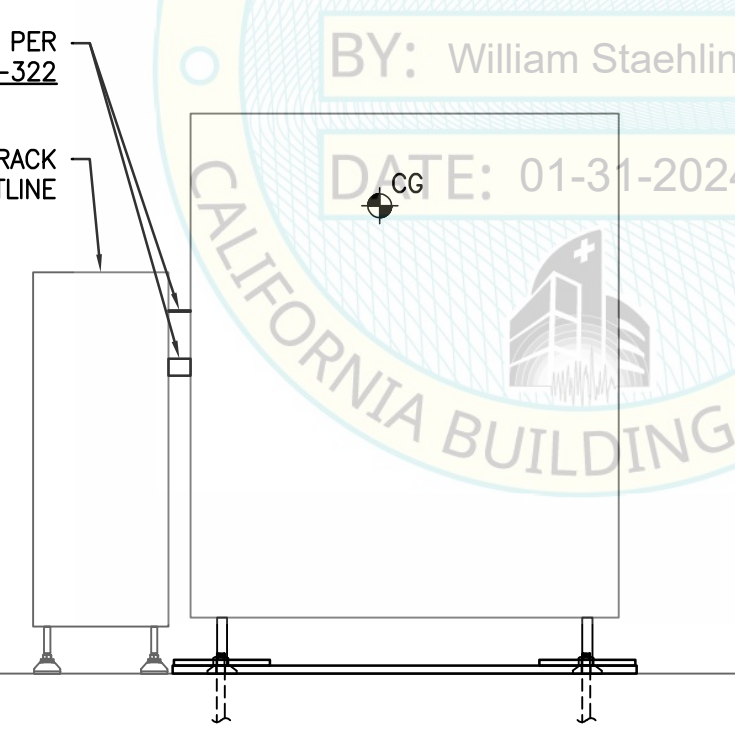
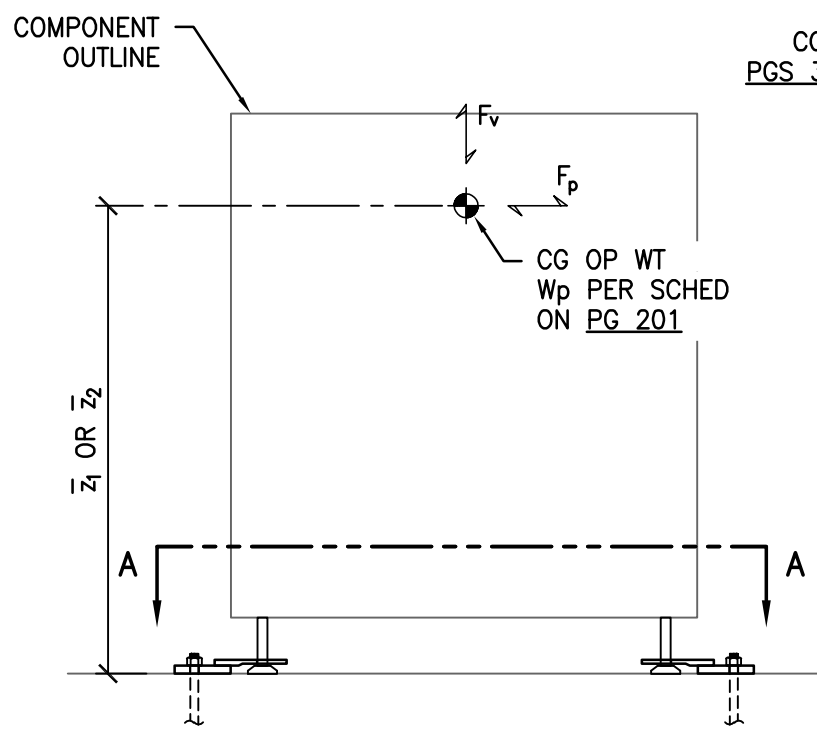
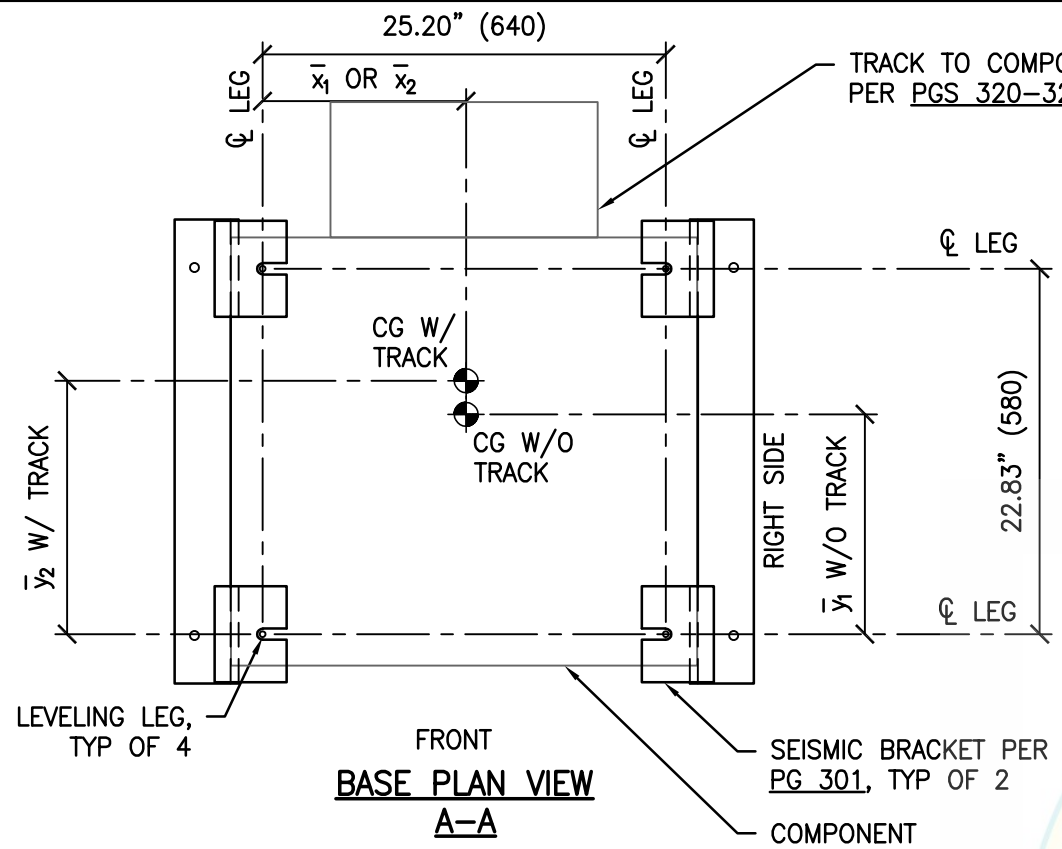
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



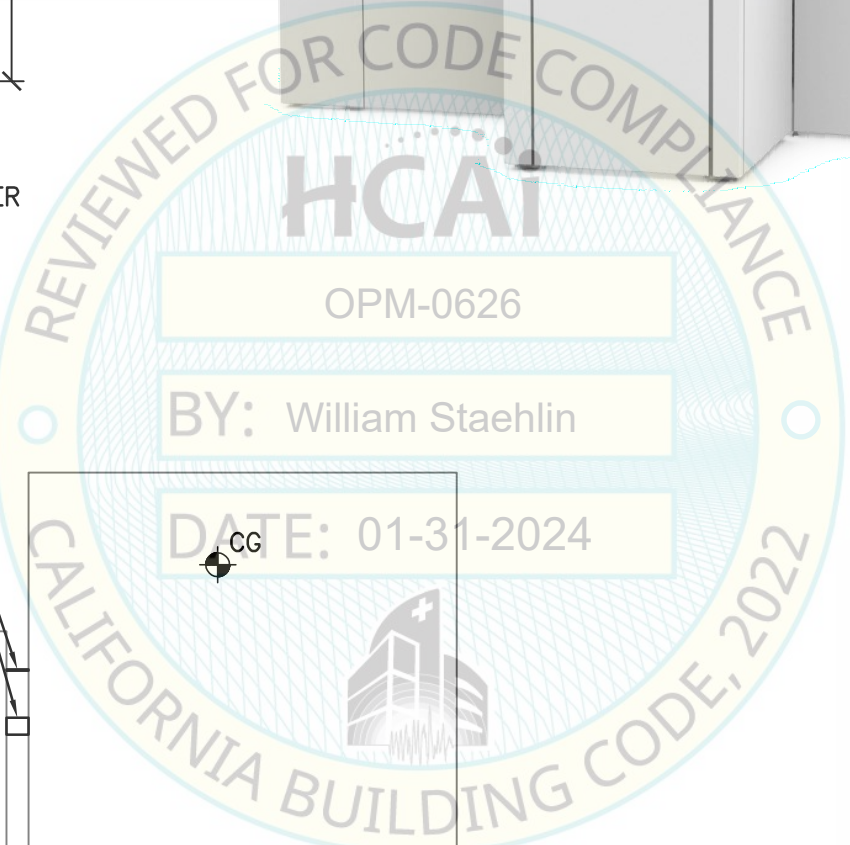
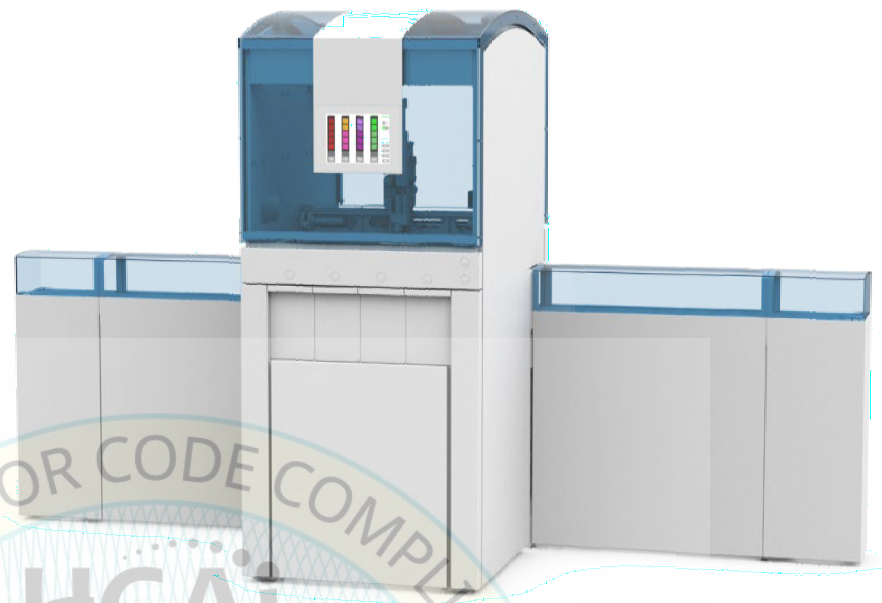
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			20097.02
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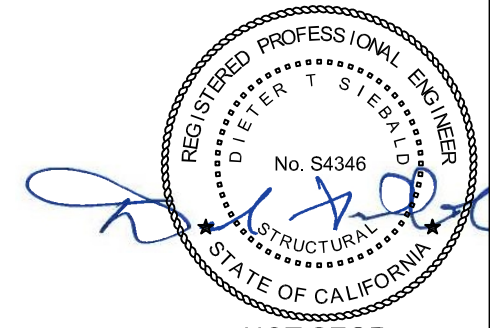
NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	1409#	1830#	411#
CASE 2 ¹	828#	1250#	247#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: IOM MODULE (IOM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



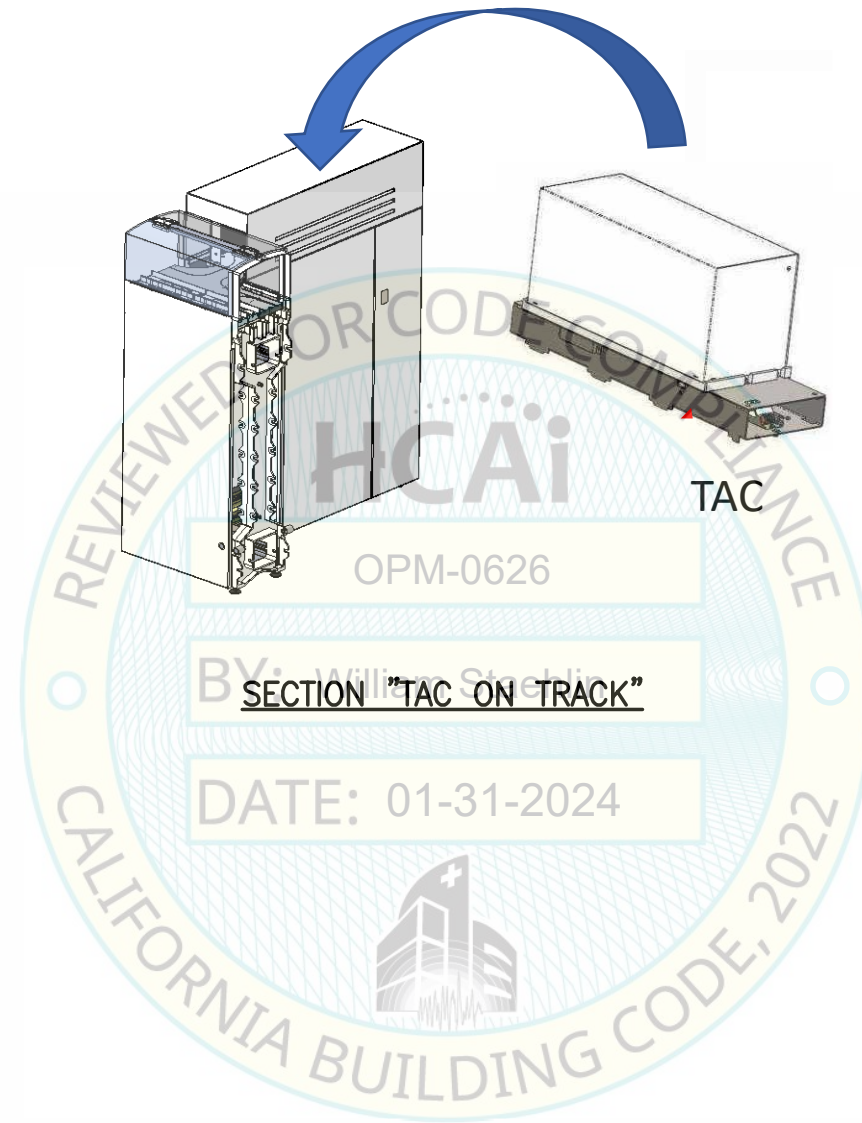
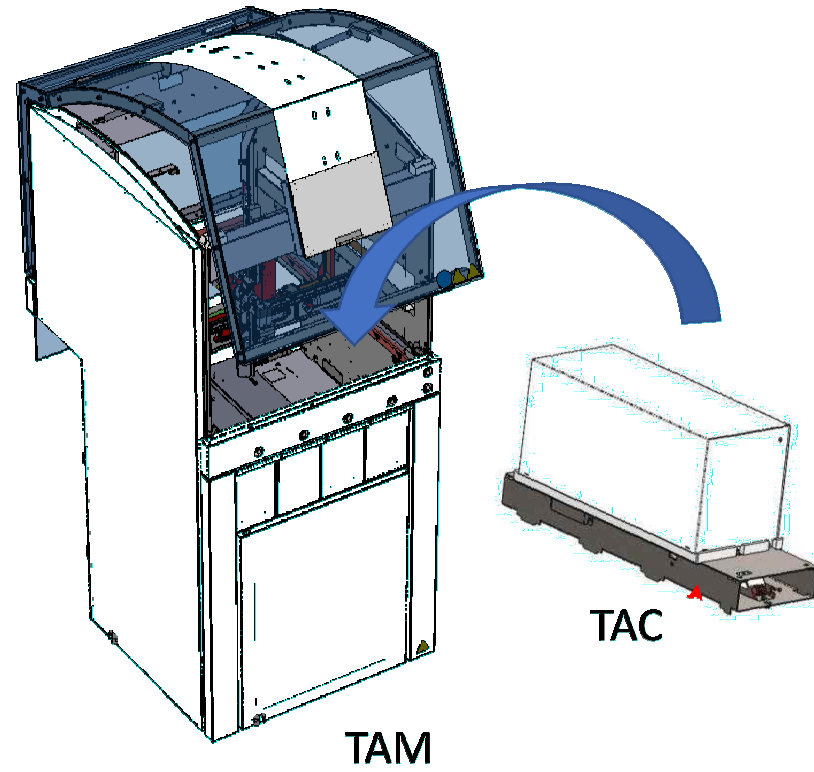
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			20097.02
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			Page: 210.01

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NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: TUBE ASSESSMENT CENTRE (TAC)



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

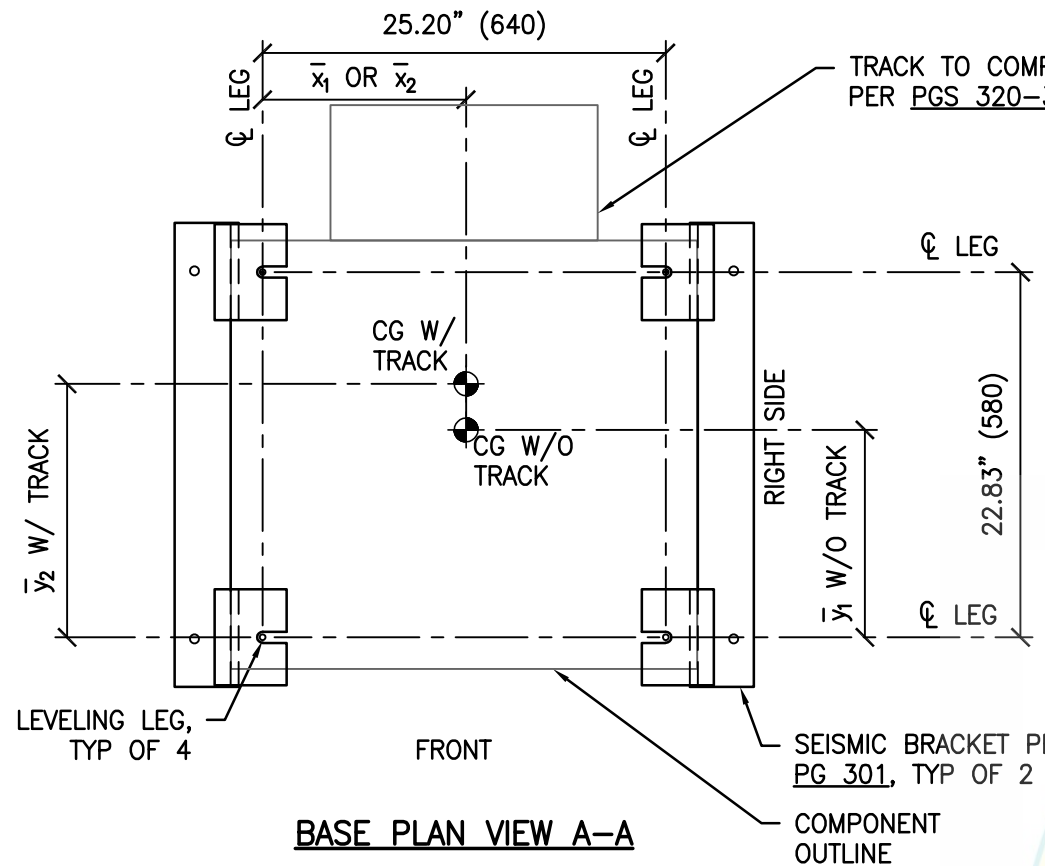


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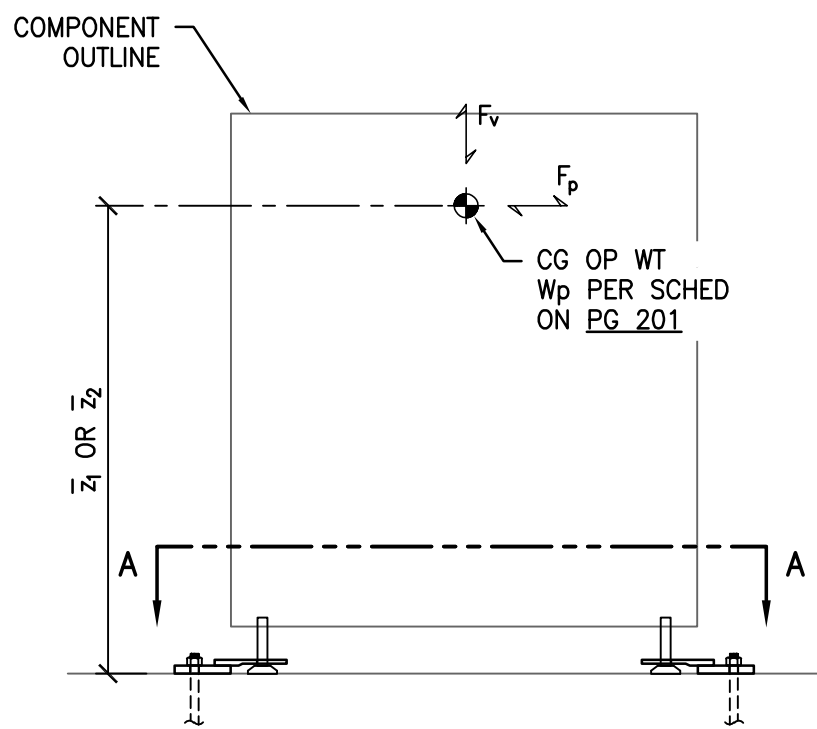
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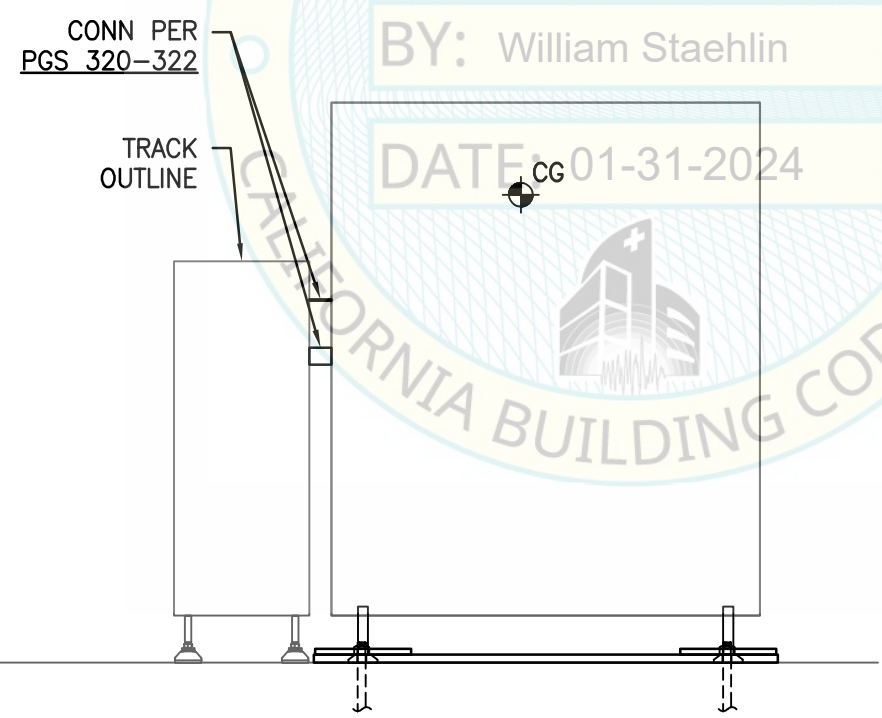
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.02



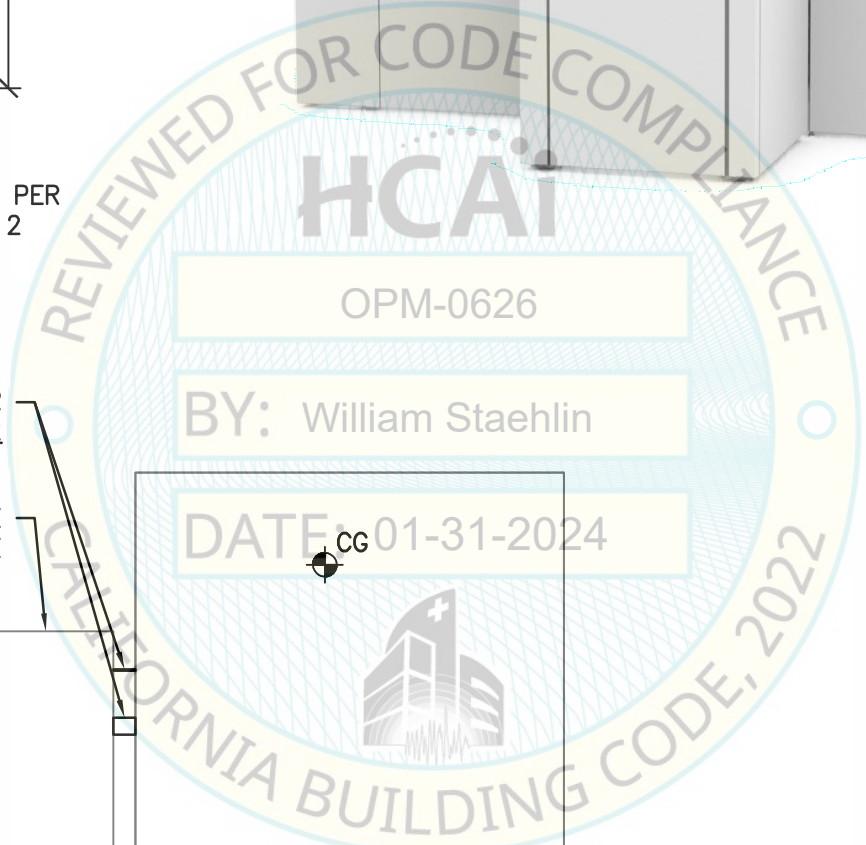
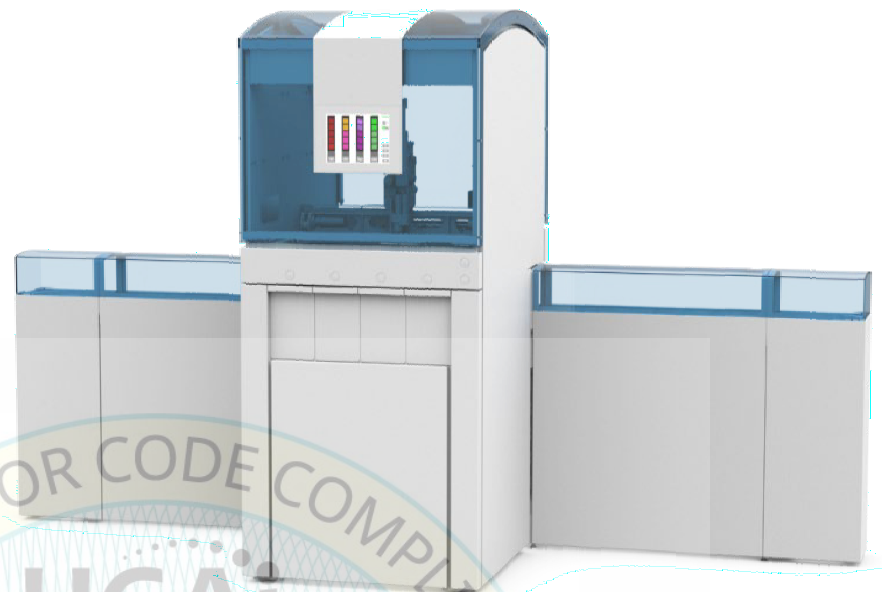
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

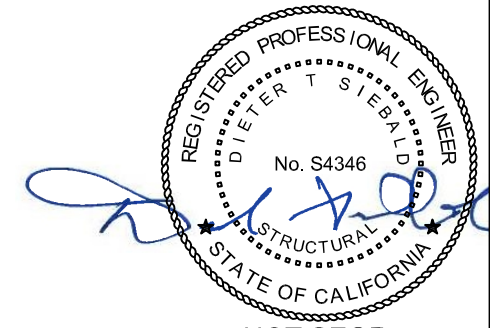


MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	1422#	1848#	417#
CASE 2 ¹	837#	1263#	251#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: TUBE ASSESSMENT MODULE (TAM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



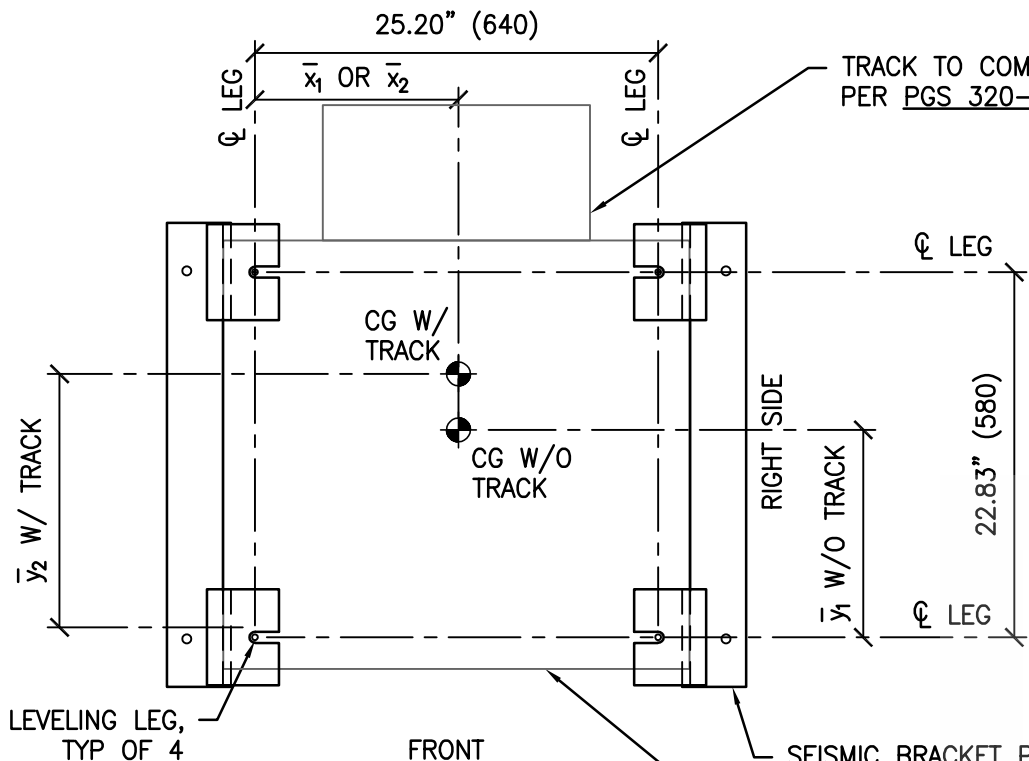
CYS STRUCTURAL ENGINEERS, INC.

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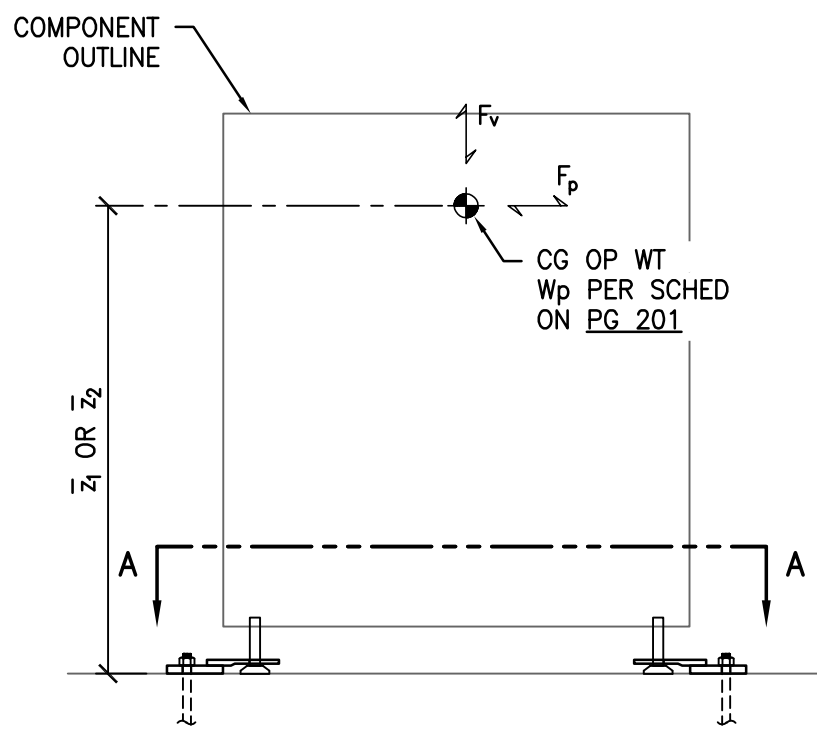
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Rev	Description	Date	Job No:
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			Date: 10/03/2023
			By: CYS
			Page: 210.03

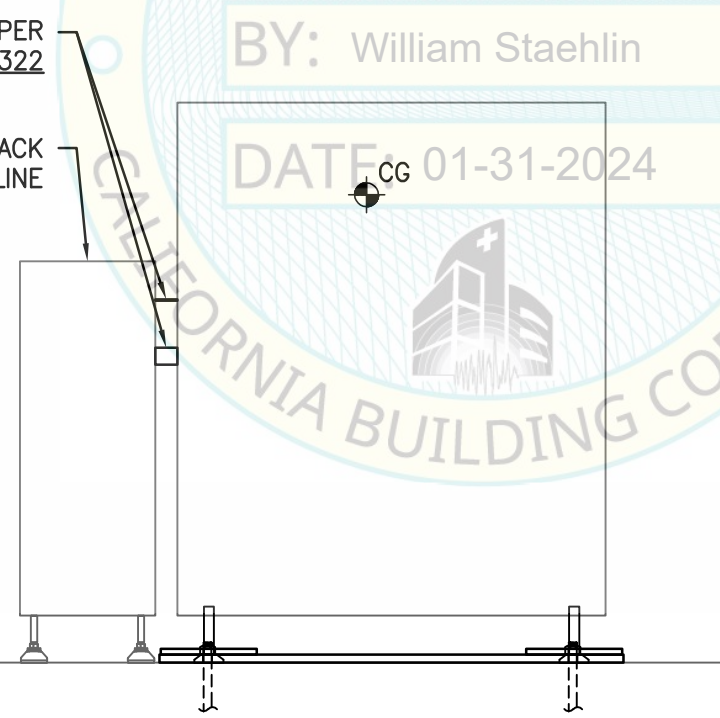
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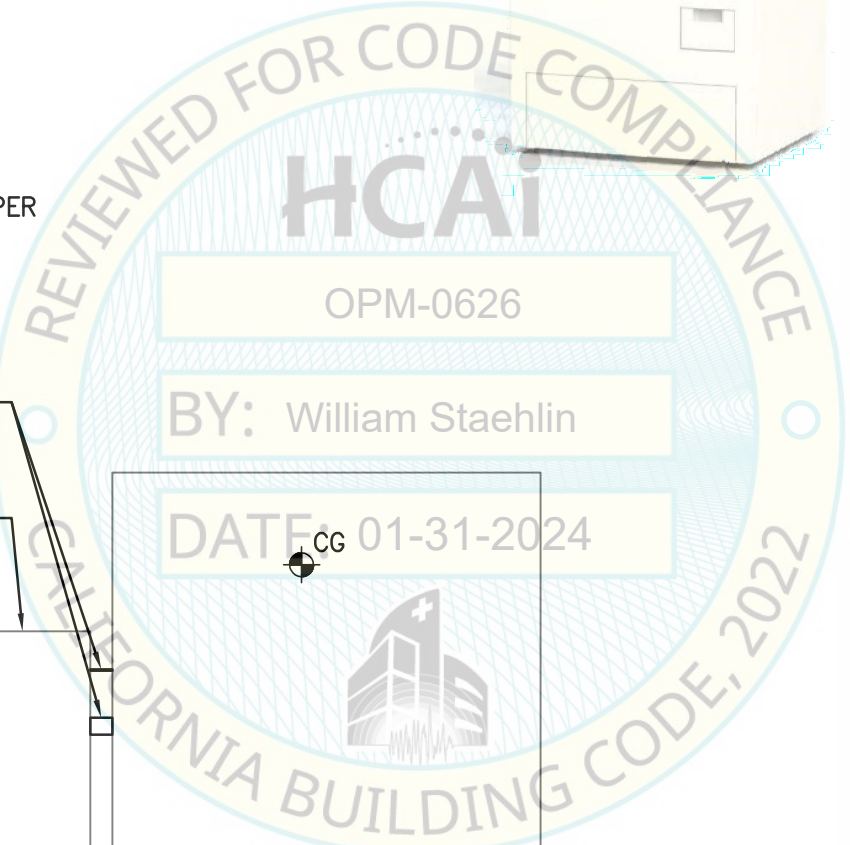
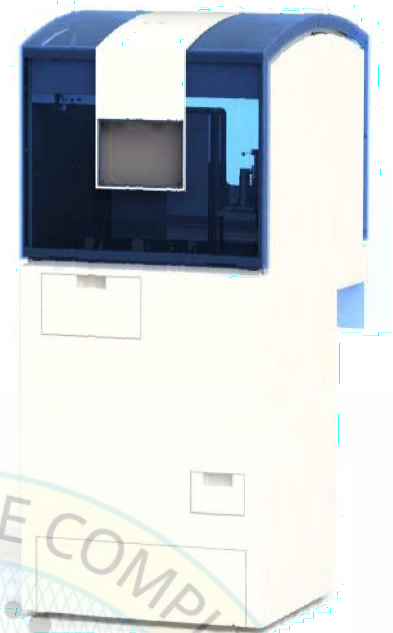
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

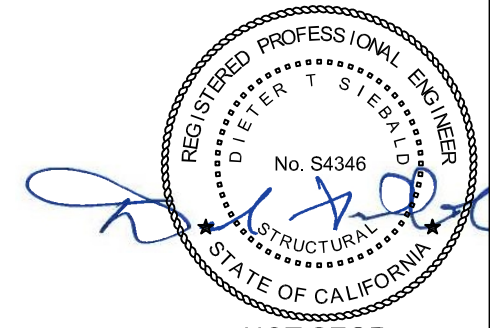


NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T_{max}	C_{max}	V_{max}
CASE 1 ²	1563#	2049#	479#
CASE 2 ¹	920#	1406#	289#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: BULK LOADER MODULE (BLM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



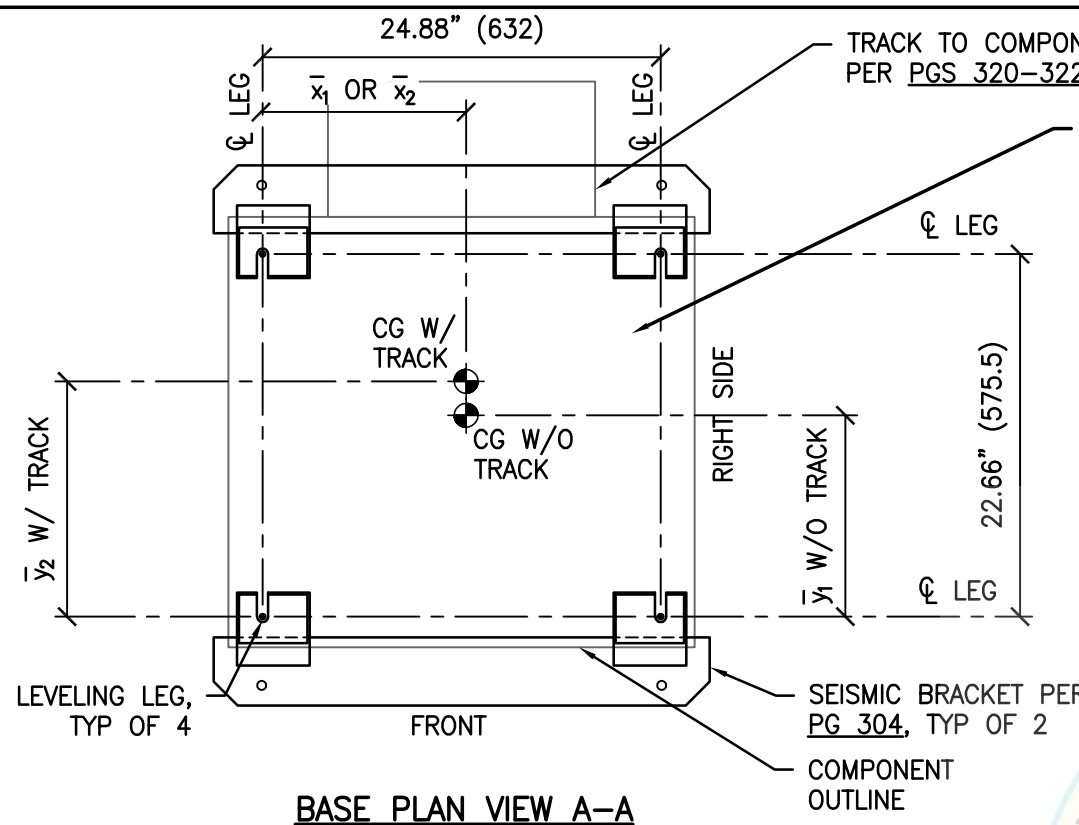
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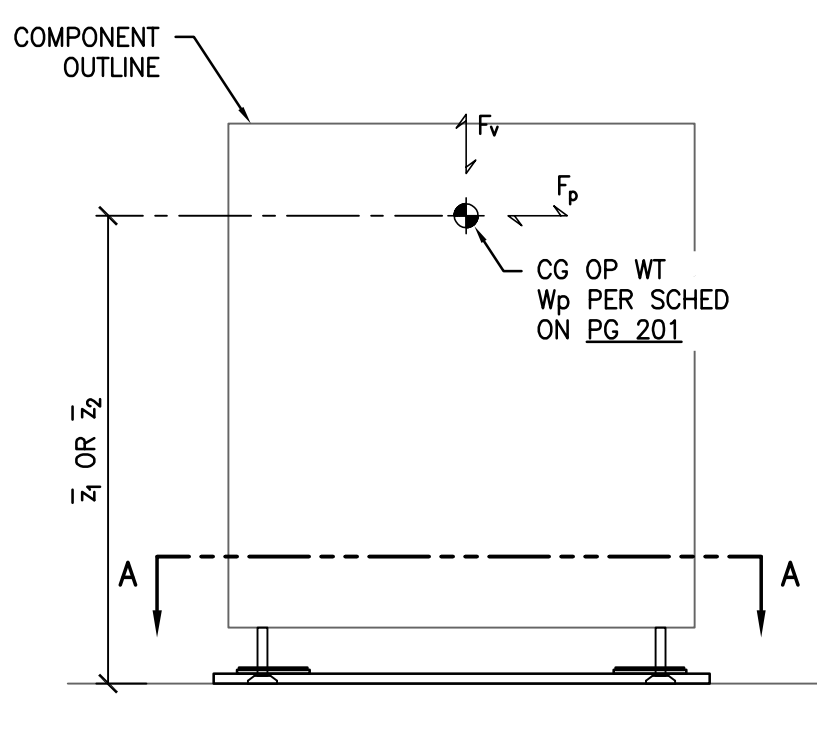
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Rev	Description	Date	Job No:
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			Date: 10/03/2023
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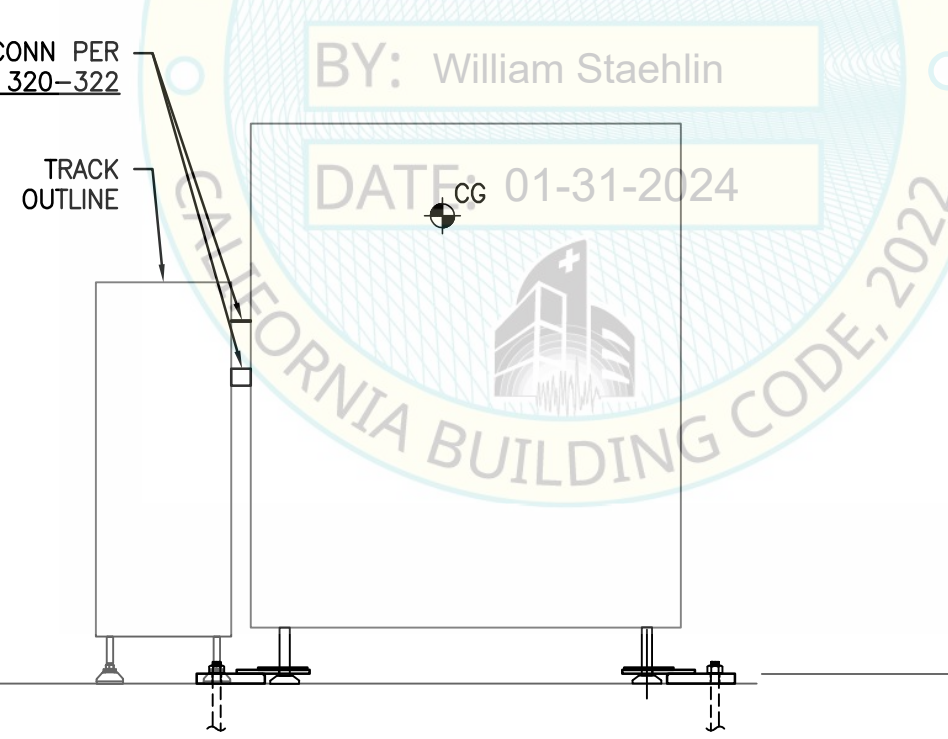
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BASE PLAN VIEW A-A



FRONT ELEV



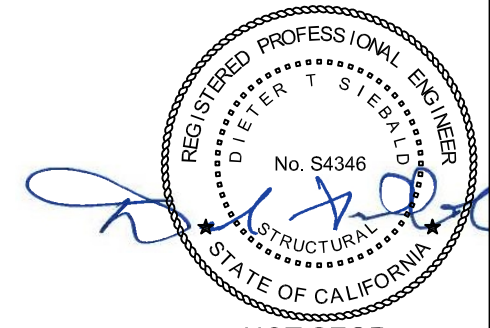
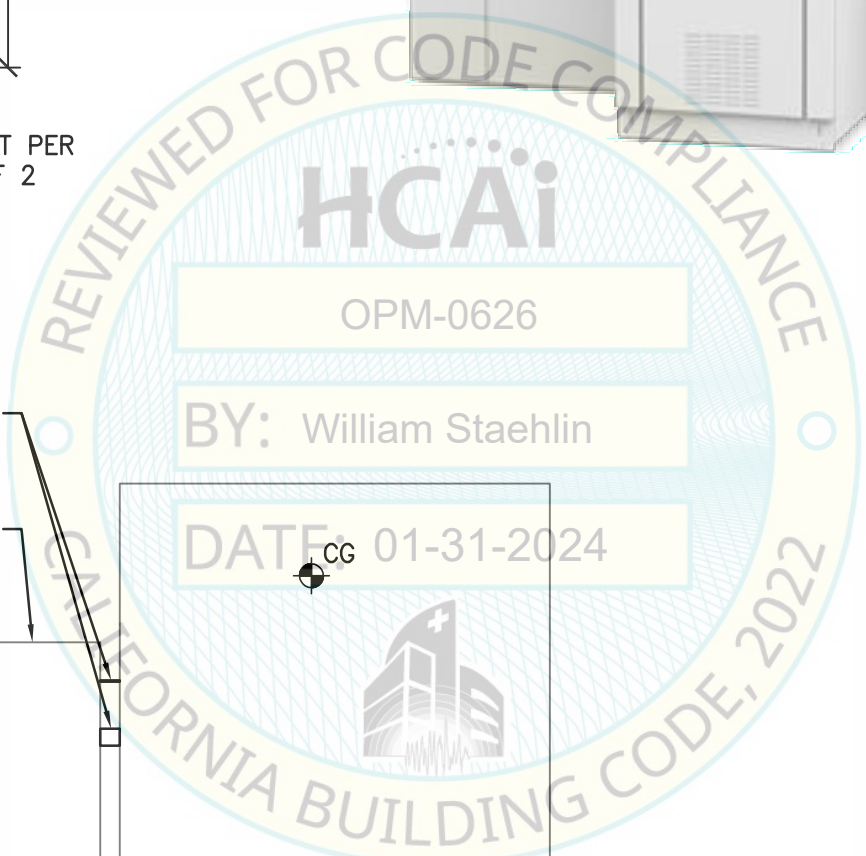
RIGHT SIDE ELEV

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2161#	2830#	655#
CASE 2 ¹	1261#	1930#	395#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: CENTRIFUGE MODULE (CM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

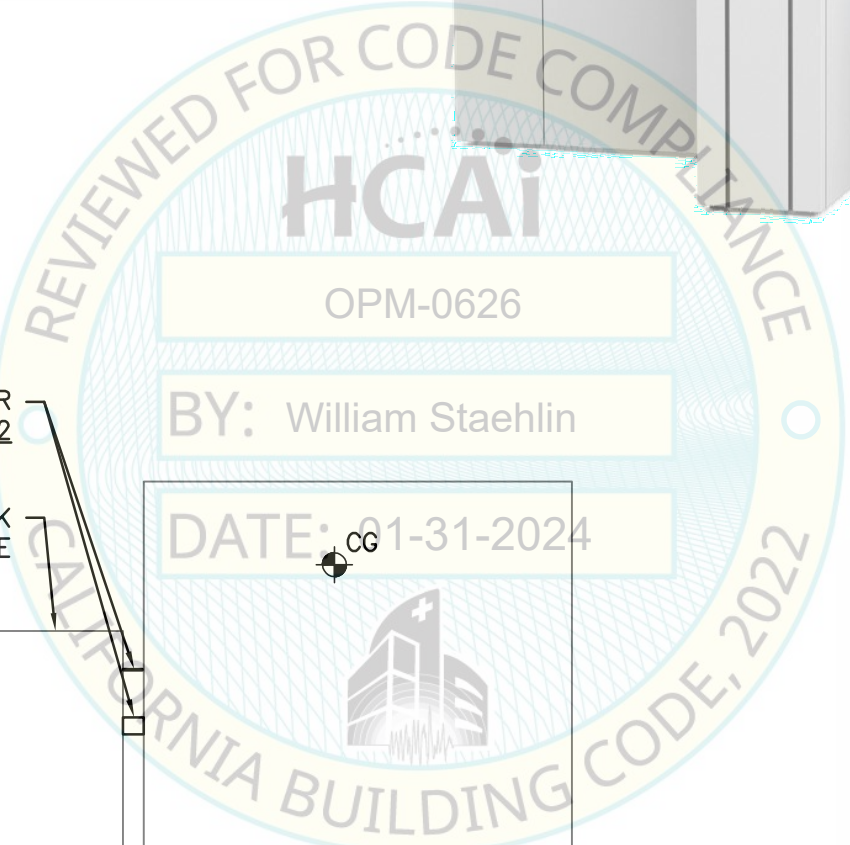
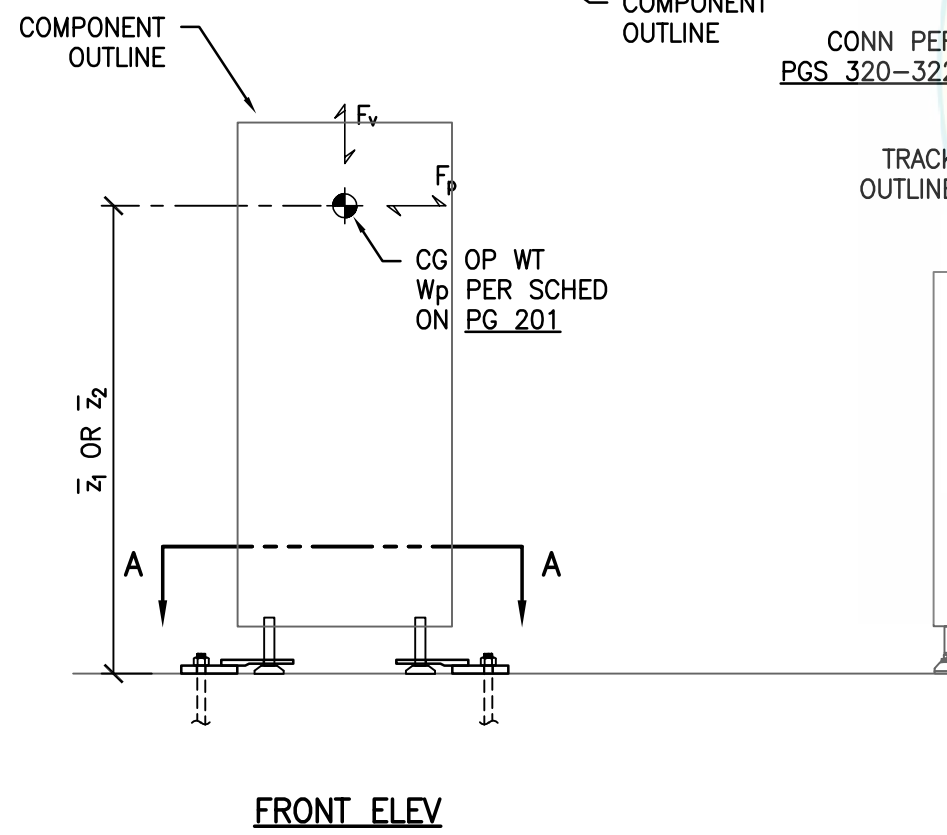
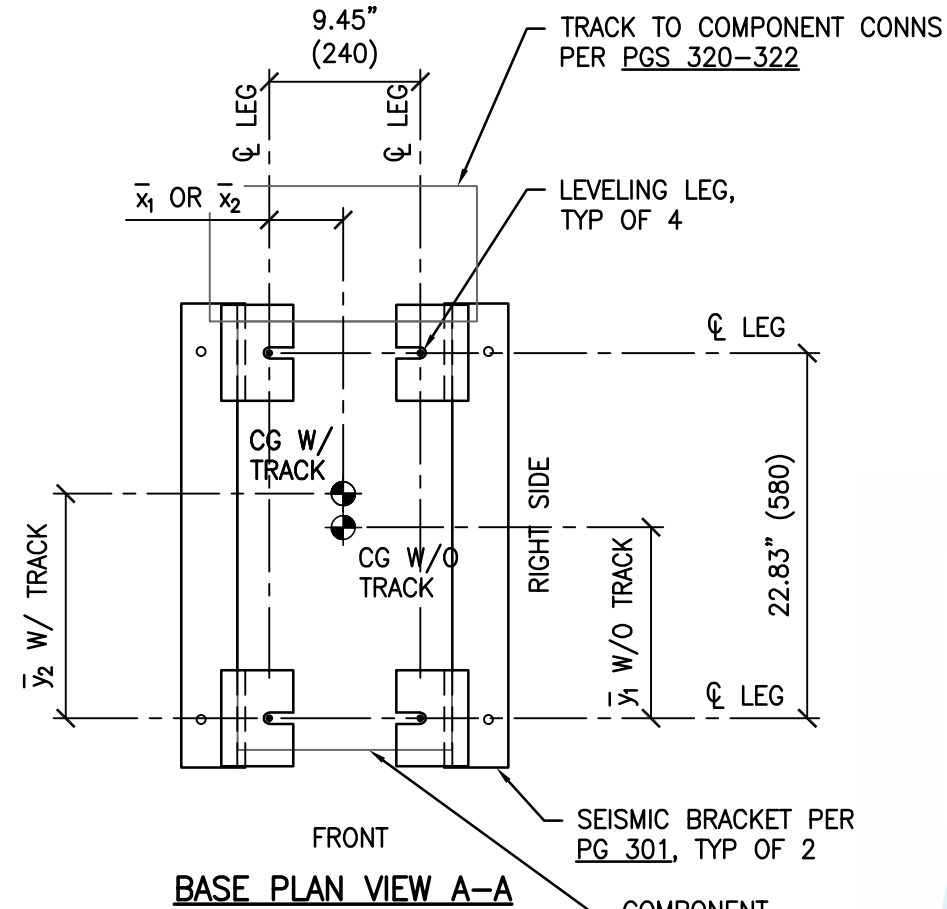
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			20097.02
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MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2149#	2474#	347#
CASE 2 ¹	1278#	1602#	209#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



SHEET TITLE: FLOOR SUPPORTED MODULE: DECAPPER MODULE - (SINGLE (DM) BASE PLAN & ELEVATIONS

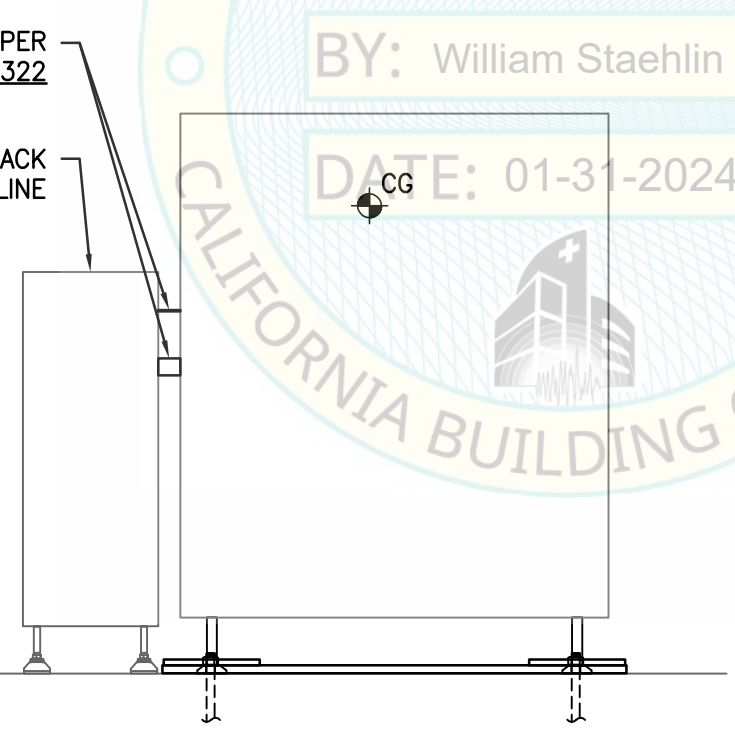
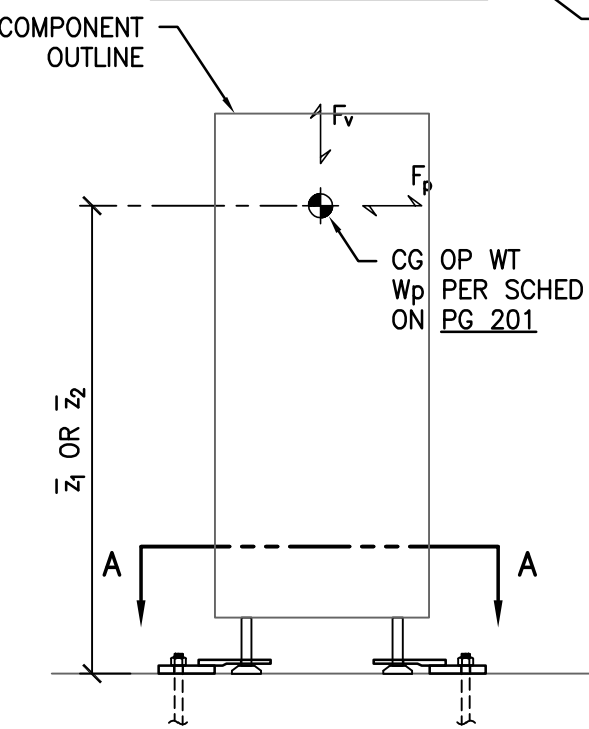
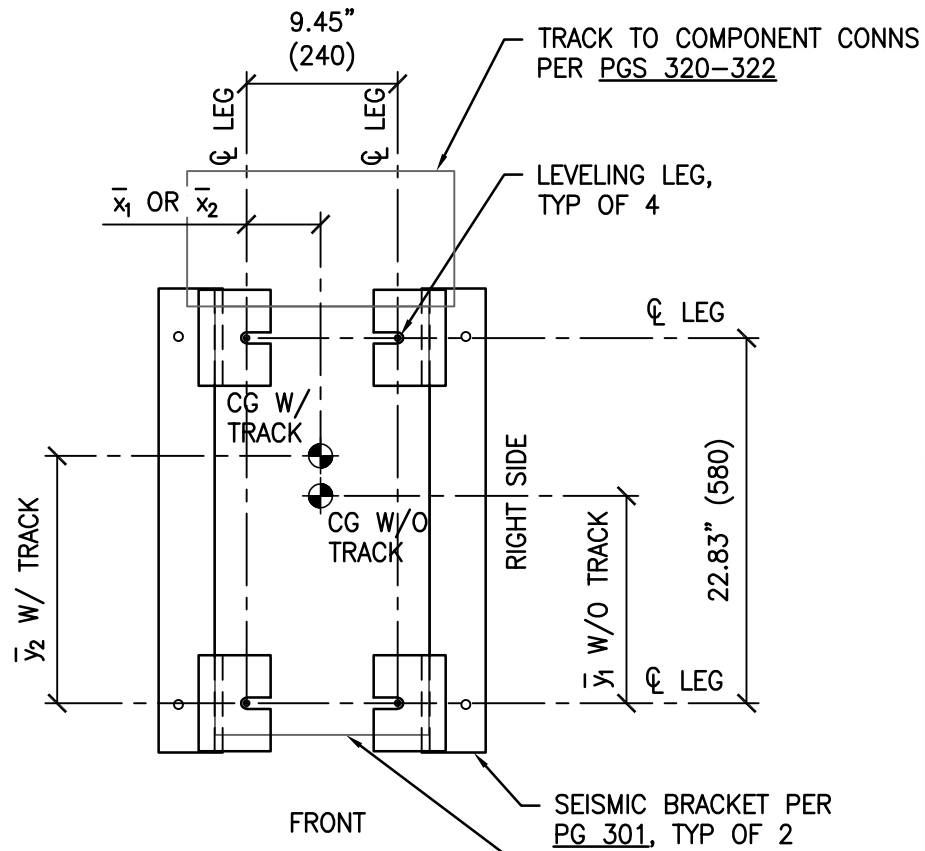


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS



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			20097.02
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			By: CYS
			Page: 210.06

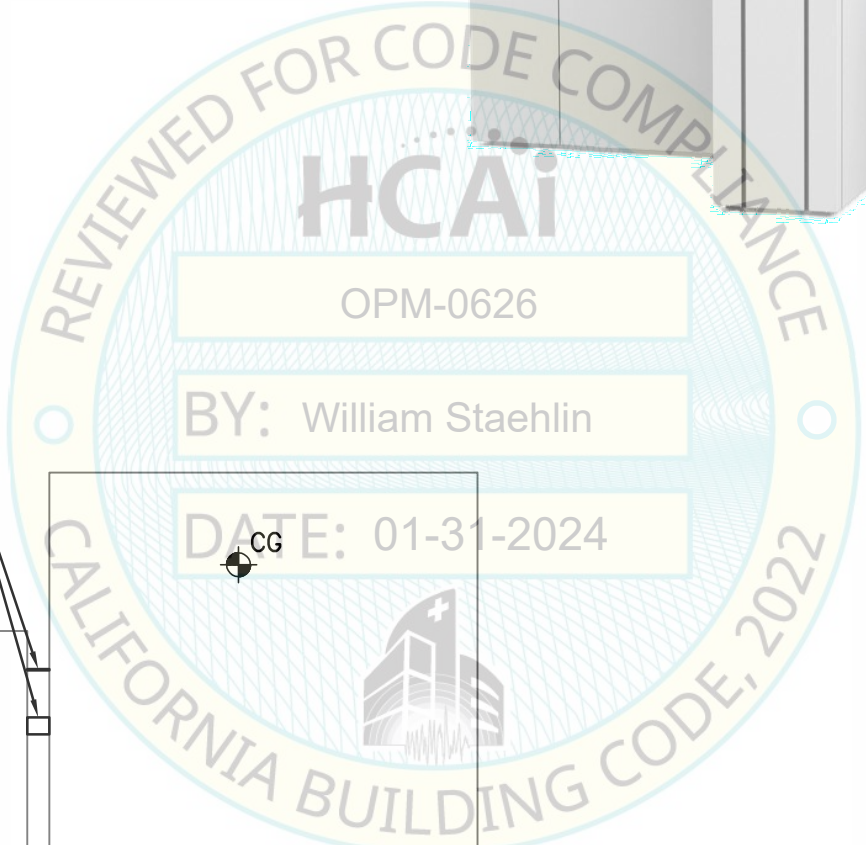


NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2244#	2581#	353#
CASE 2 ¹	1335#	1673#	213#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: DECAPPER MODULE - DOUBLE (DM DBL)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

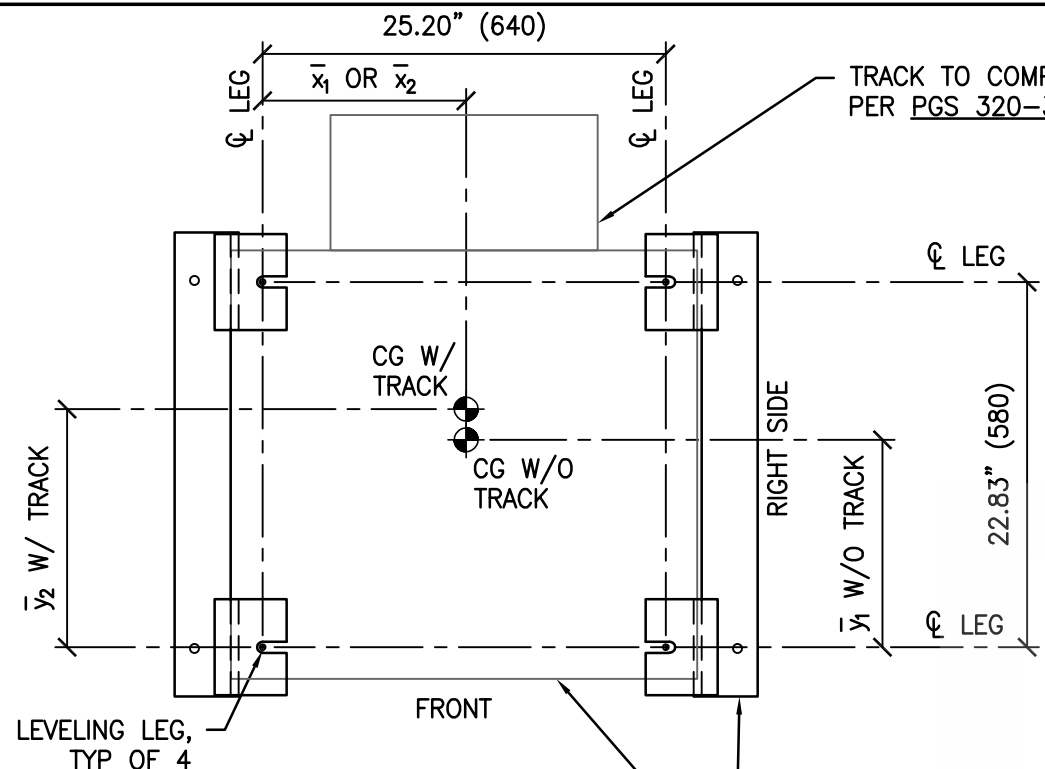


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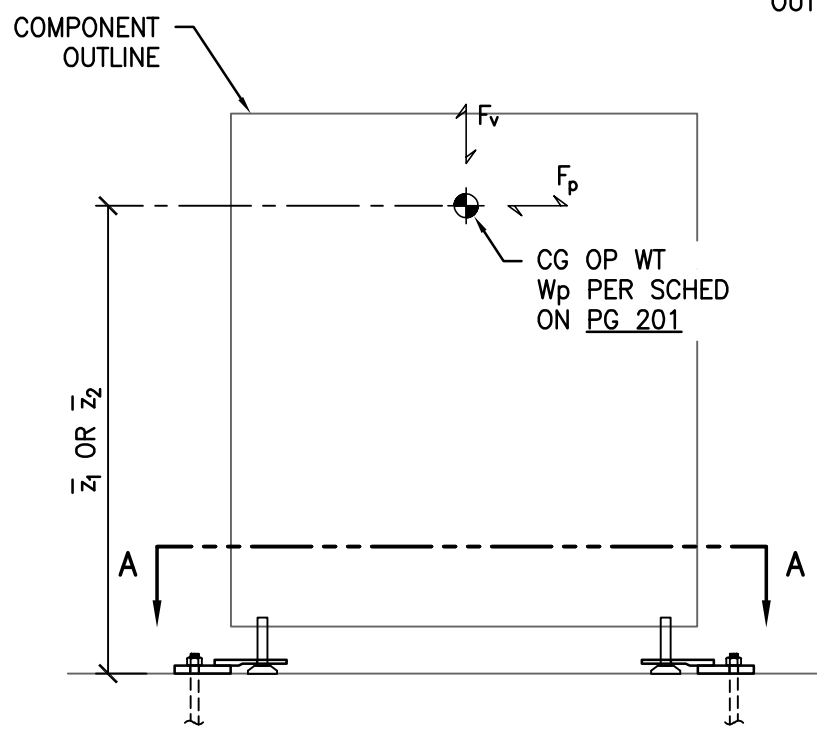
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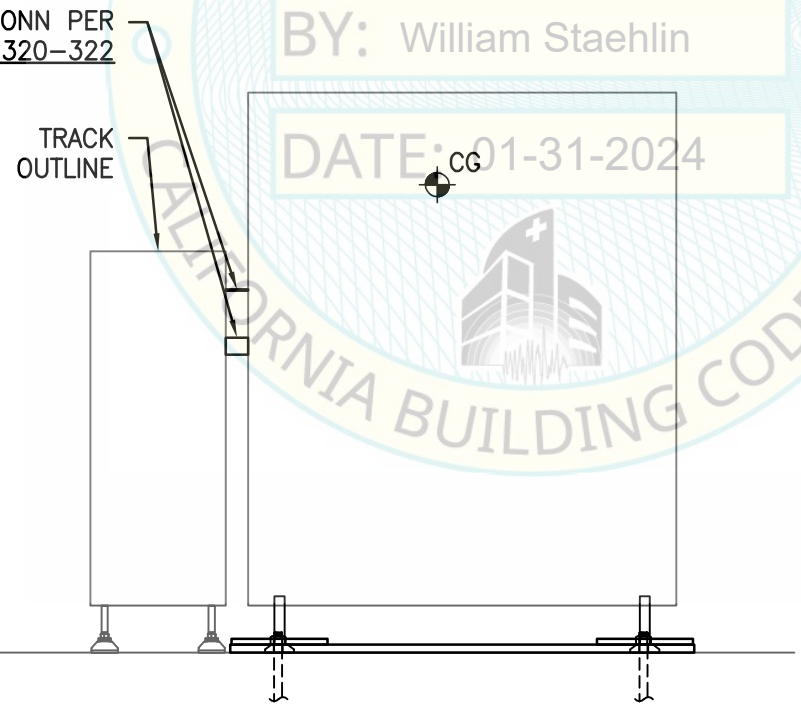
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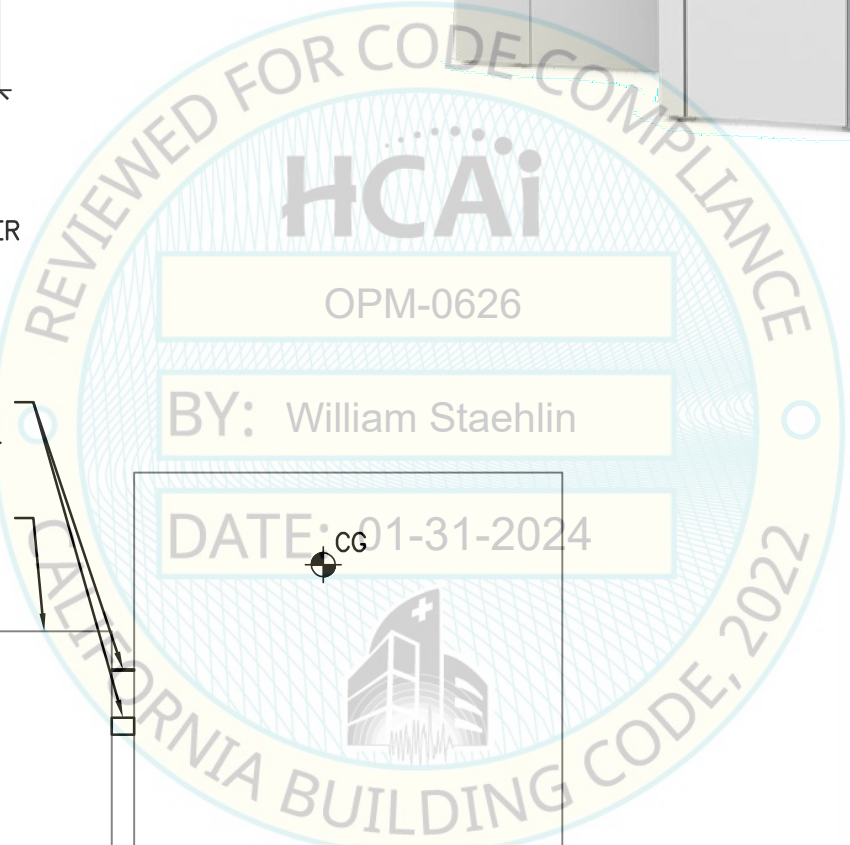
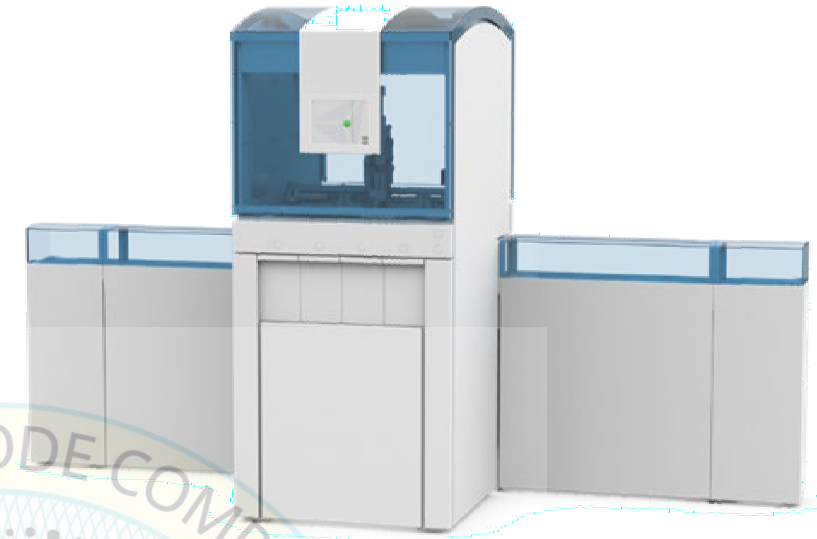
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

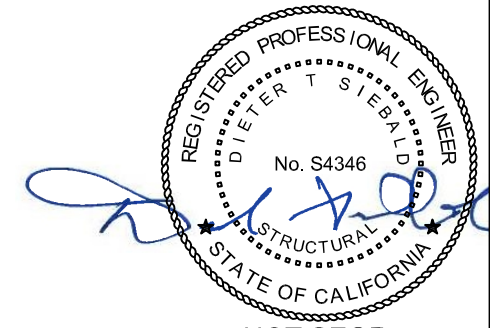


NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	1511#	1975#	453#
CASE 2 ¹	882#	1346#	273#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: ALIQUOT MODULE (AM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

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

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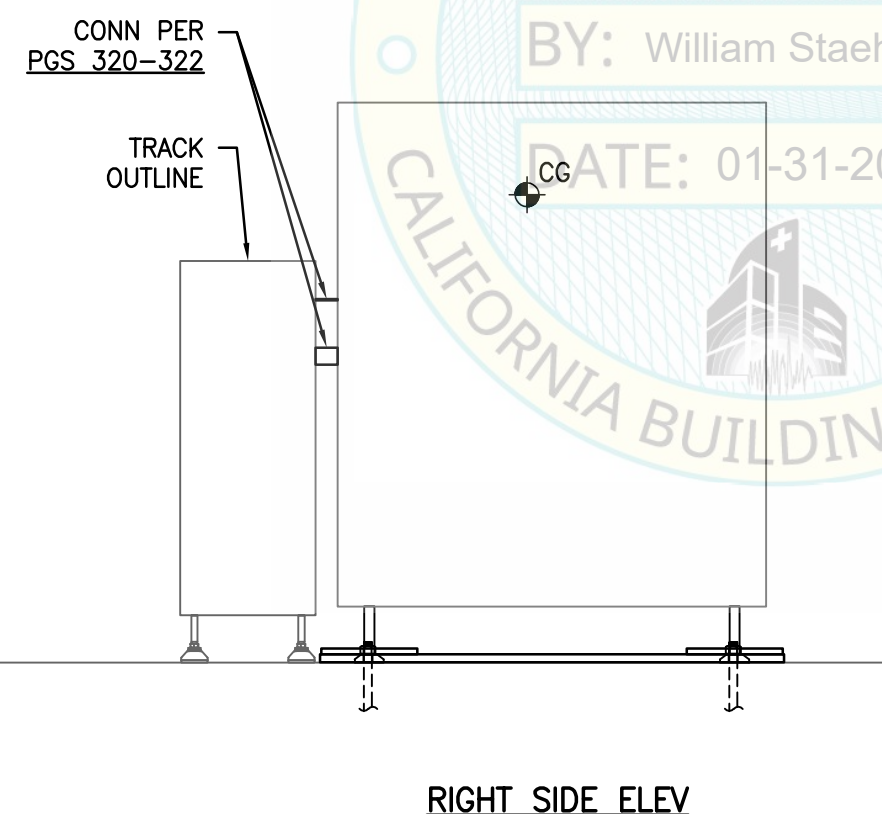
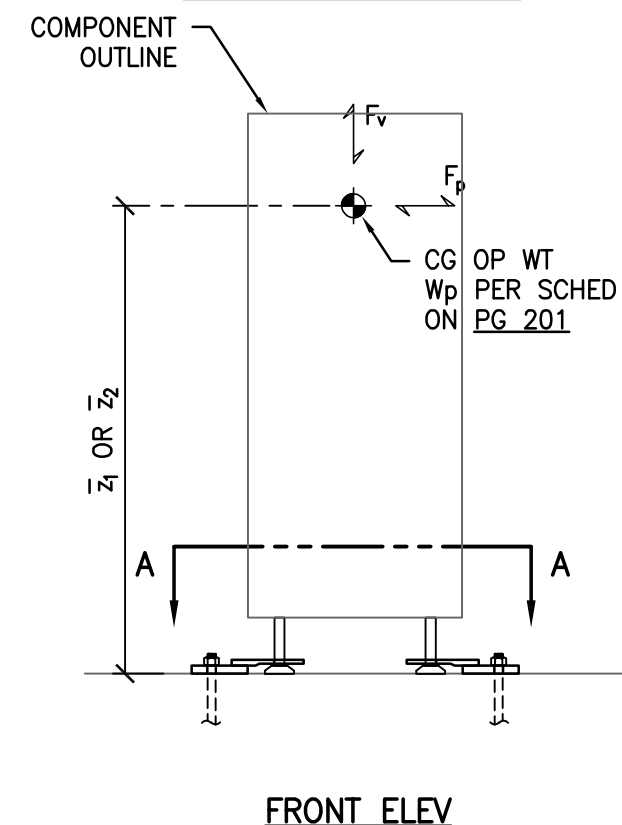
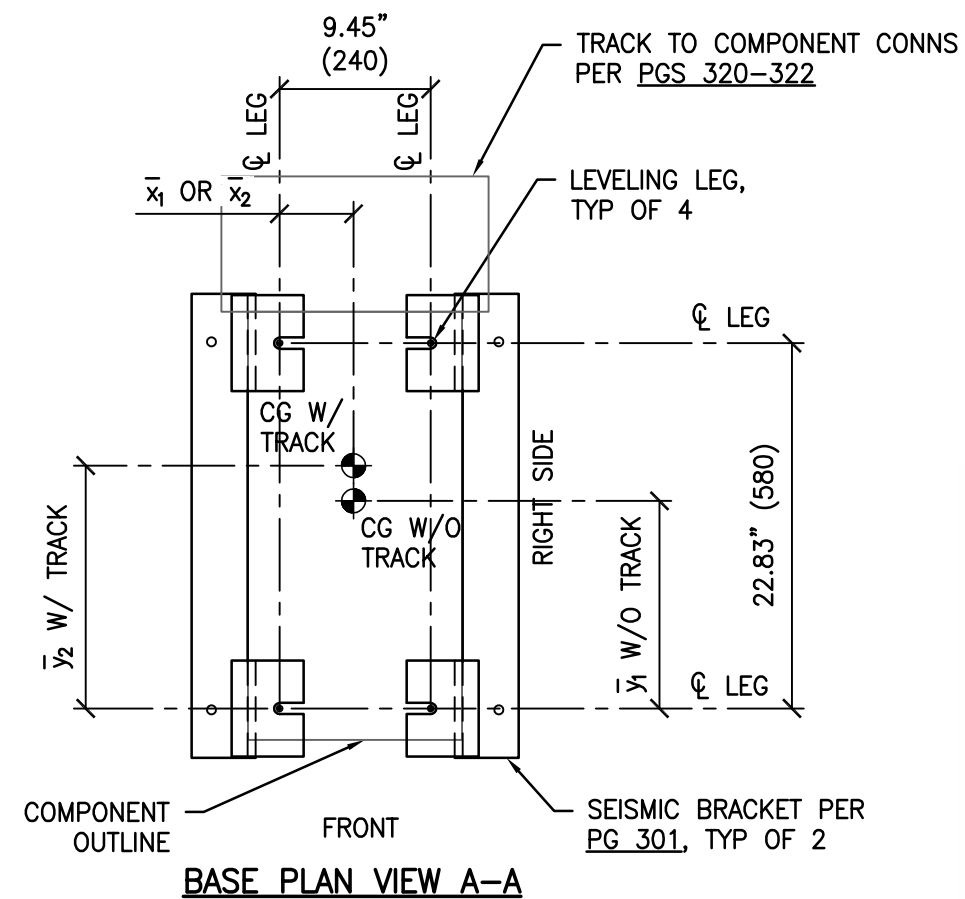
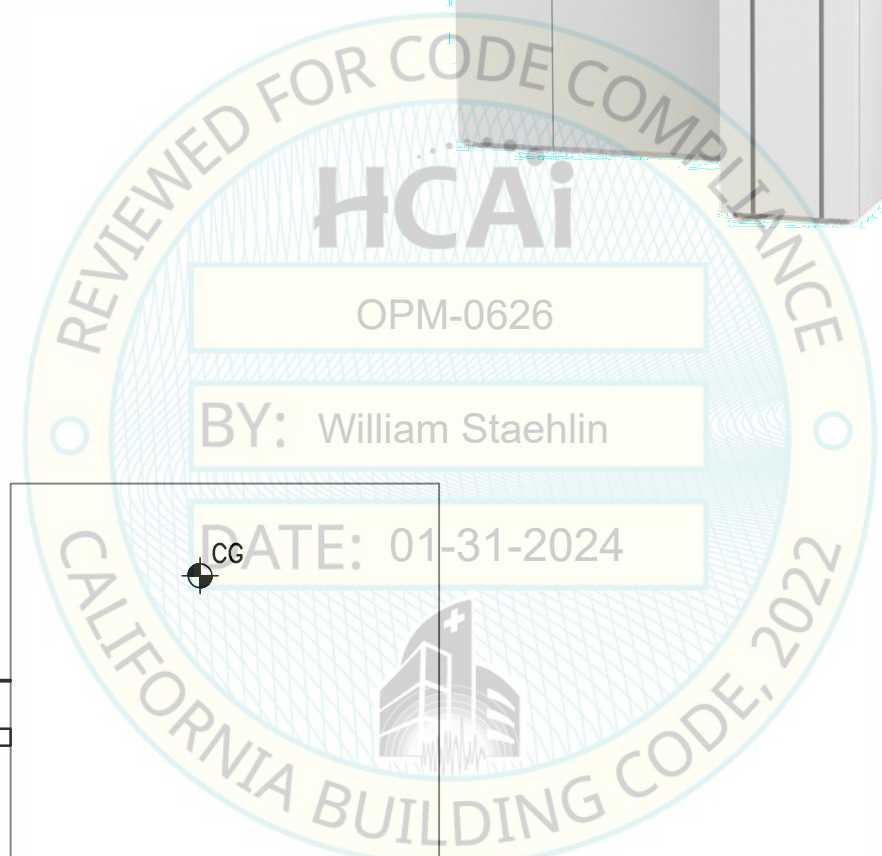
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.08

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MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2427#	2827#	422#
CASE 2 ¹	1441#	1841#	255#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_0).
2. OVERSTRENGTH FACTOR (Ω_0) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



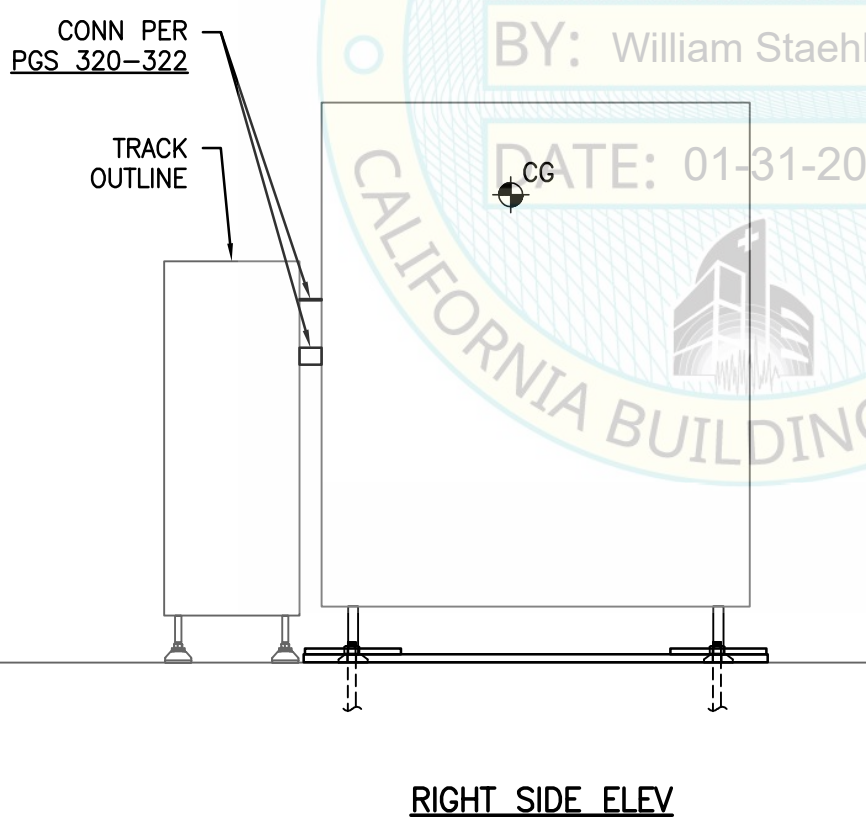
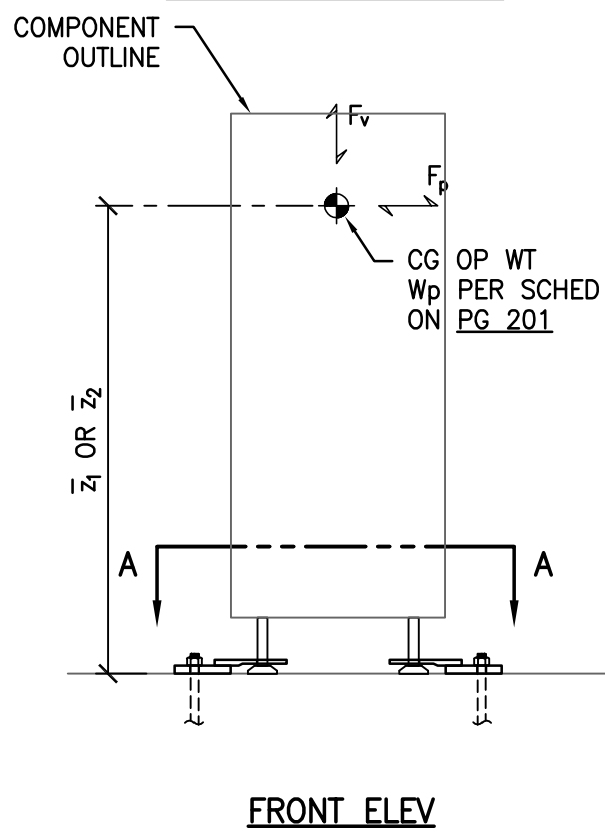
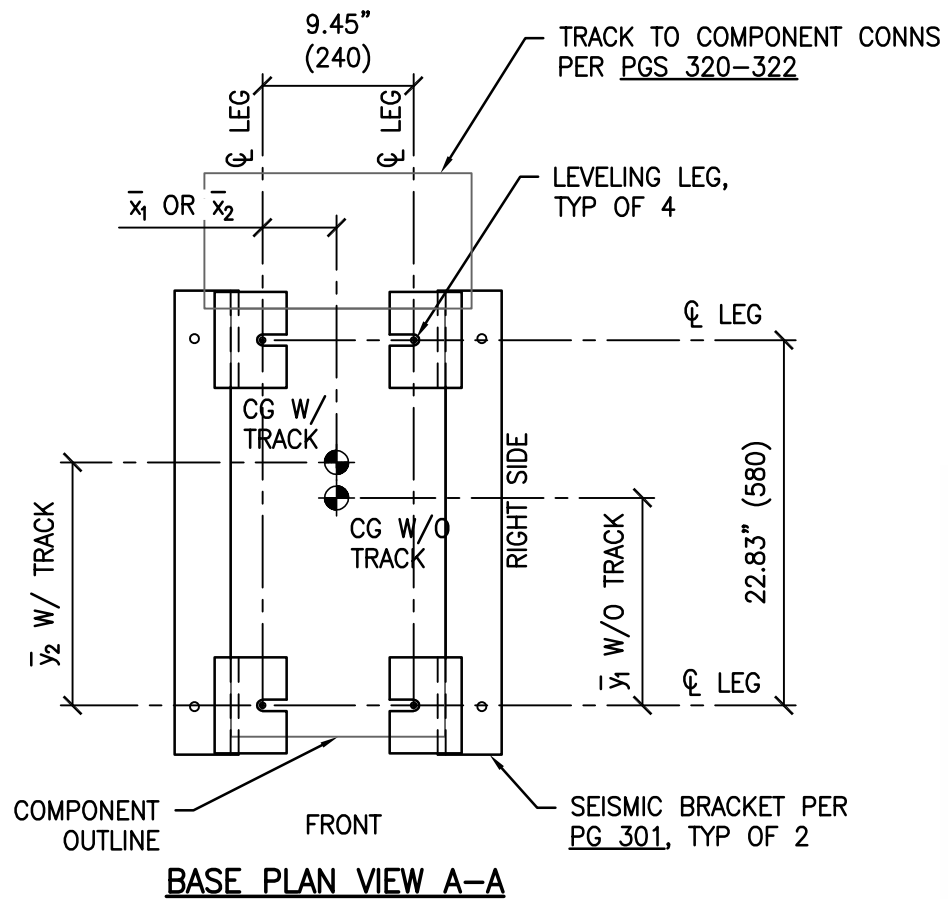
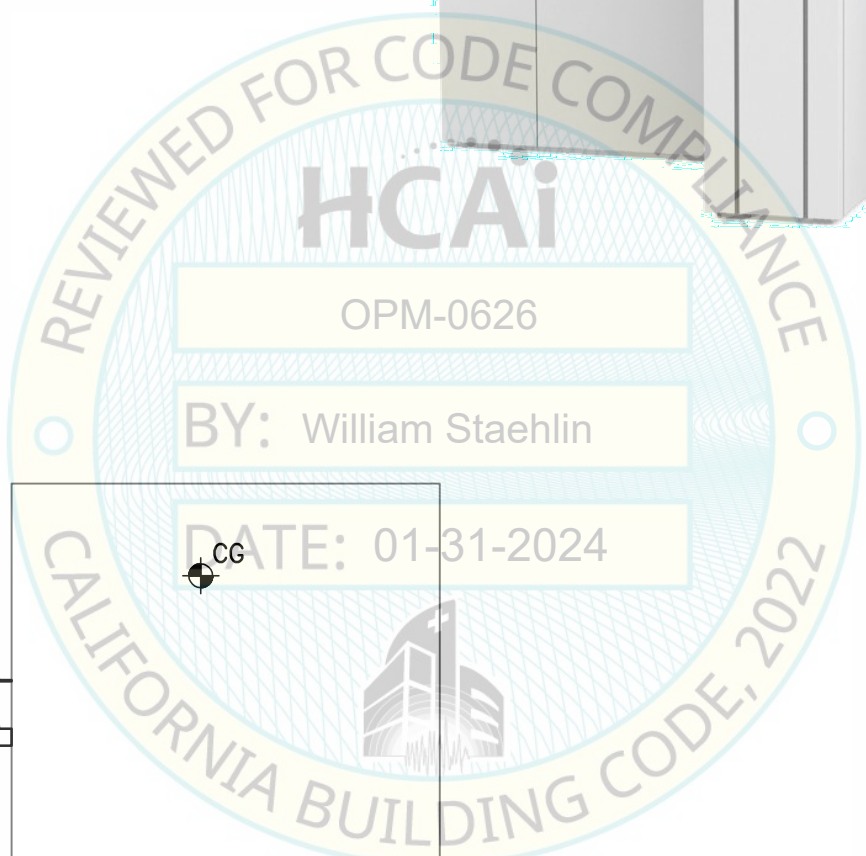
SHEET TITLE: FLOOR SUPPORTED MODULE: RECAPPER MODULE - SINGLE (RM) BASE PLAN & ELEVATIONS				Rev	Description	Date	Job No: 20097.02
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS				CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com		Date: 10/03/2023	By: CYS
						Page: 210.09	

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MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2398#	2794#	423#
CASE 2 ¹	1422#	1818#	255#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



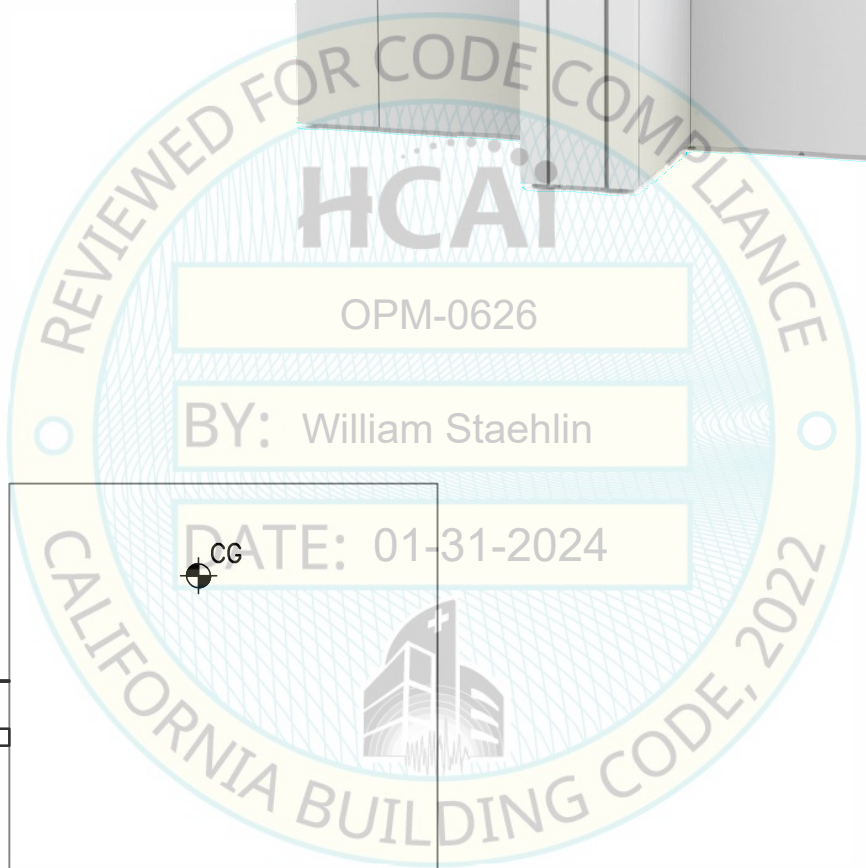
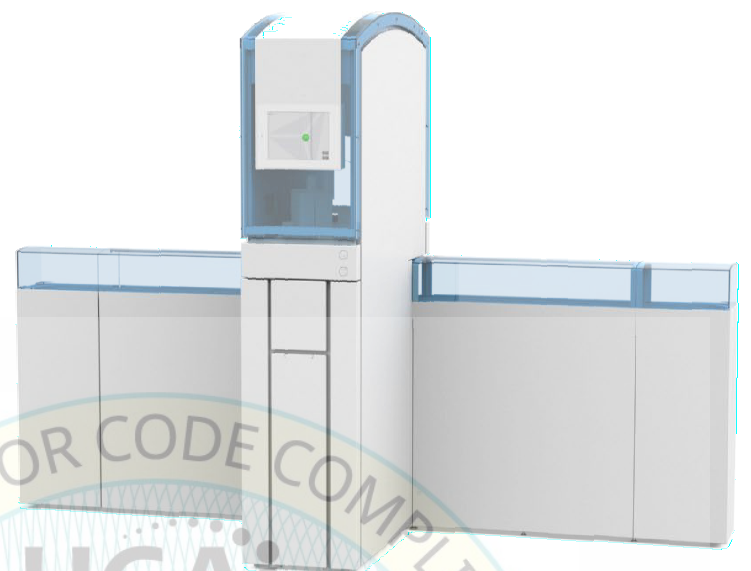
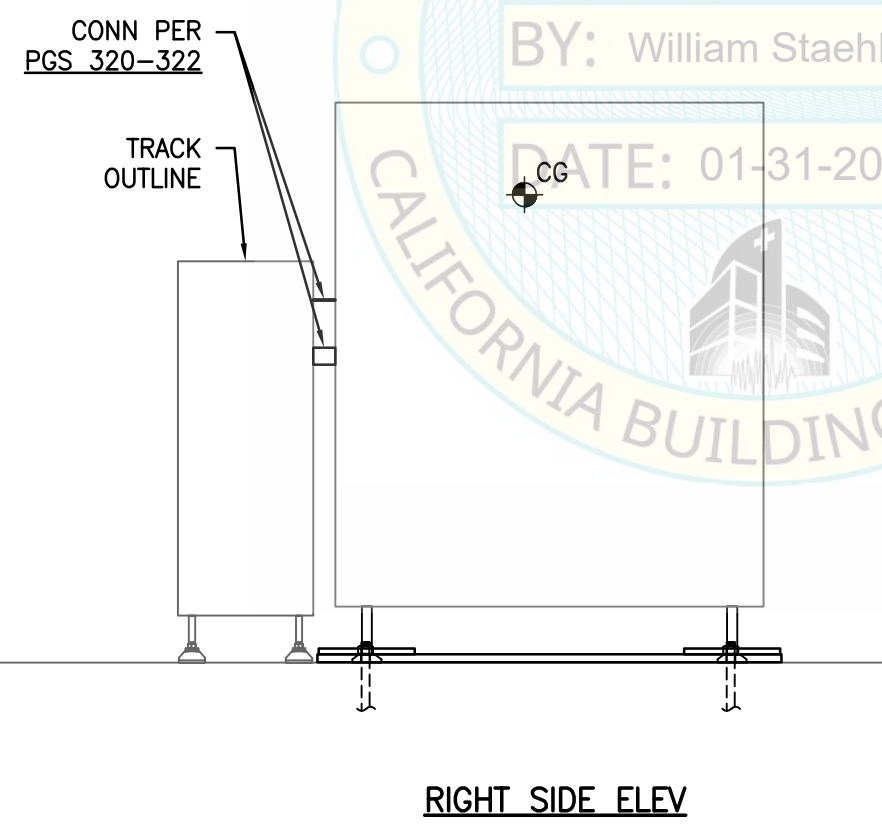
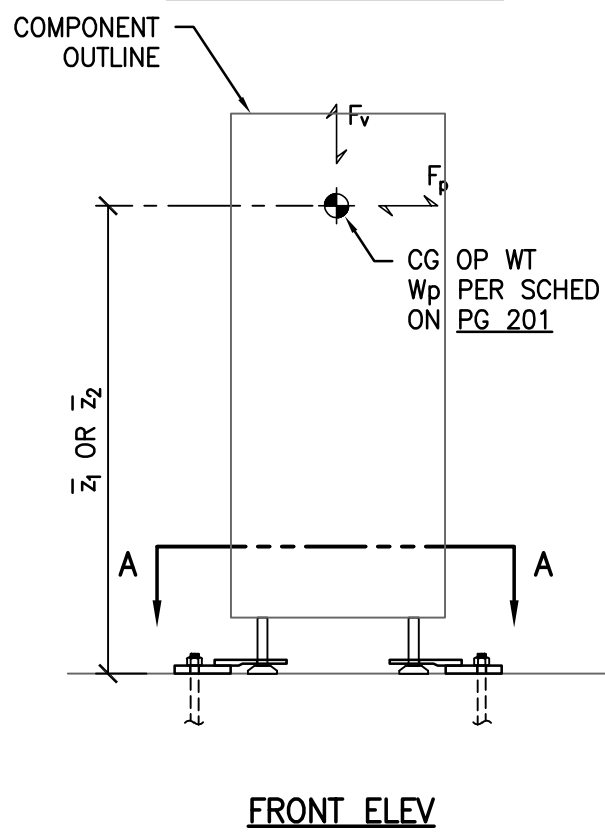
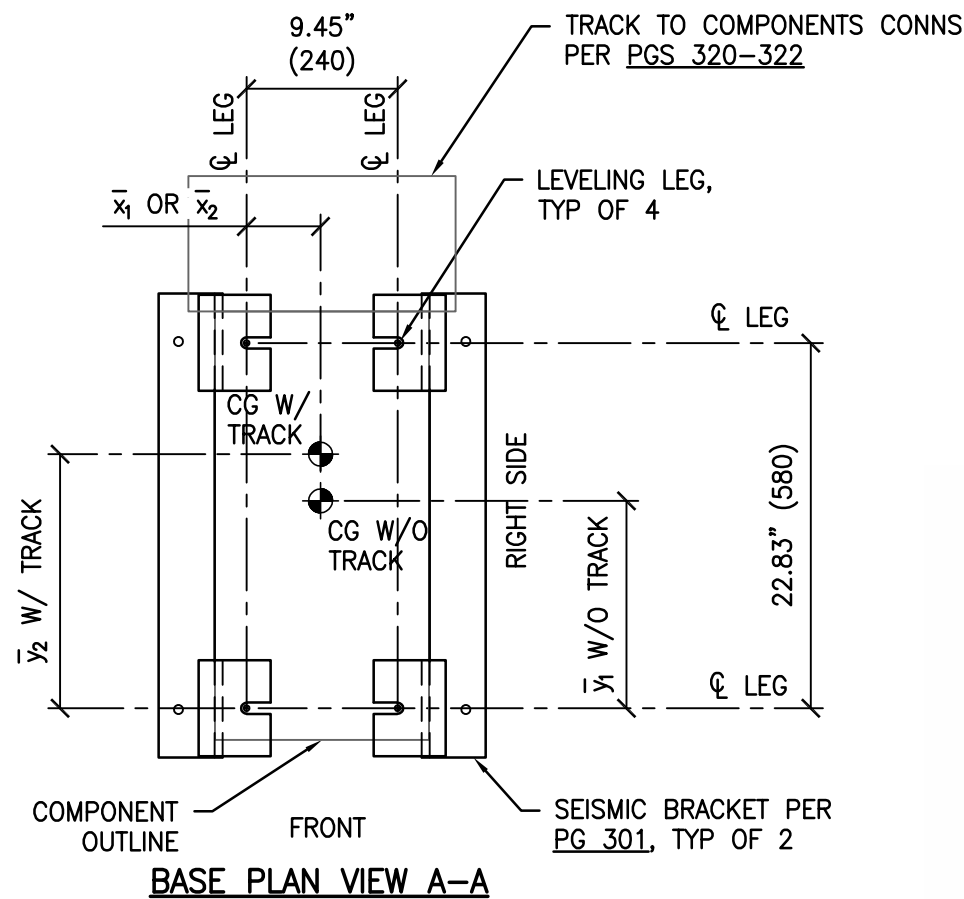
NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



SHEET TITLE: FLOOR SUPPORTED MODULE: RECAPPER MODULE - DOUBLE (RM DBL) BASE PLAN & ELEVATIONS				Rev	Description	Date	Job No: 20097.02
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS				CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com		Date: 10/03/2023	By: CYS
						Page: 210.10	

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NOTE:
 x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2119#	2447#	353#
CASE 2 ¹	1261#	1589#	213#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



SHEET TITLE: FLOOR SUPPORTED MODULE: REMOVER MODULE - SMALL (REM S)
 BASE PLAN & ELEVATIONS



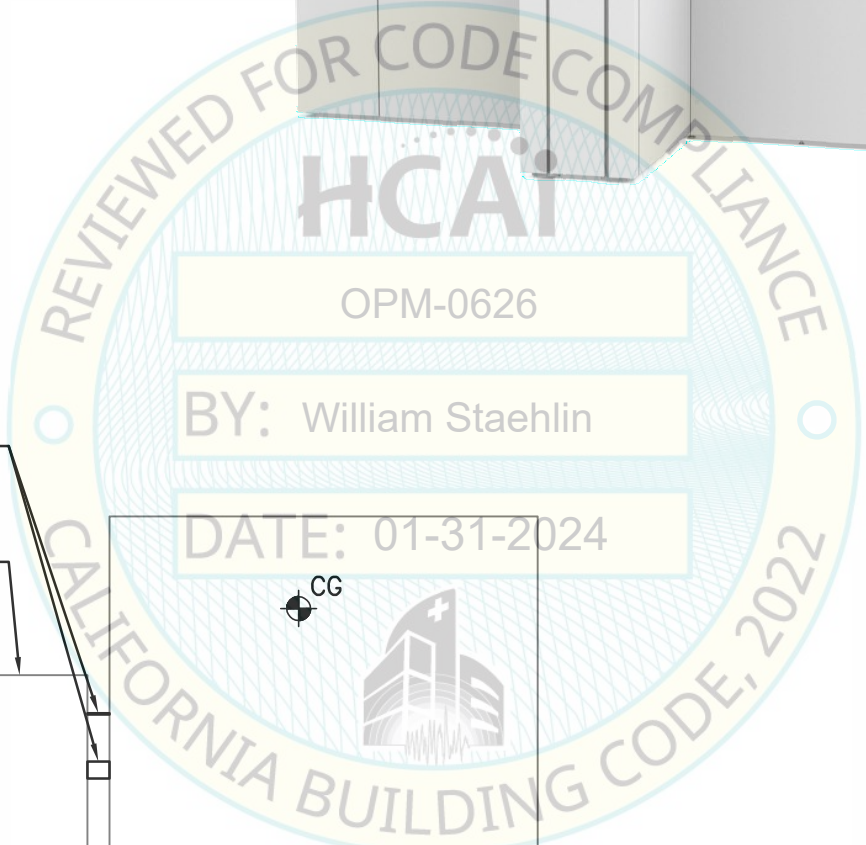
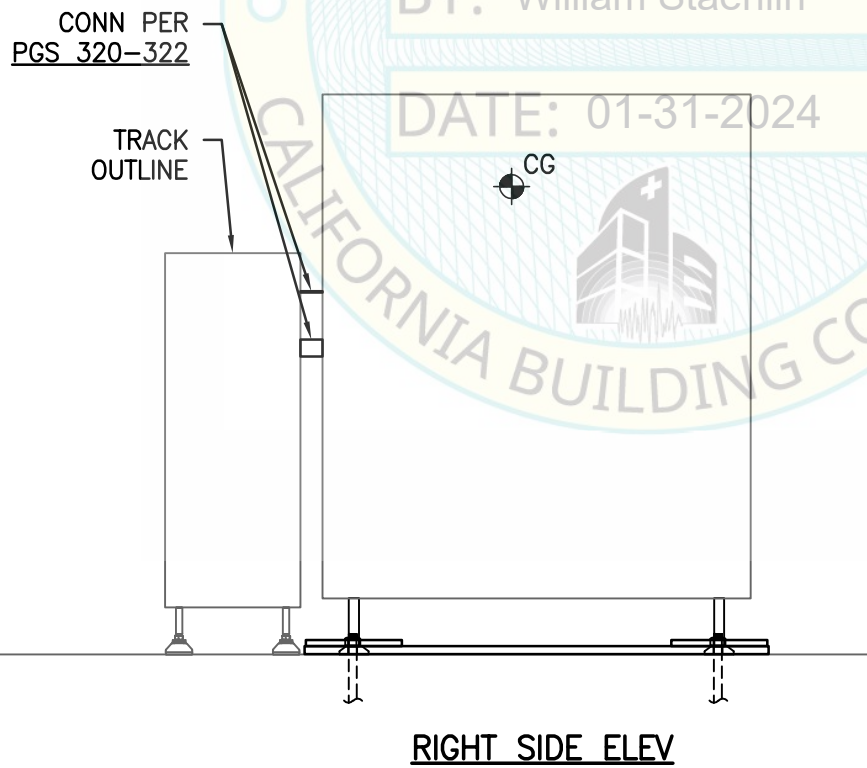
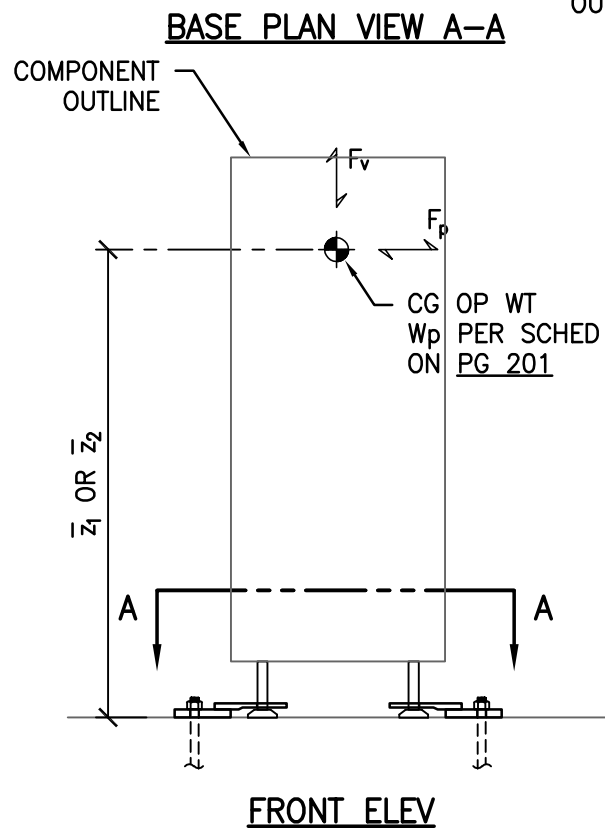
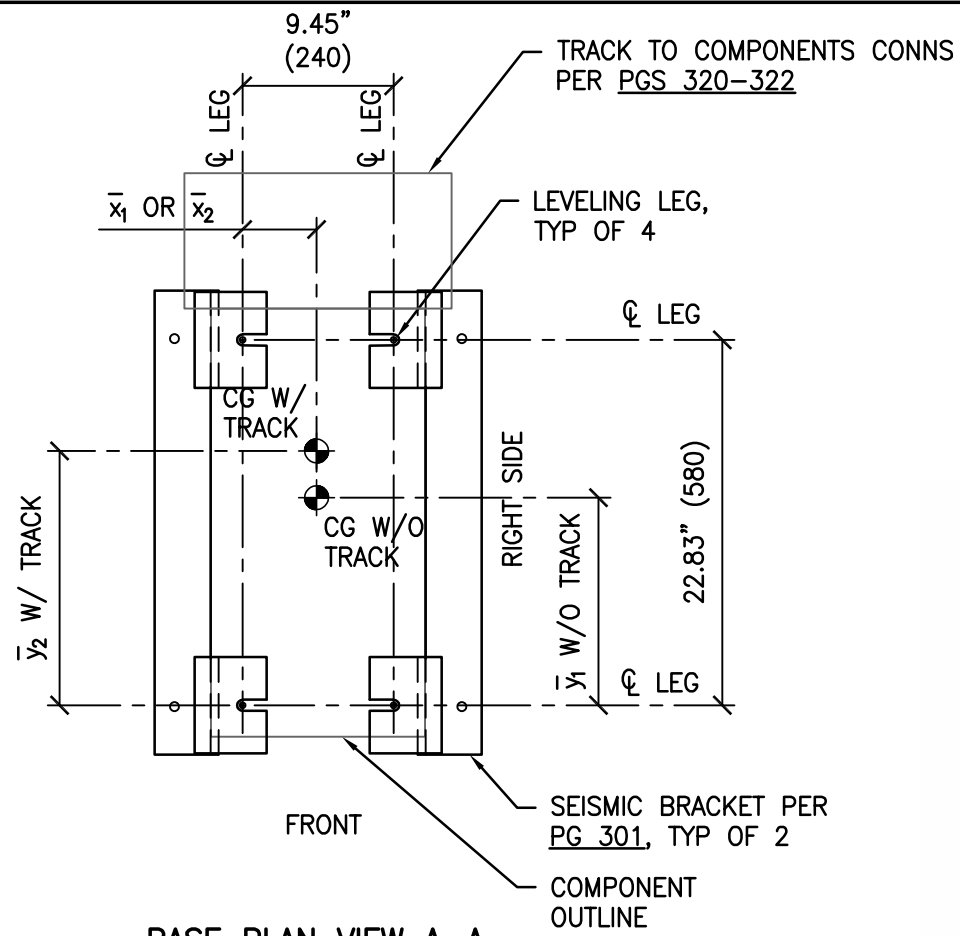
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS



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			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.11

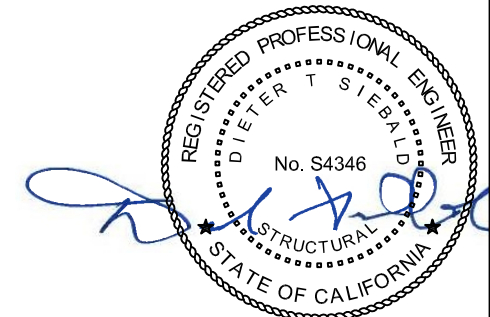


NOTE:
 x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2234#	2577#	372#
CASE 2 ¹	1329#	1672#	224#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULE: REMOVER MODULE - SMALL LARGE (REM SL)
 BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS



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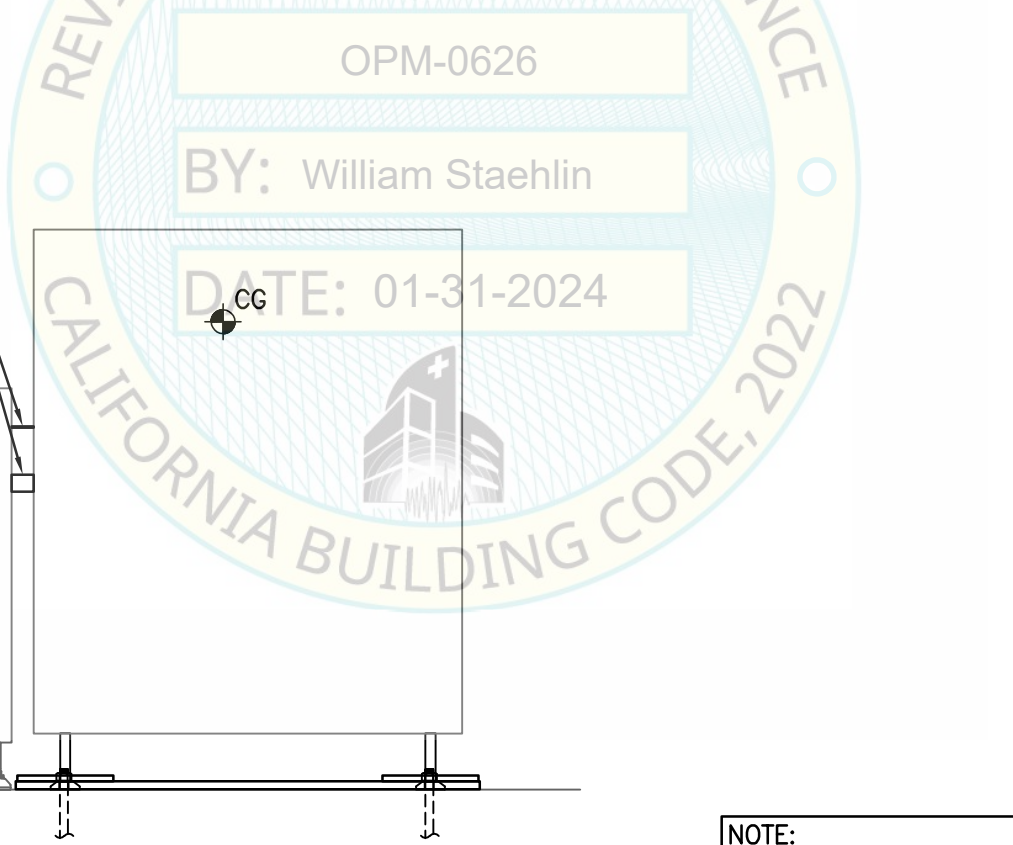
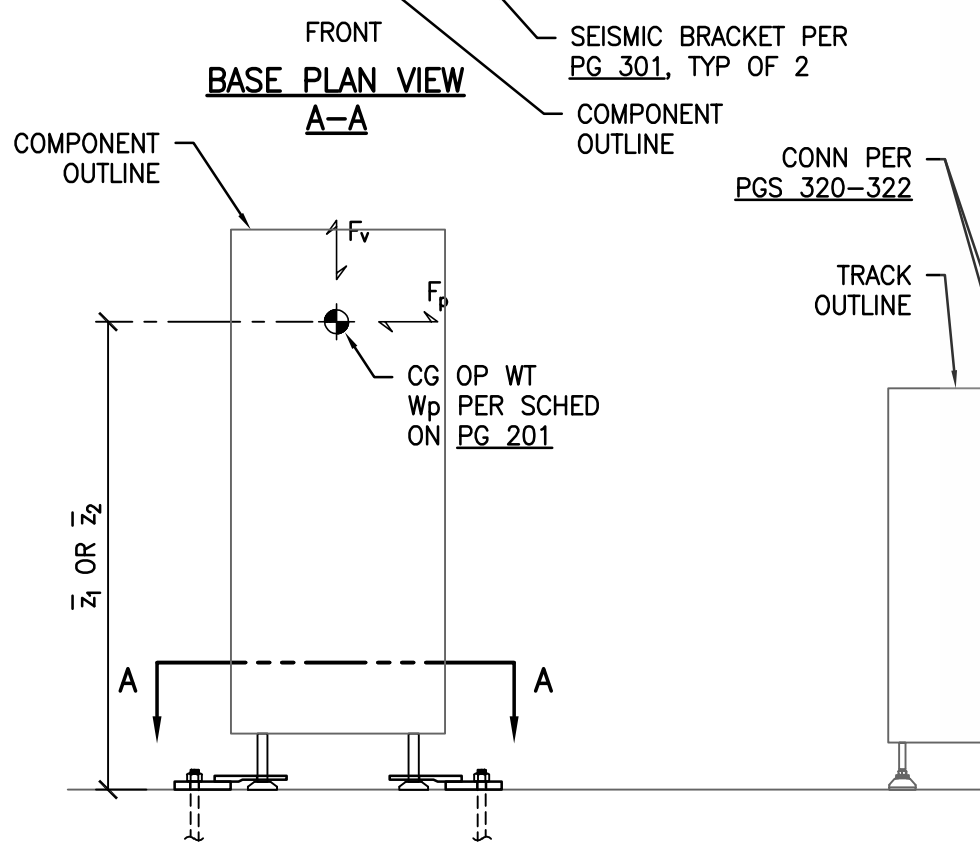
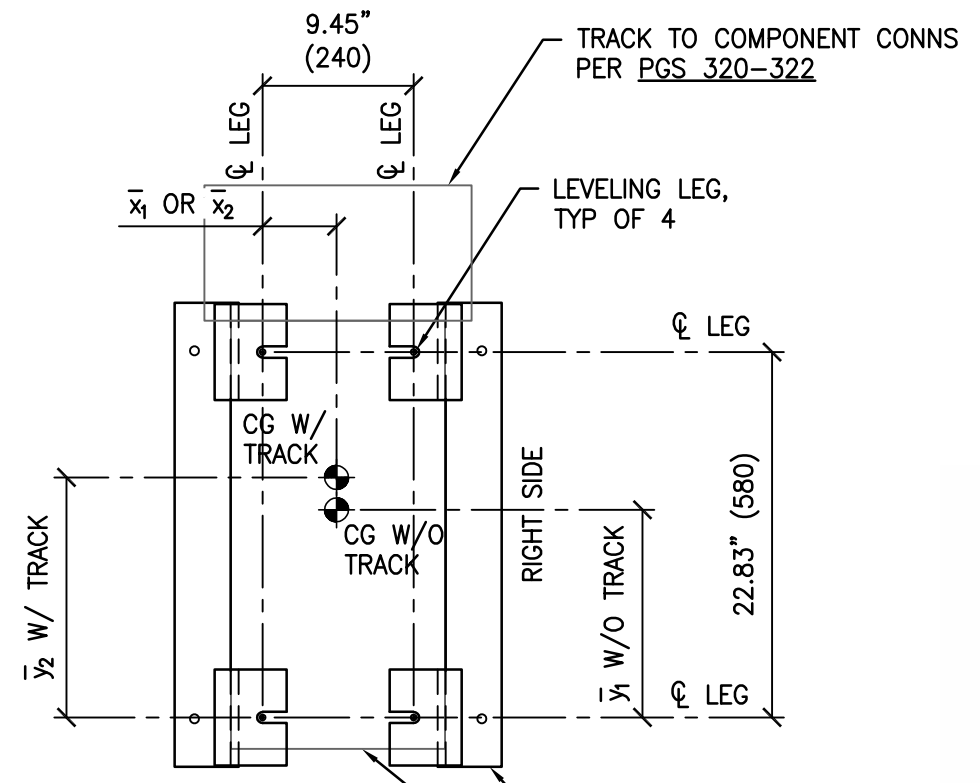
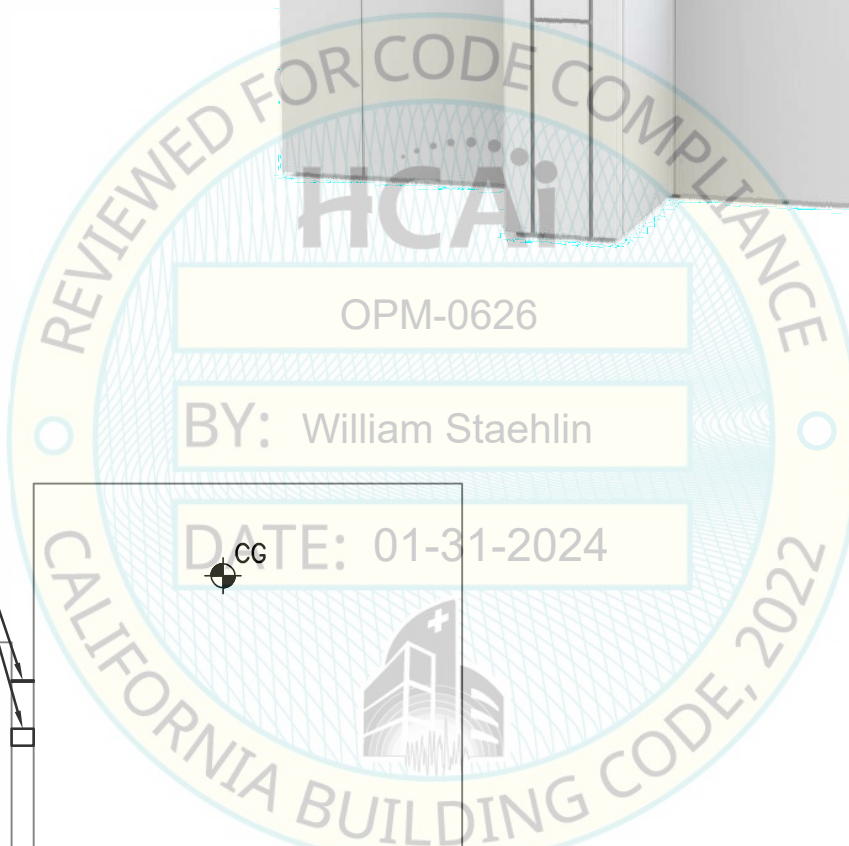
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.12

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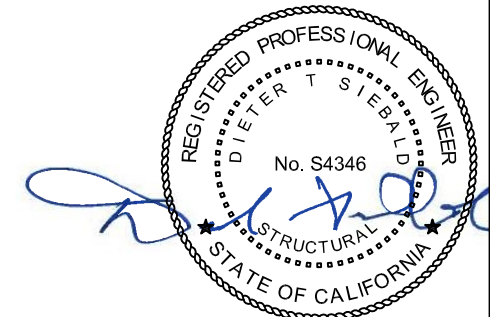
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	2474#	2872#	419#
CASE 2 ¹	1468#	1866#	252#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



NOT SEOR

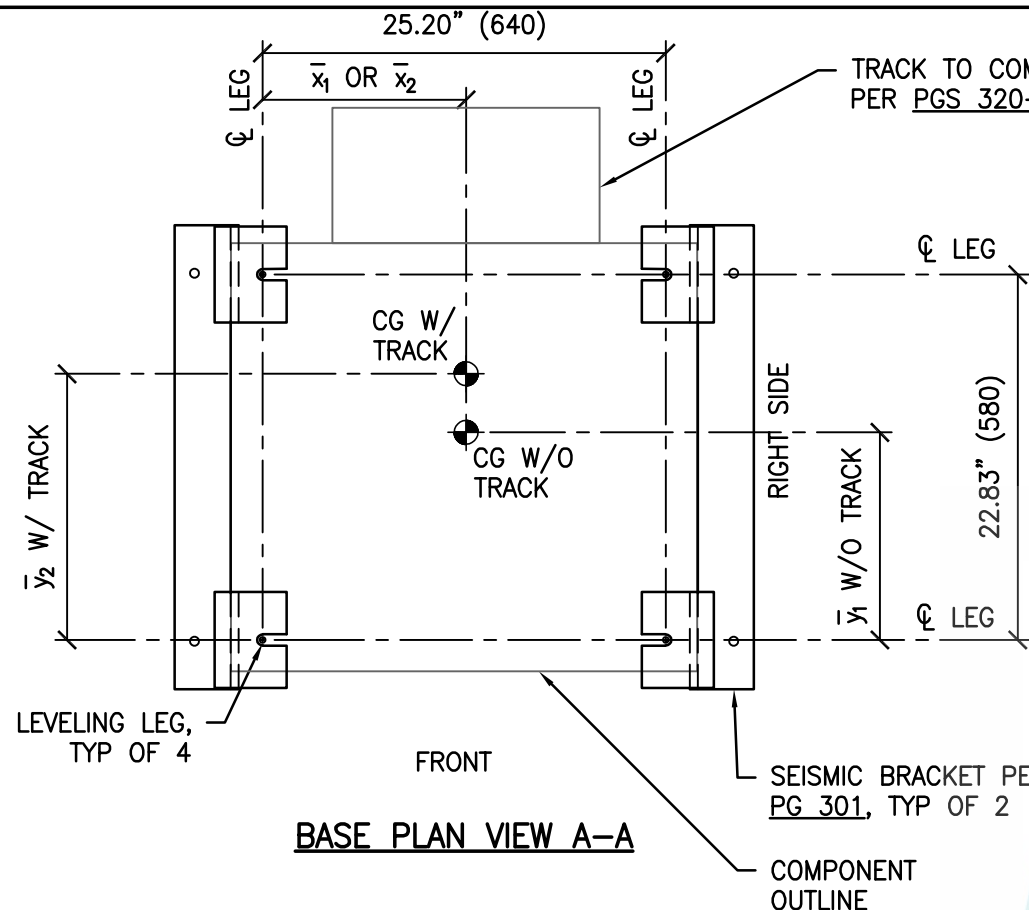
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SHEET TITLE: FLOOR SUPPORTED MODULE: SCREWCAPPER MODULE (SCCM)
BASE PLAN & ELEVATIONS

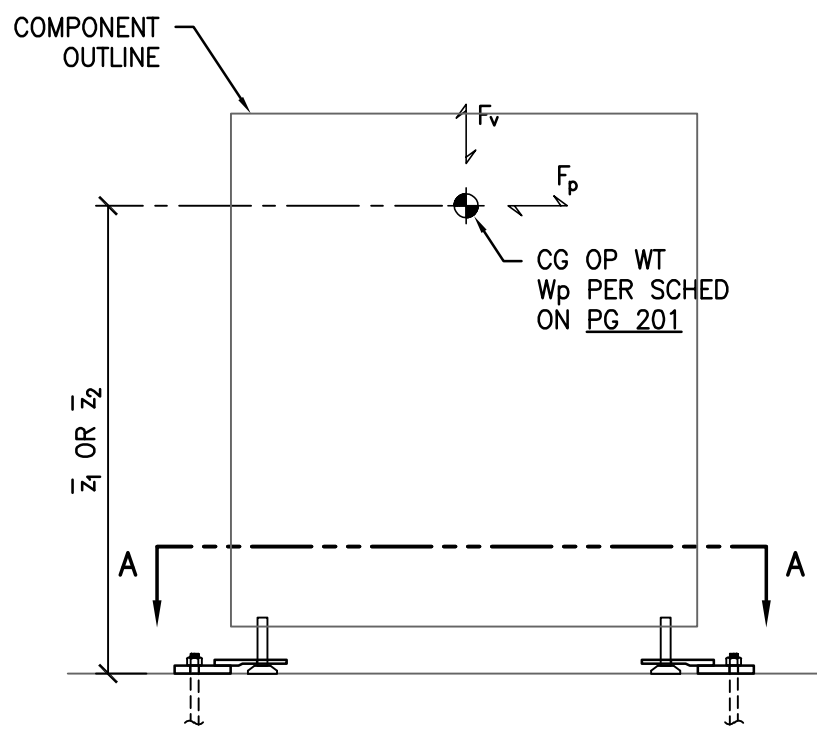
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
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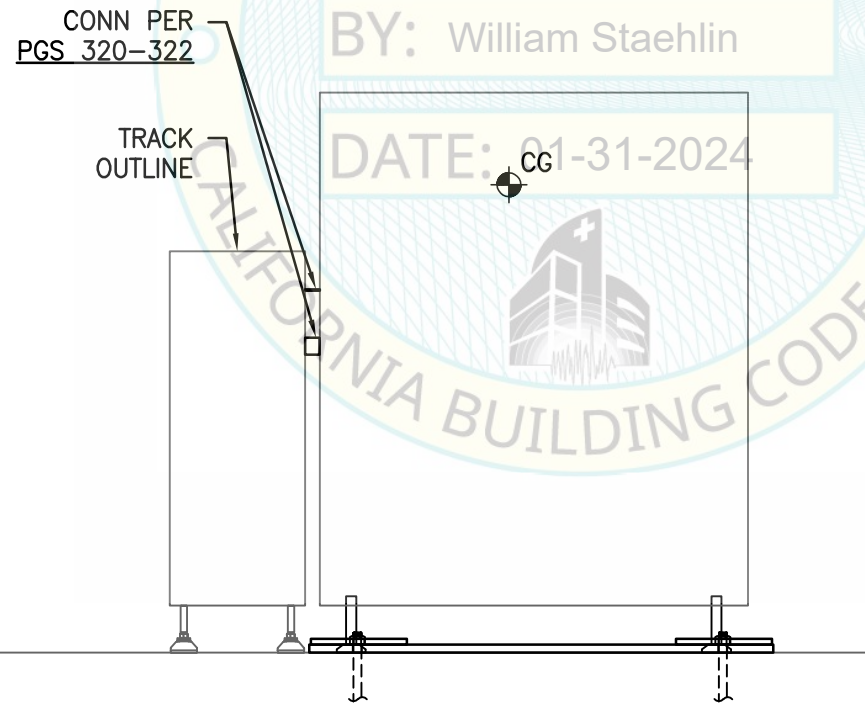
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.13



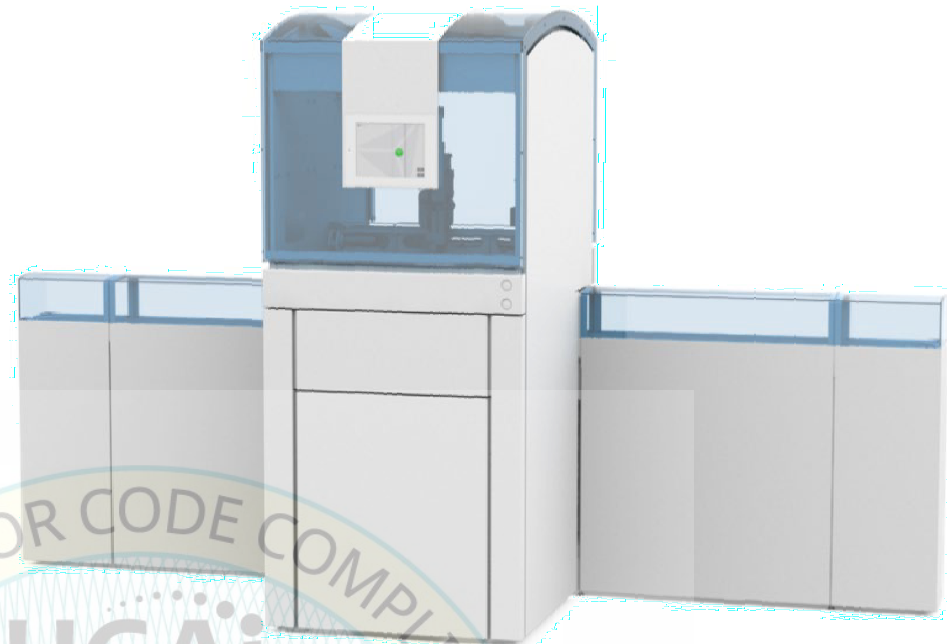
BASE PLAN VIEW A-A



FRONT ELEV



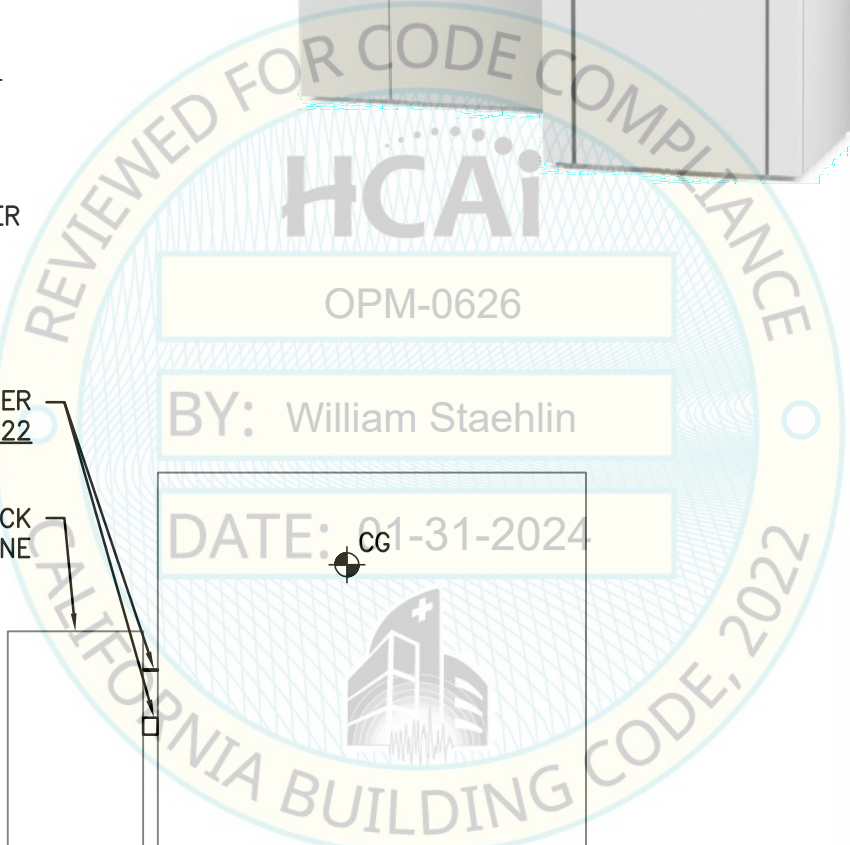
RIGHT SIDE ELEV



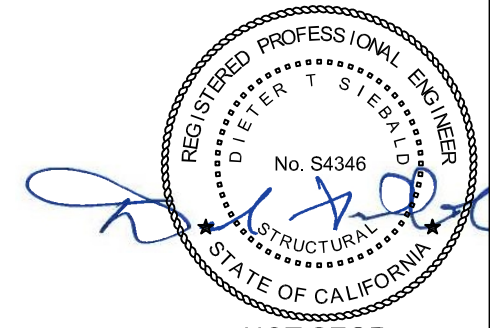
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	1307#	1694#	378#
CASE 2 ¹	771#	1158#	228#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



SHEET TITLE: FLOOR SUPPORTED MODULE: BUFFER MODULE (BM)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



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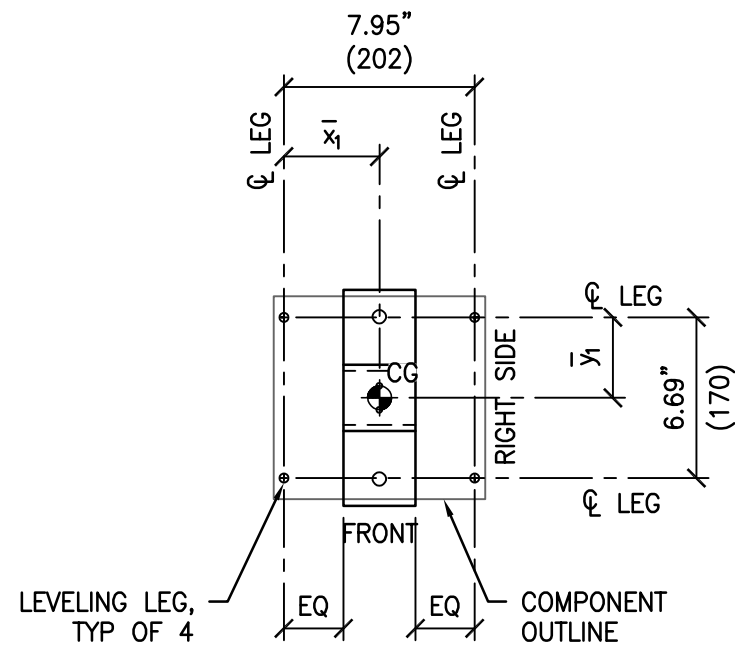
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.14

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MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	294#	321#	40#
CASE 2 ¹	163#	191#	22#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



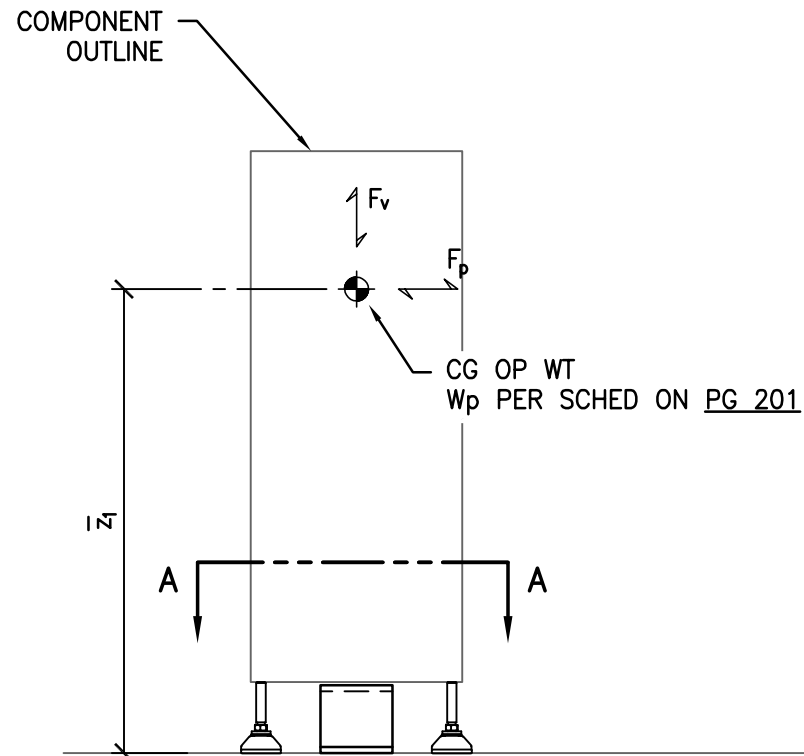
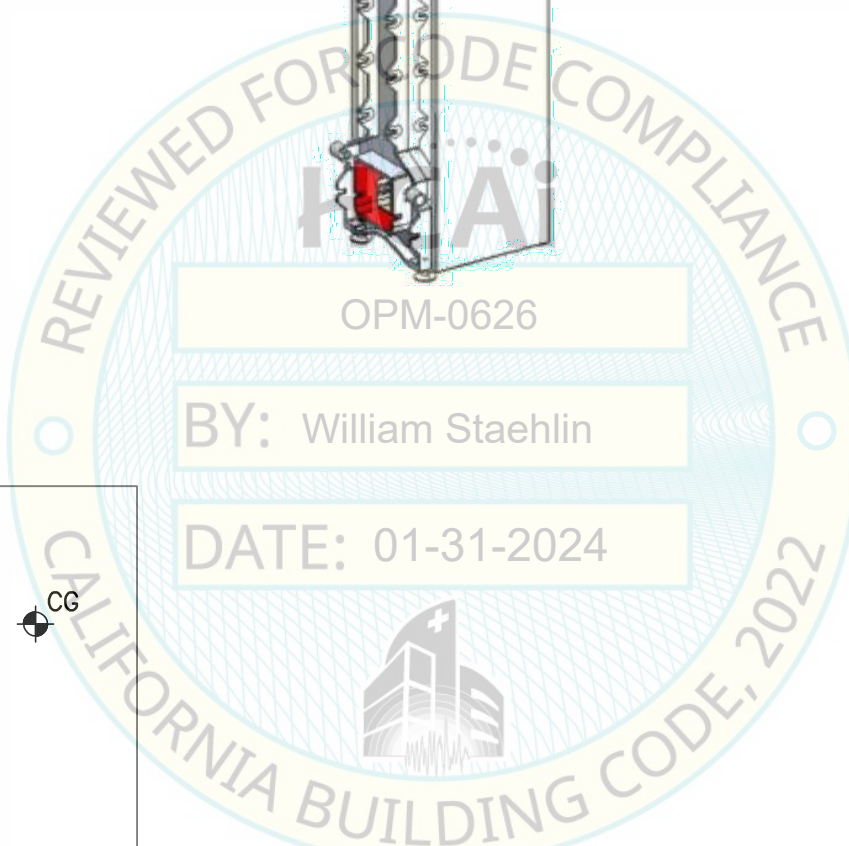
BASE PLAN VIEW A-A



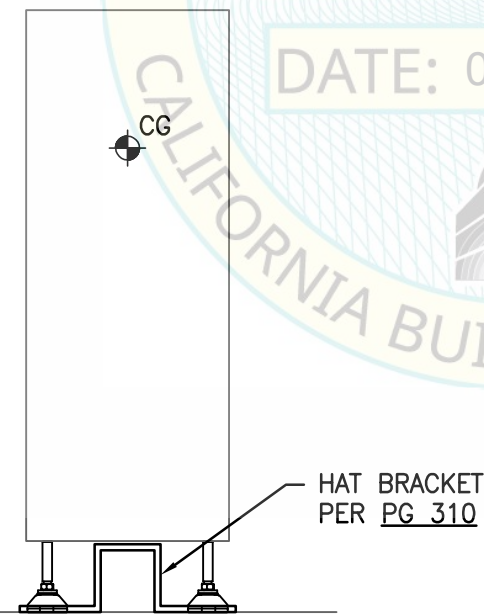
OPM-0626

BY: William Staehlin

DATE: 01-31-2024



FRONT ELEV



RIGHT SIDE ELEV

- NOTES:
1. FOR CONFIGURATIONS W/ MULTIPLE STRAIGHT TRACK SECTIONS IN SERIES, REFER TO PGS 203 & 204.
 2. x, y & z DIMS ARE PER SCHEDULE ON PG 201.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: STRAIGHT SECTION - 20cm
BASE PLAN & ELEVATIONS

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			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.15



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

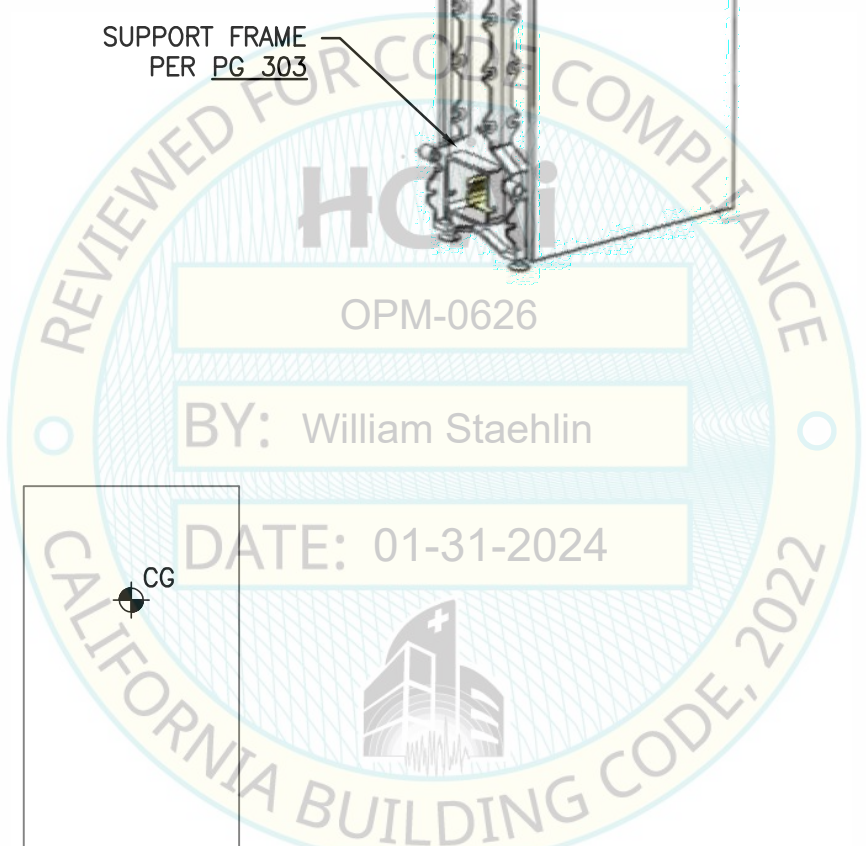
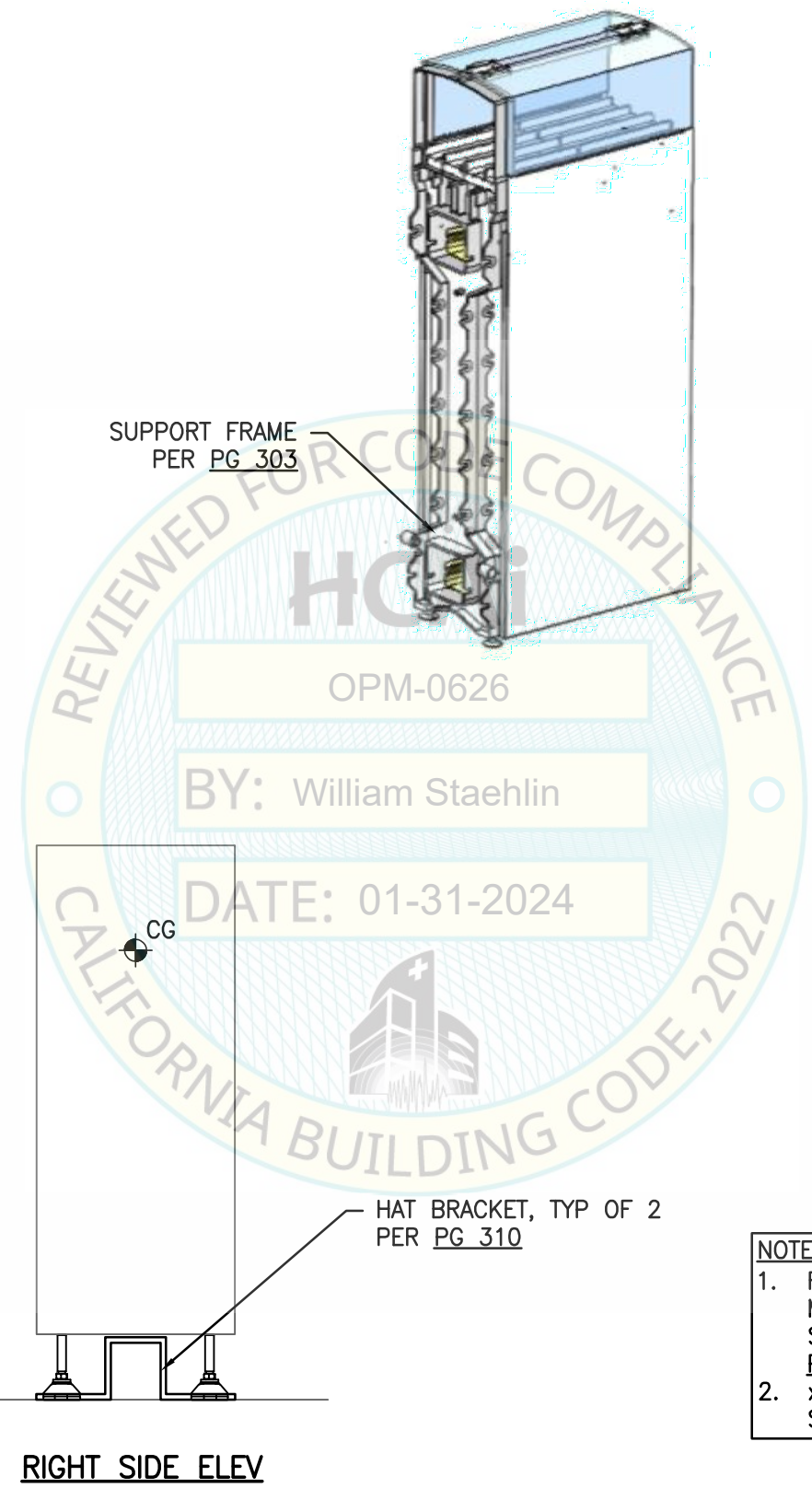
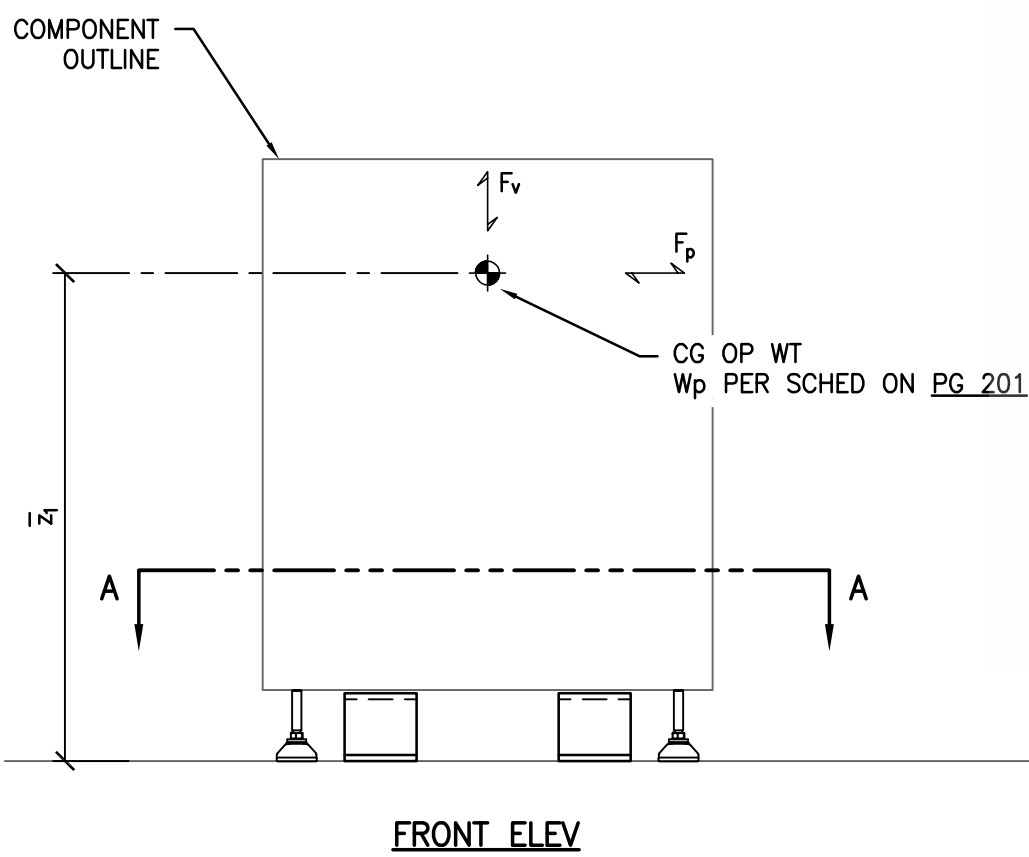
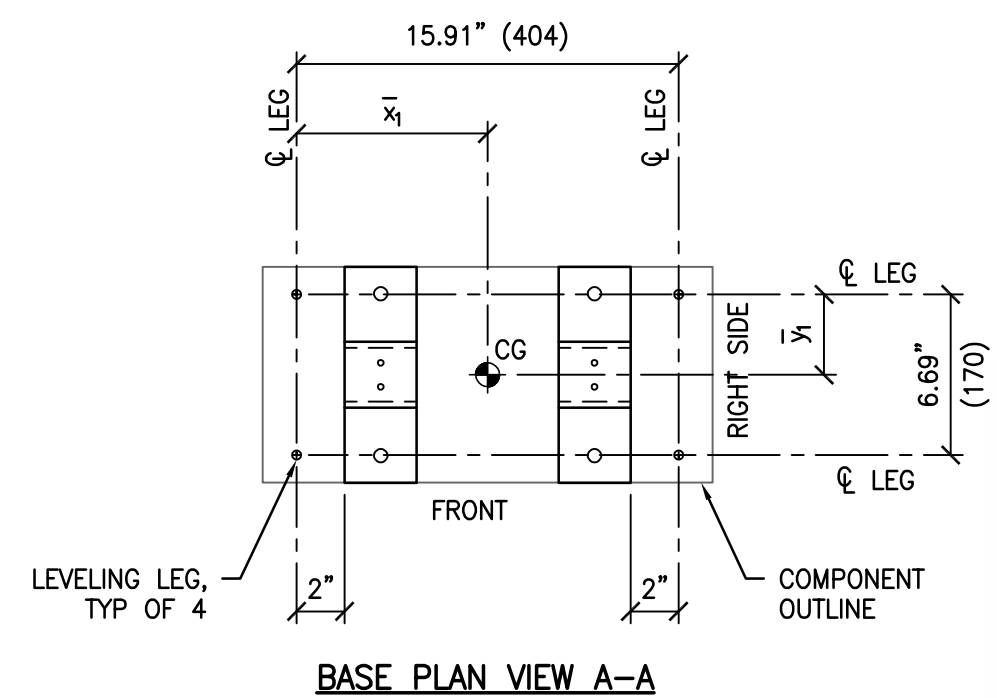
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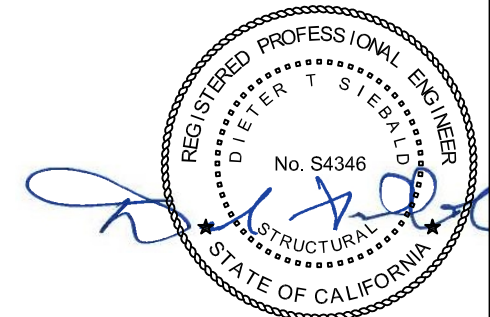
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	488#	552#	81#
CASE 2 ¹	272#	335#	46#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



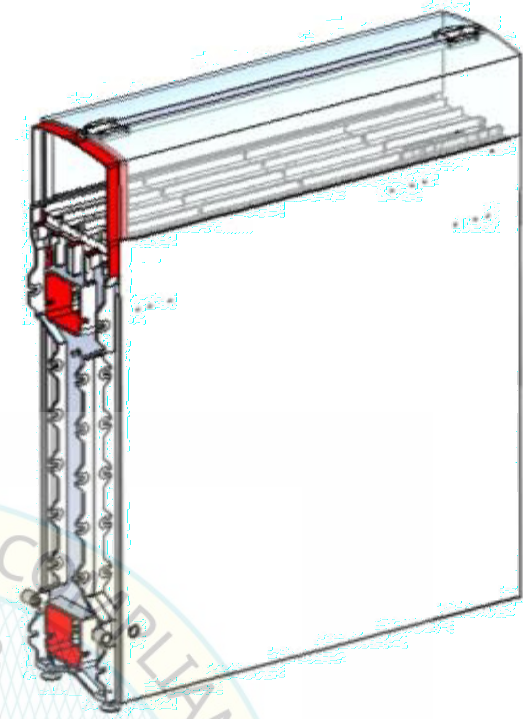
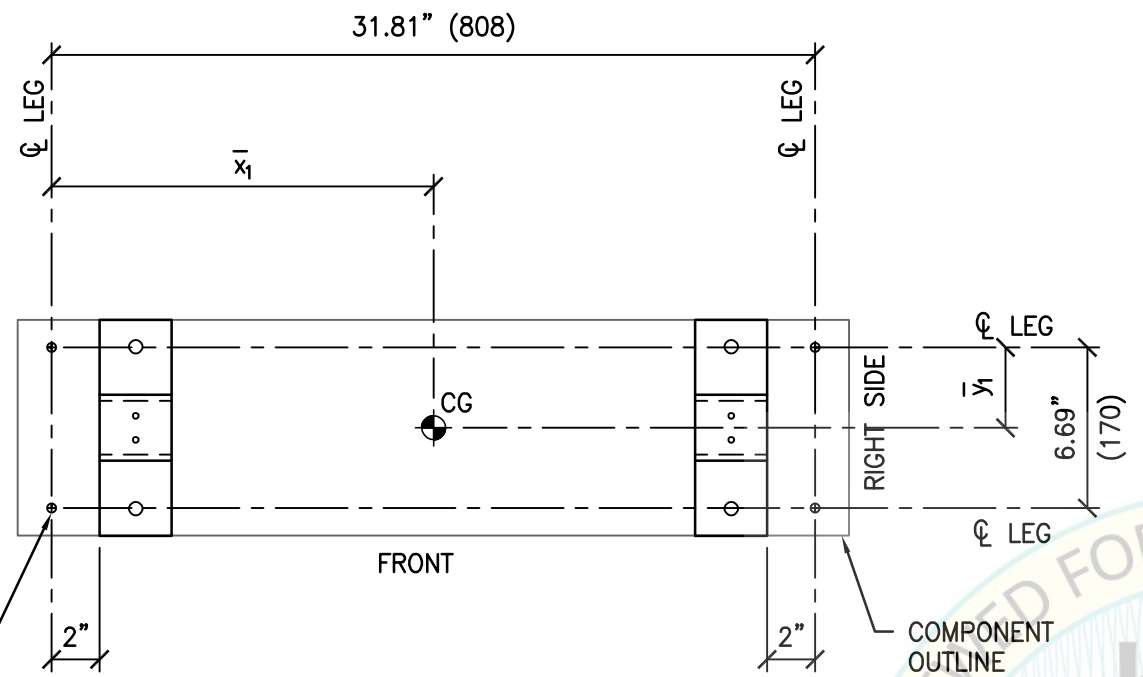
- NOTES:
1. FOR CONFIGURATIONS W/ MULTIPLE STRAIGHT TRACK SECTIONS IN SERIES, REFER TO PGS 203 & 204.
 2. x, y & z DIMS ARE PER SCHEDULE ON PG 201.



NOT SEOR

<p>ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS</p>	<p>CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com</p>	Rev	Description	Date	Job No: 20097.02
					Date: 10/03/2023
					By: CYS
					Page: 210.16

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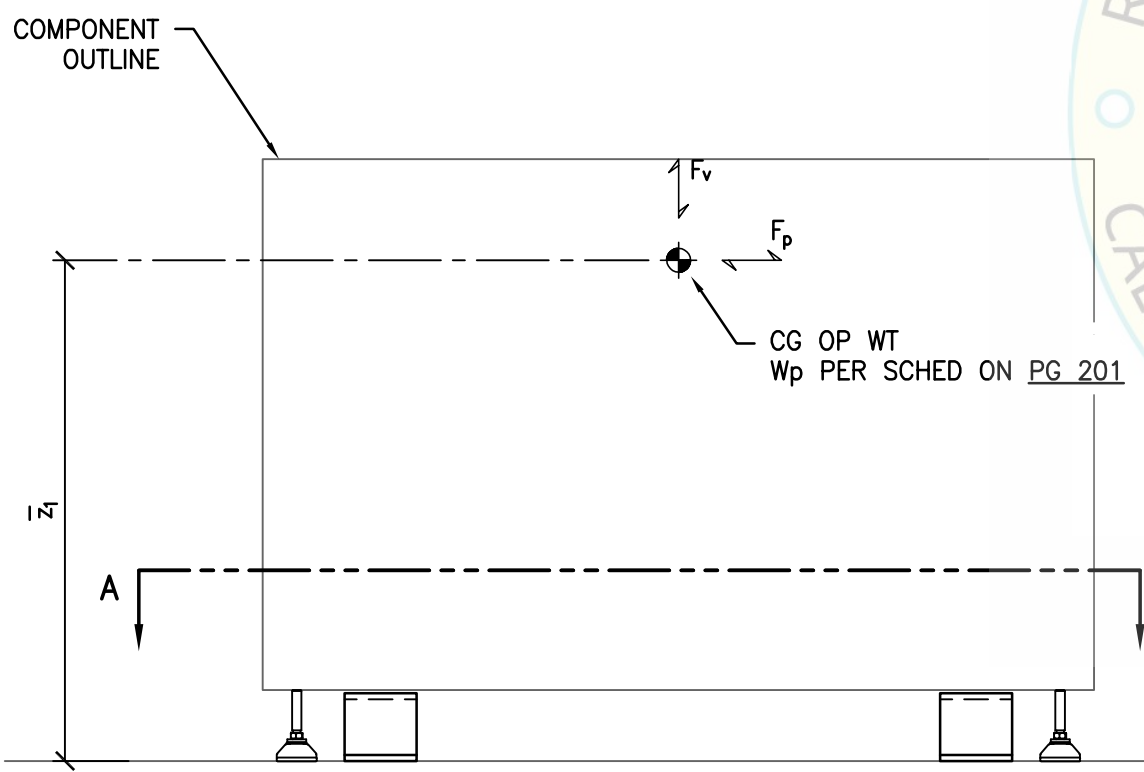
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	778#	882#	129#
CASE 2 ¹	433#	537#	73#

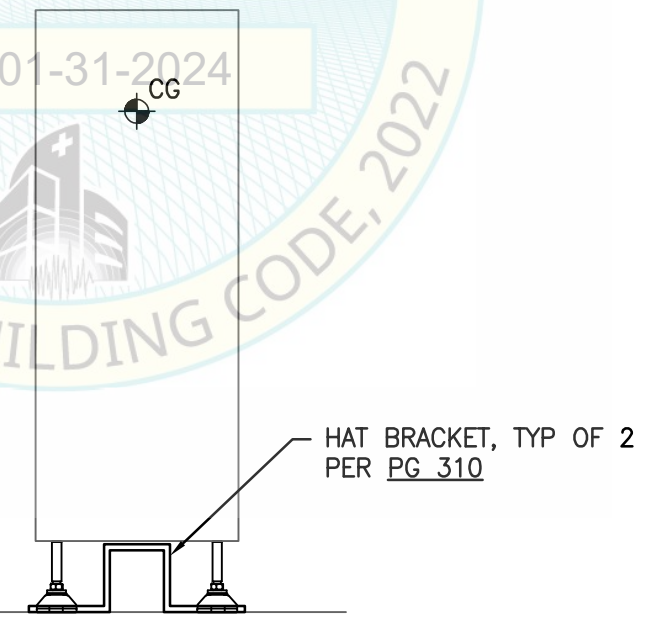
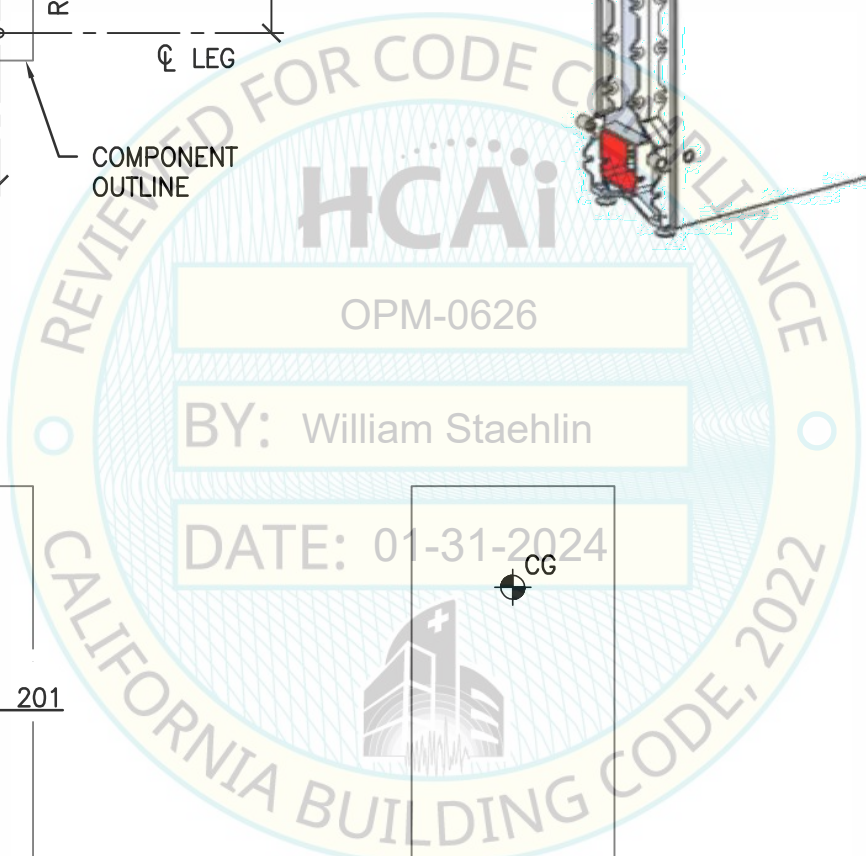
1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

LEVELING LEG, TYP OF 4

BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

- NOTES:
1. FOR CONFIGURATIONS W/ MULTIPLE STRAIGHT TRACK SECTIONS IN SERIES, REFER TO PGS 203 & 204.
 2. x, y & z DIMS ARE PER SCHEDULE ON PG 201.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: STRAIGHT SECTION - 80cm
BASE PLAN & ELEVATIONS



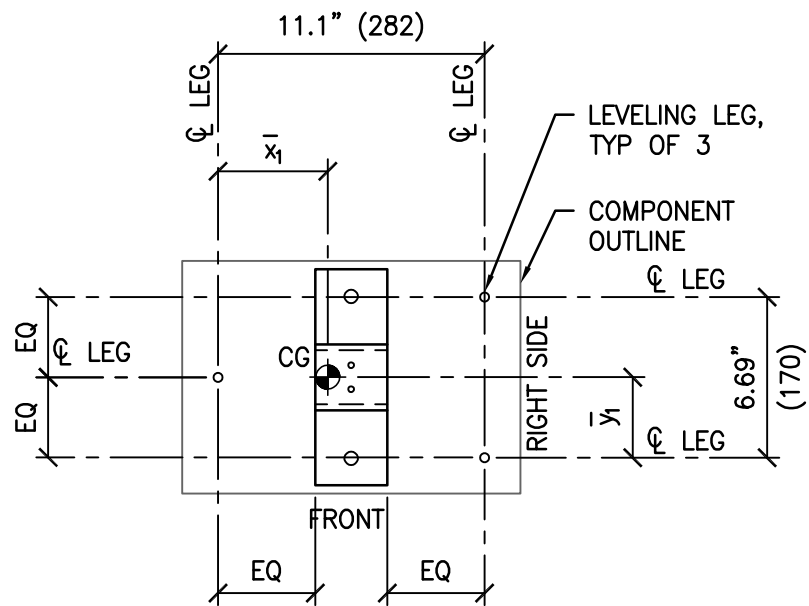
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



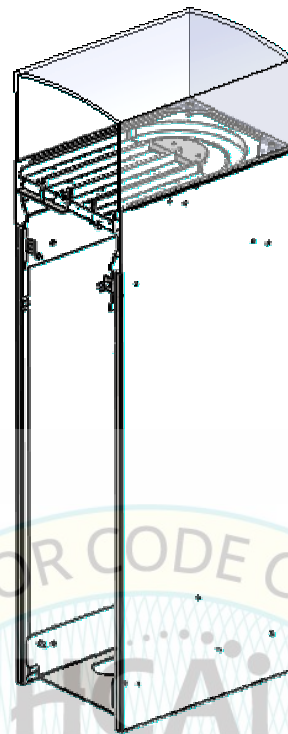
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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.17

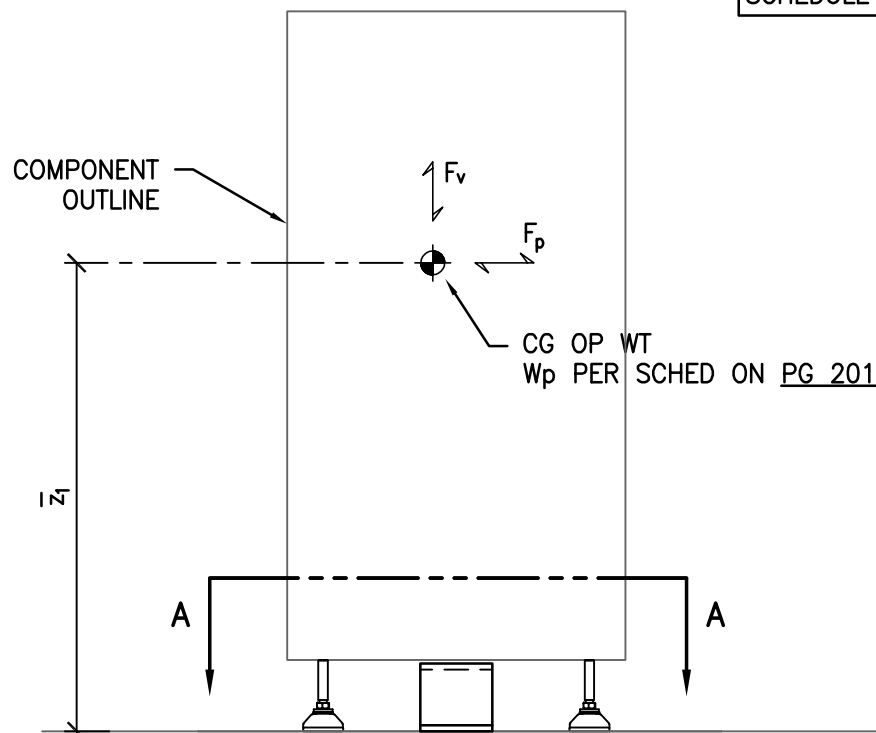
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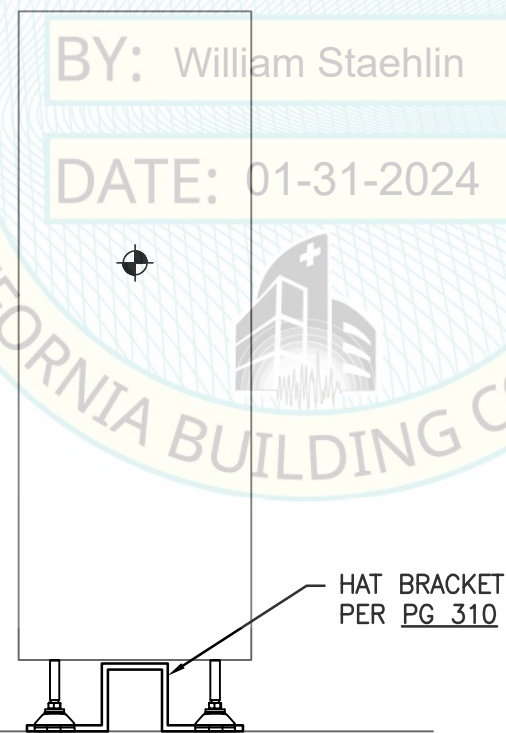
BASE PLAN VIEW A-A



NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



FRONT ELEV

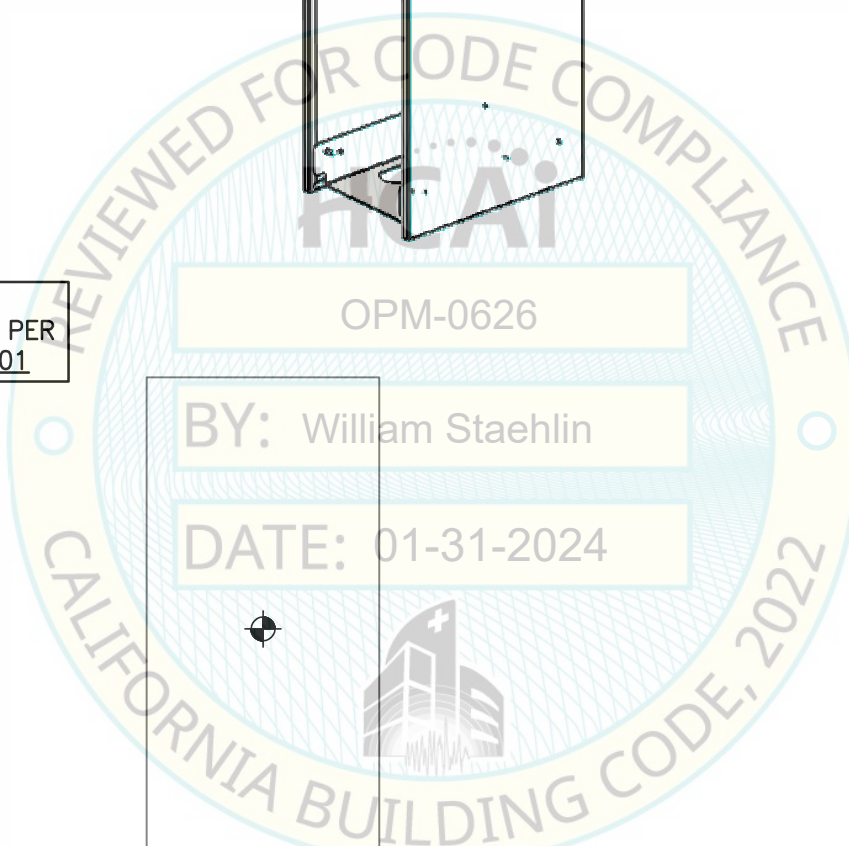


RIGHT SIDE ELEV

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	319#	292#	56#
CASE 2 ¹	178#	180#	32#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



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SHEET TITLE: FLOOR SUPPORTED TRACK: STRAIGHT SECTION - TRACK END
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

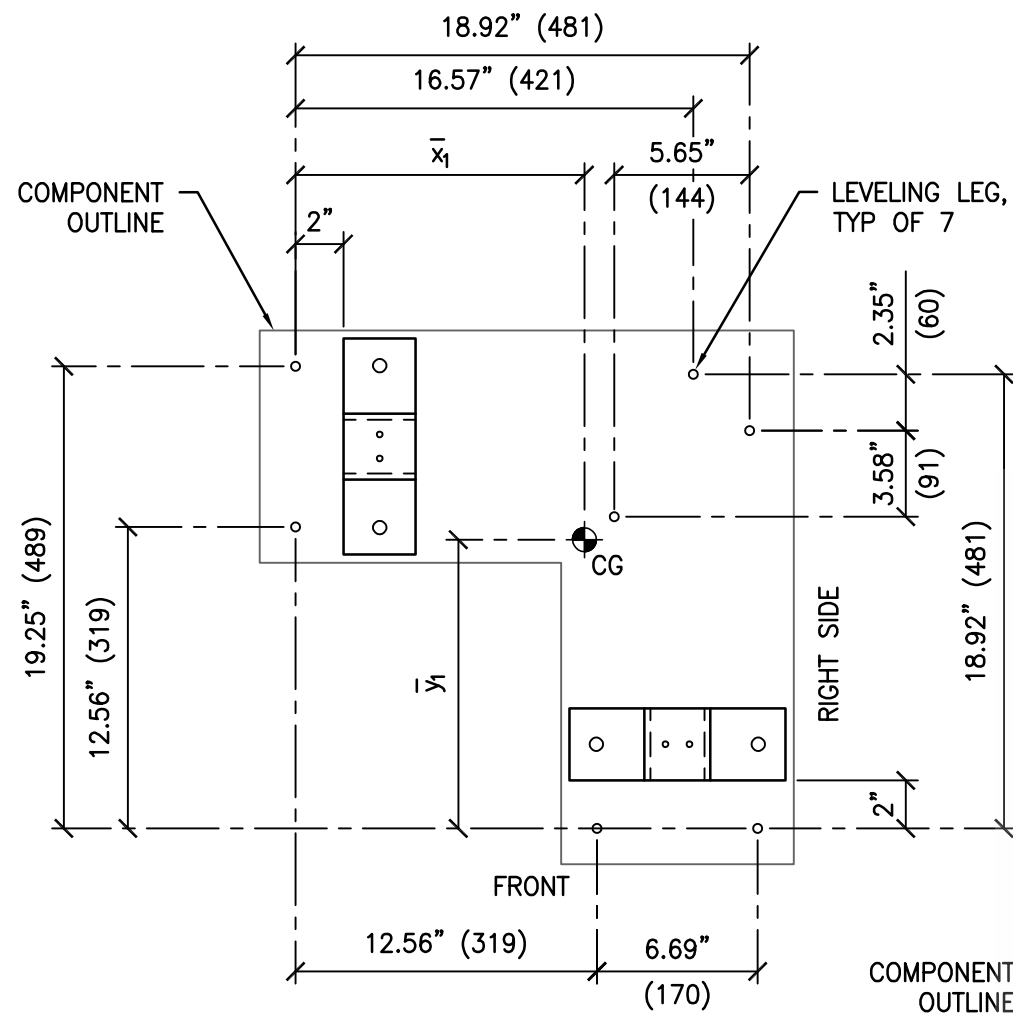


CYS STRUCTURAL ENGINEERS, INC.

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

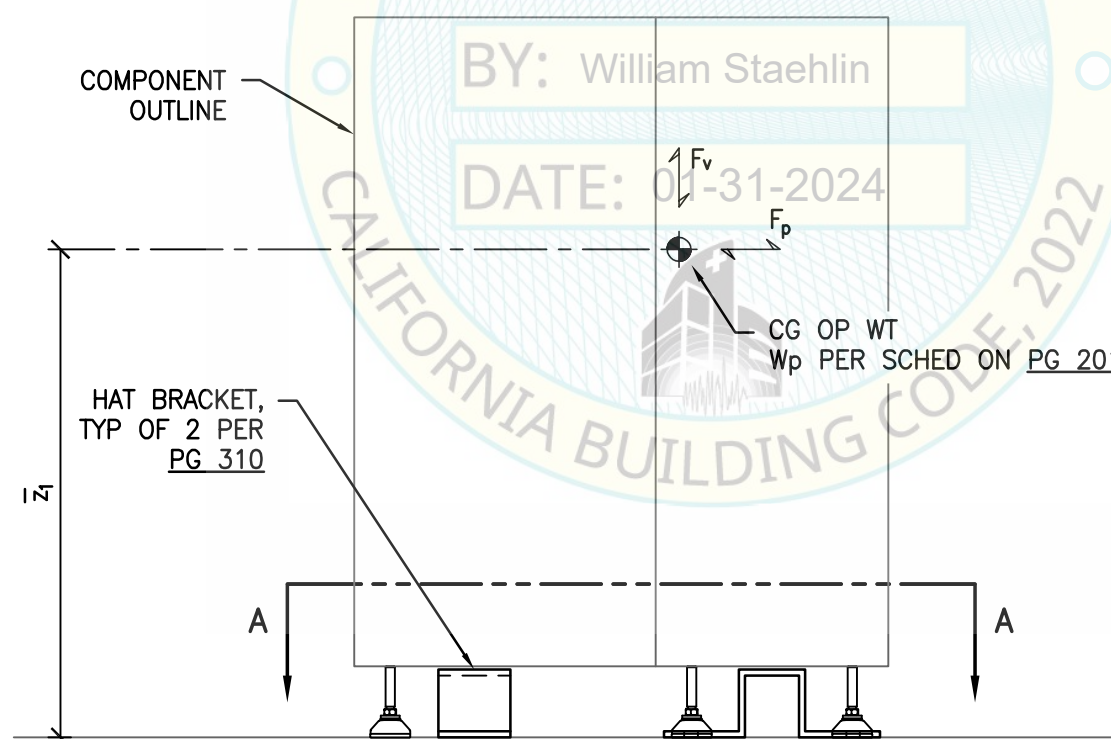
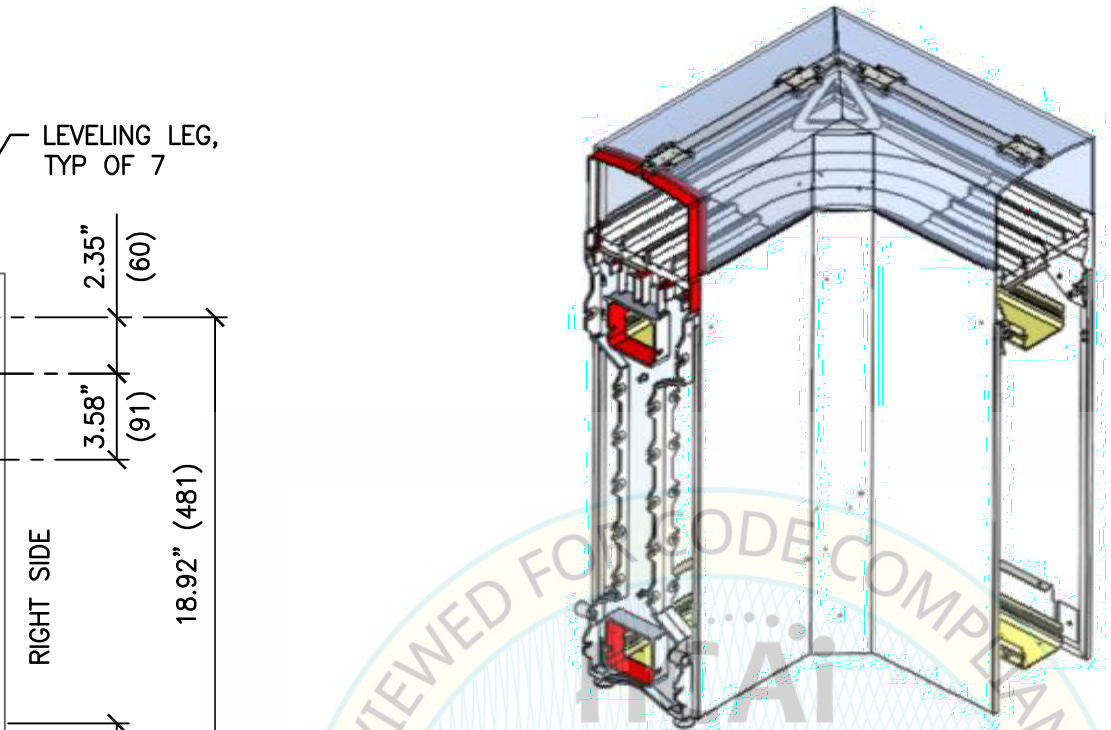
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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.18

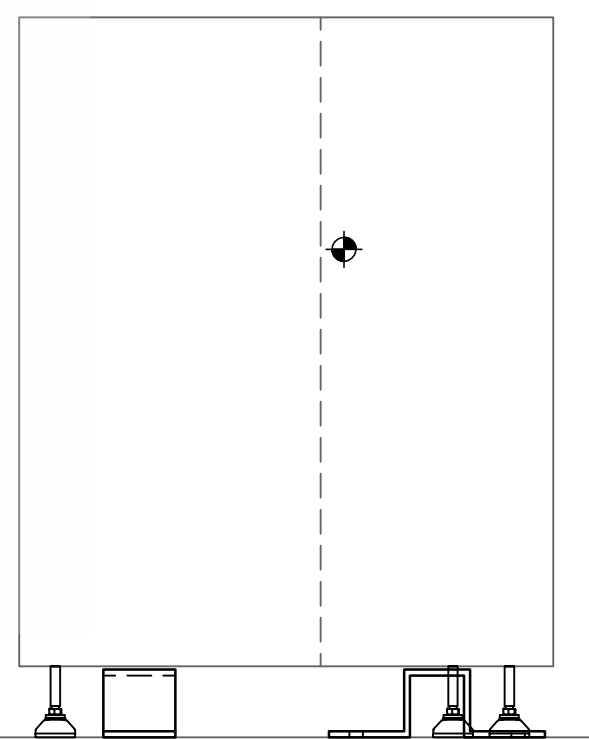


BASE PLAN VIEW A-A

NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



FRONT ELEV

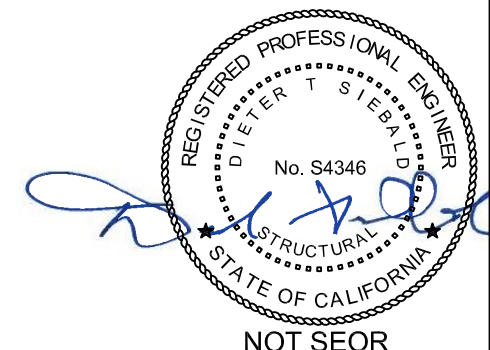
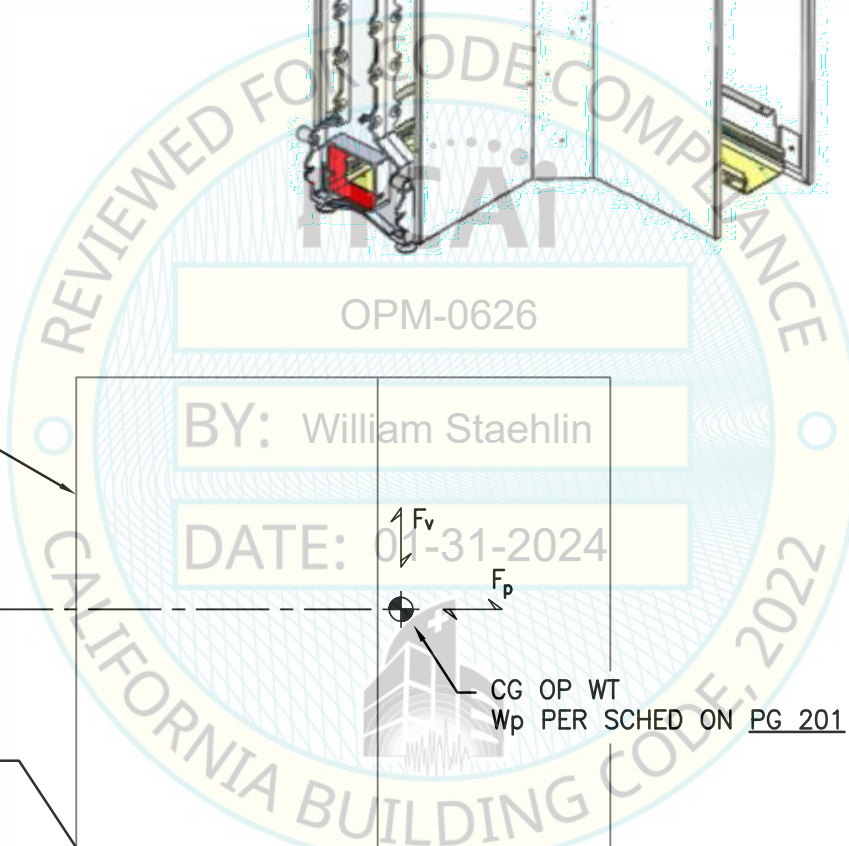


RIGHT SIDE ELEV

MAX ANCHOR FORCES AT
LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	149#	166#	37#
CASE 2 ¹	82#	103#	21#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: CURVED 90 SECTION
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



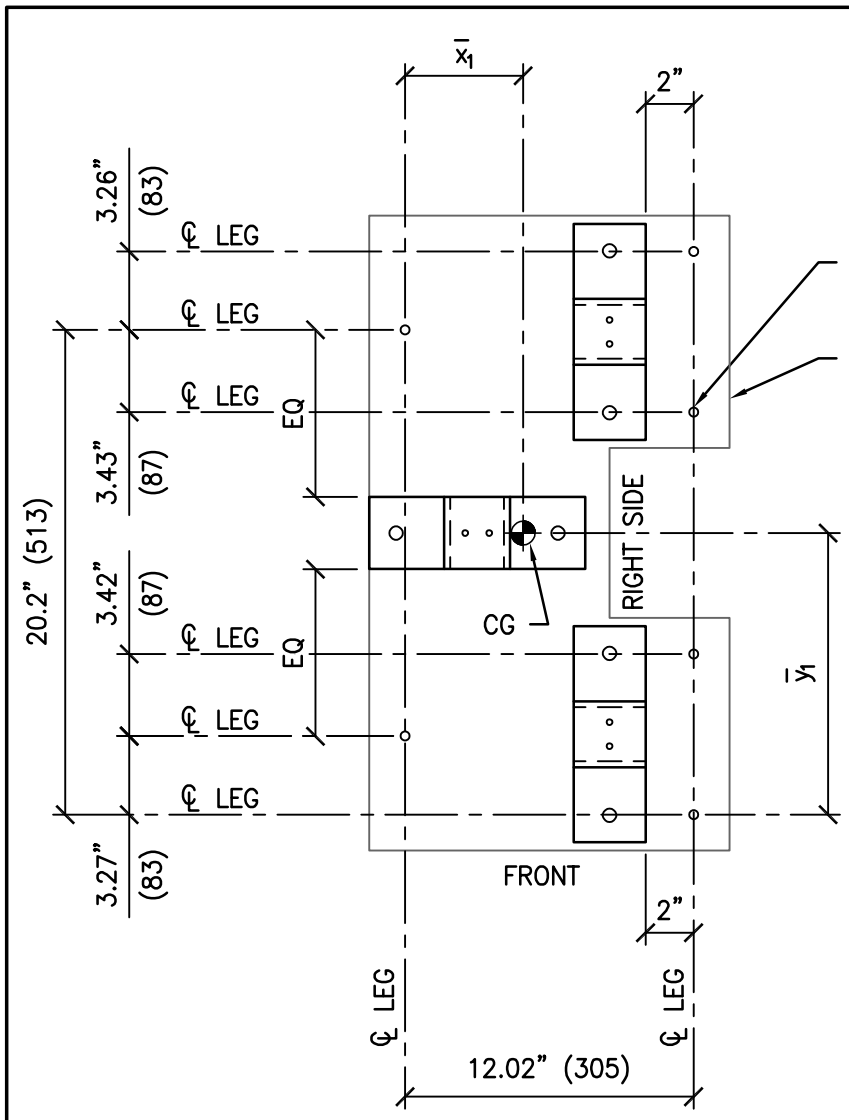
CYS STRUCTURAL ENGINEERS, INC.

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

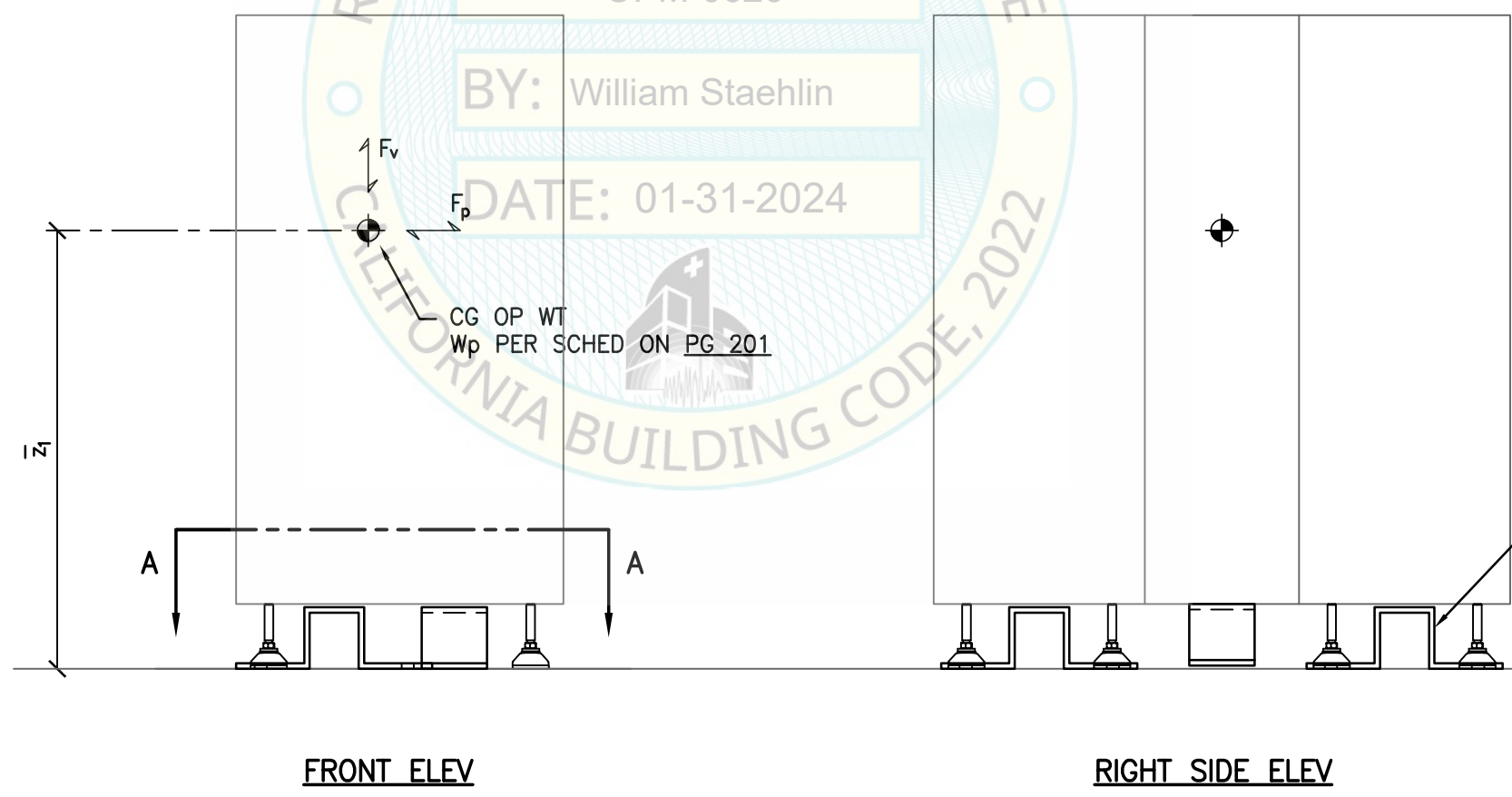
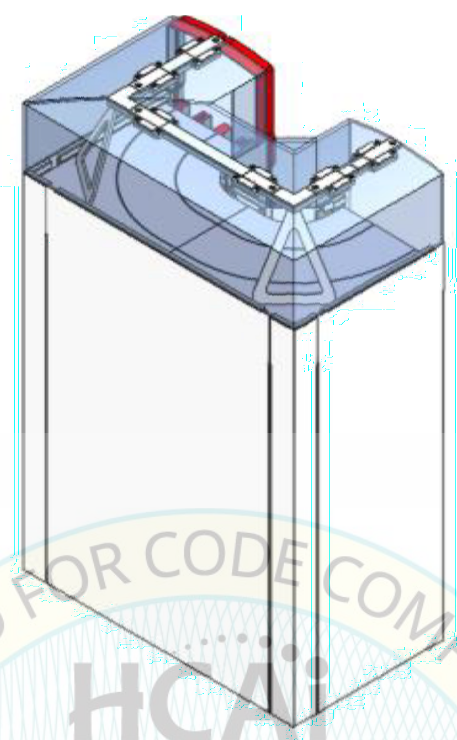
TEL (916) 920-2020
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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.19

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BASE PLAN VIEW A-A



FRONT ELEV

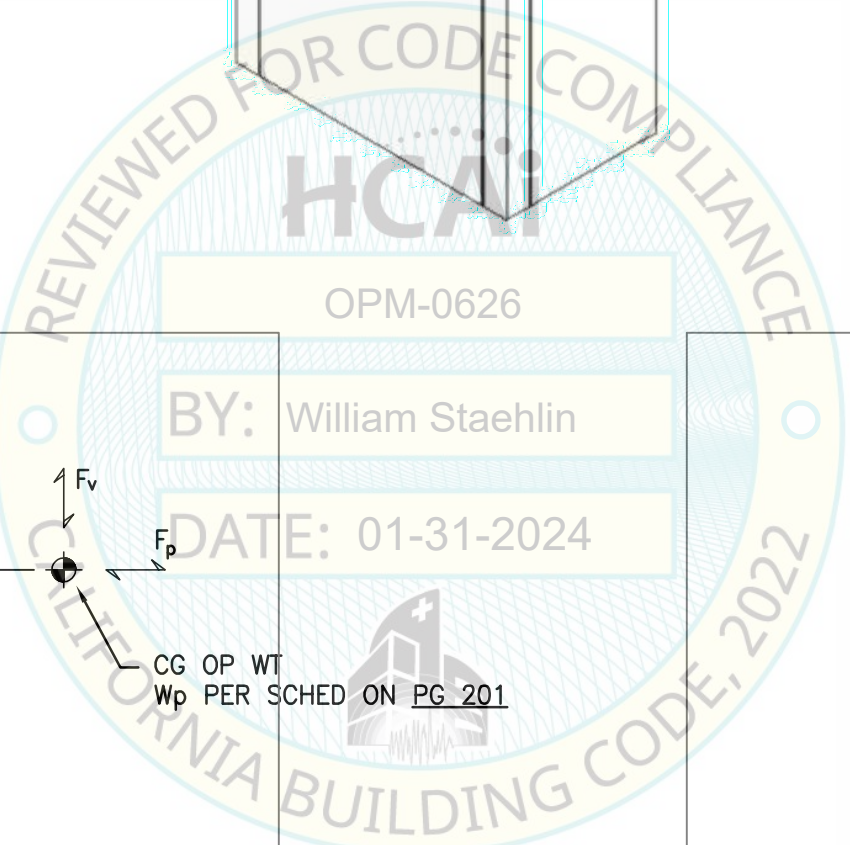
RIGHT SIDE ELEV

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	186#	313#	62#
CASE 2 ¹	103#	198#	35#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



SHEET TITLE: FLOOR SUPPORTED TRACK: CURVED 180 SECTION
BASE PLAN & ELEVATIONS

Abbott ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

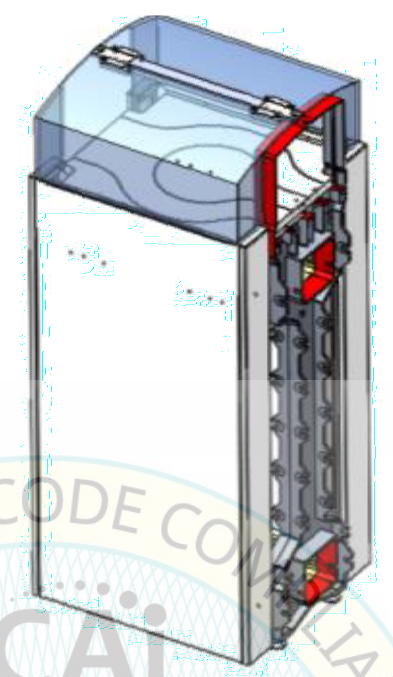
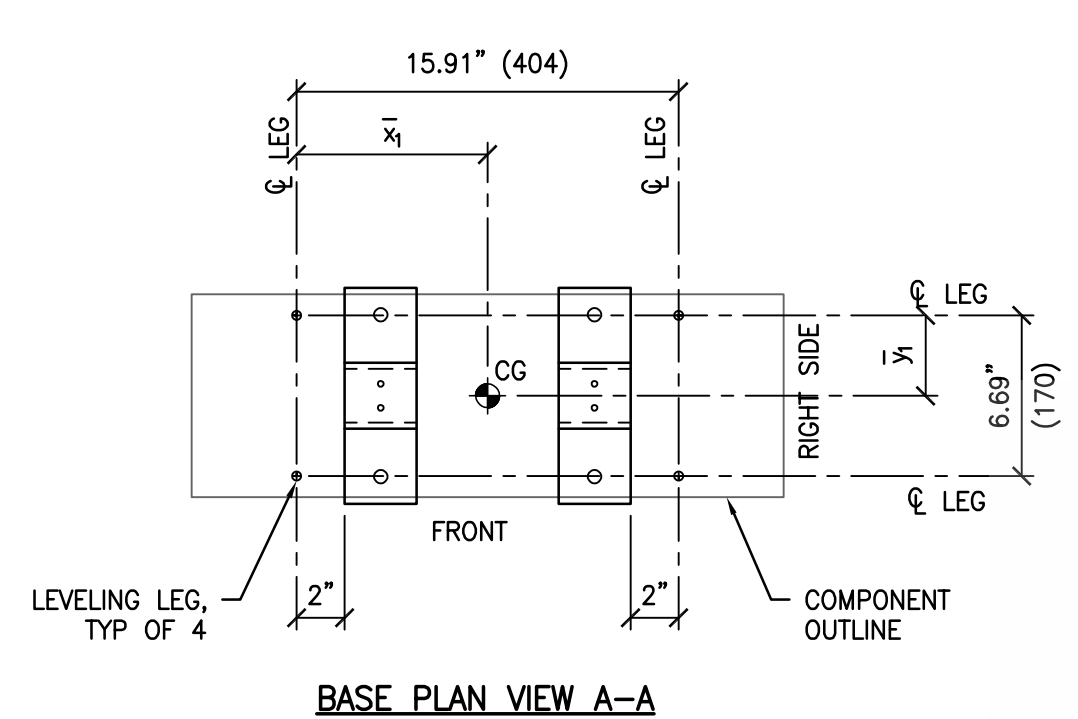
CYS STRUCTURAL ENGINEERS, INC.
2710 GATEWAY OAKS DRIVE, SUITE 190N TEL (916) 920-2020
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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.20

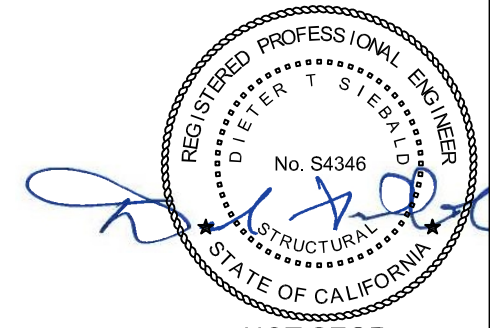
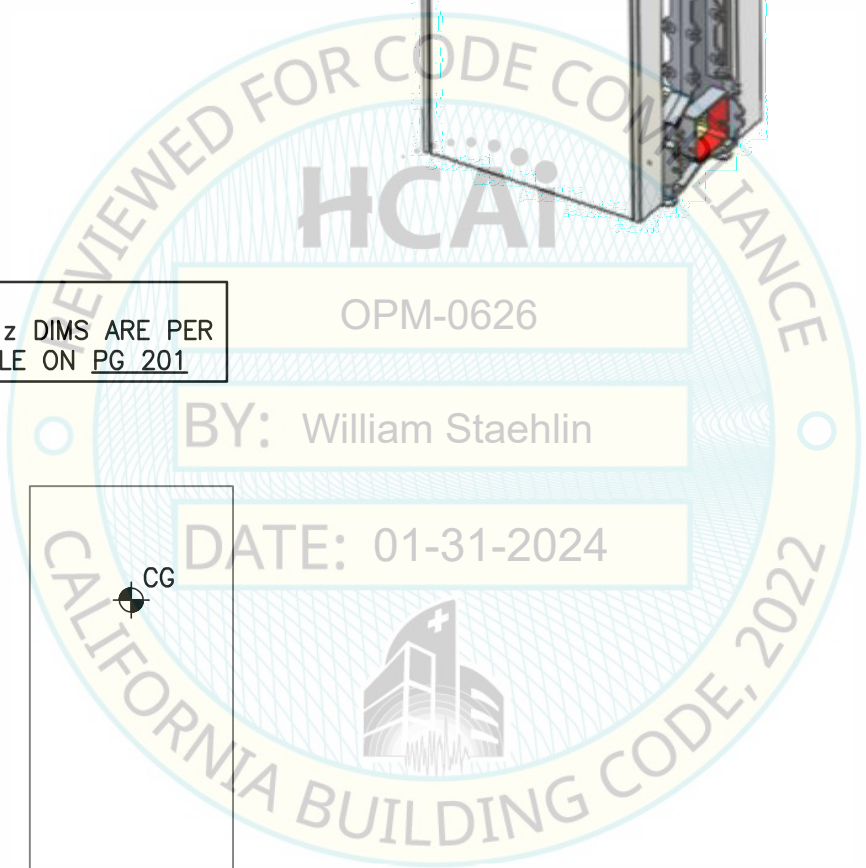
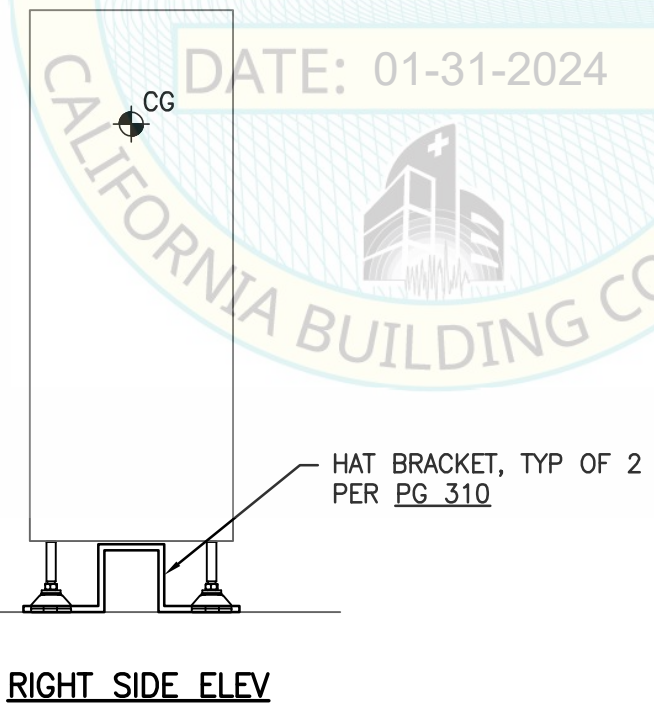
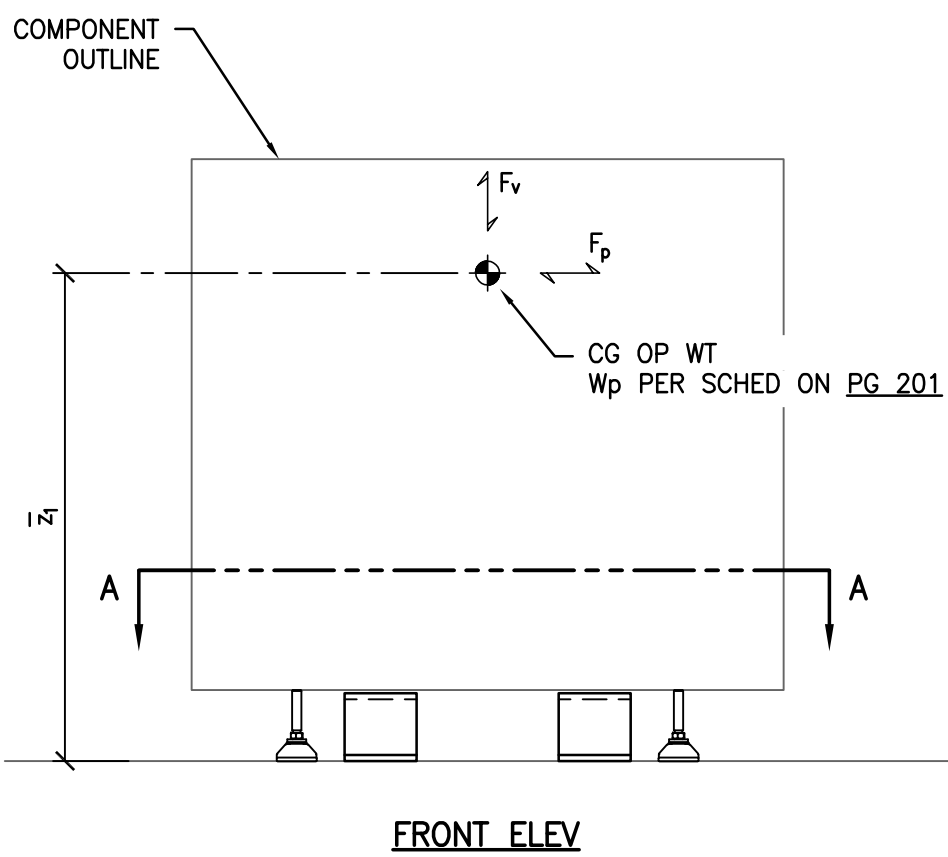
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	341#	378#	53#
CASE 2 ¹	189#	226#	30#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: U-TURN SINGLE 40
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



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

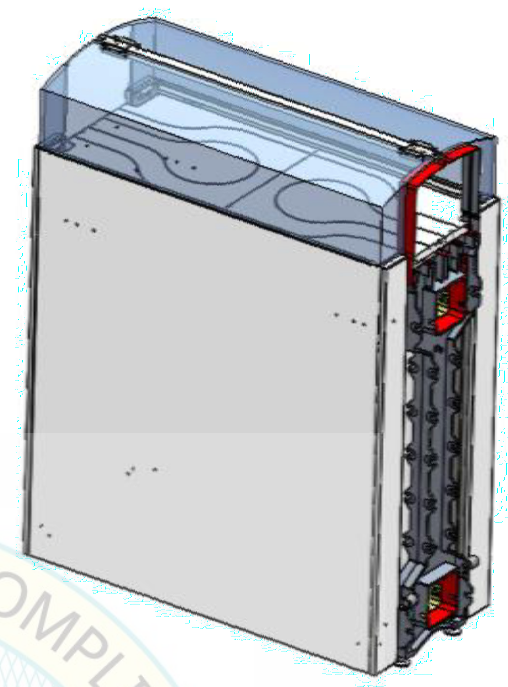
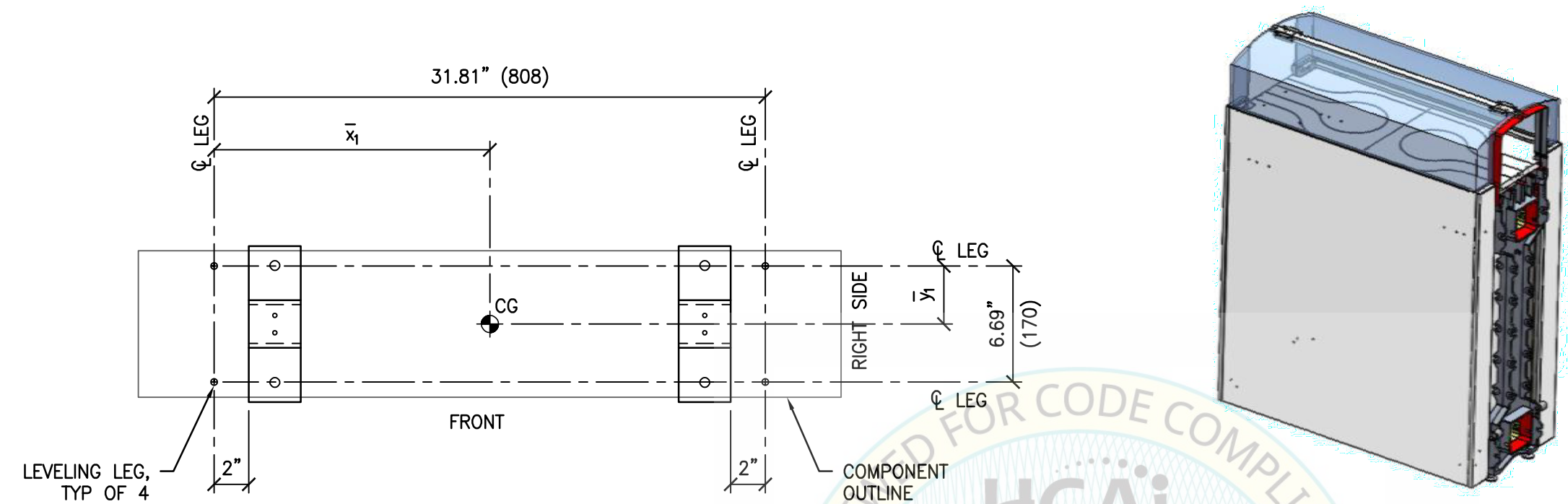
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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.21

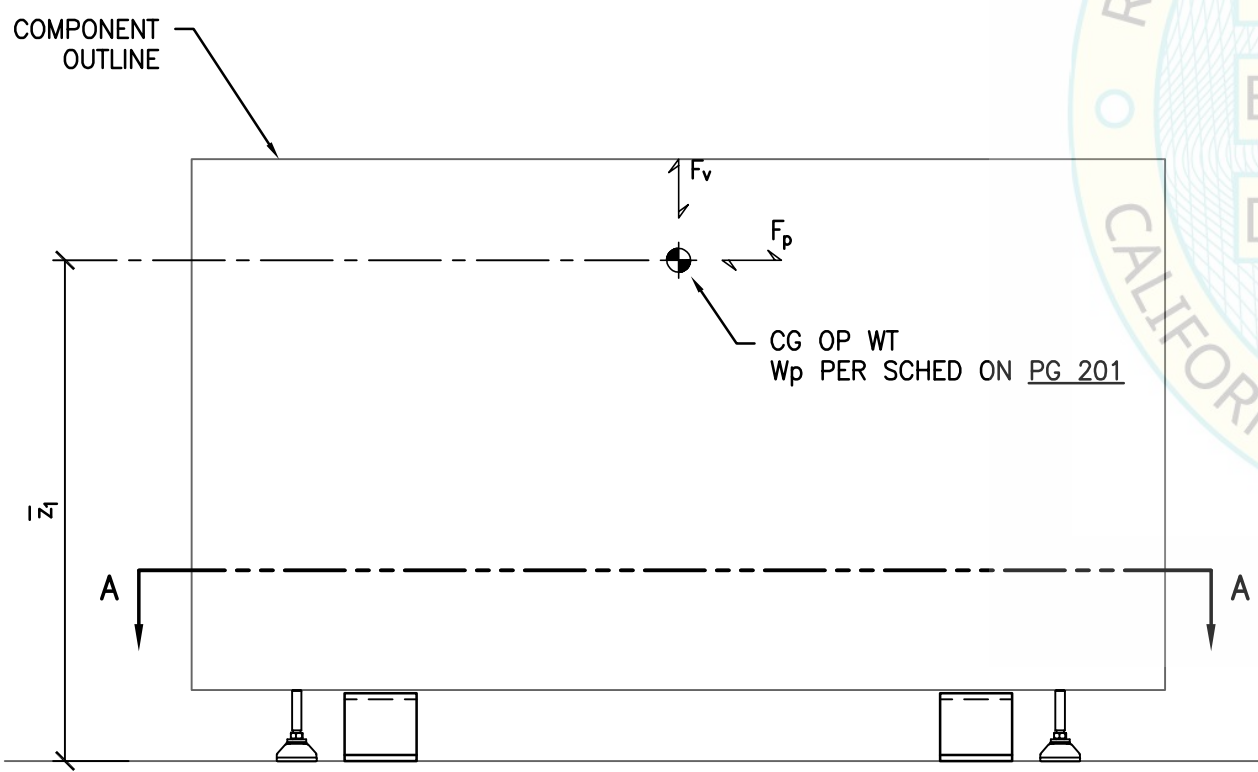
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	452#	504#	74#
CASE 2 ¹	250#	302#	42#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



BASE PLAN VIEW A-A

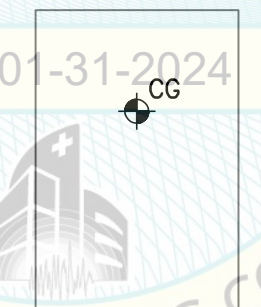


FRONT ELEV

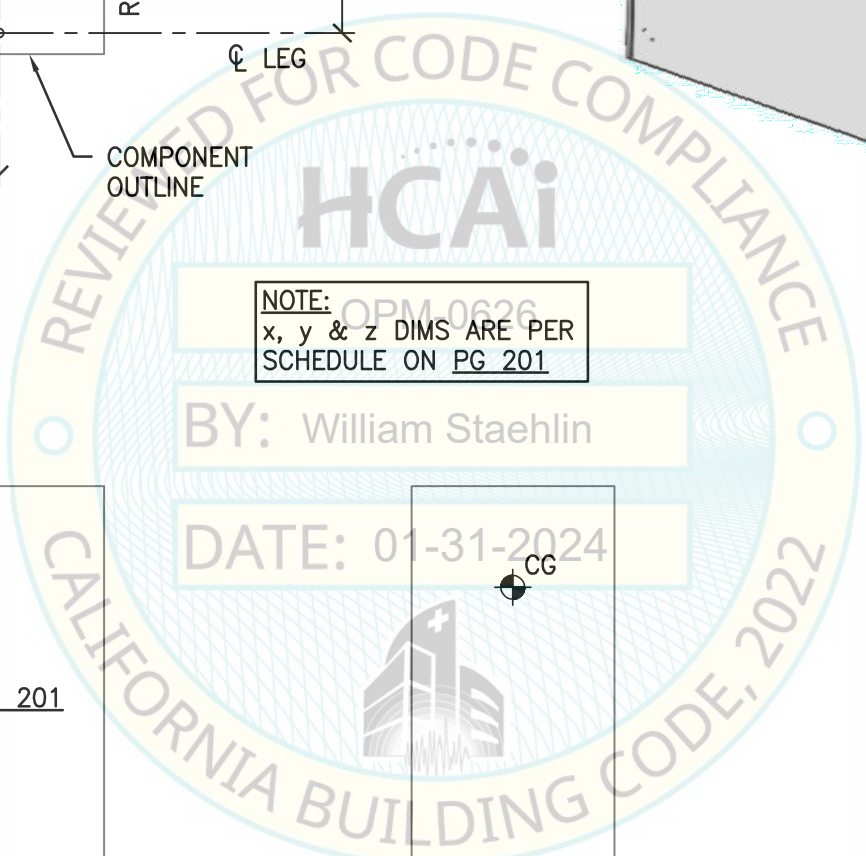
NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201

BY: William Staehlin

DATE: 01-31-2024



RIGHT SIDE ELEV



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: U-TURN DOUBLE
BASE PLAN & ELEVATIONS

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.22

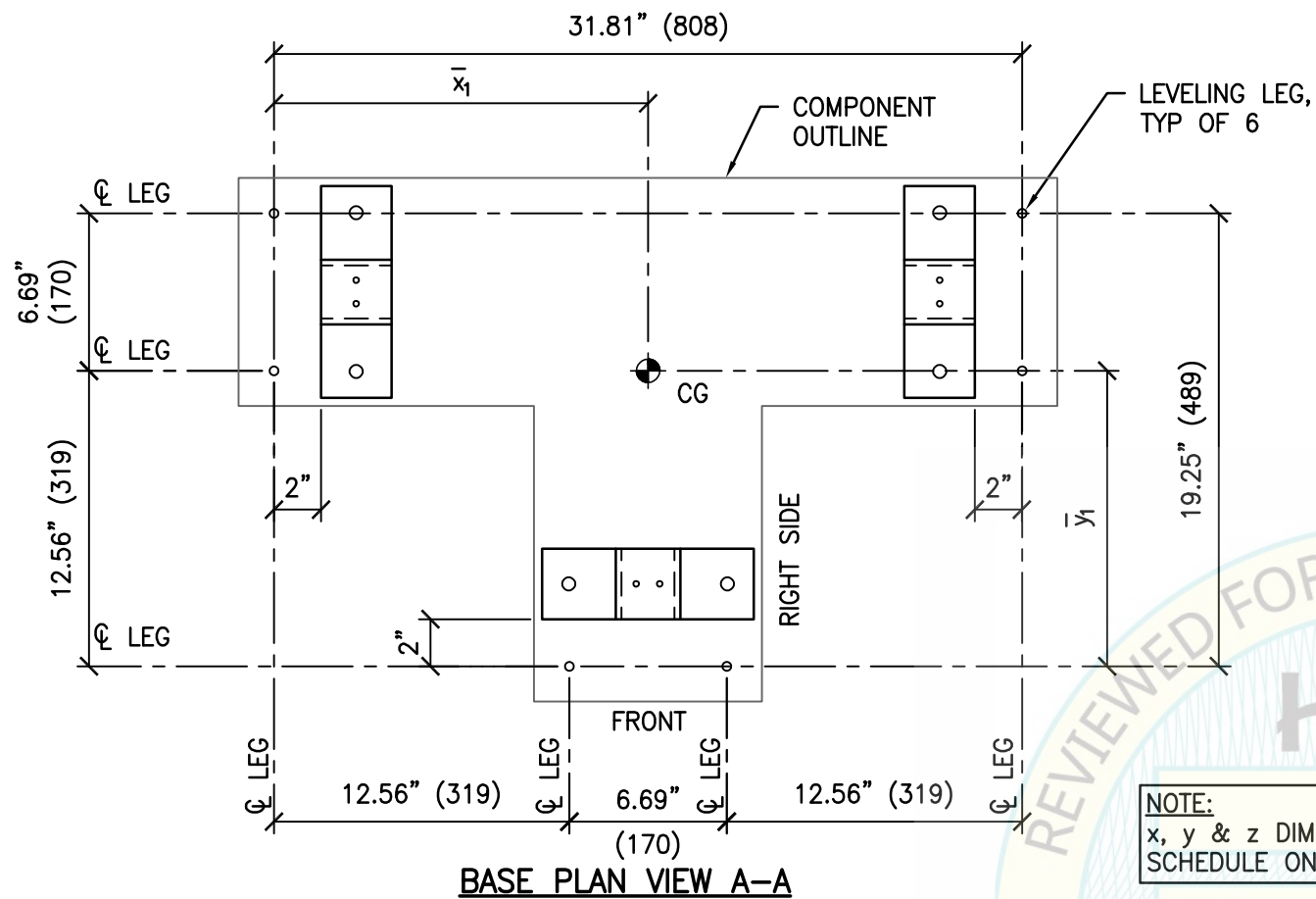


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

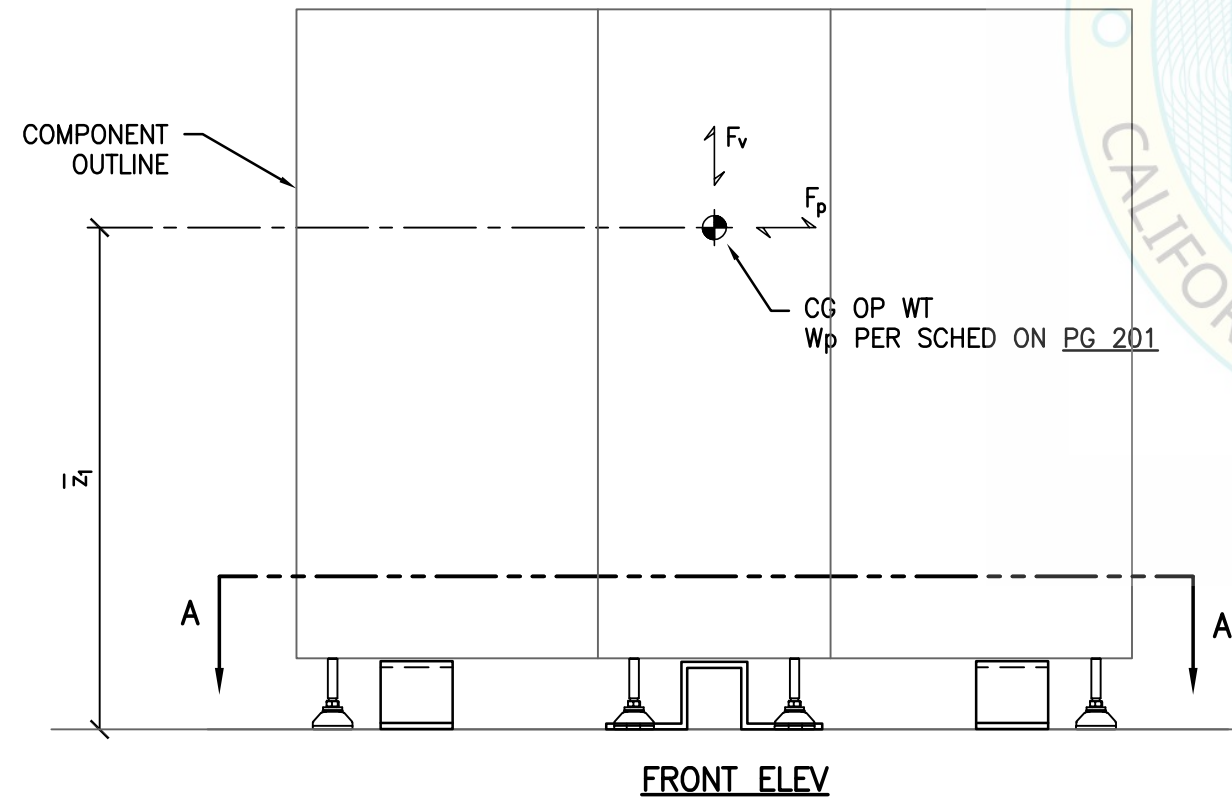


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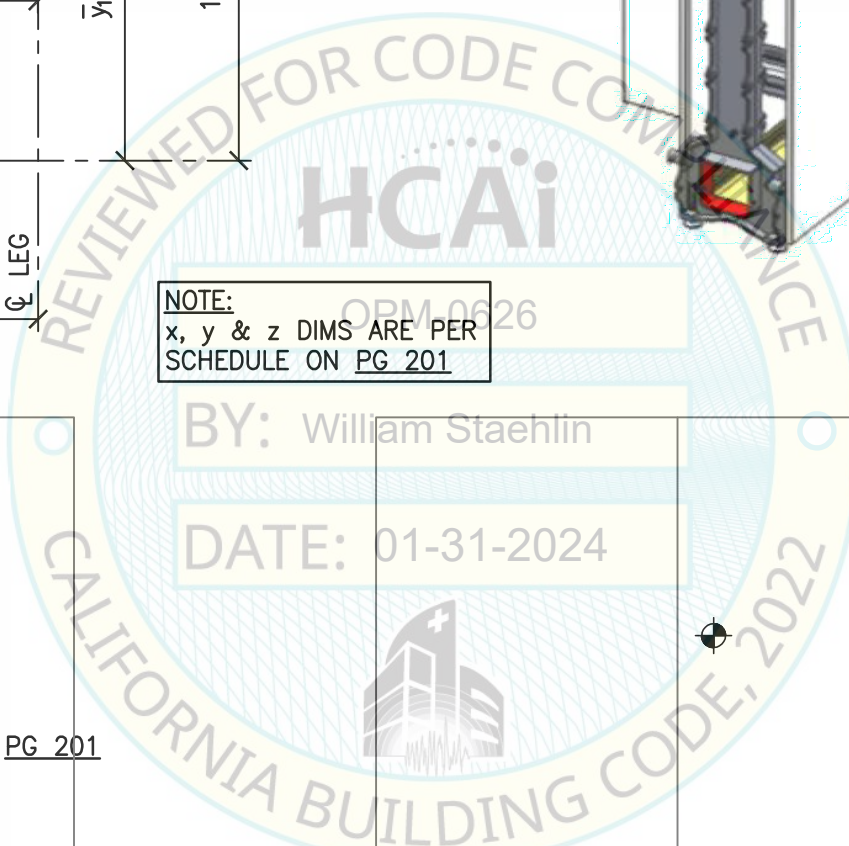


NOTE:
 x, y & z DIMS ARE PER
 SCHEDULE ON PG 201



MAX ANCHOR FORCES AT LRFD AT LEVELING LEG			
	T _{max}	C _{max}	V _{max}
CASE 1 ²	150#	183#	49#
CASE 2 ¹	83#	116#	28#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



SHEET TITLE: FLOOR SUPPORTED TRACK: T-SECTION ACTIVE (NO LOOP)
 BASE PLAN & ELEVATIONS

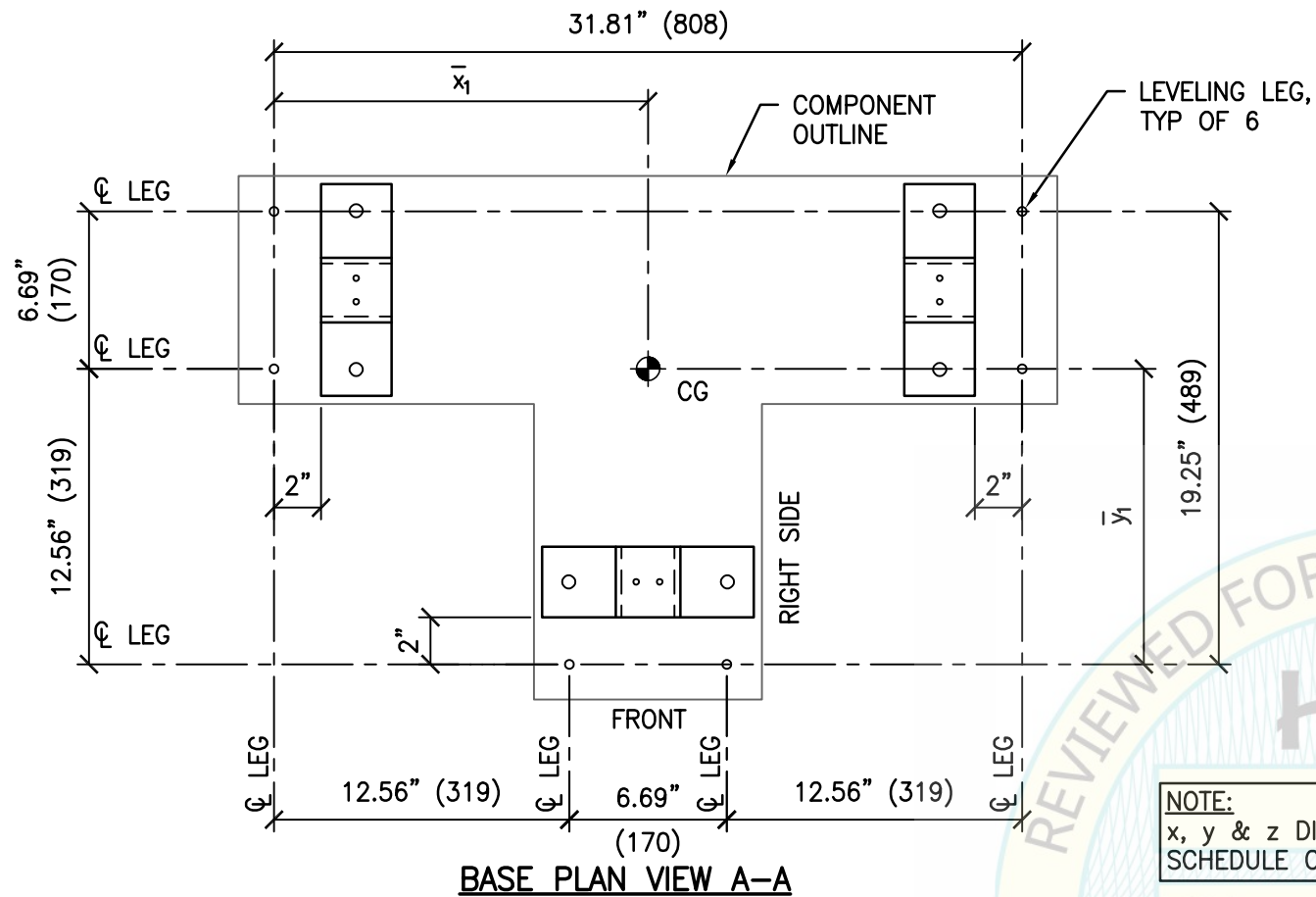


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS



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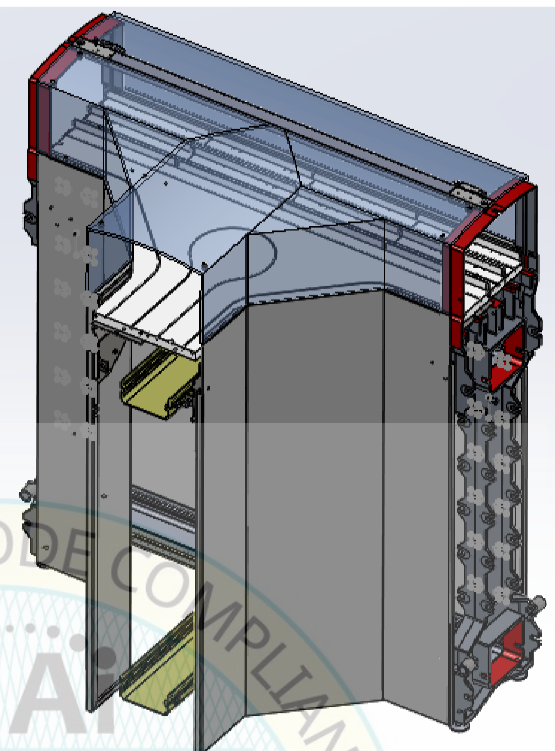
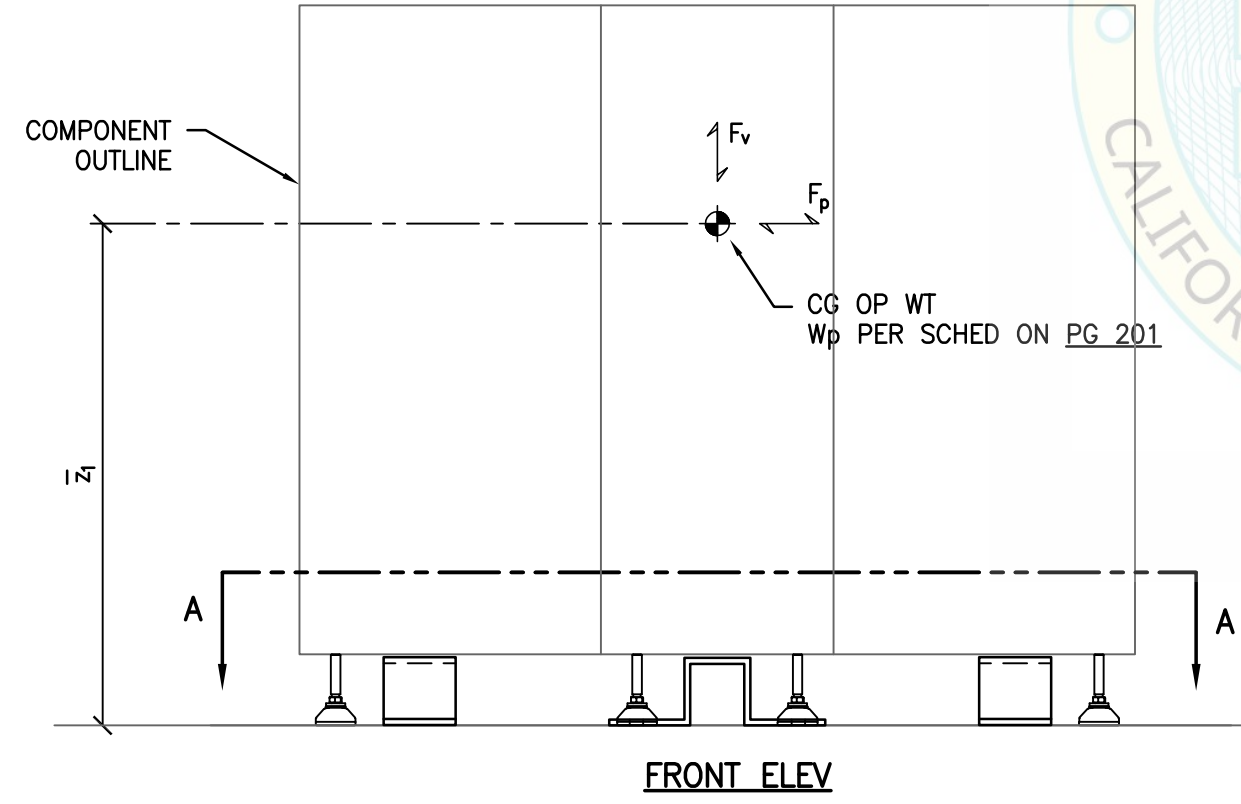
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.23



NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201

BY: William Staehlin

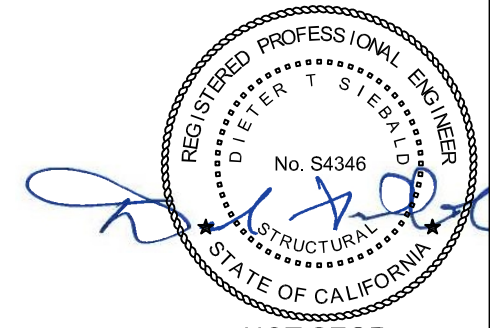
DATE: 01-31-2024



MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	159#	192#	50#
CASE 2 ¹	88#	122#	28#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_b).
2. OVERSTRENGTH FACTOR (Ω_b) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

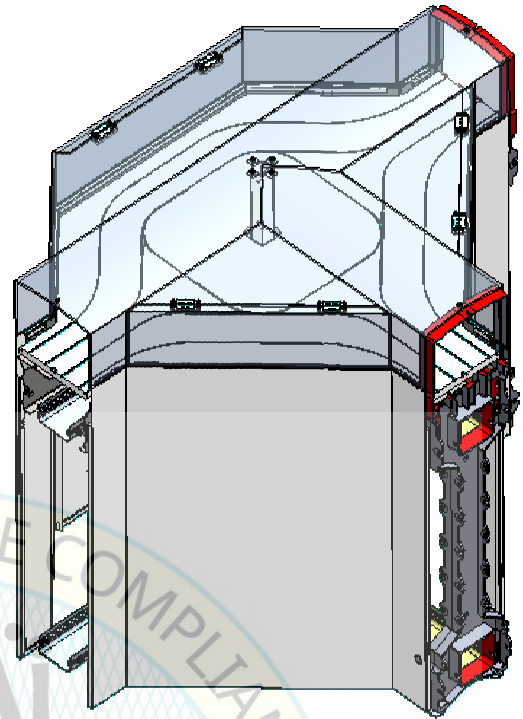
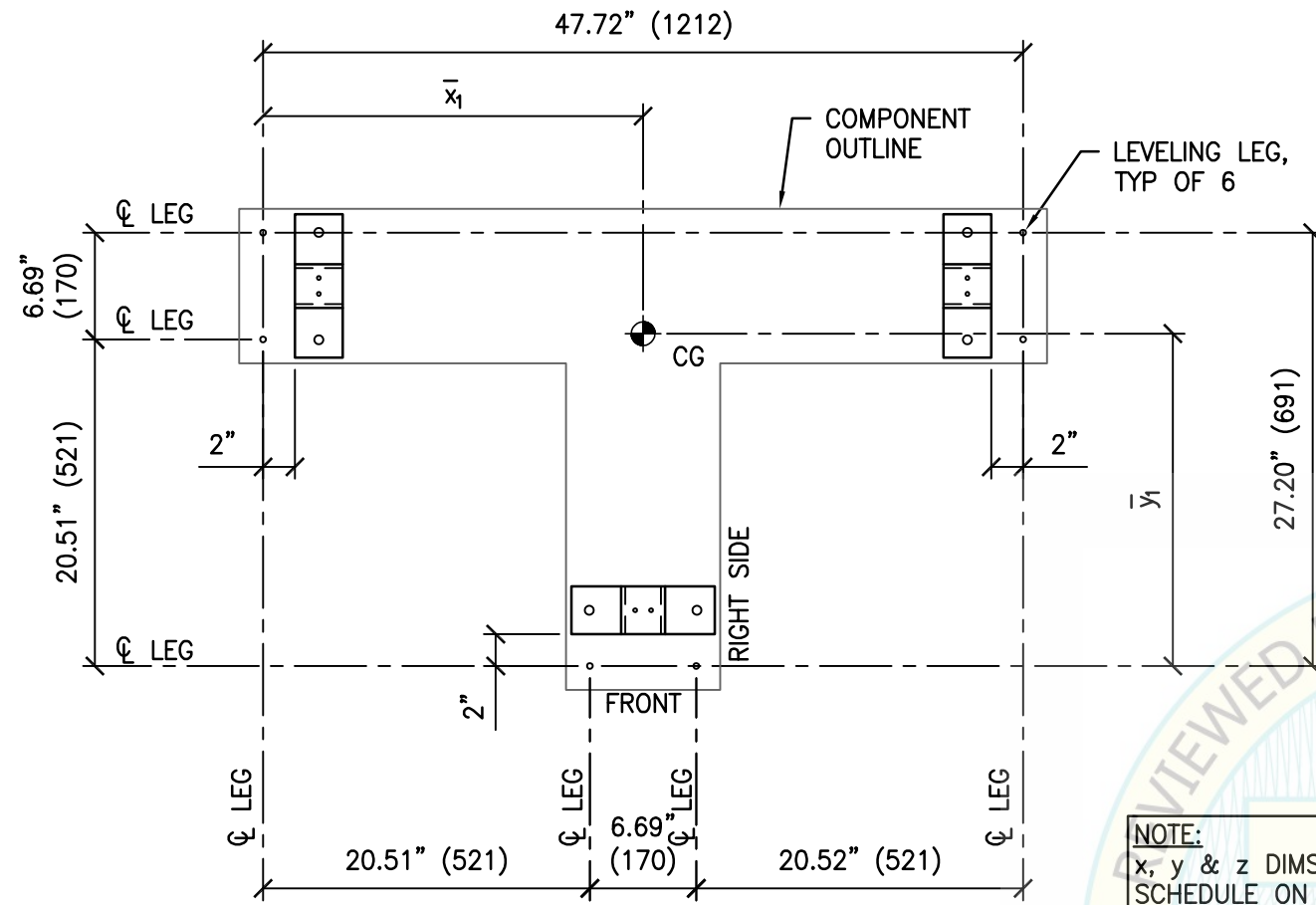
SHEET TITLE: FLOOR SUPPORTED TRACK: T-SECTION INACTIVE (PASSIVE, NO LOOP)
BASE PLAN & ELEVATIONS

ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

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Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.24

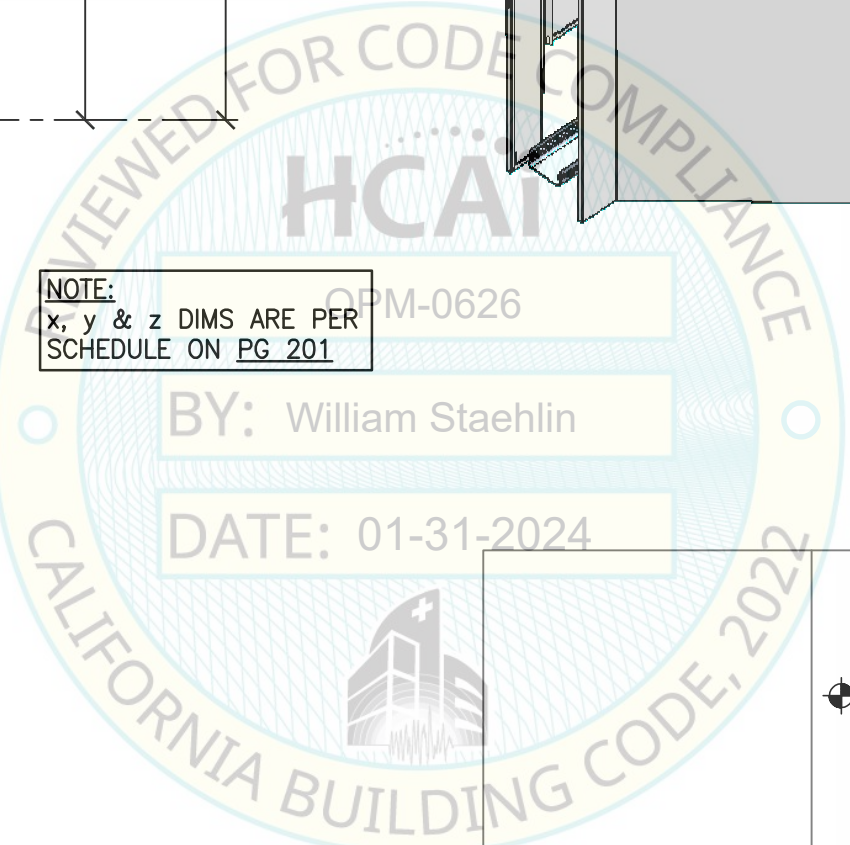
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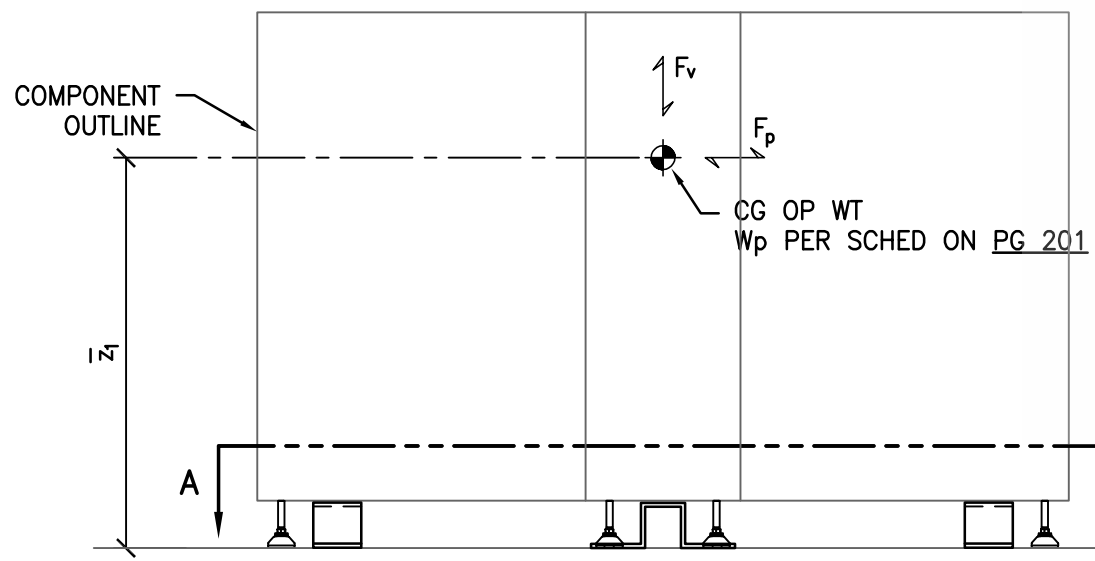
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG			
	T _{max}	C _{max}	V _{max}
CASE 1 ²	251#	296#	104#
CASE 2 ¹	139#	197#	59#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

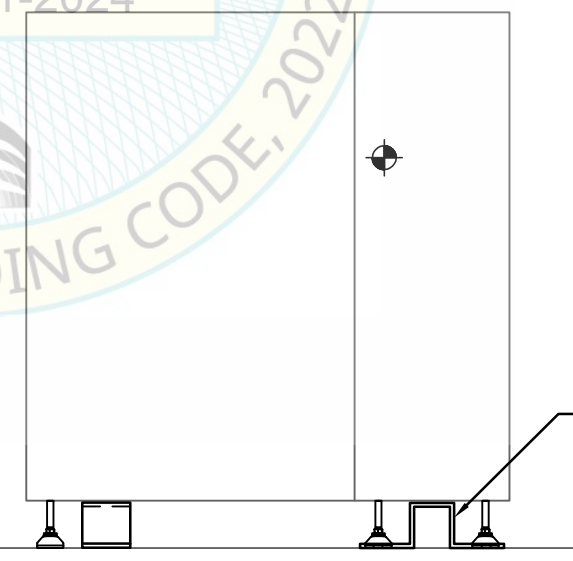
NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



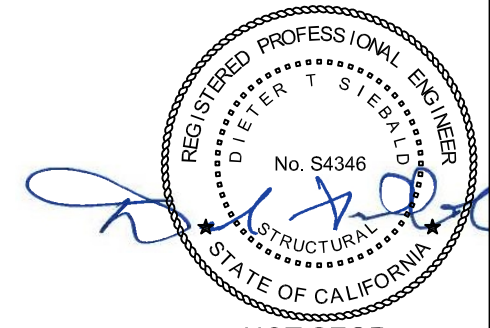
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED TRACK: ROUNDABOUT - 3-WAY
BASE PLAN & ELEVATIONS

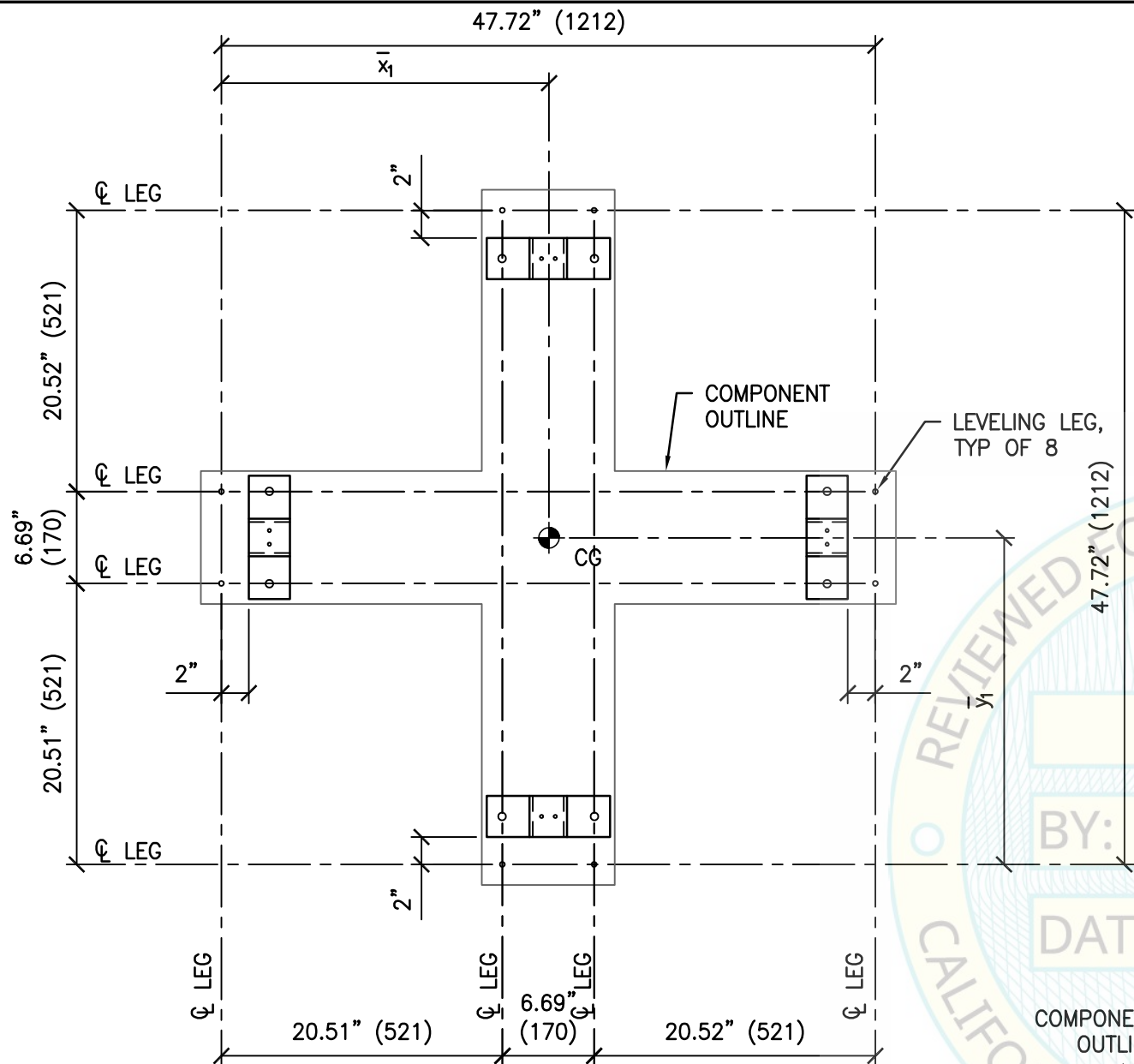


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



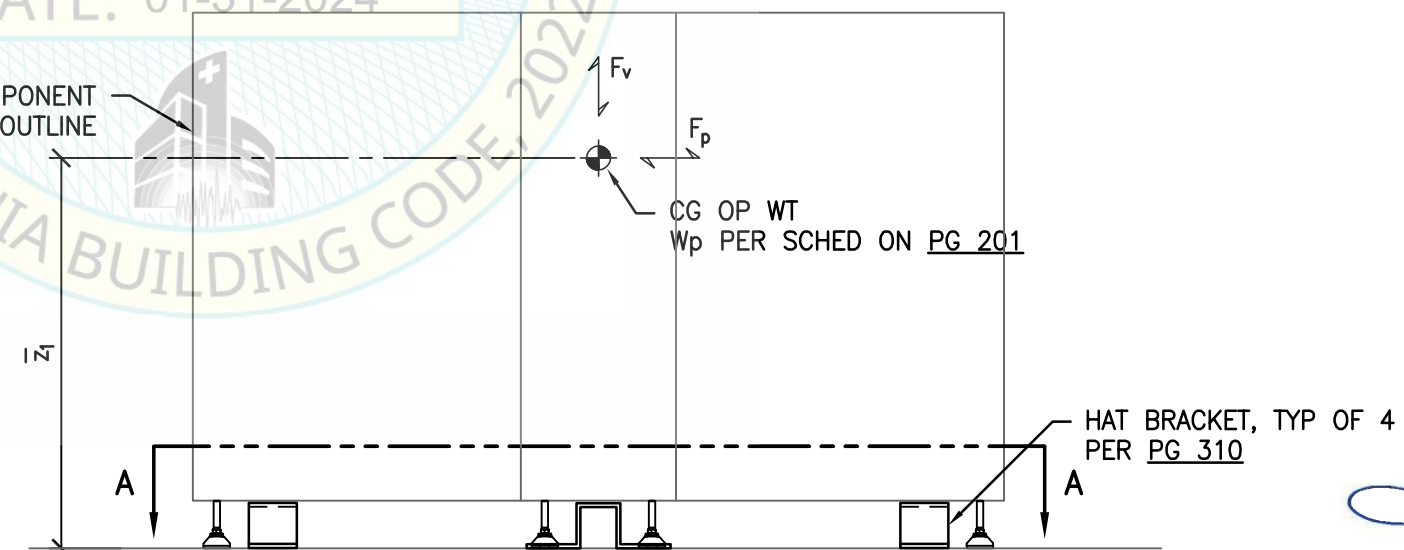
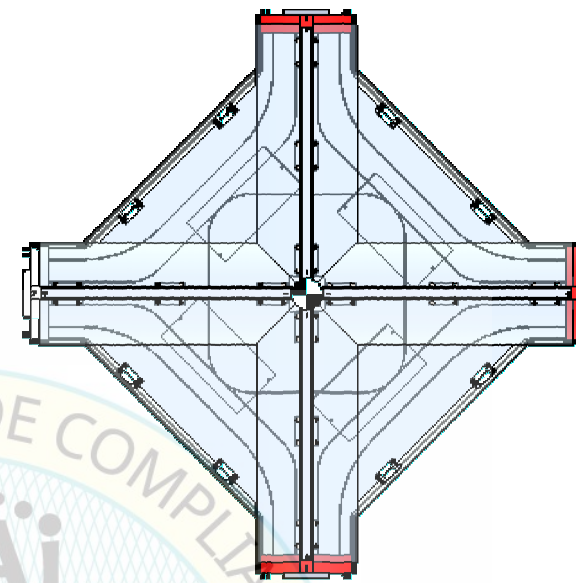
CYS STRUCTURAL ENGINEERS, INC.
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SACRAMENTO, CA 95833
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			20097.02
			Date: 10/03/2023
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			Page: 210.25



BASE PLAN VIEW A-A

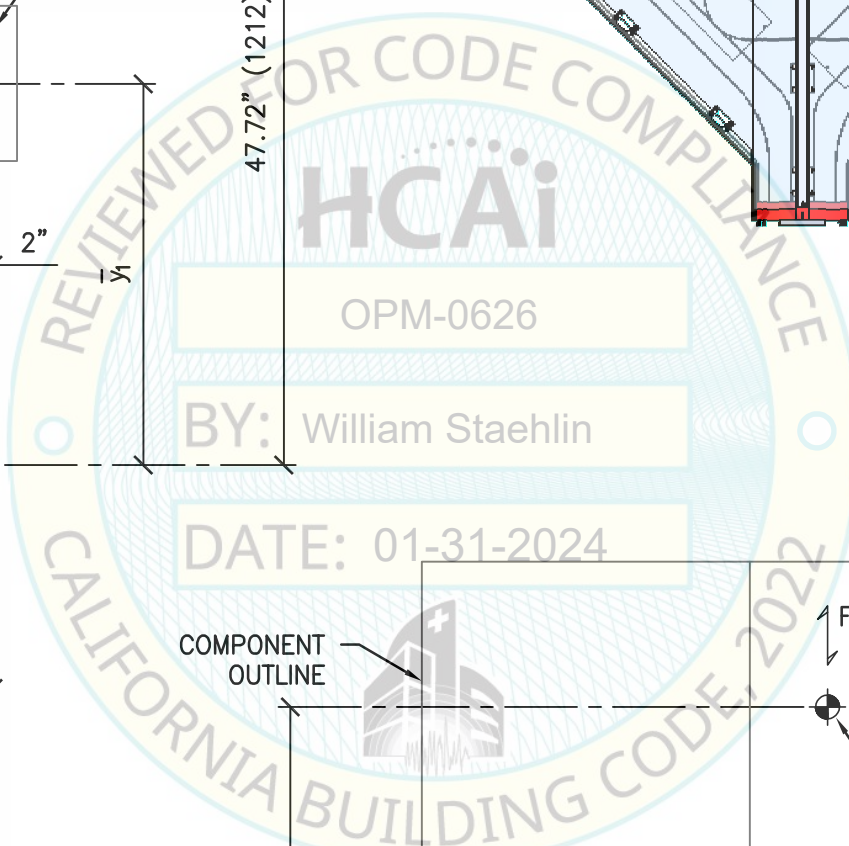
NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



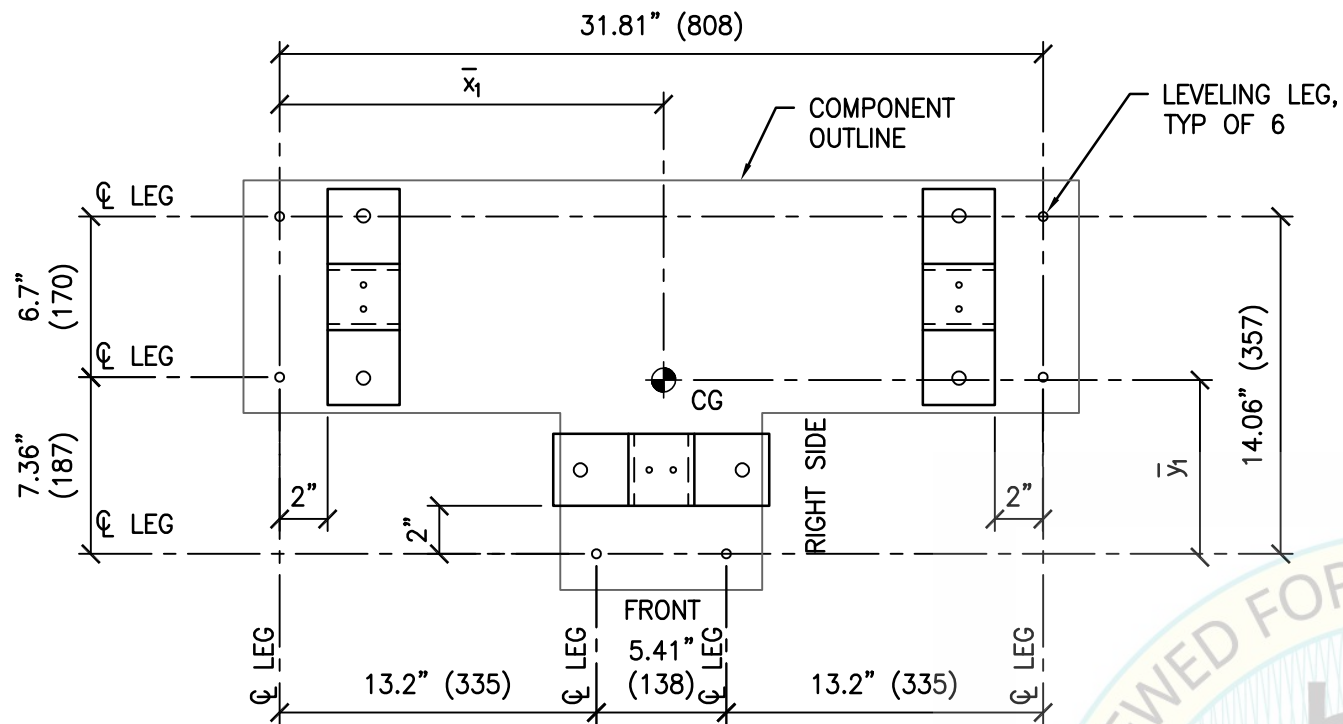
TYP ELEV

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG			
	T _{max}	C _{max}	V _{max}
CASE 1 ²	151#	206#	79#
CASE 2 ¹	81#	136#	44#

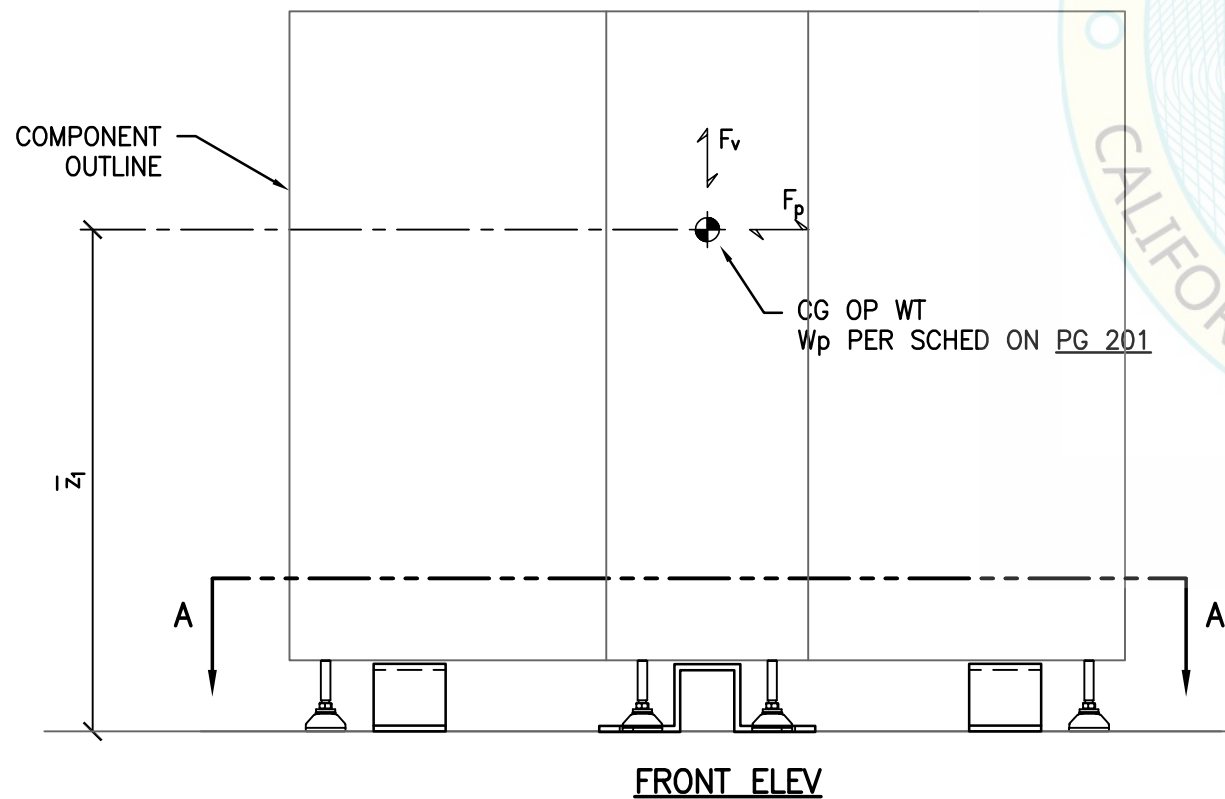
1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



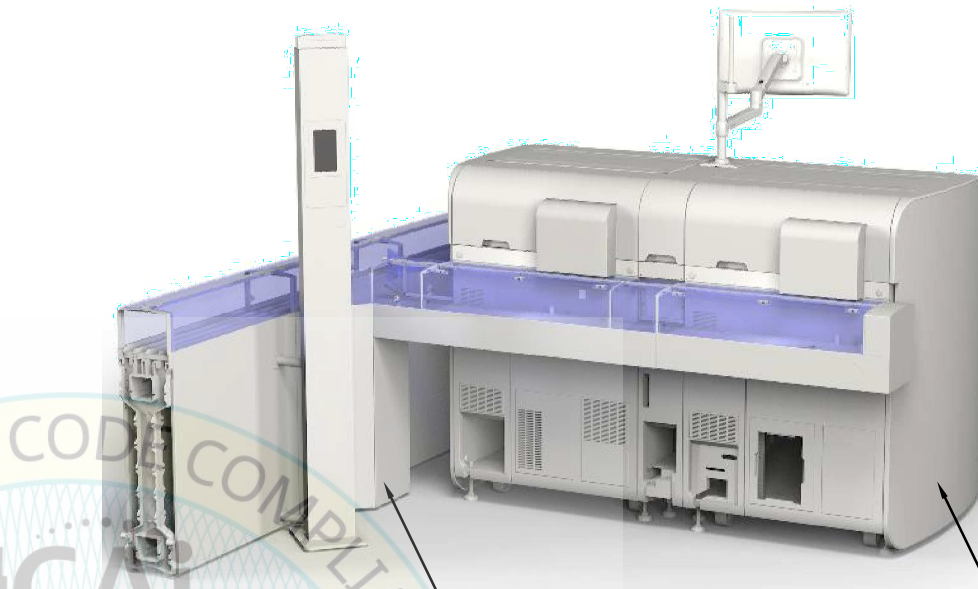
SHEET TITLE: FLOOR SUPPORTED TRACK: ROUNDABOUT - 4-WAY BASE PLAN & ELEVATION		Rev	Description	Date	Job No: 20097.02
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS					Date: 10/03/2023
CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833					By: CYS
Abbott					Page: 210.26
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BASE PLAN VIEW A-A



FRONT ELEV



SAL ALINITY ci T-RIGHT (AICI)

ALINITY c, ALINITY i & ALINITY SCM (NOT PART OF THIS OPM)

OPM-0626

BY: William Staehlin

DATE: 01-31-2024

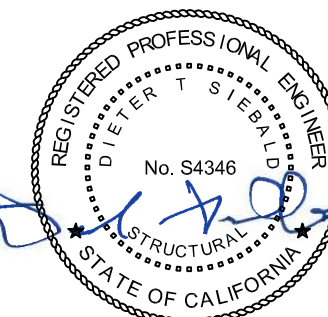
HAT BRACKET, TYP OF 3 PER PG 310

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	399#	467#	88#
CASE 2 ¹	219#	285#	49#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ALINITY ci T-RIGHT (AICI)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

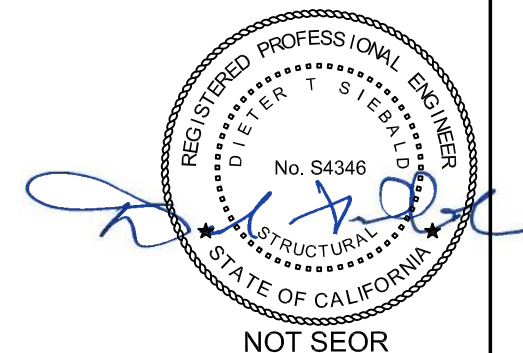
2710 GATEWAY OAKS DRIVE, SUITE 190N
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			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.27

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NOT USED



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ALINITY ci L-RIGHT
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



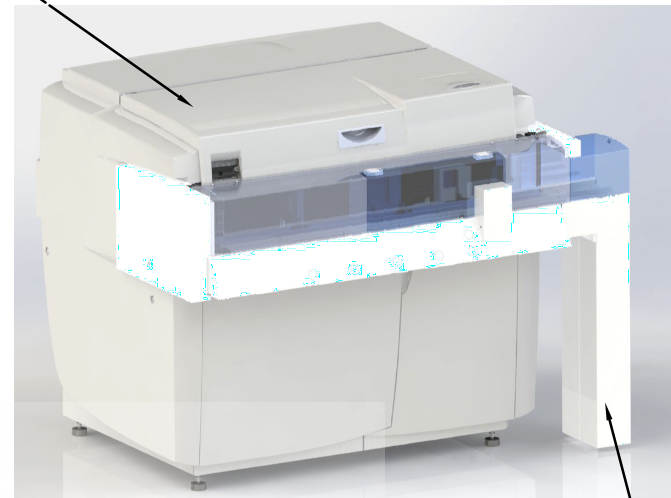
CYS STRUCTURAL ENGINEERS, INC.

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

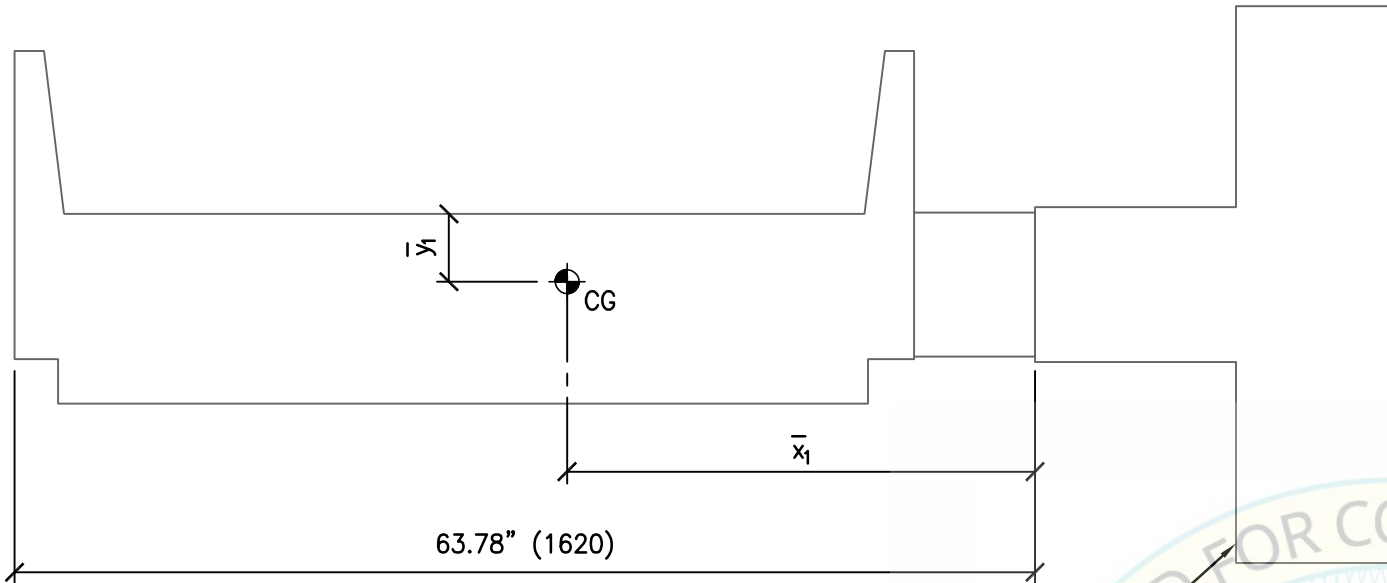
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			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.28

SAL ARCHITECT i2000SR
ANALYZER (NOT PART OF OPM)

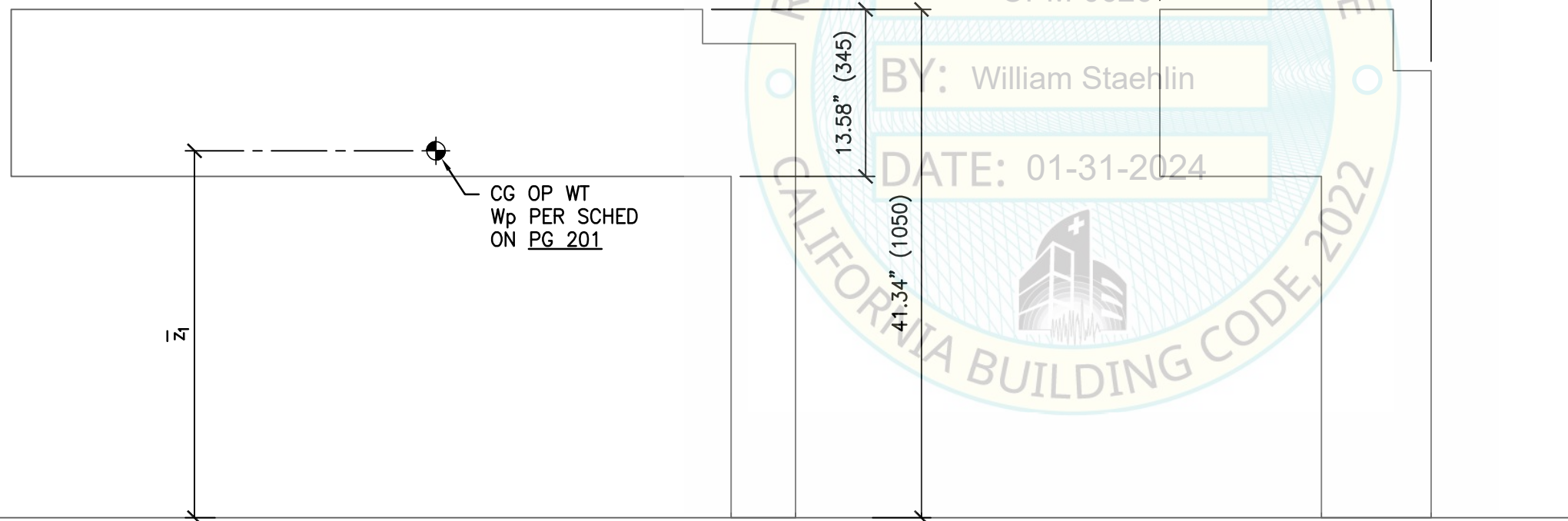


SAL ARCHITECT i2000SR (i2SR)



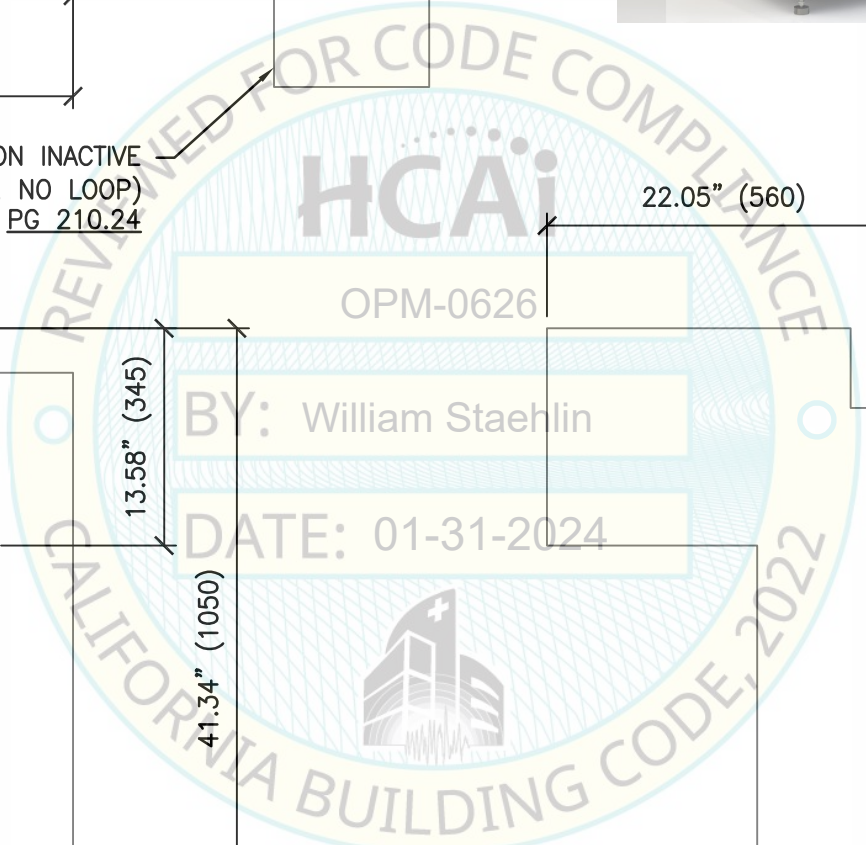
PLAN VIEW

T-SECTION INACTIVE
(PASSIVE, NO LOOP)
SEE PG 210.24



REAR ELEV

SIDE ELEV



- NOTES:**
1. FOR CONN DTLs, REFER TO PGS 210.29A – 210.29E.
 2. x, y & z DIMS ARE PER SCHEDULE ON PG 201.



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



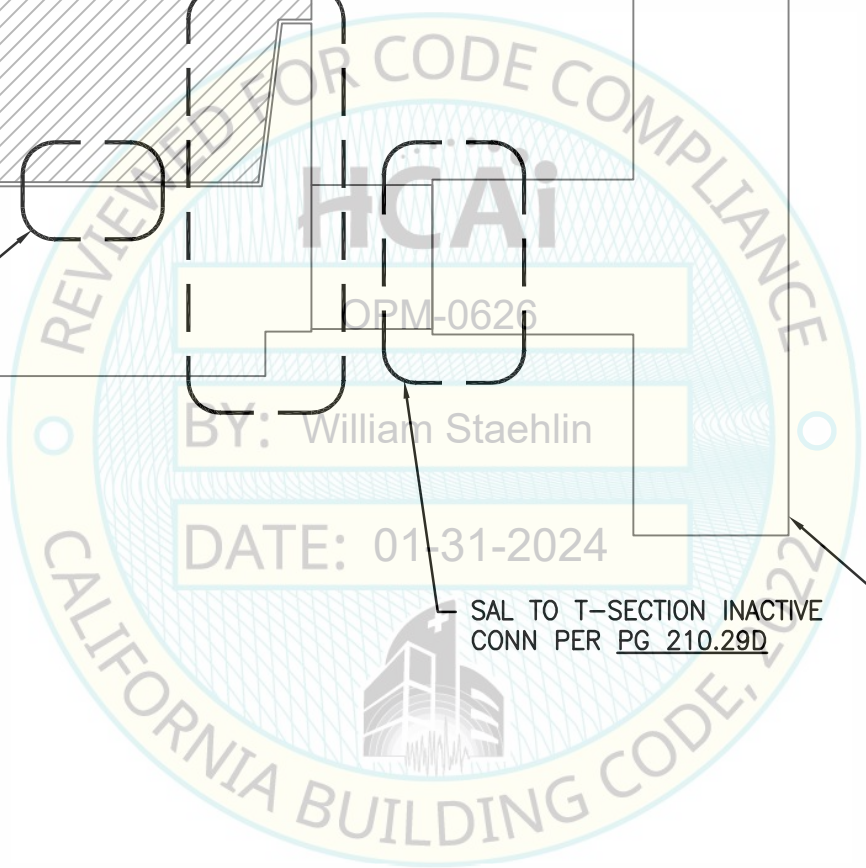
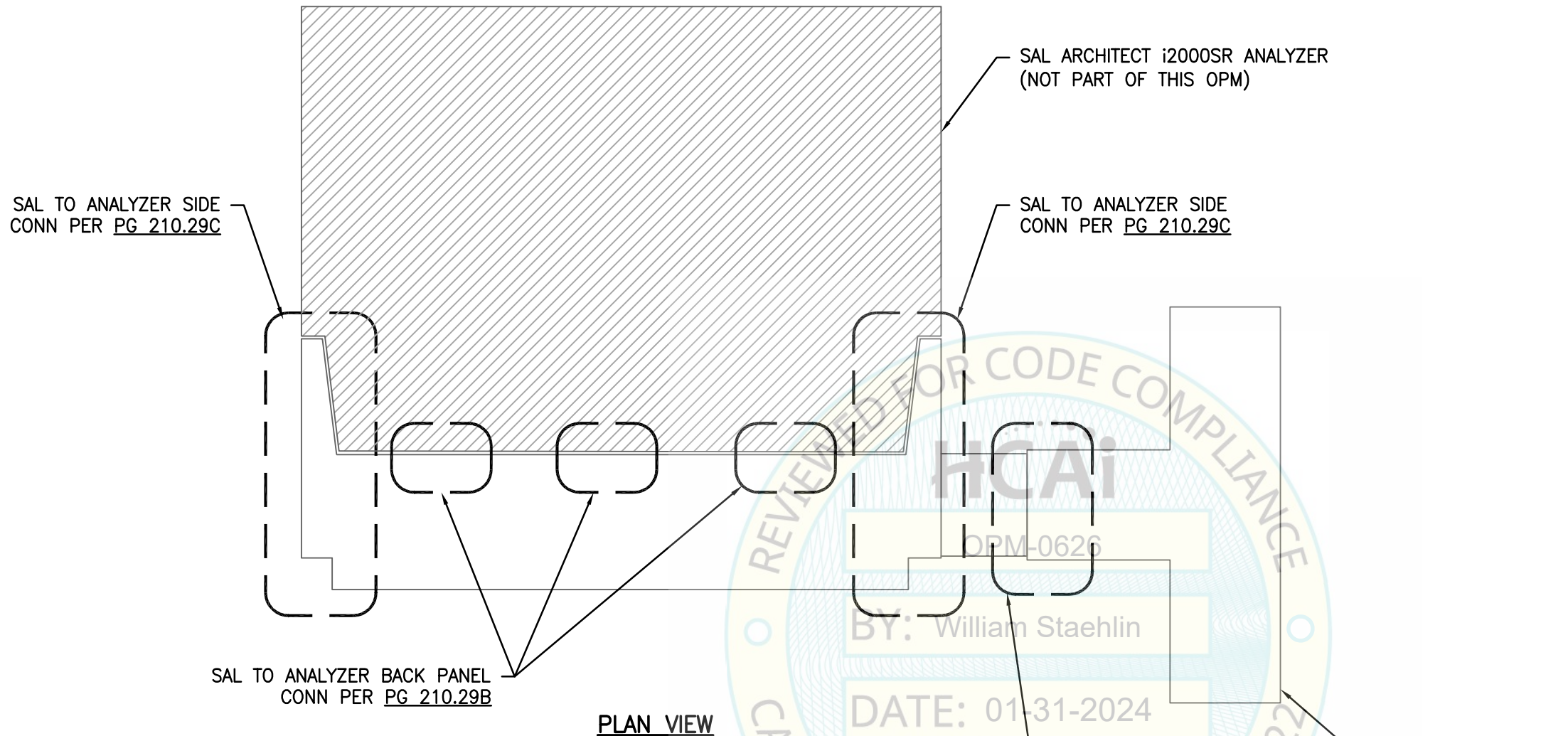
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			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.29

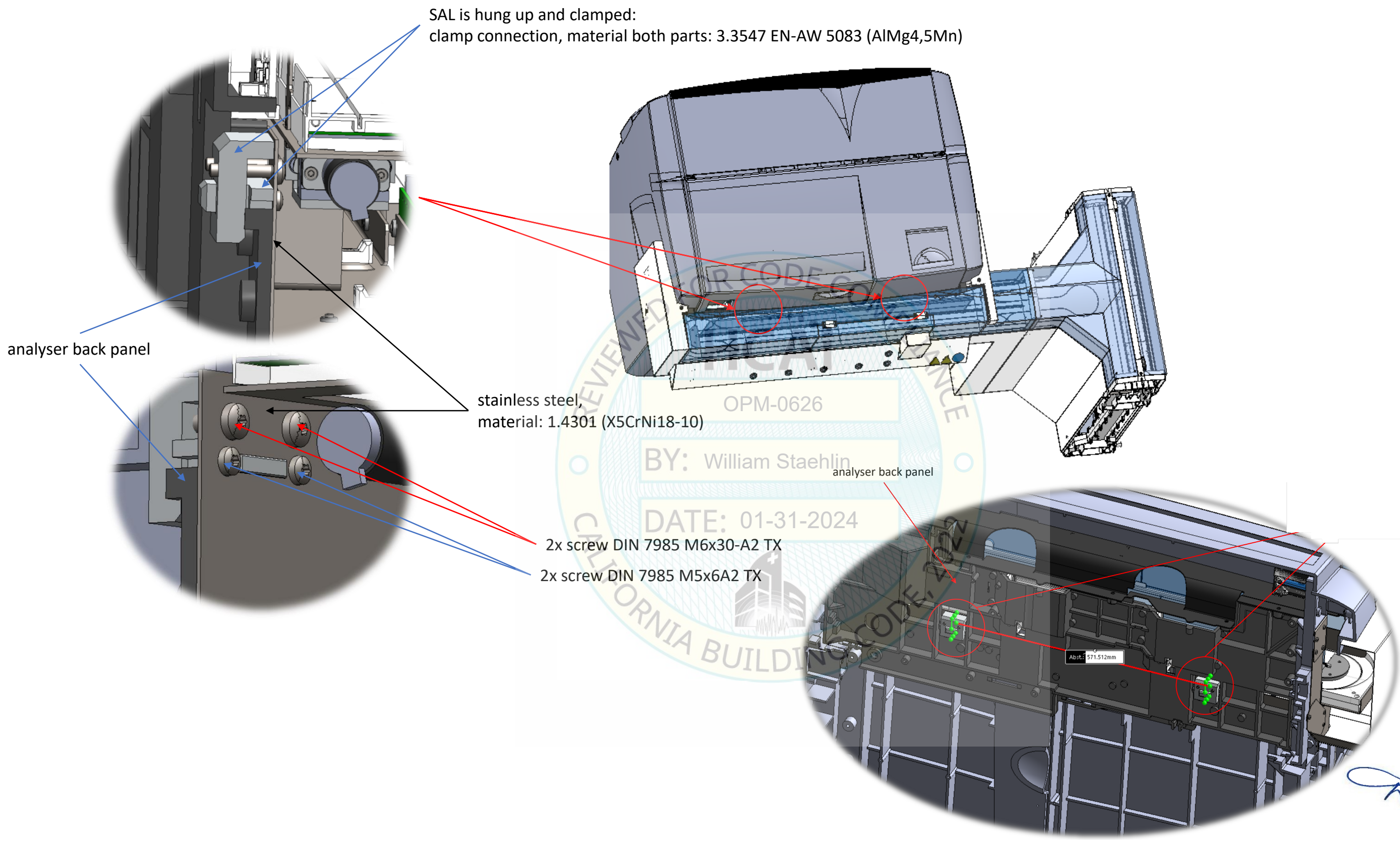
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SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR) SAL TO ANALYZER CONNECTION				Rev	Description	Date	Job No: 20097.02	
 ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS				 CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com				Date: 10/03/2023
								By: CYS
							Page: 210.29A	

c:\Users\comachom\appdata\local\temp\AcPublish_2484\ST_20097-02.dwg Time:Jan23,2024-09:43am Login:comachom DimScale:1 LITScale:6



SAL is hung up and clamped:
clamp connection, material both parts: 3.3547 EN-AW 5083 (AlMg4,5Mn)

analyser back panel

stainless steel,
material: 1.4301 (X5CrNi18-10)

OPM-0626

BY: William Staehlin

analyser back panel

DATE: 01-31-2024

2x screw DIN 7985 M6x30-A2 TX

2x screw DIN 7985 M5x6A2 TX



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR)
SAL TO ANALYZER BACK PANEL CONNECTION



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
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:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.29B

SAL is screwed on the side

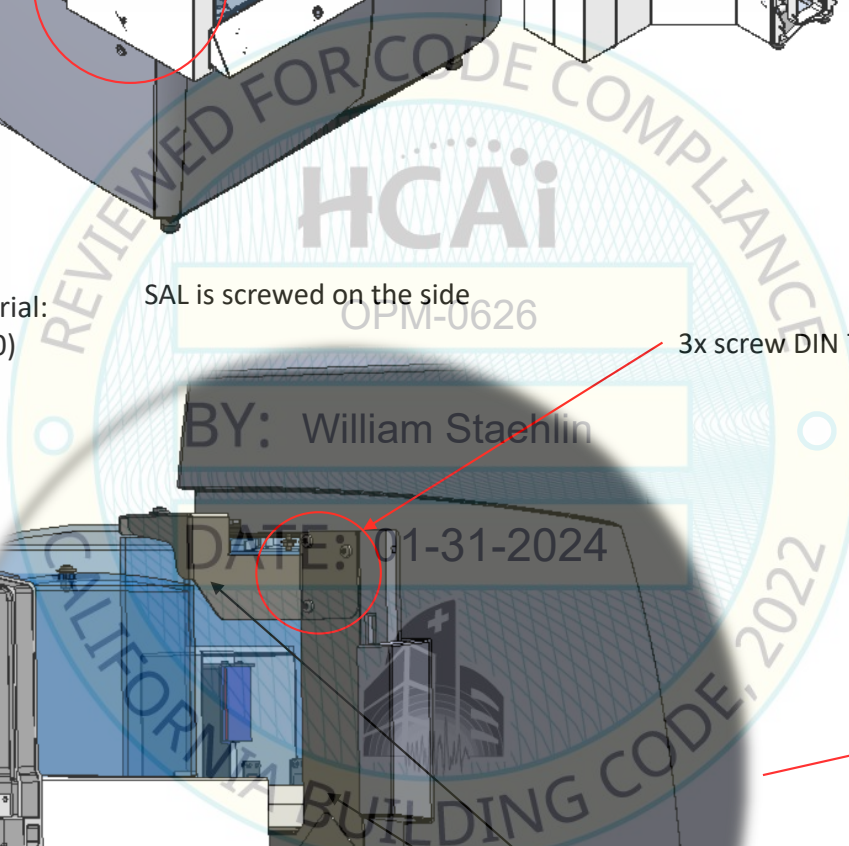
5x screw DIN 7985 M5x10-A2 TX

stainless steel, material:
1.4301 (X5CrNi18-10)

SAL is screwed on the side

3x screw DIN 7985 M5x10-A2 TX

stainless steel, material:
1.4301 (X5CrNi18-10)



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR)
SAL TO ANALYZER SIDE PANEL CONNECTION



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
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:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.29C

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c:\Users\comachom\appdata\local\temp\AcPublish_2484\SI_20097-02.dwg Time:Jan23,2024-09:43am Login:comachom DimScale:1 LITScale:6

2x screw DIN 7985 M6x16-A2 TX
2x square nut DIN 562 M6-A2

stainless steel, material:
1.4301 (X5CrNi18-10)

aluminium casting alloy:
EN AC-43100

slits in the foot

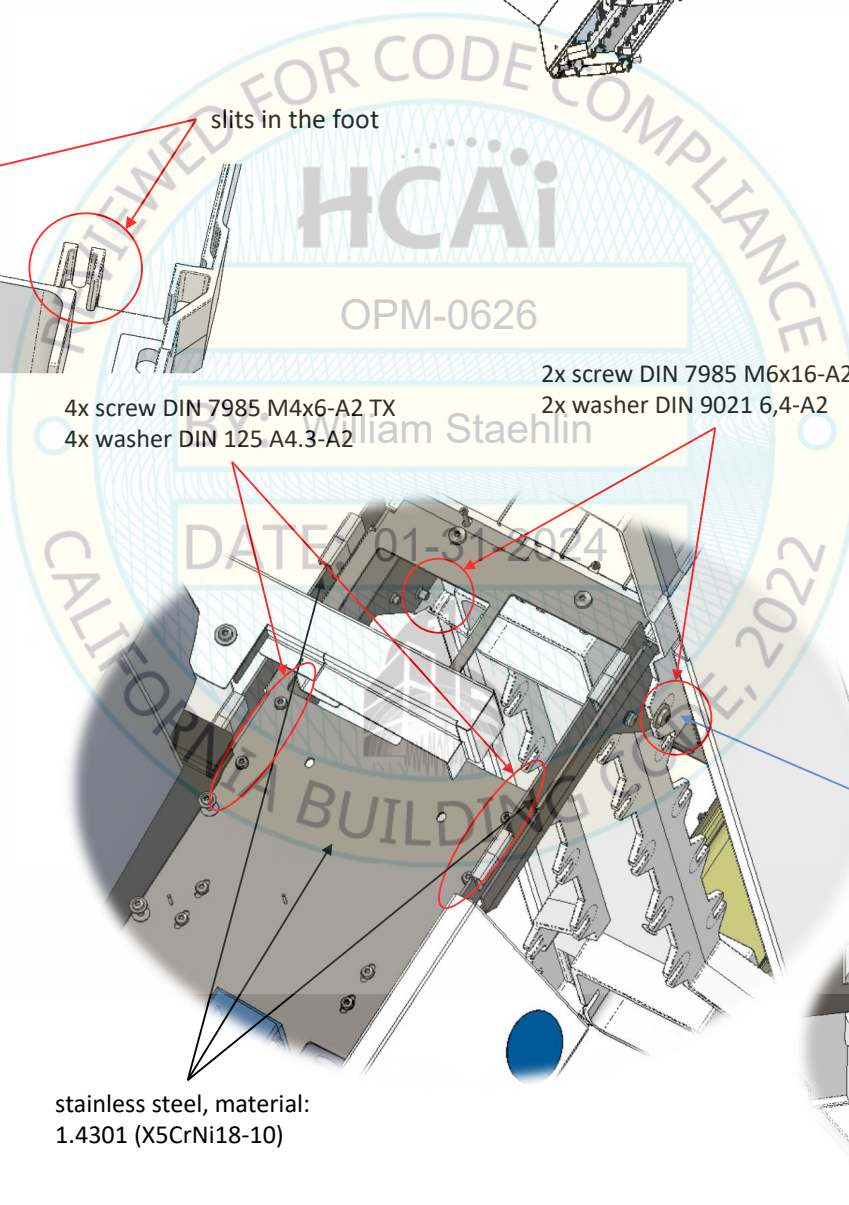
4x screw DIN 7985 M4x6-A2 TX
4x washer DIN 125 A4.3-A2

2x screw DIN 7985 M6x16-A2 TX
2x washer DIN 9021 6,4-A2

stainless steel, material:
1.4301 (X5CrNi18-10)

aluminium casting alloy:
EN AC-43100

slit in the foot



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR)
SAL TO T-SECTION INACTIVE CONNECTION



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



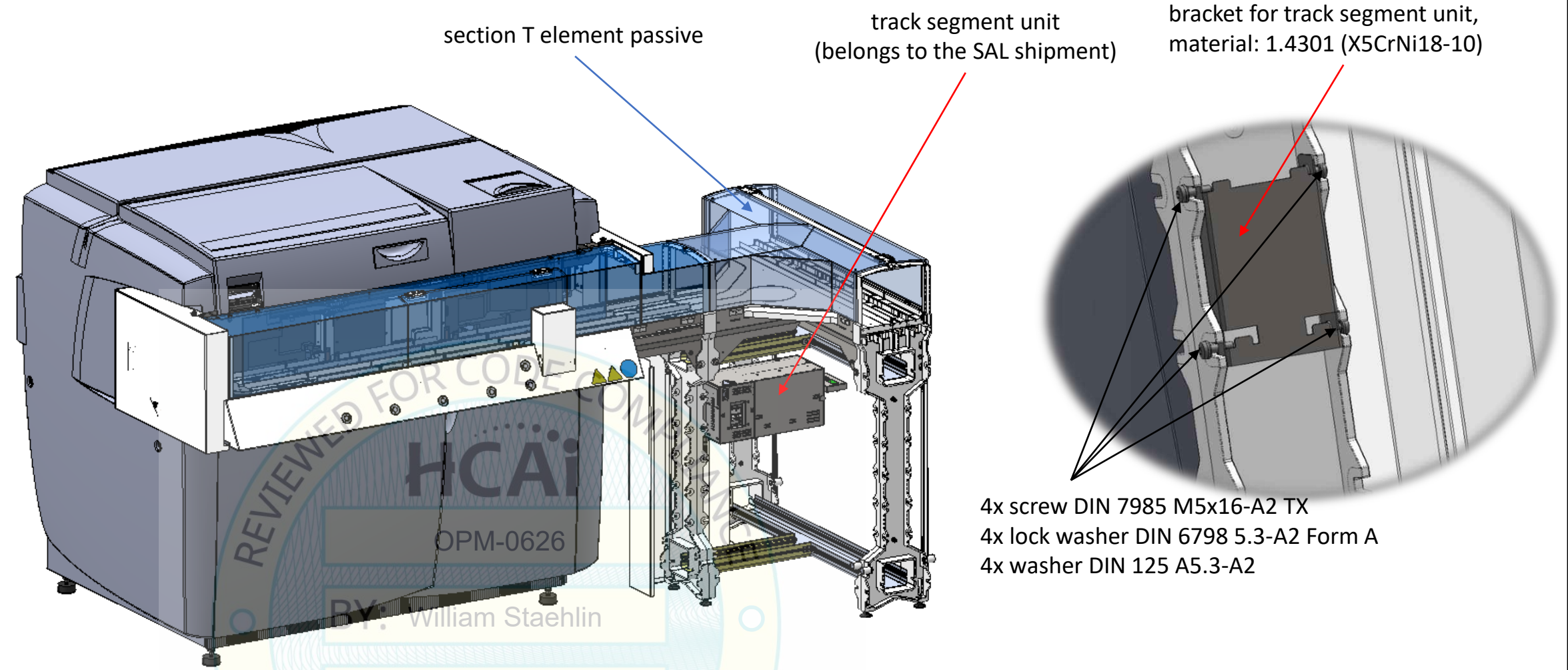
CYS STRUCTURAL ENGINEERS, INC.

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

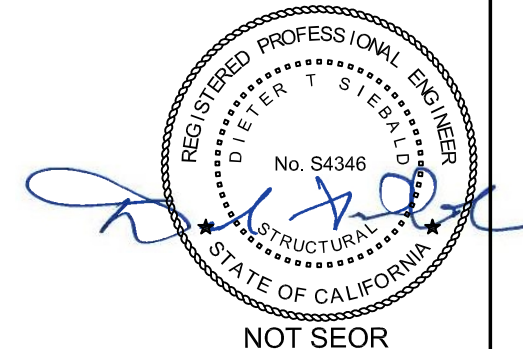
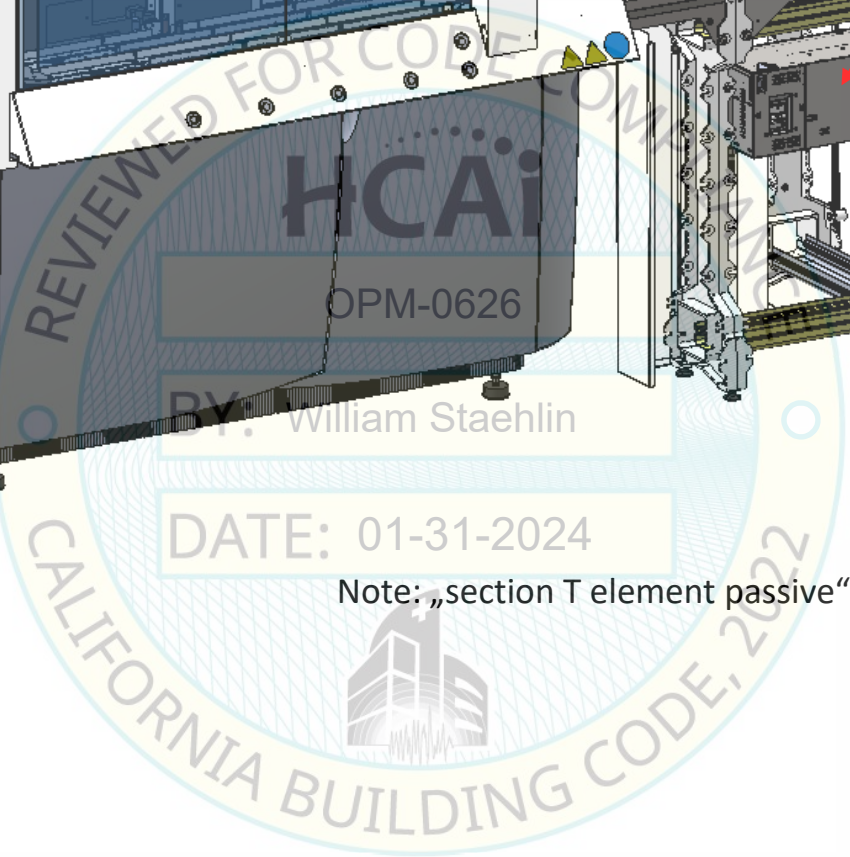
TEL (916) 920-2020
www.cyseng.com

Rev	Description	Date	Job No:	20097.02
			Date:	10/03/2023
			By:	CYS
			Page:	210.29D

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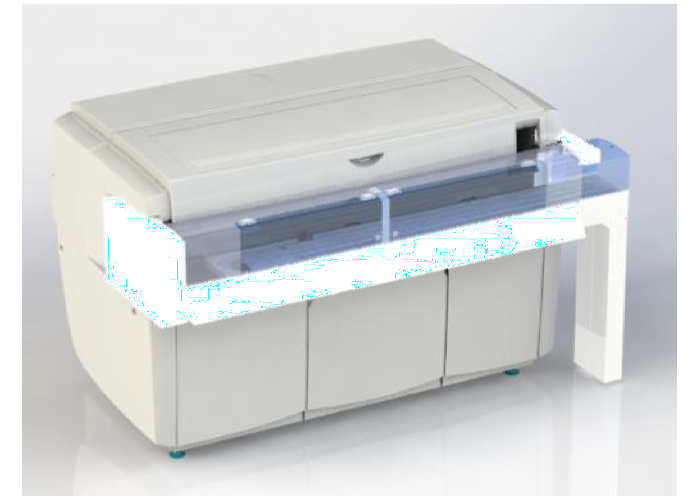
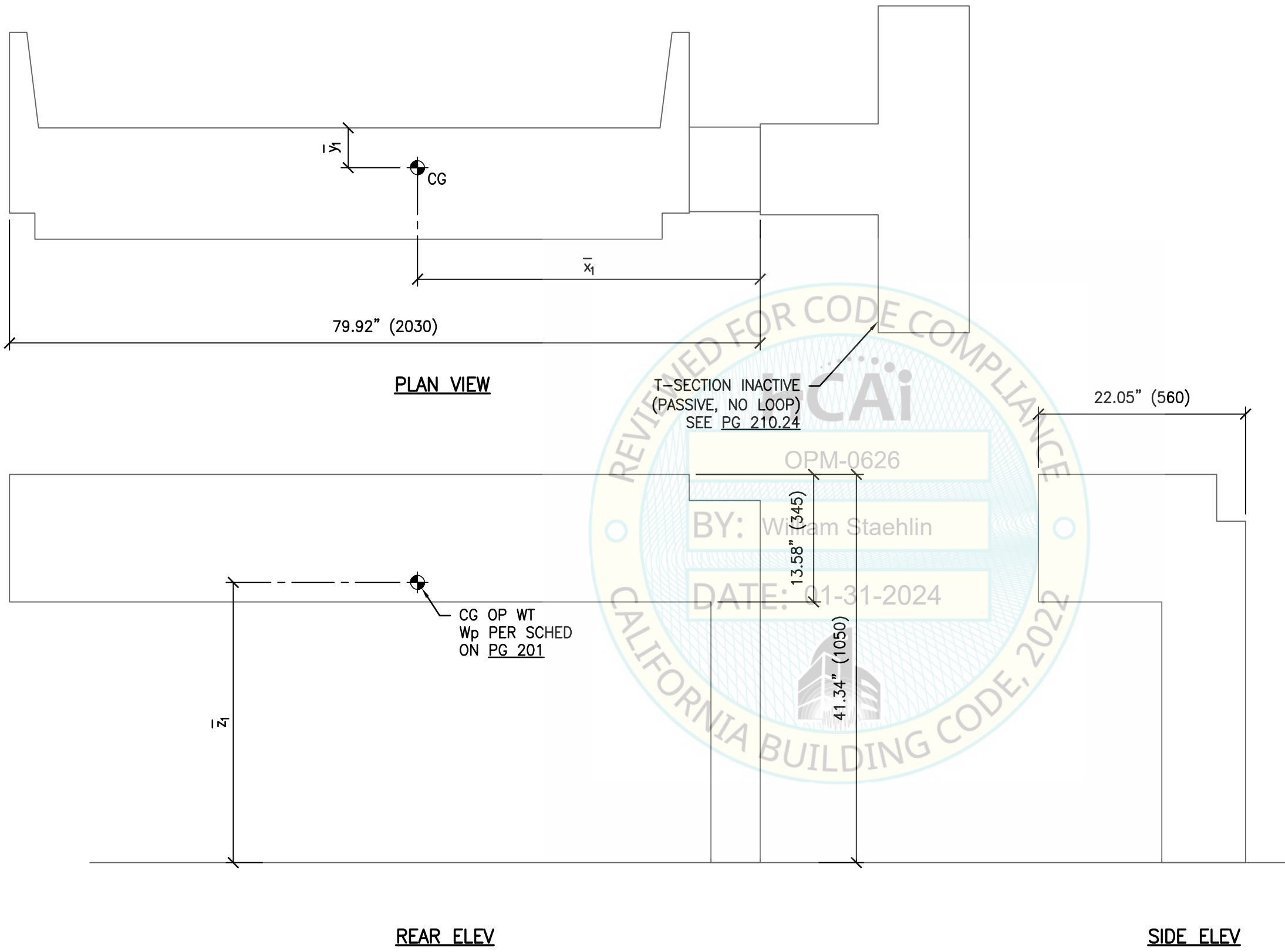


Note: „section T element passive“ is not part of the SAL Architect i2000sr



SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT i2000SR (i2SR) SAL POWER SUPPLY CONNECTION		Rev Description Date	Job No: 20097.02 Date: 10/03/2023 By: CYS Page: 210.29E
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS	CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com		

c:\Users\comachom\appdata\local\temp\AcPublish_2484\SI_20097-02.dwg Time:Jan23,2024-09:43am Login:comachom Dimscale:1 LITScale:6



- NOTES:**
- FOR CONN DTLs, REFER TO PGS 210.29A - 210.29E.
 - x, y & z DIMS ARE PER SCHEDULE ON PG 201.



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

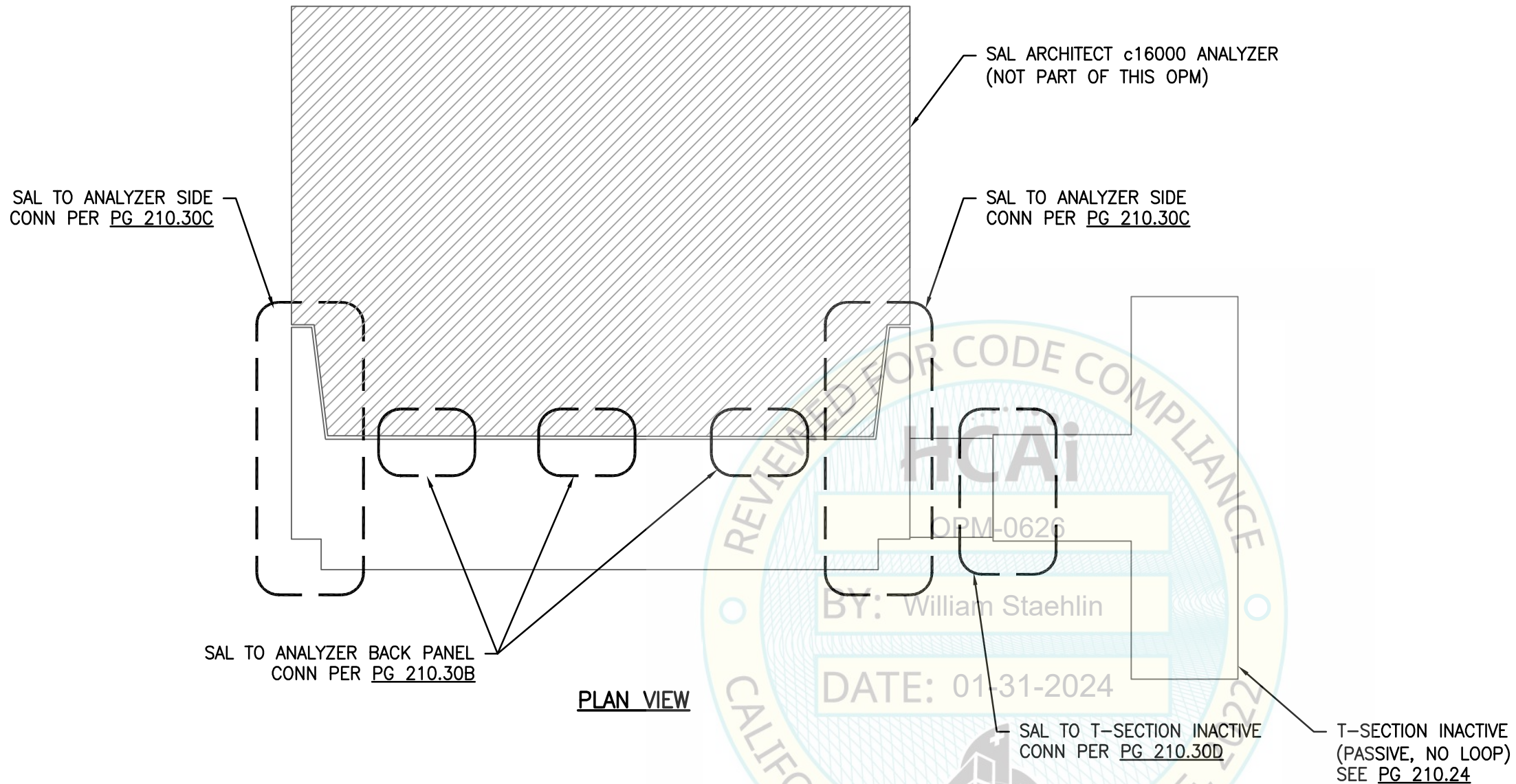


CYS STRUCTURAL ENGINEERS, INC.
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

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

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.30

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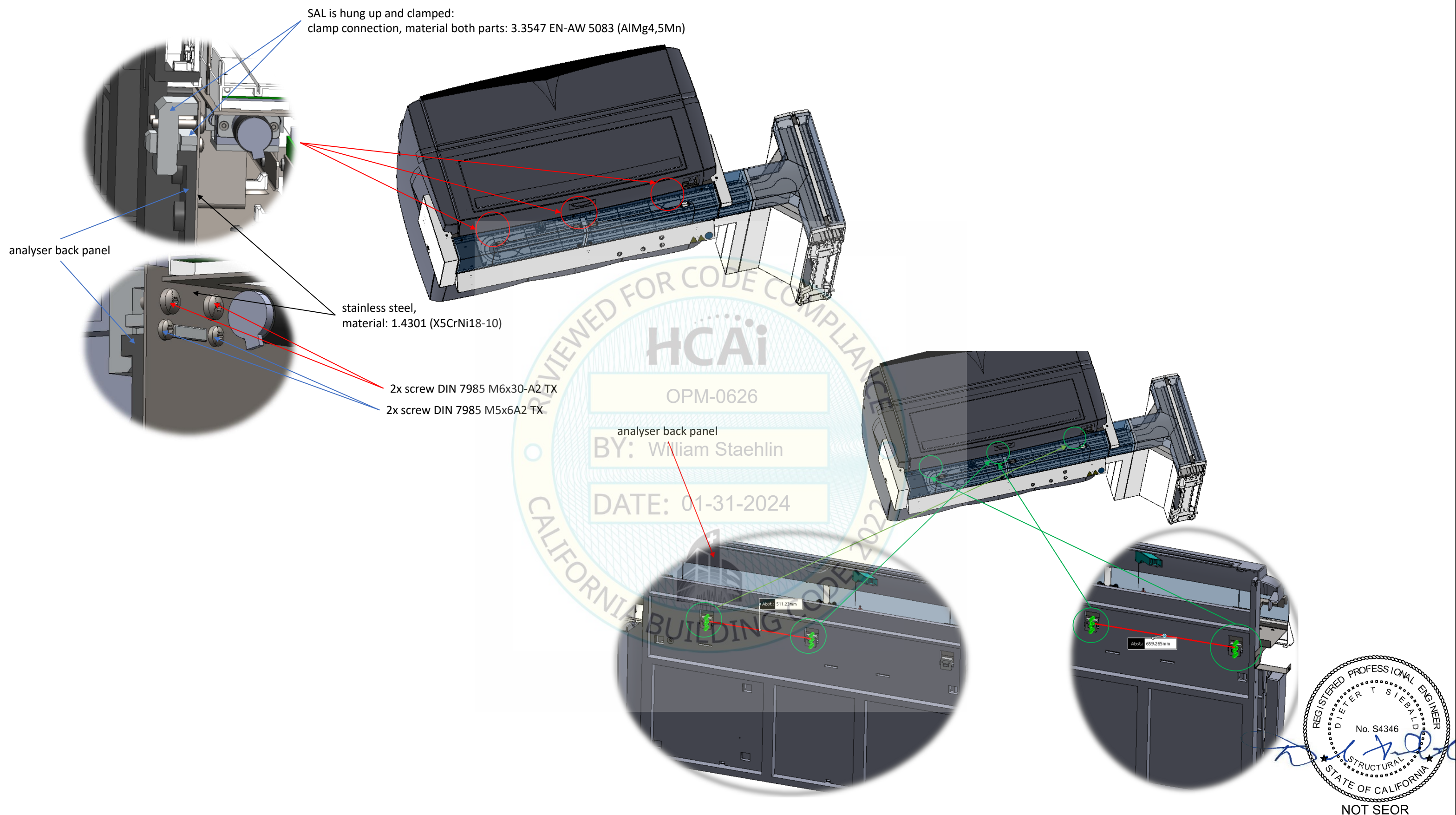
PLAN VIEW



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16) SAL TO ANALYZER CONNECTION				Rev	Description	Date	Job No: 20097.02		
 ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS				 CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com				Date: 10/03/2023	By: CYS
								Page: 210.30A	

c:\Users\comachom\appdata\local\temp\AcPublish_19616\S1_20097-02.dwg Time:Oct03,2023-11:43am Login:comachom Dimscale:4 LTScale:6



SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16)
SAL TO ANALYZER BACK PANEL CONNECTION

Abbott ABBOTT AUTOMATION SOLUTIONS
GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.30B

SAL is screwed on the side

2x screw DIN 7985 M6x10-A2 TX

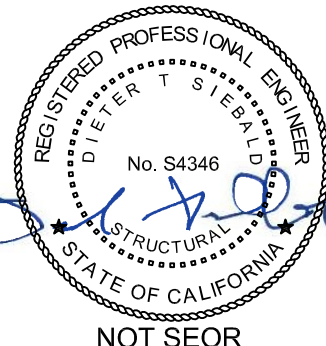
stainless steel, material:
1.4301 (X5CrNi18-10)

SAL is screwed on the side

2x screw DIN 7985 M5x10-A2 TX

stainless steel, material:
1.4301 (X5CrNi18-10)

OPM-0626
BY: William Staehlin
DATE: 01-31-2024



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16)
SAL TO ANALYZER SIDE PANEL CONNECTION



ABBOTT AUTOMATION SOLUTIONS
GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS

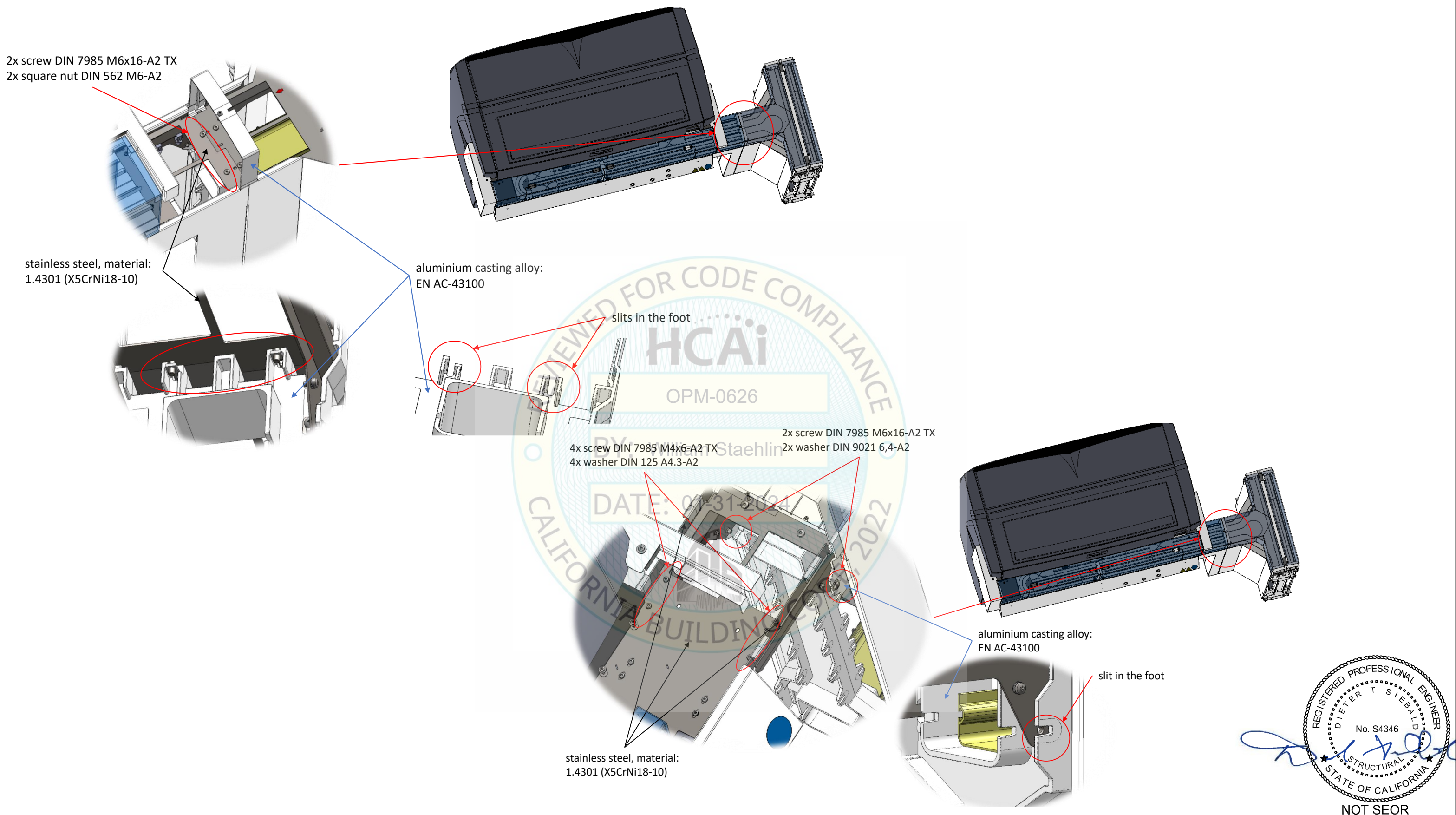


CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833

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

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.30C

c:\Users\comachom\appdata\local\temp\AcPublish_19616\S1_20097-02.dwg Time: Oct 03, 2023 - 11:43am Login: comachom Dimscale: 4 LScale: 6



NOT SEOR

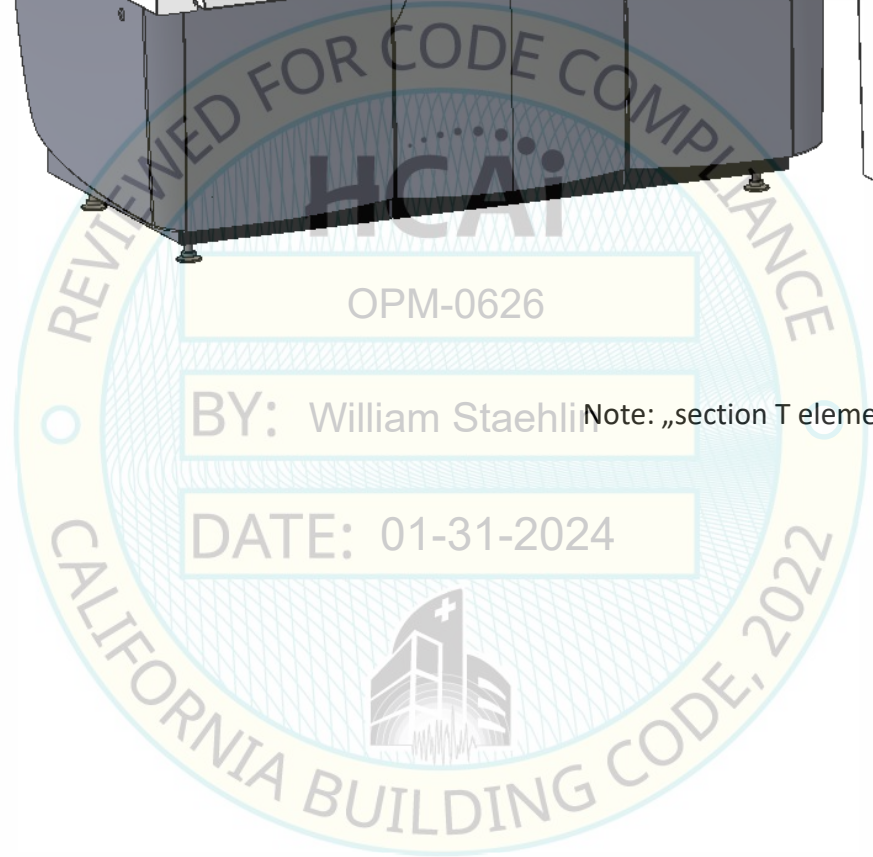
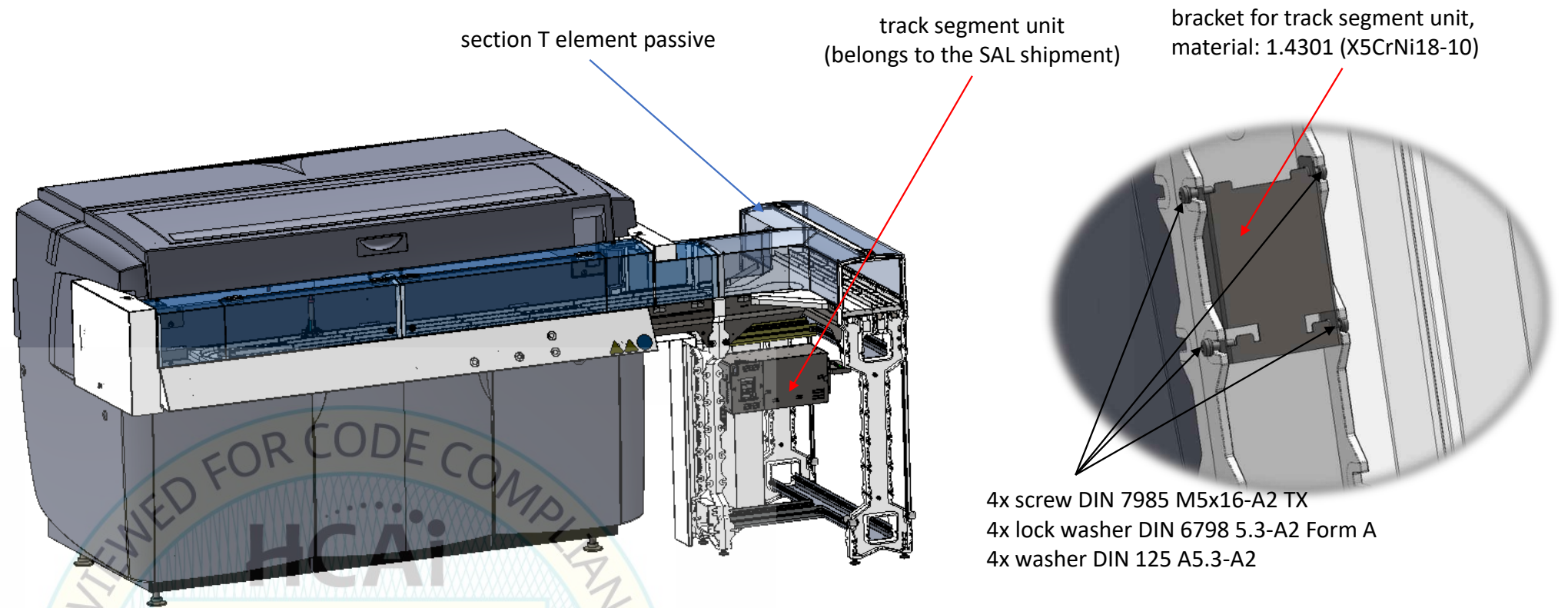
SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16)
SAL TO ANALYZER SIDE CONNECTION

Abbott ABBOTT AUTOMATION SOLUTIONS
GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS

CYS STRUCTURAL ENGINEERS, INC.
2495 NATOMAS PARK DRIVE, SUITE 650
SACRAMENTO, CA 95833
TEL (916) 920-2020
www.cyseng.com

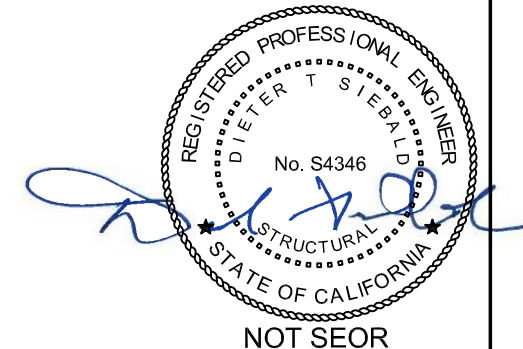
Rev	Description	Date	Job No:	20097.02
			Date:	10/03/2023
			By:	CYS
			Page:	210.30D

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OPM-0626
 BY: William Staehlin
 DATE: 01-31-2024

Note: „section T element passive“ is not part of the SAL Architect c16000

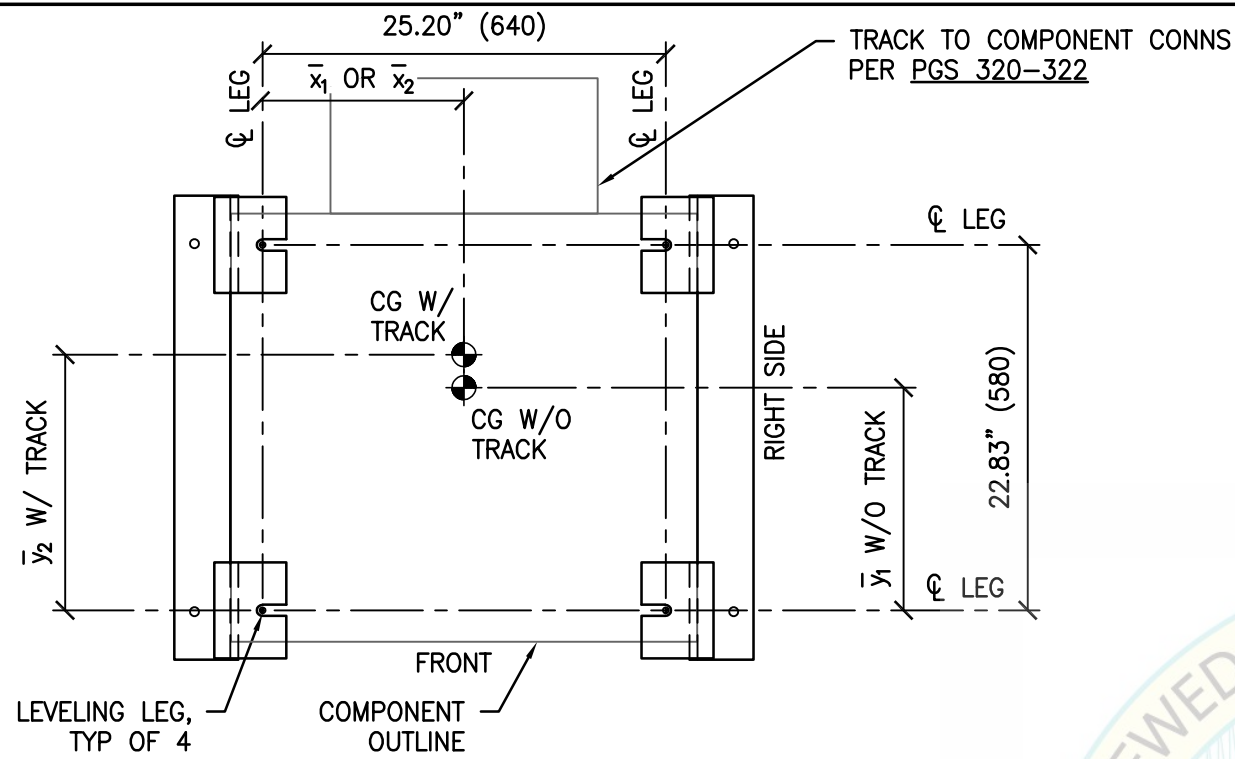


SHEET TITLE: ANALYZER INTERFACES: SAL ARCHITECT c16000 (c16)
 SAL POWER SUPPLY CONNECTION

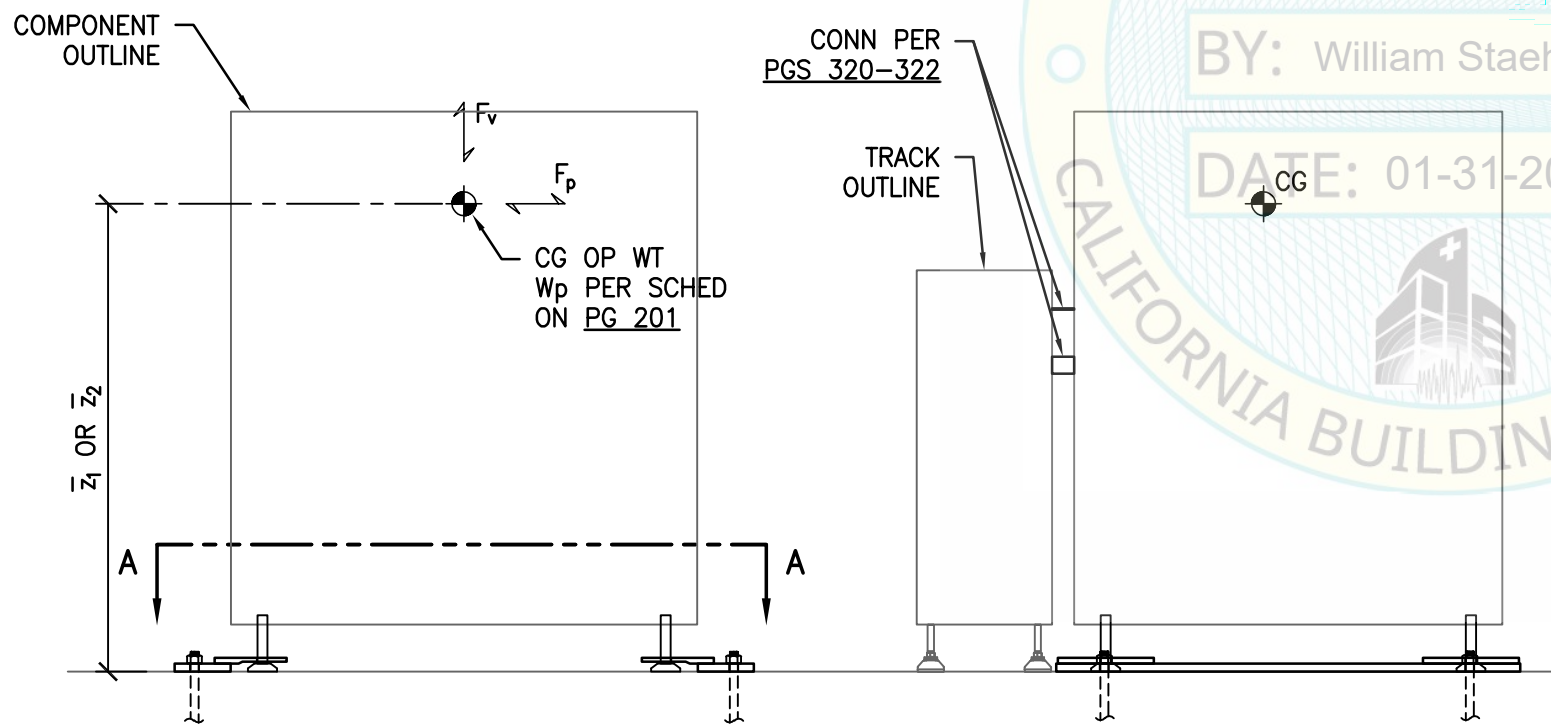
Abbott ABBOTT AUTOMATION SOLUTIONS
 GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS

CYS STRUCTURAL ENGINEERS, INC.
 2495 NATOMAS PARK DRIVE, SUITE 650 TEL (916) 920-2020
 SACRAMENTO, CA 95833 www.cyseng.com

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.30E



BASE PLAN VIEW A-A



FRONT ELEV

RIGHT SIDE ELEV

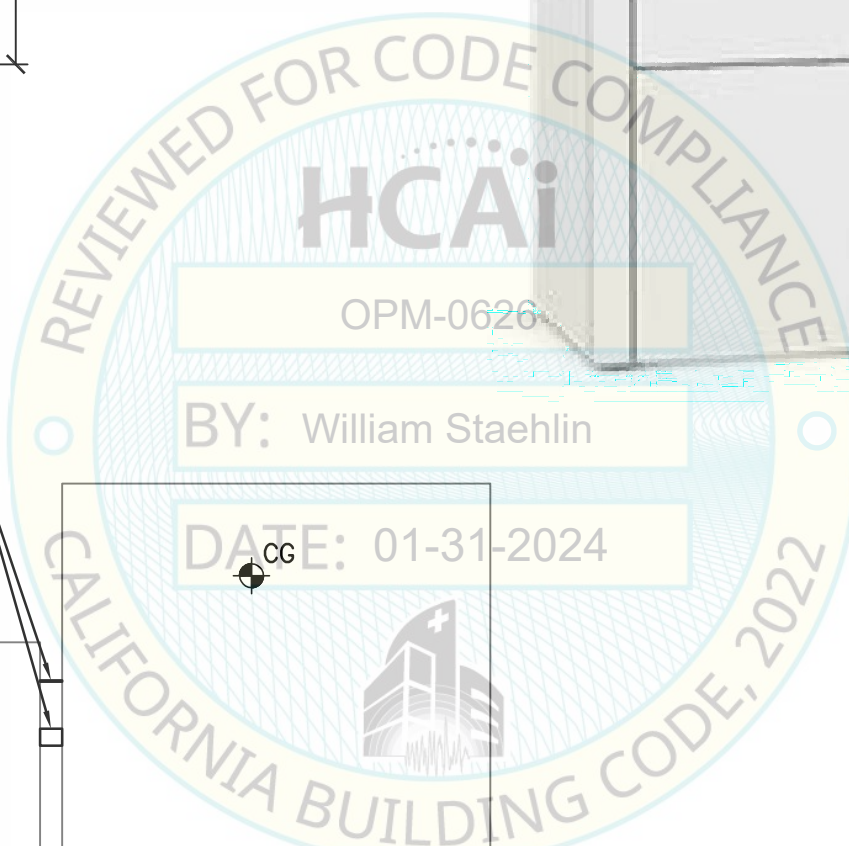
NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	1389#	1809#	415#
CASE 2 ¹	816#	1236#	250#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: RBM SYSMEX XN9000/9100 (XN9 OR RBX)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



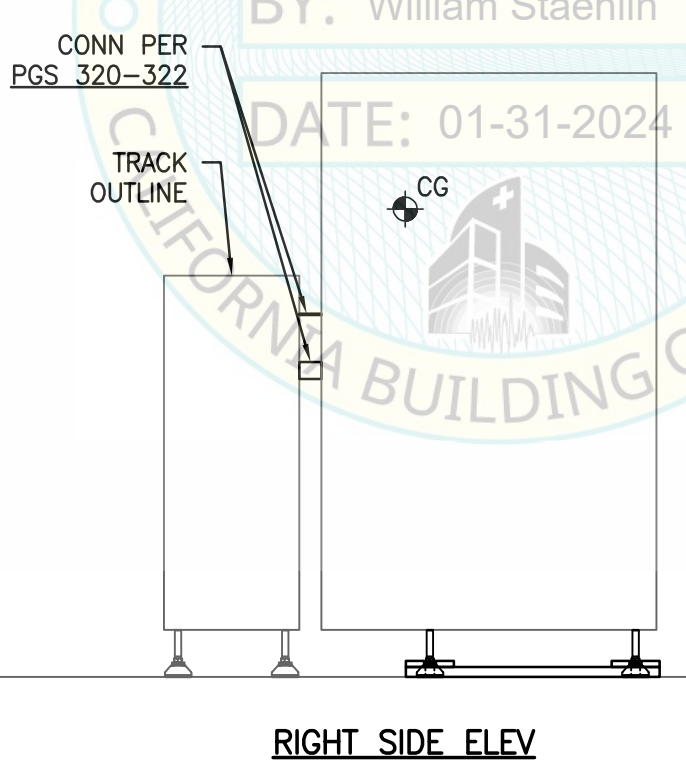
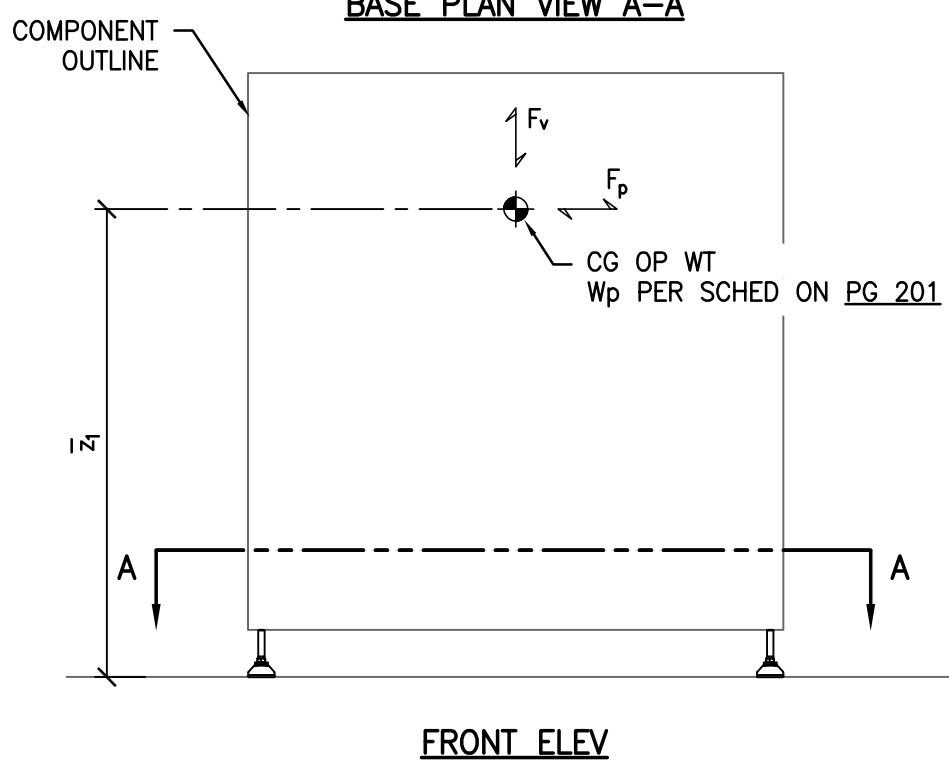
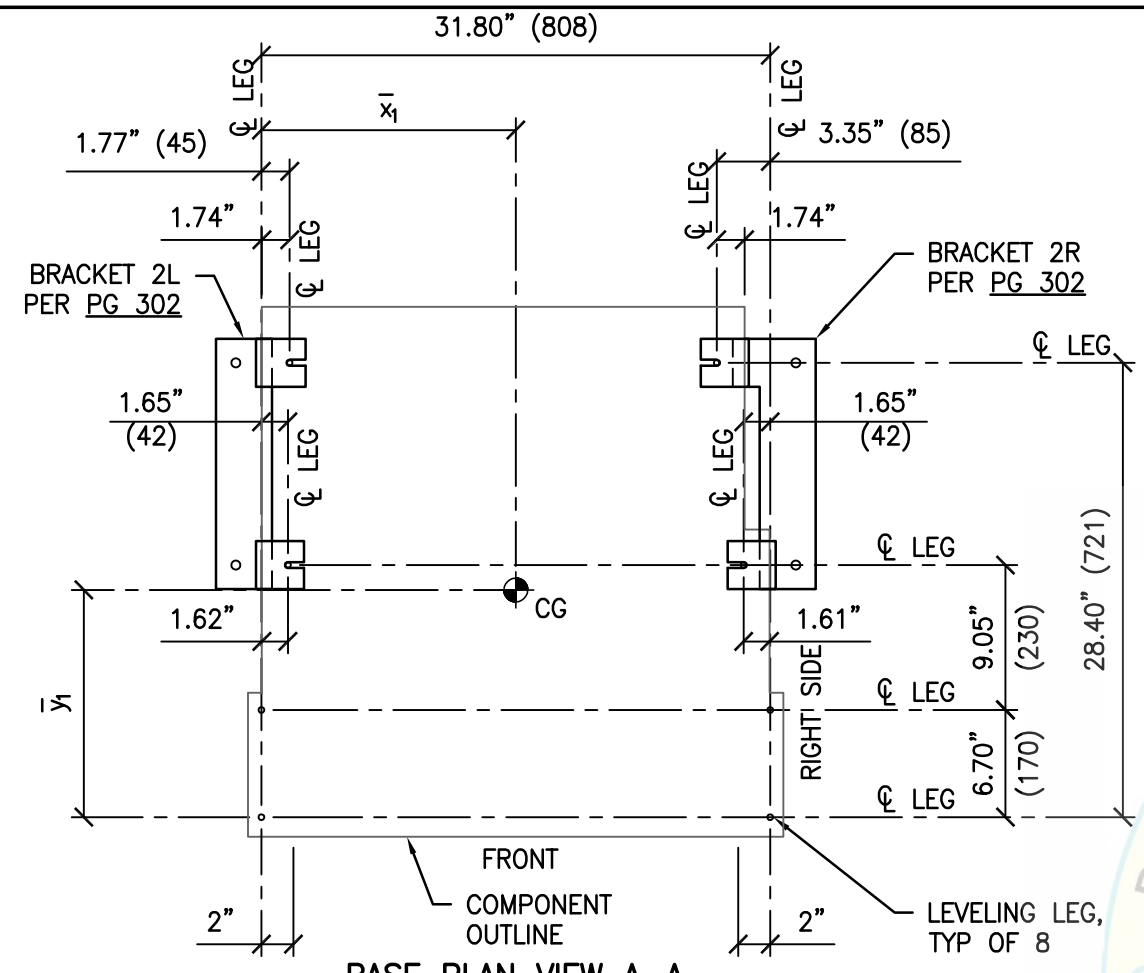
CYS STRUCTURAL ENGINEERS, INC.

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

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

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.31

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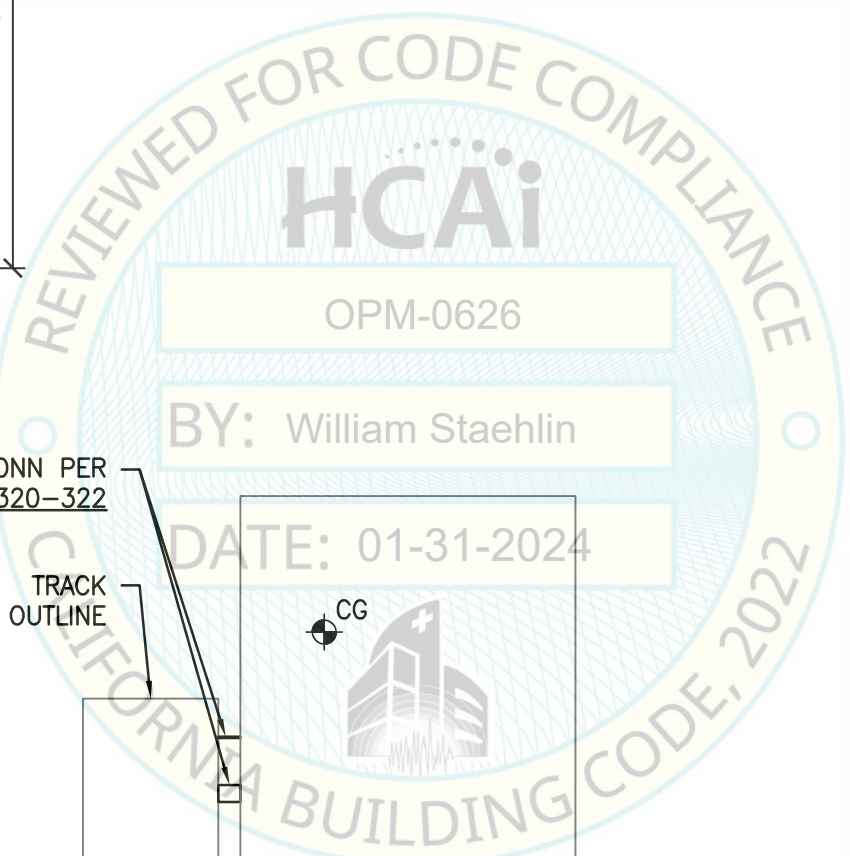


NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201

MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	560#	595#	111#
CASE 2 ¹	333#	395#	67#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



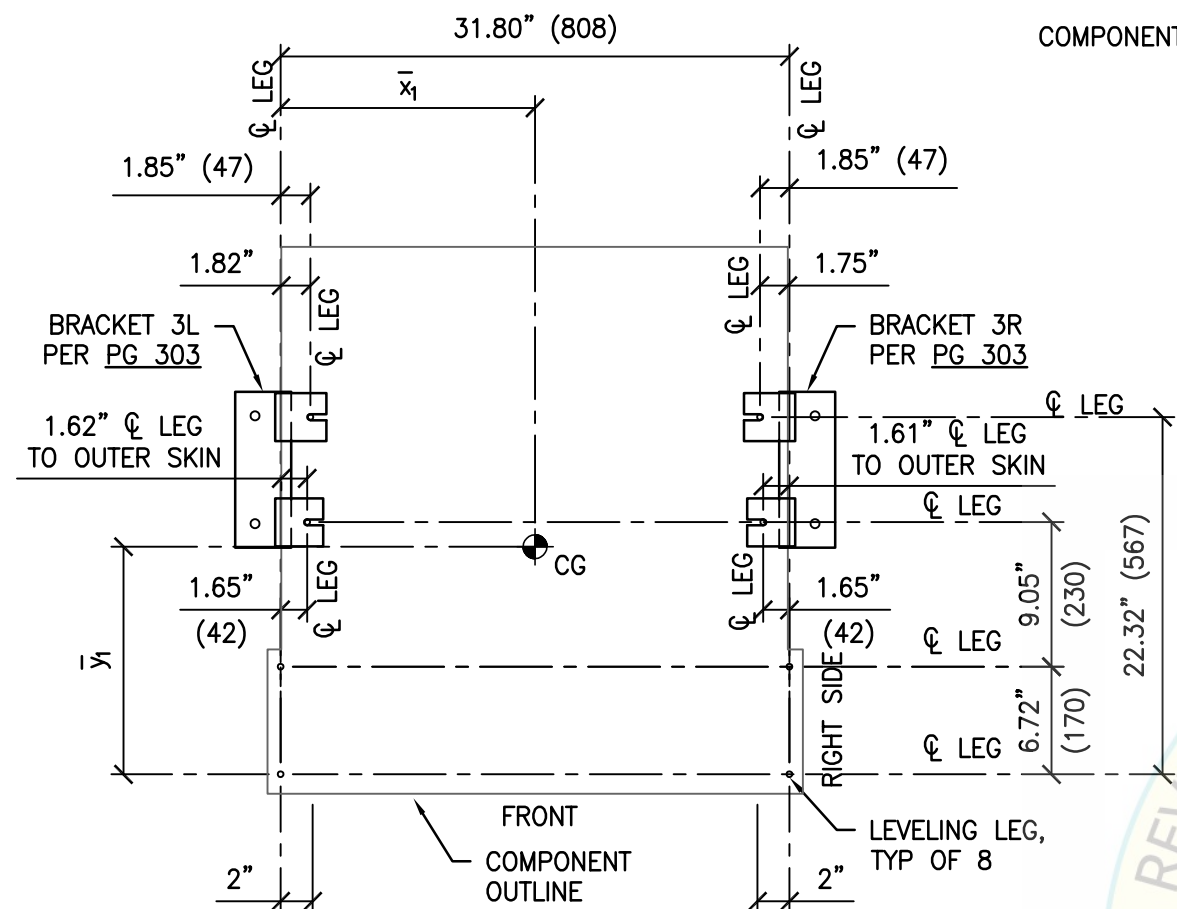
SHEET TITLE: ANALYZER INTERFACES: RBI STAGO STA-R MAX2 (STR)
BASE PLAN & ELEVATIONS

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.32

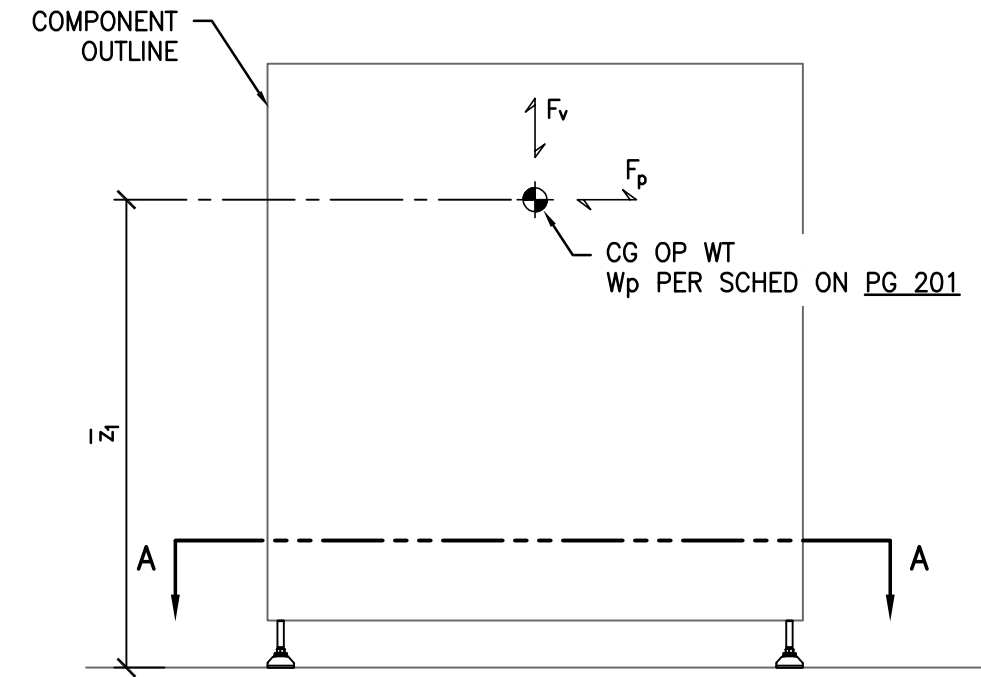
Abbott ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

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

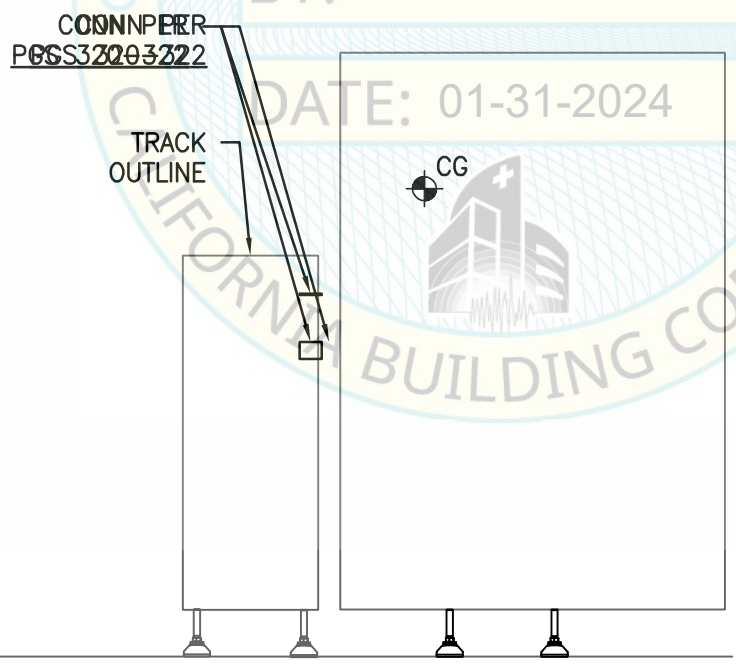
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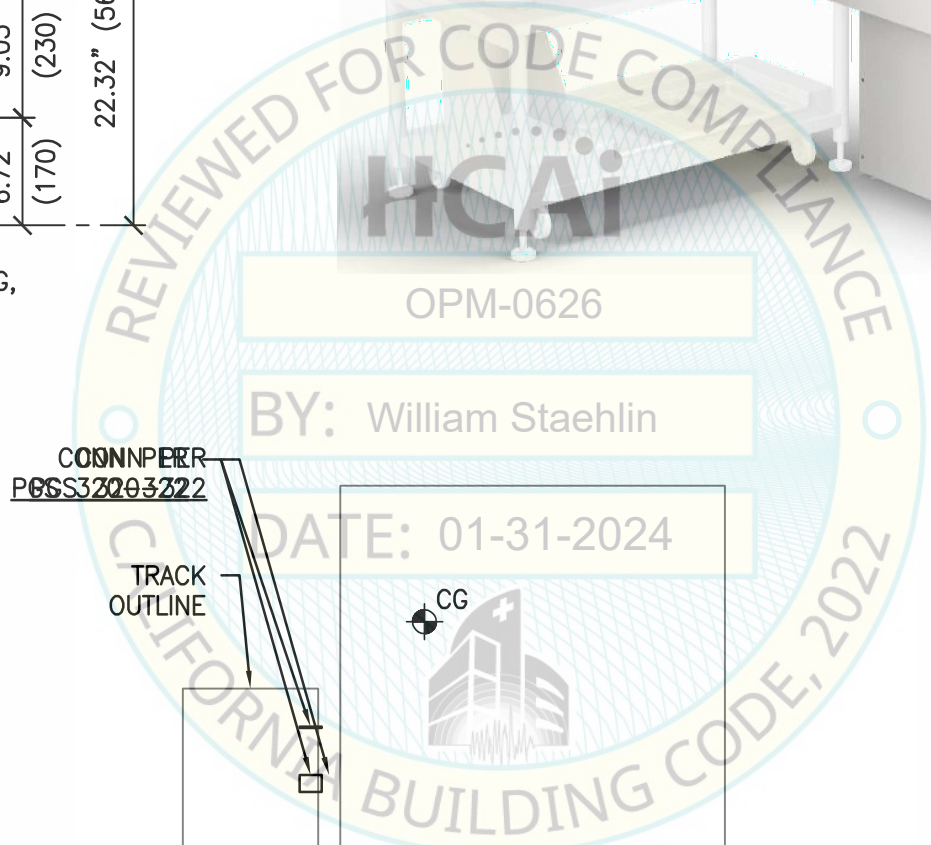
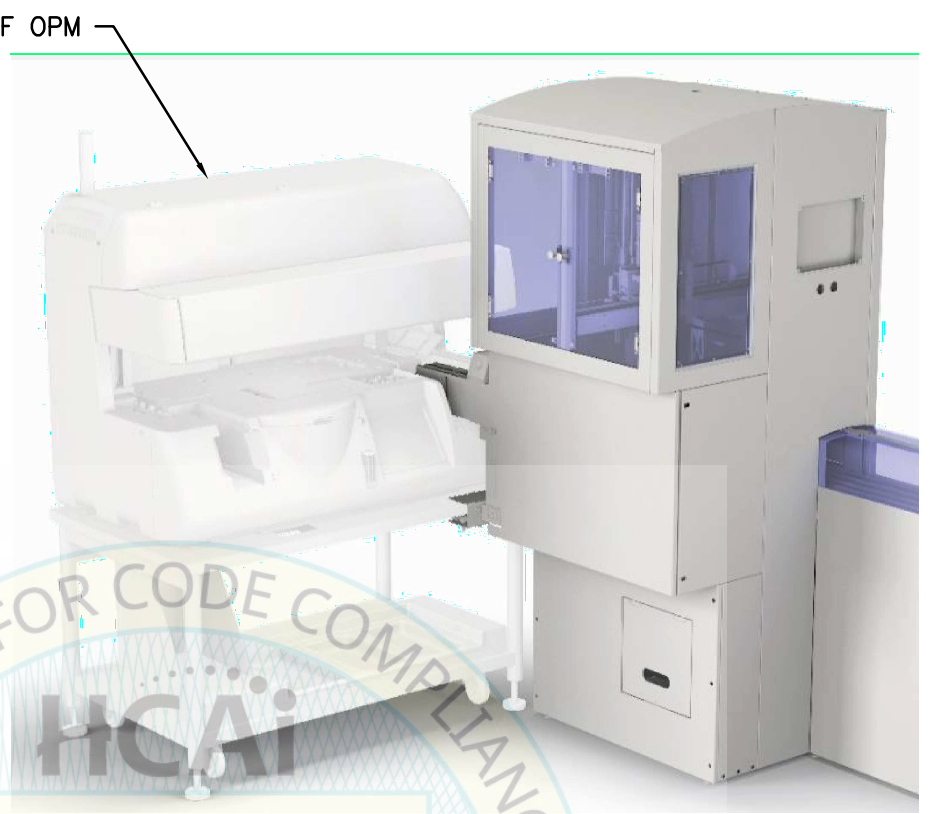
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

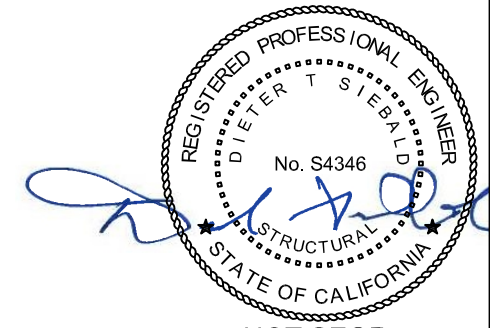


MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	721#	821#	120#
CASE 2 ¹	427#	534#	72#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.

NOTE:
x, y & z DIMS ARE PER SCHEDULE ON PG 201



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: RBI THERMO PHADIA 250 (P250)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

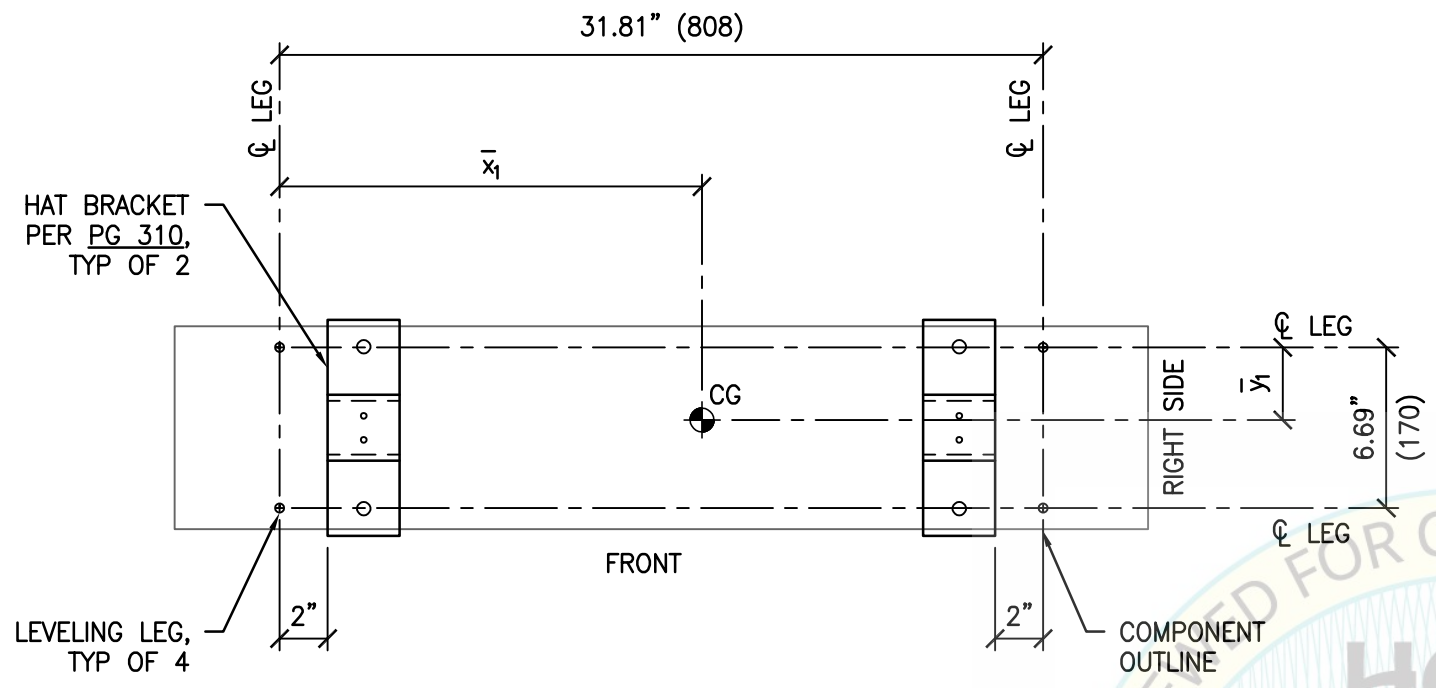
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

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

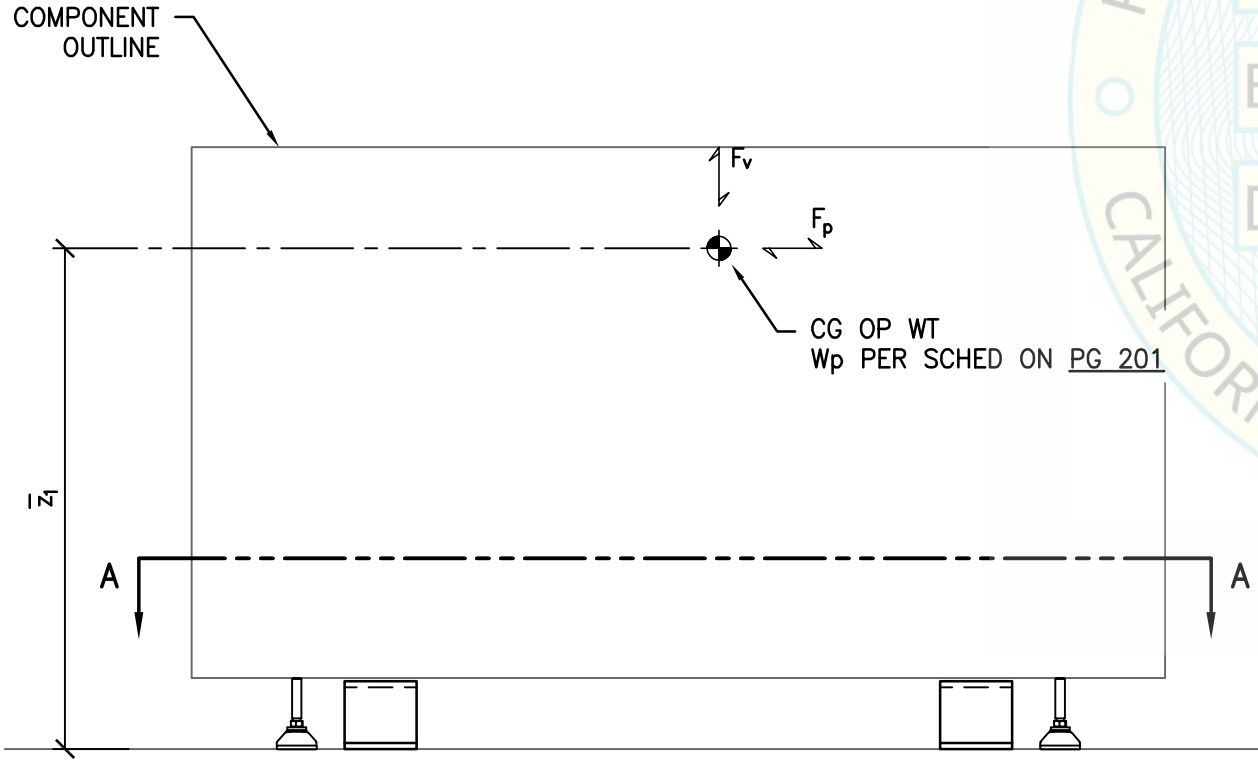
Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.33

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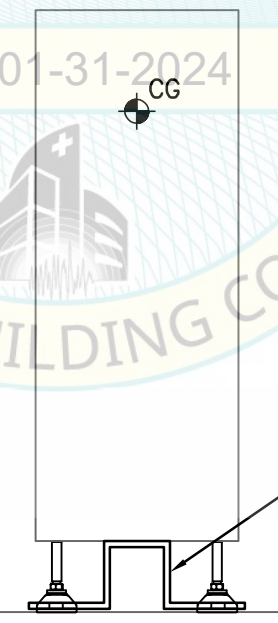
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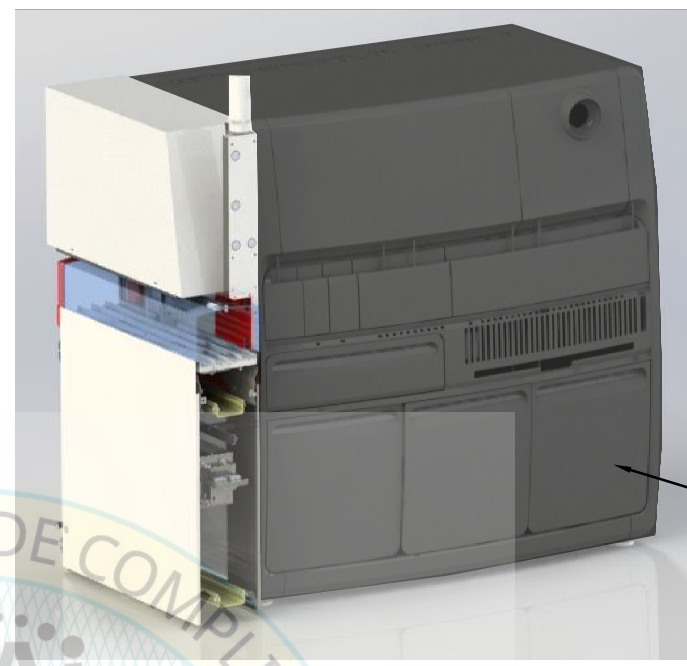
BASE PLAN VIEW A-A



FRONT ELEV



RIGHT SIDE ELEV

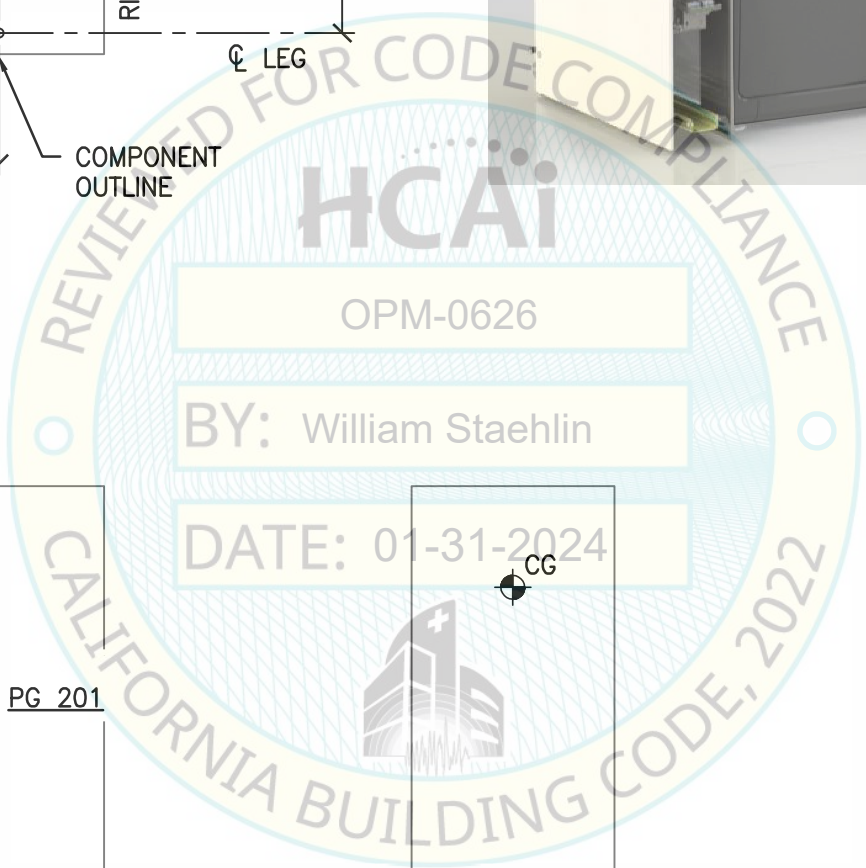


COMPONENT NOT PART OF OPM

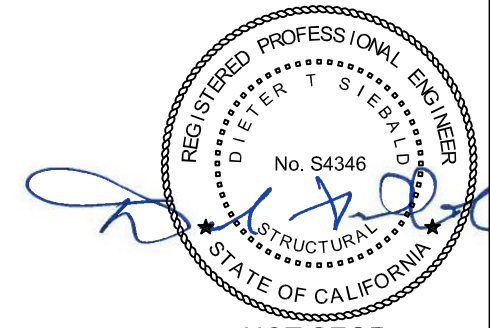
MAX ANCHOR FORCES AT LRFD AT LEVELING LEG

	T _{max}	C _{max}	V _{max}
CASE 1 ²	460#	618#	90#
CASE 2 ¹	272#	429#	51#

1. INCLUDES OVERSTRENGTH FACTOR (Ω_o).
2. OVERSTRENGTH FACTOR (Ω_o) MUST BE APPLIED FOR ANCHORAGE TO CONC.



NOTE:
x, y & z DIMS ARE PER
SCHEDULE ON PG 201



NOT SEOR

SHEET TITLE: ANALYZER INTERFACES: IL-SAL LIAISON XL (LIA)
BASE PLAN & ELEVATIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



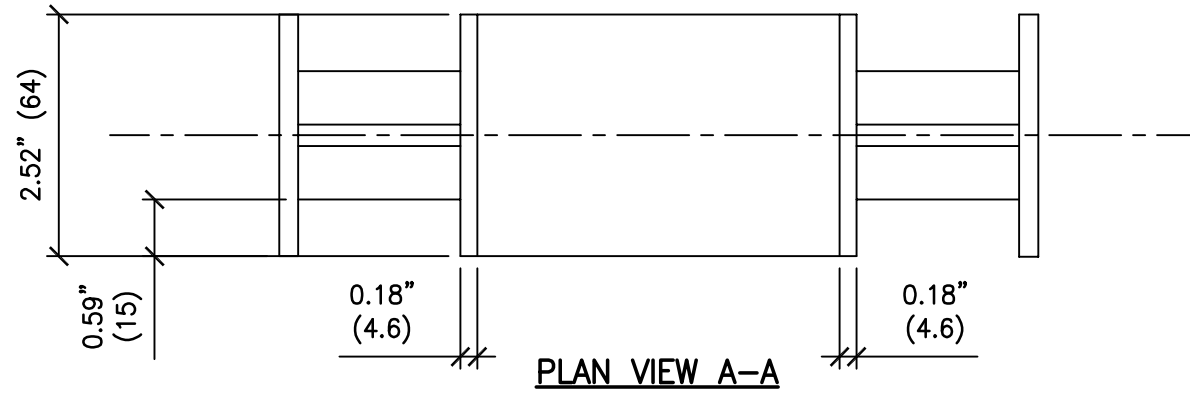
CYS STRUCTURAL ENGINEERS, INC.

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

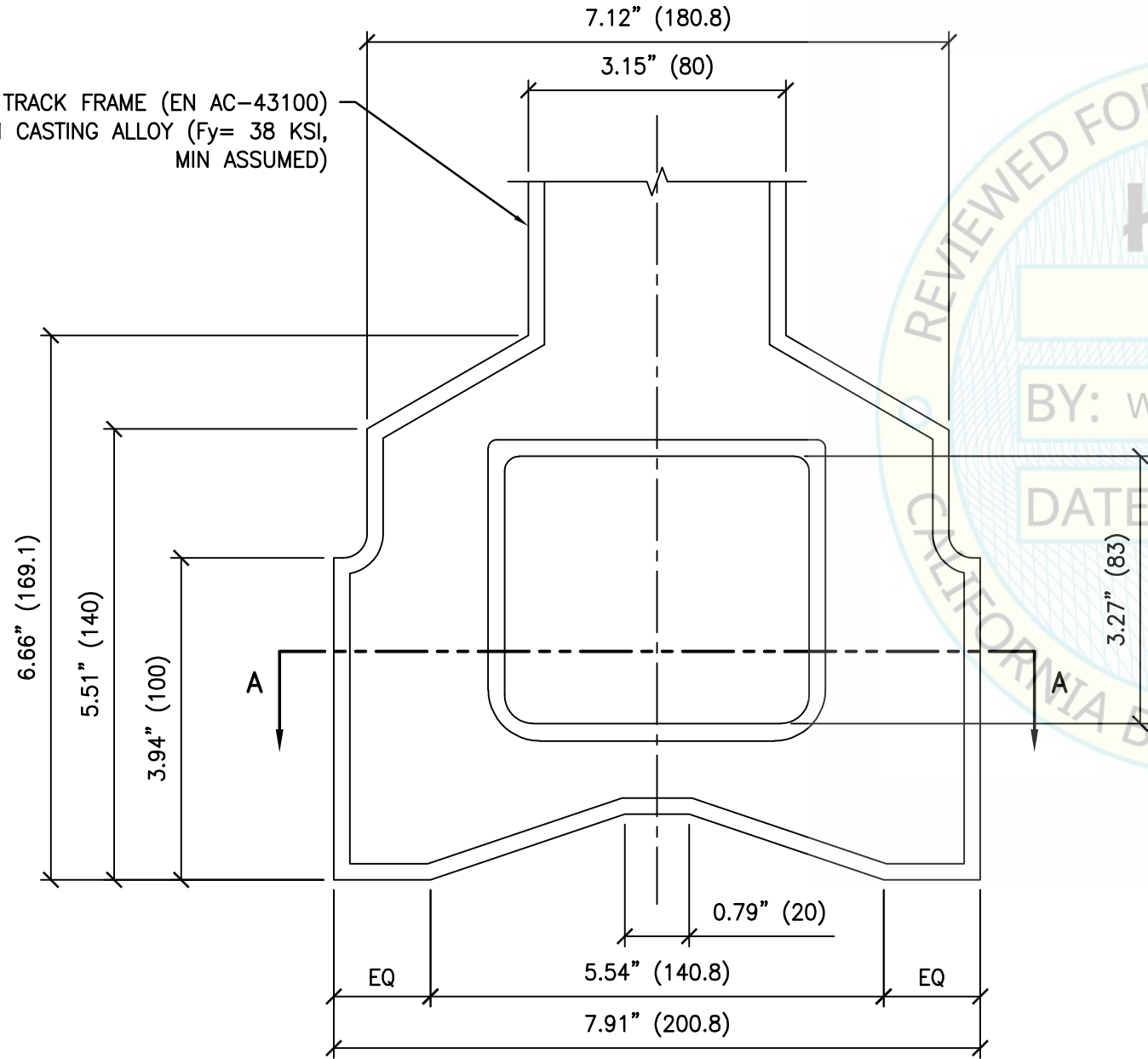
TEL (916) 920-2020
www.cyseng.com

Rev	Description	Date	Job No:
			20097.02
			Date: 10/03/2023
			By: CYS
			Page: 210.34

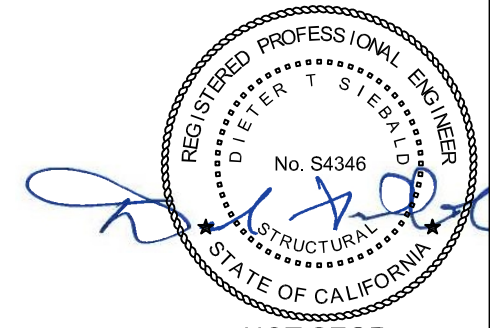
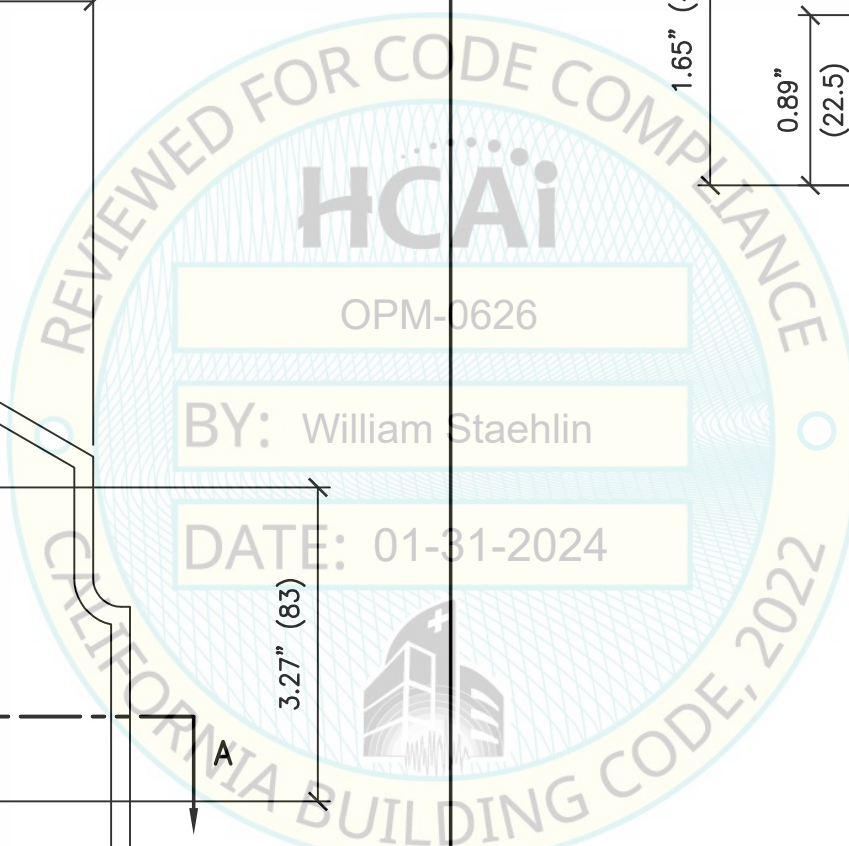
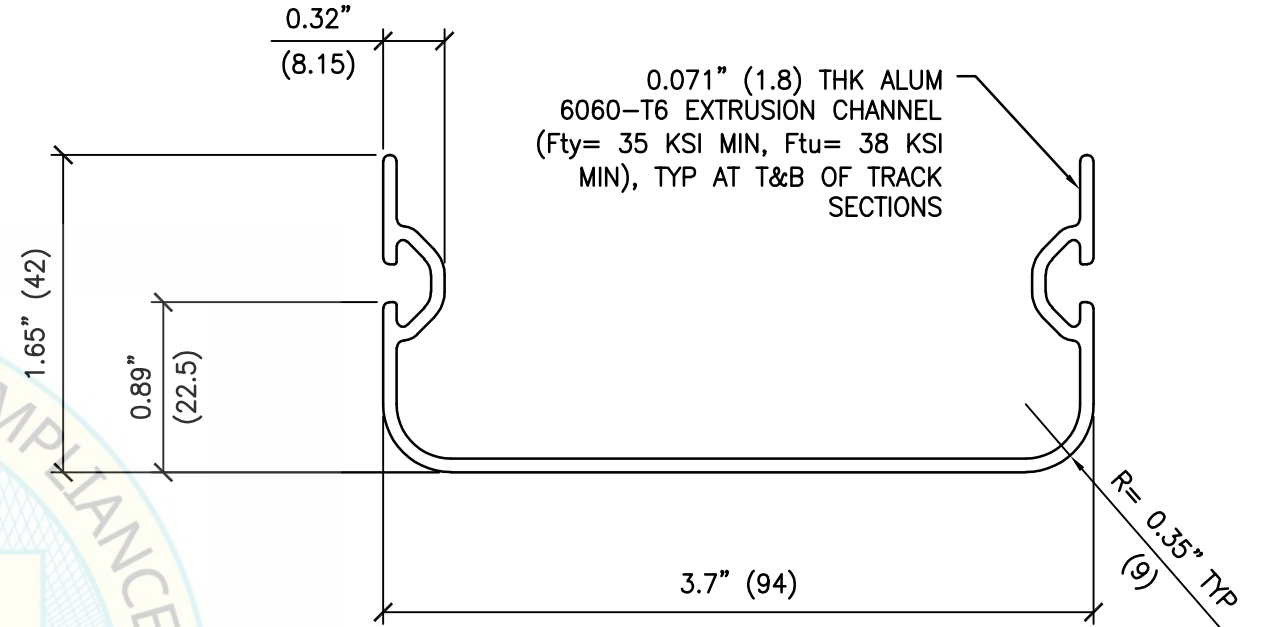
SUPPORT FRAME



TYP TRACK FRAME (EN AC-43100)
ALUM CASTING ALLOY (F_y= 38 KSI,
MIN ASSUMED)



CHANNEL



NOT SEOR

SHEET TITLE: TRACK DETAIL
SUPPORT FRAME



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

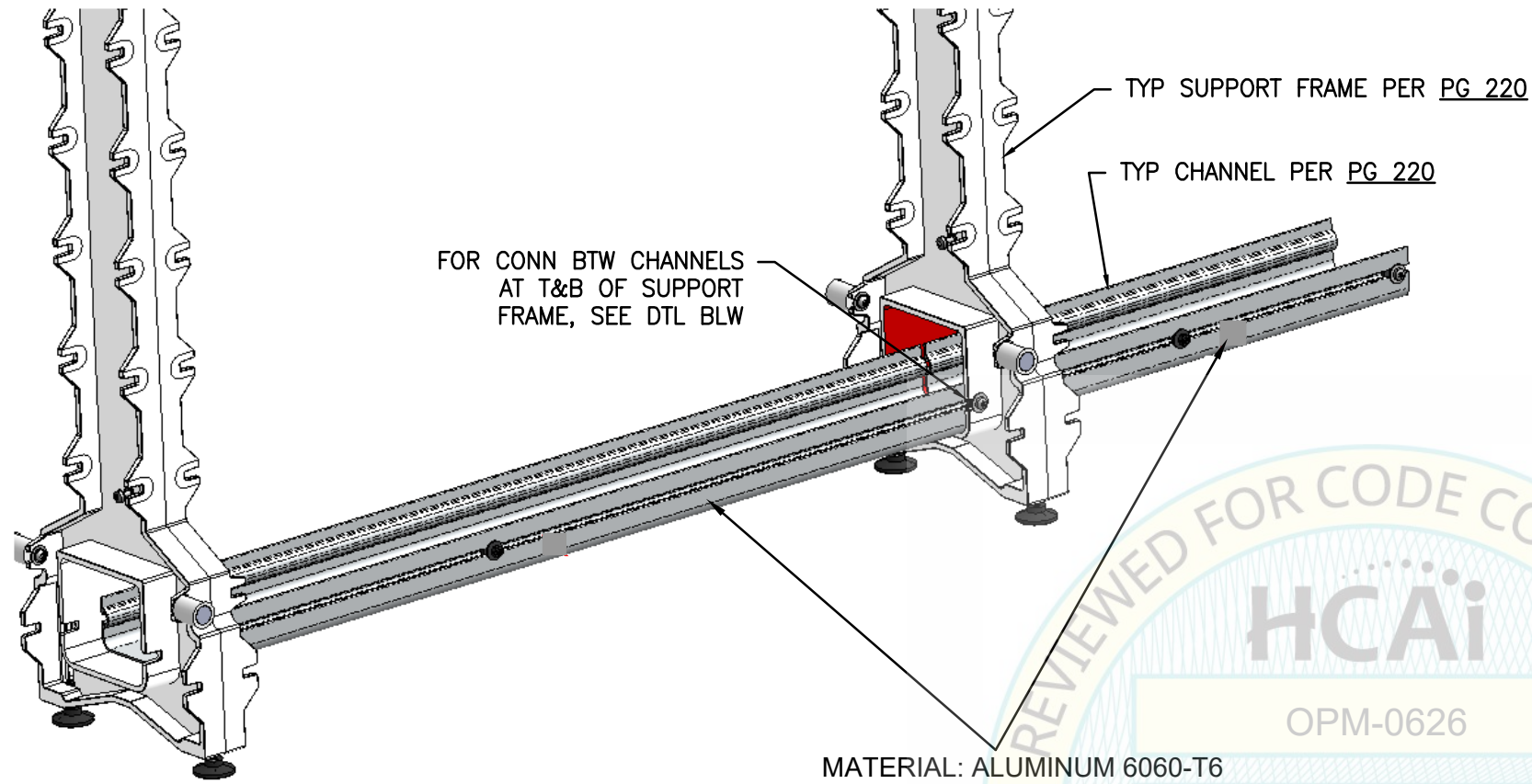
2710 GATEWAY OAKS DRIVE, SUITE 190N
SACRAMENTO, CA 95833

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

Rev	Description	Date	Job No:
			20097.02
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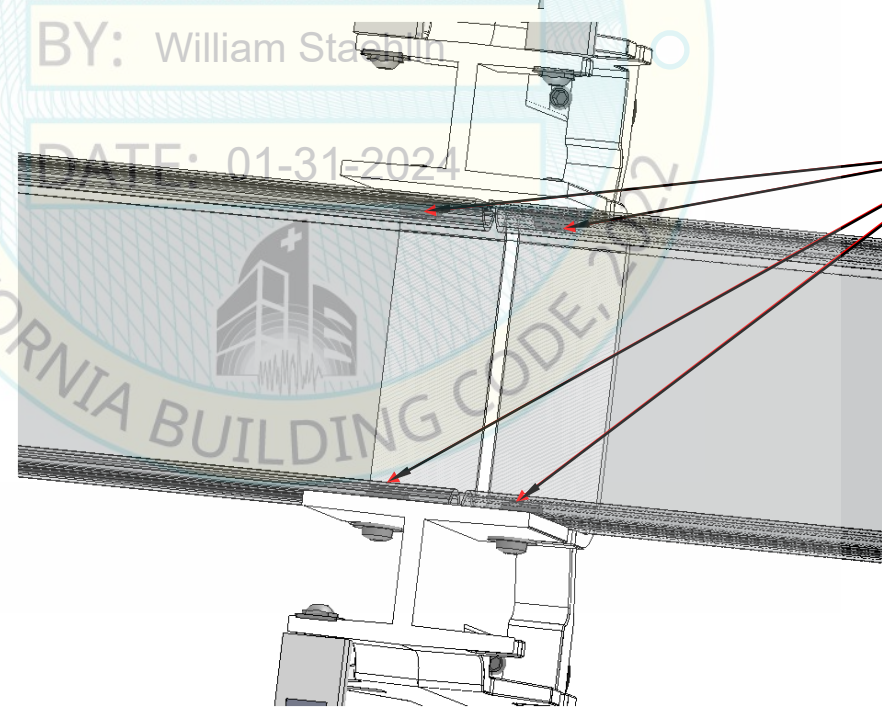
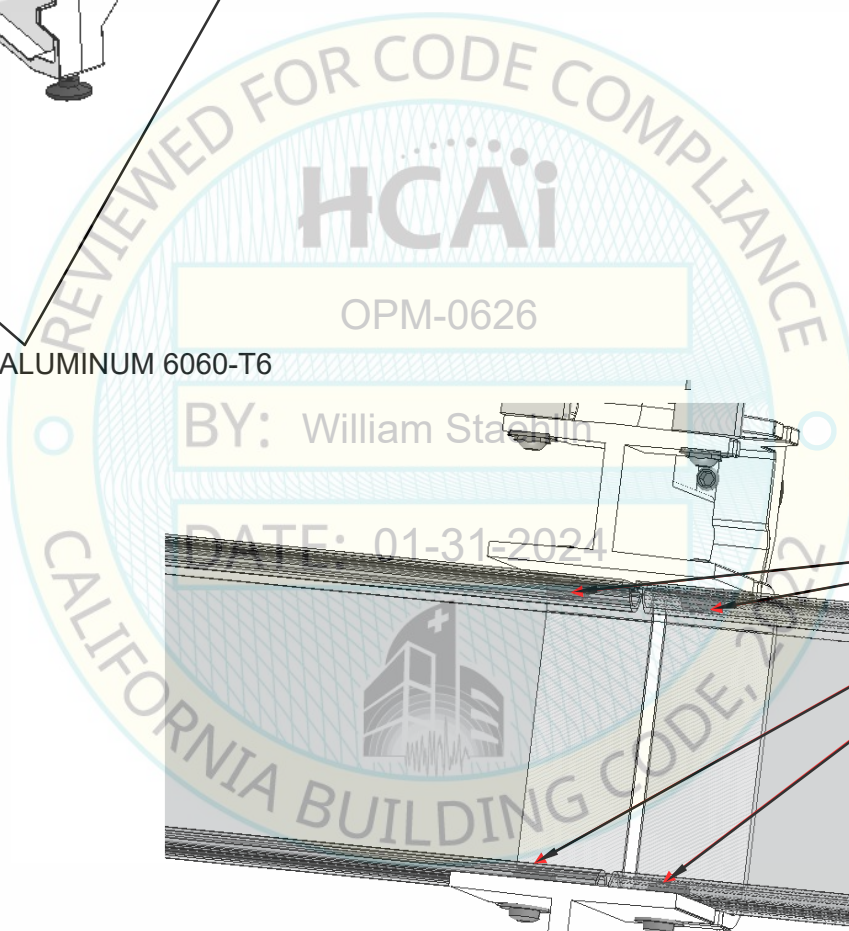
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SUPPORT FRAME TO CHANNEL CONNECTION



SUPPORT FRAME ISOMETRIC

MATERIAL: ALUMINUM 6060-T6



SUPPORT FRAME TO CHANNEL CONN



SCREW DIN 7985 M5x12-TX A2
 TORQUE TIGHTENED TO 2.5 FT-LBS MIN
 (Fy= 65 KSI MIN, Fu= 102 KSI MIN)
 WASHER DIN 9021-5,3 A2 T-SLOT NUT
 - M5 STL ZINC



NOT SEOR

L:\Jobs\20097 Abbott - AA System OPM\OPM\ACAD\STRU\1_20097-02.dwg Time: Jan 23, 2024 09:55am Login: camachom DimScale: 1 LTScale: 6

SHEET TITLE: TRACK DETAIL
 SUPPORT FRAME CONNECTIONS



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS



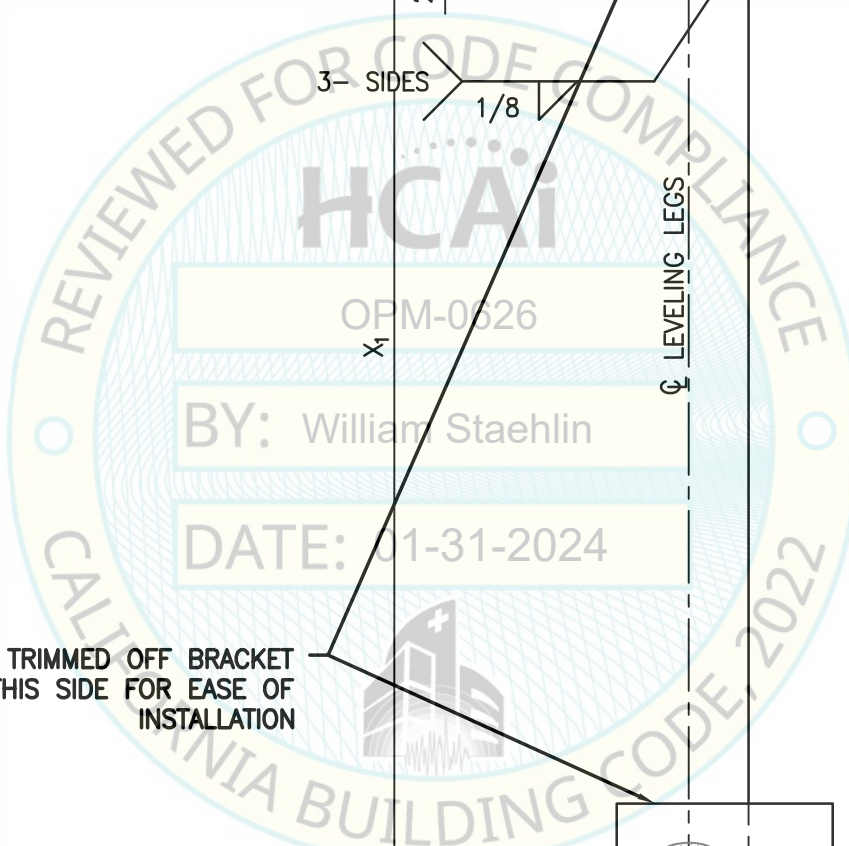
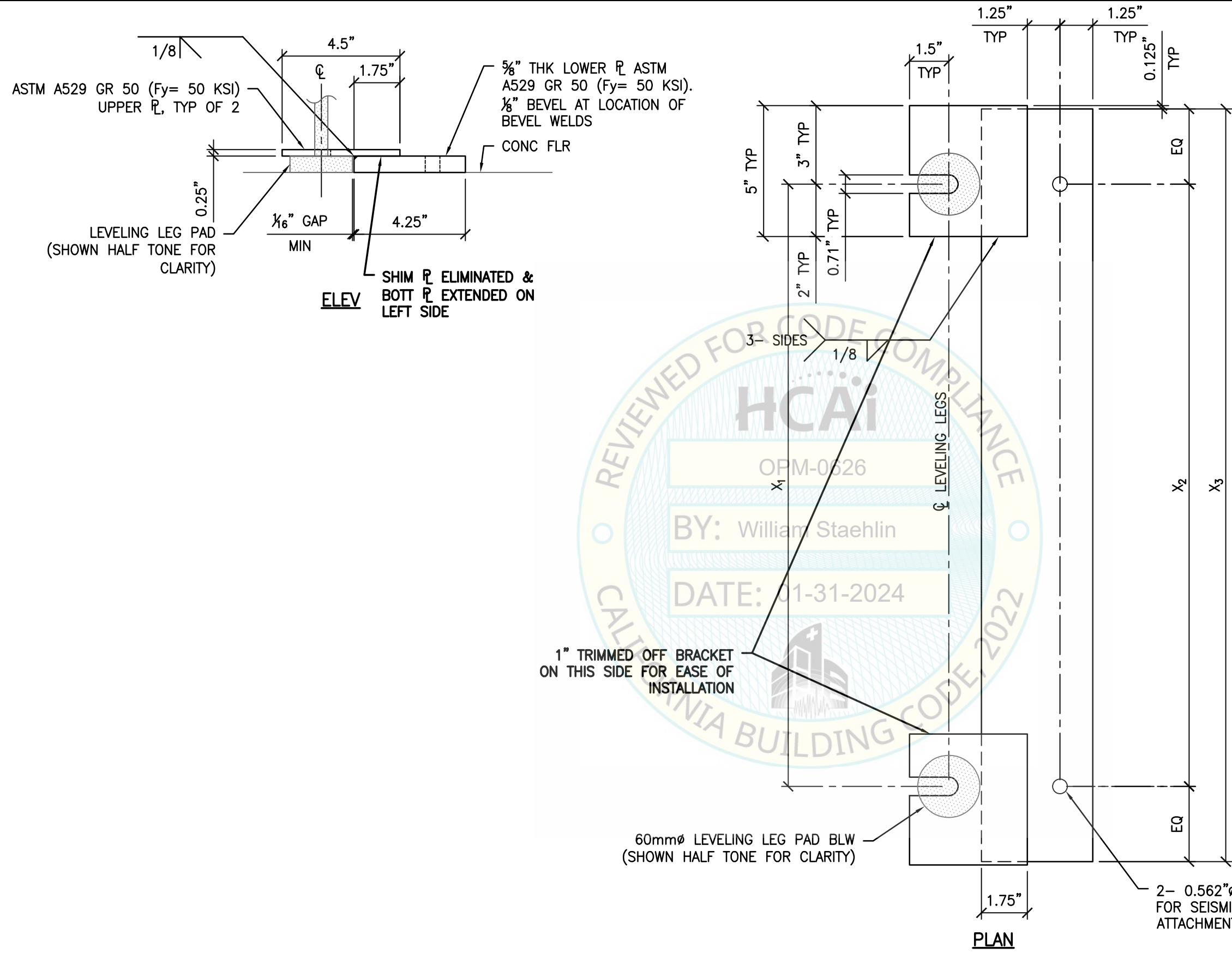
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	FOOT FRAME (40 BASIC)	FOOT FRAME (80 BASIC)
X ₁	22.83" (580)	22.83" (580)
X ₂	23"	23"
X ₃	29"	29"

NOTES:
 1. FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 401-403.
 2. GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SEISMIC BRACKET.



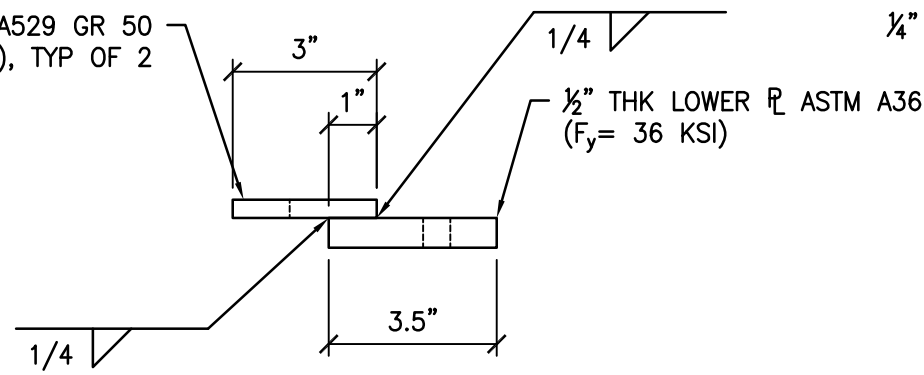
SHEET TITLE: SEISMIC BRACKET 1 DETAIL
 FOOT FRAME 40 BASIC & FOOT FRAME 80 BASIC

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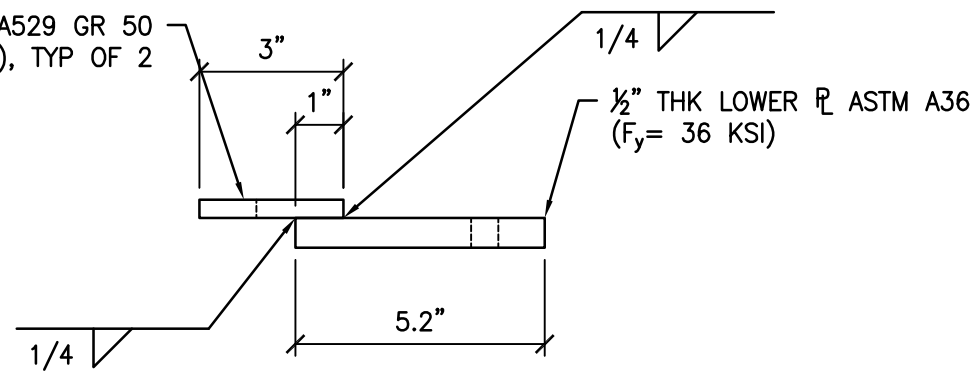
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1/4" UPPER PL, ASTM A529 GR 50
(Fy= 50 KSI), TYP OF 2

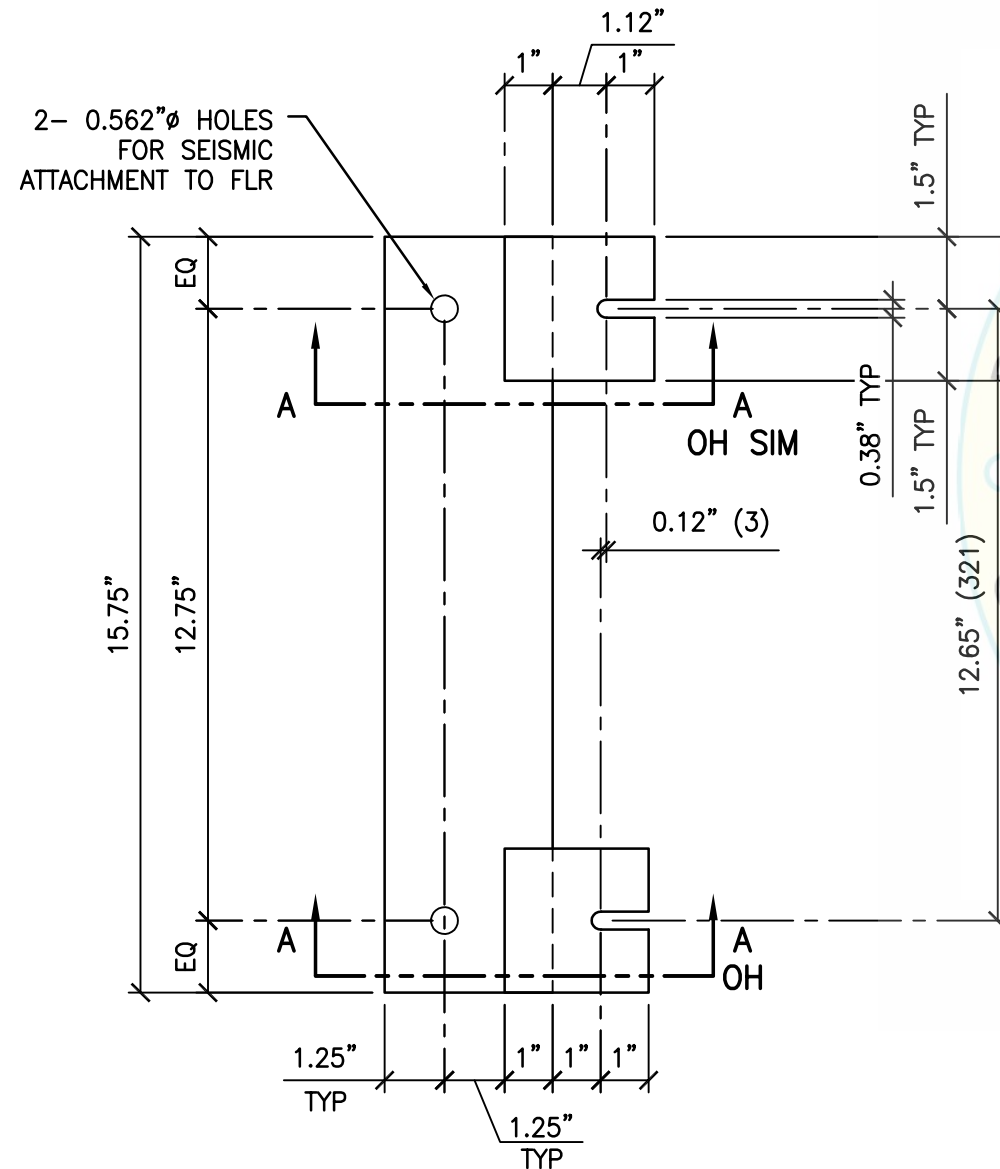


ELEV A-A

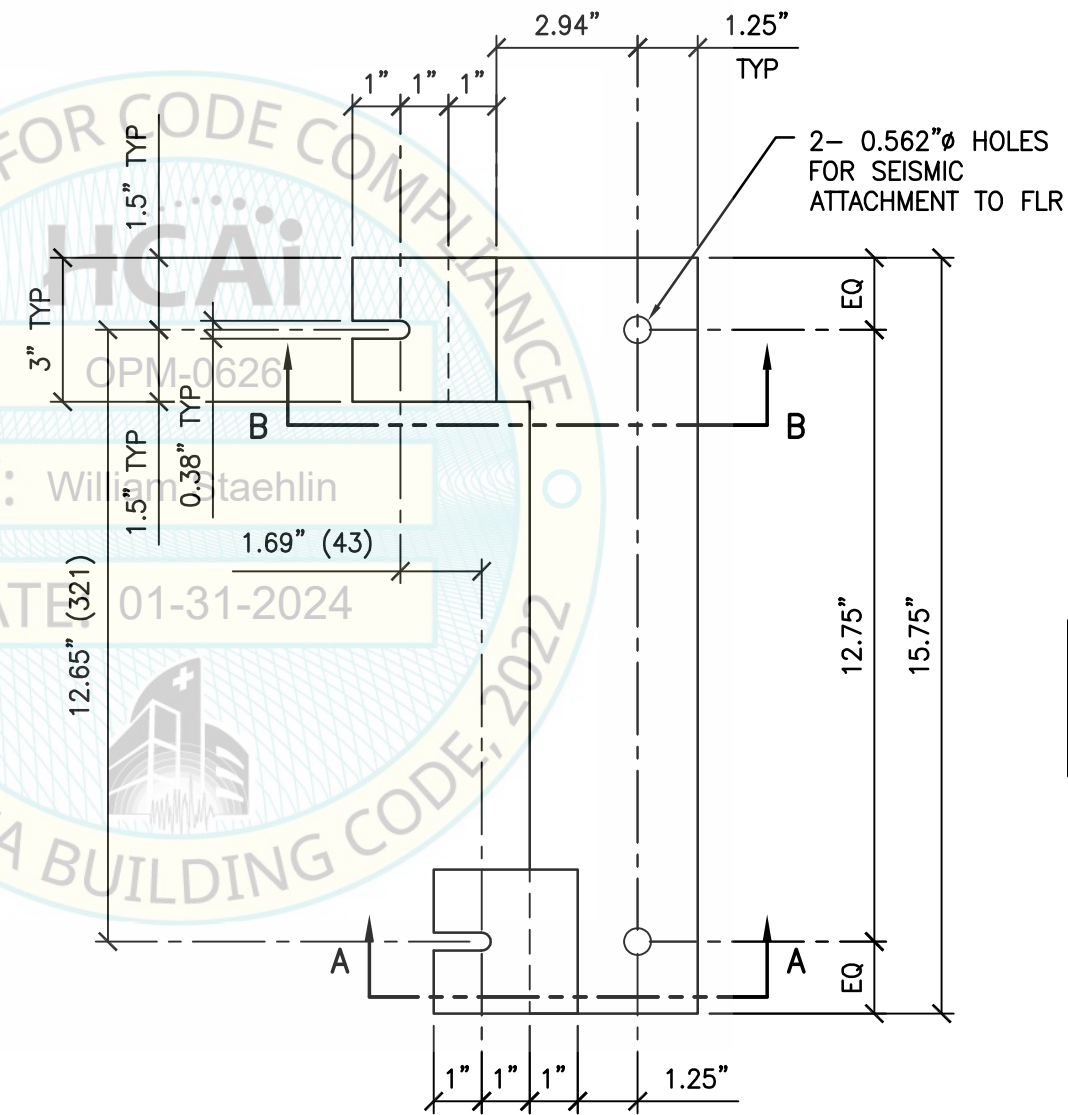
1/4" UPPER PL, ASTM A529 GR 50
(Fy= 50 KSI), TYP OF 2



ELEV B-B

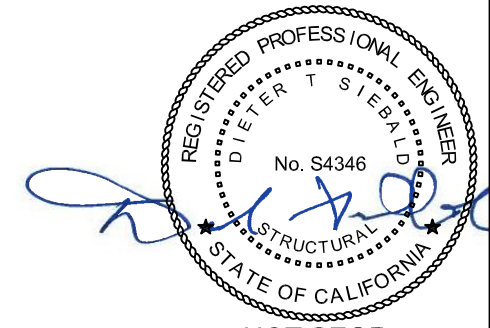


BRACKET 2L PLAN



BRACKET 2R PLAN

NOTES:
 1. FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 401-403.
 2. GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SEISMIC BRACKET.



NOT SEOR

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SHEET TITLE: SEISMIC BRACKET 2 DETAIL
1.32 RBI STAGO

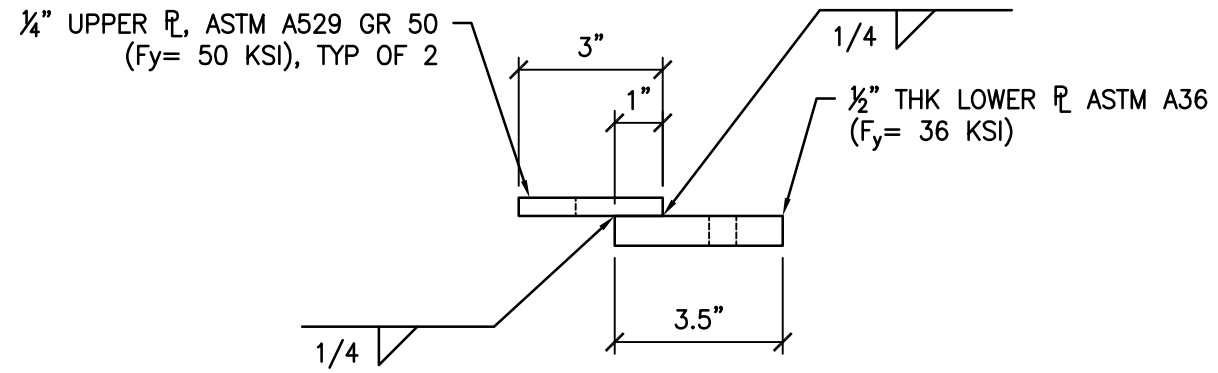


ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

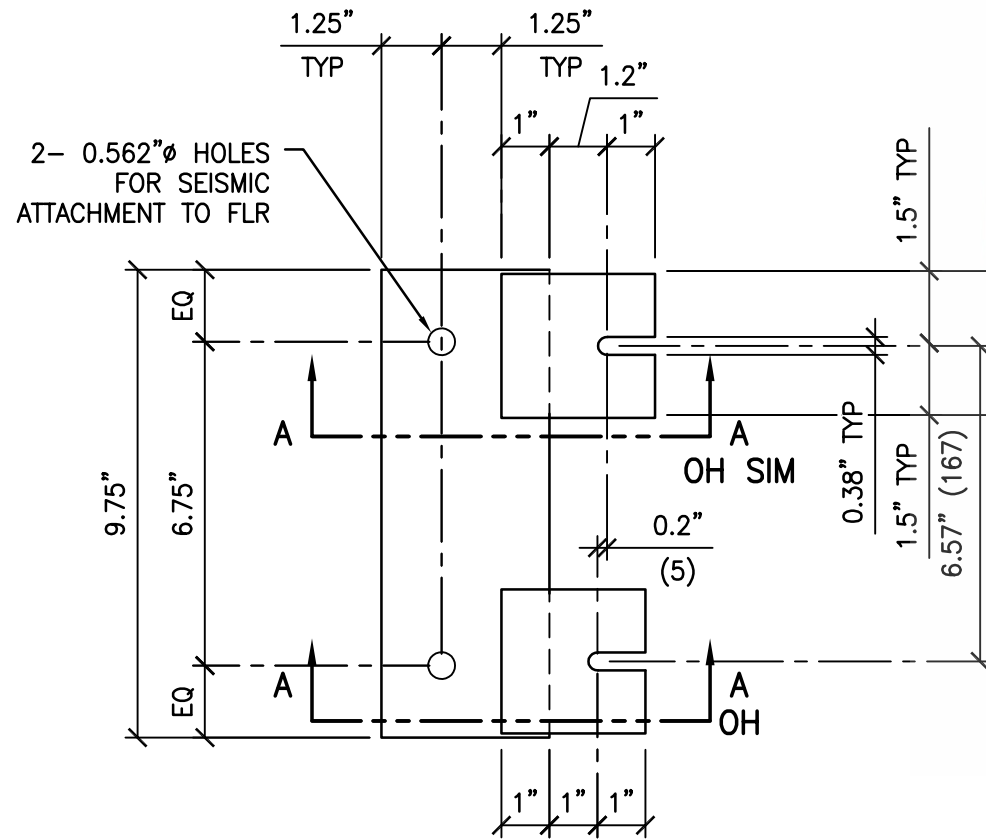


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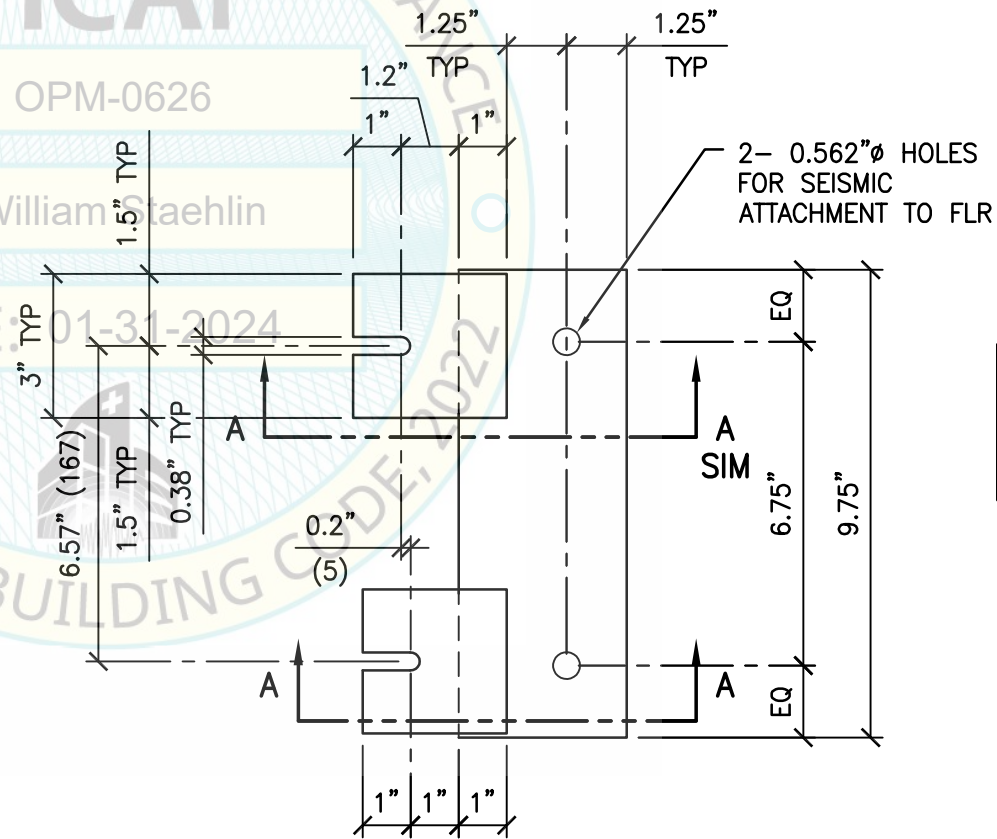
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			20097.02
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ELEV A-A

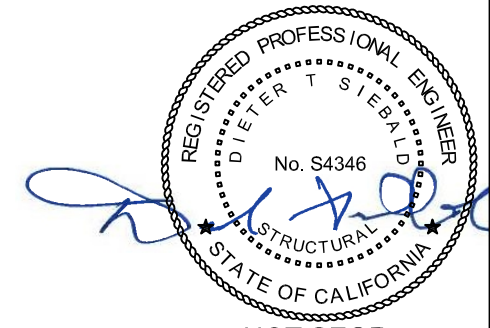


BRACKET 3L PLAN



BRACKET 3R PLAN

NOTES:
 1. FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 401-403.
 2. GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SEISMIC BRACKET.



NOT SEOR

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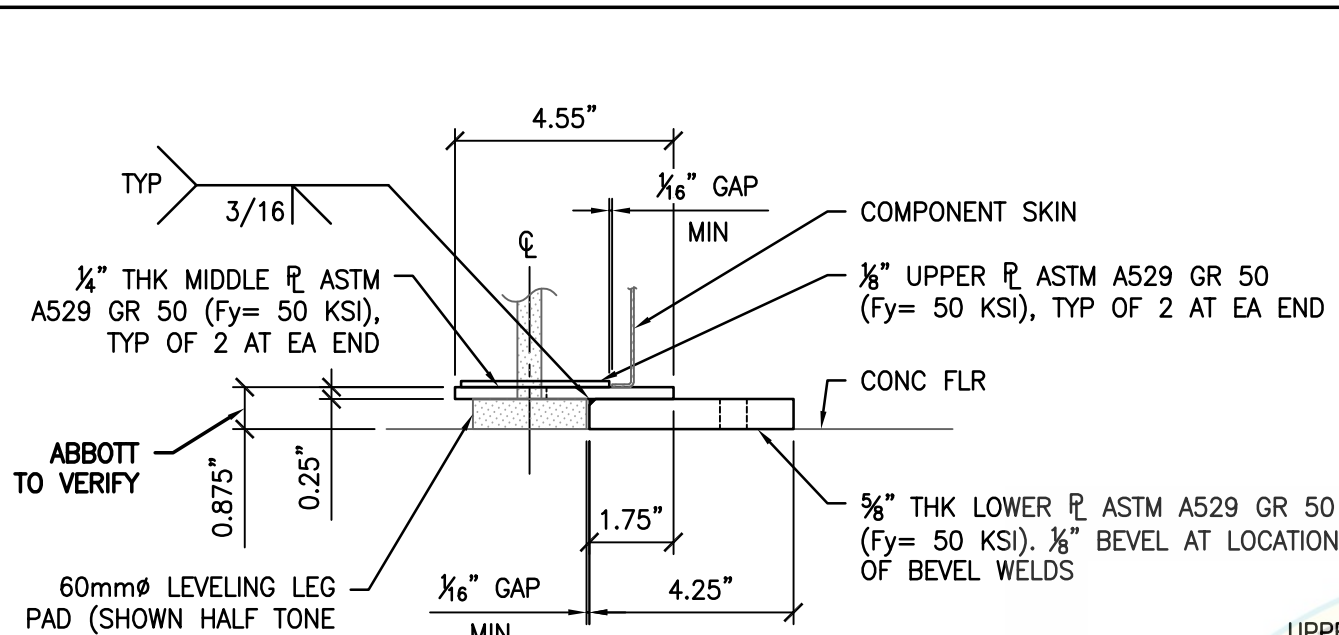
SHEET TITLE: SEISMIC BRACKET 3 DETAIL
 1.33 RBI PHADIA

Abbott ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS

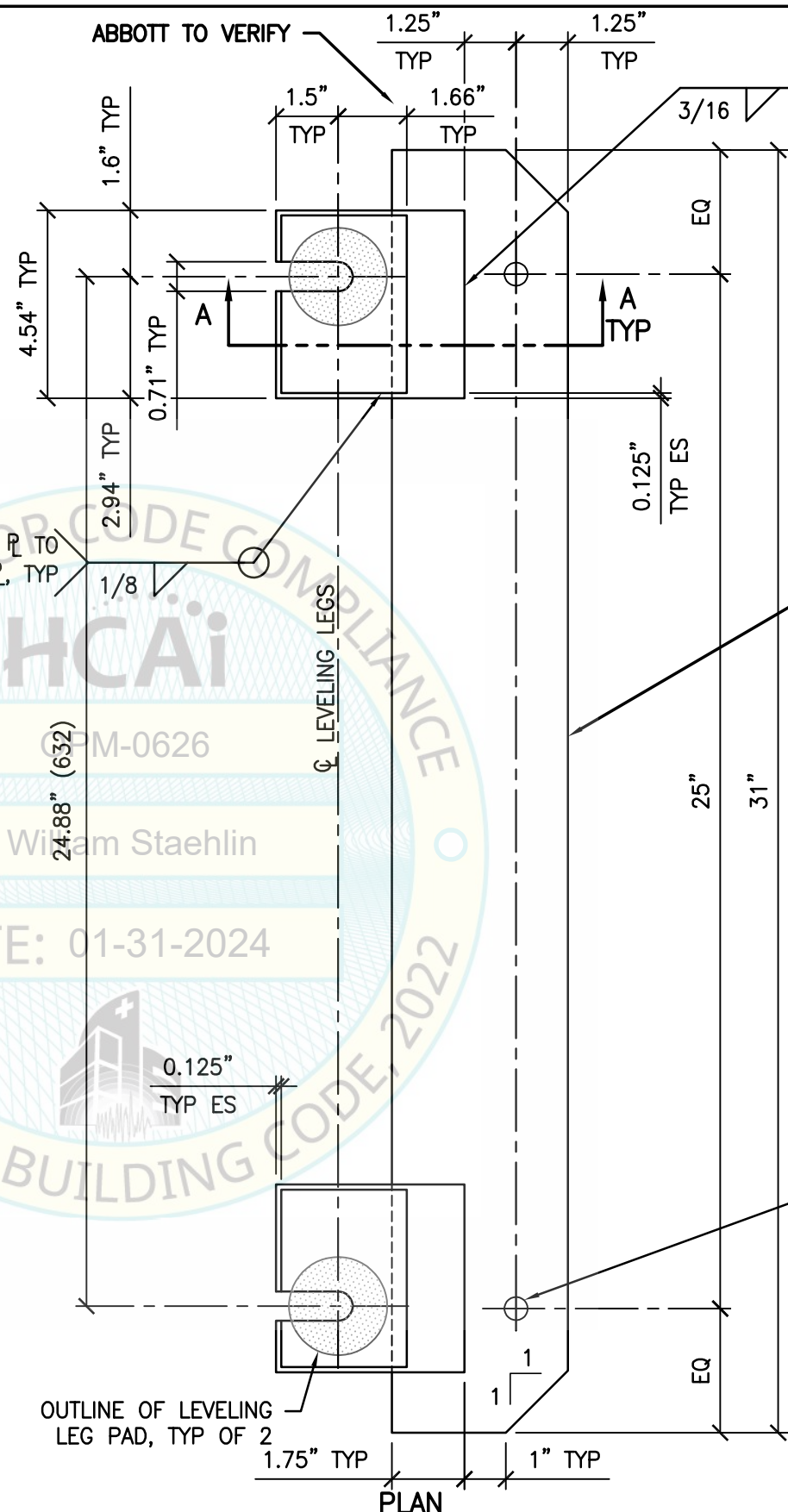
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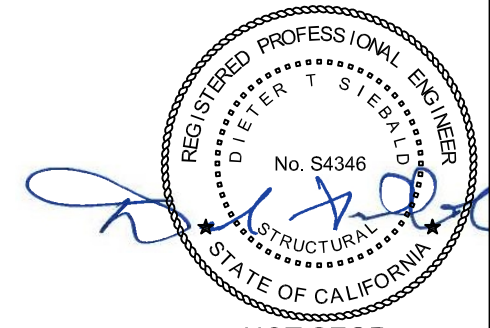


NOTE:
LEVELING LEGS MUST RAISE THE EQUIP IN ORDER TO CLEAR BRACKET DURING INSTALLATION



BRACKET UPDATED FOR FRONT & REAR FIT INSTEAD OF EQUIPMENT SIDES

NOTES:
1. FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 401-403.
2. GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SEISMIC BRACKET.



NOT SEOR

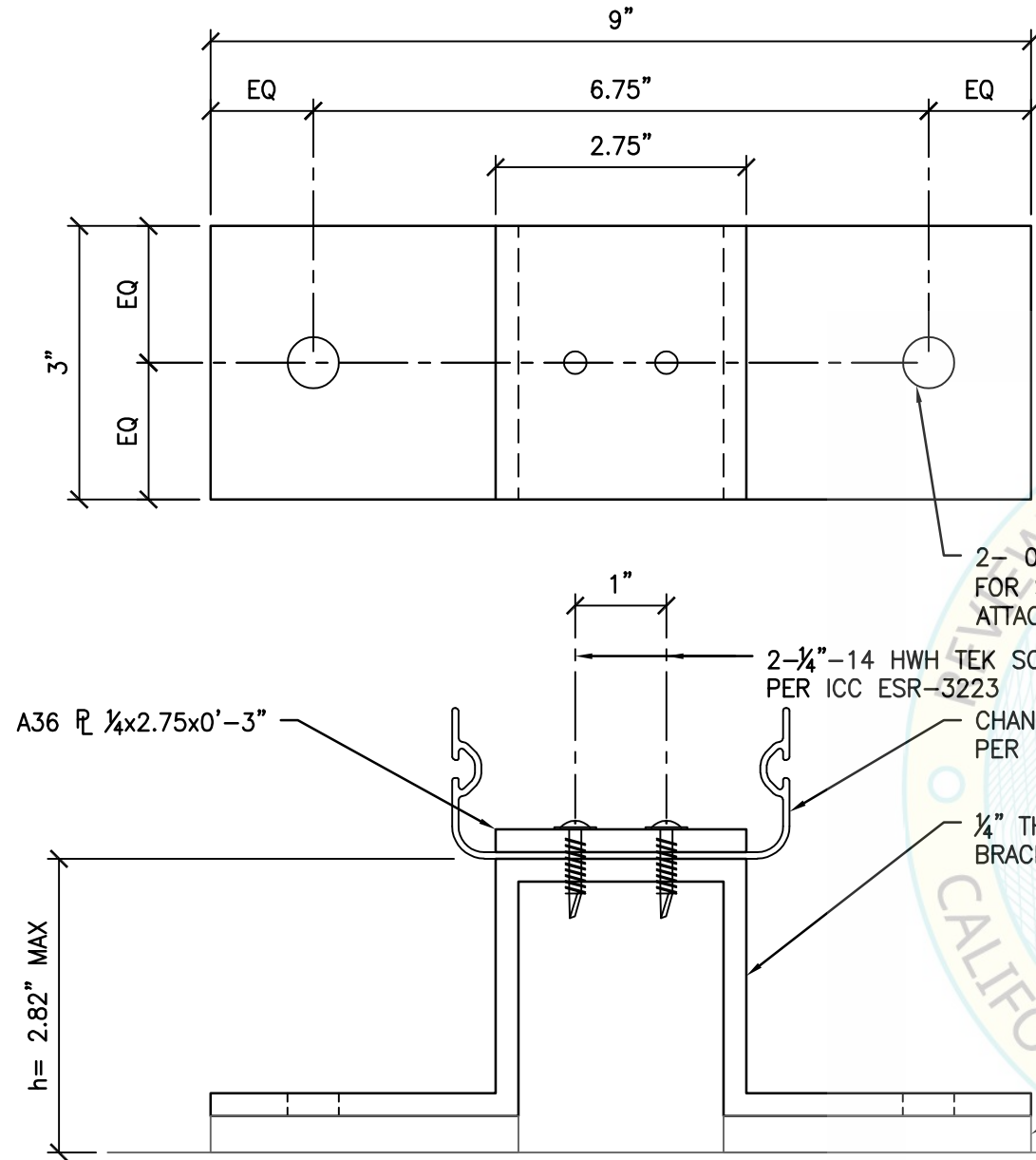
SHEET TITLE: SEISMIC BRACKET 4 DETAIL
CENTRIFUGE MODULE

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EQUIPMENT SUPPORT & ATTACHMENTS

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HAT BRACKET



2- 0.562"Ø HOLES FOR SEISMIC ATTACHMENT TO FLR

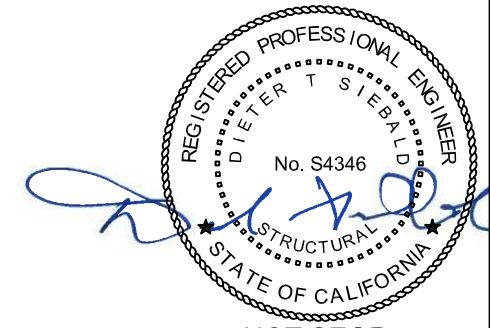
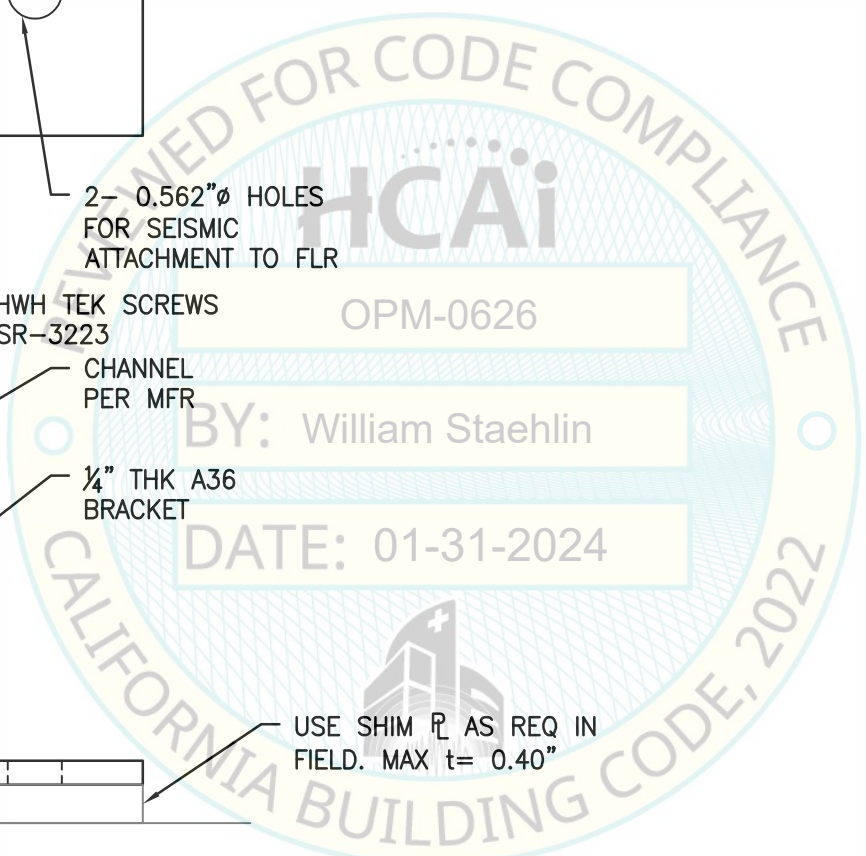
2- 1/4" - 14 HWH TEK SCREWS PER ICC ESR-3223

CHANNEL PER MFR

1/4" THK A36 BRACKET

USE SHIM PL AS REQ IN FIELD. MAX t= 0.40"

- NOTES:**
- FOR CASE 1 & CASE 2 ANCHORAGE TO FLR, SEE PGS 401, 402 & 404.
 - GENERAL CONTRACTOR SHALL PROVIDE & INSTALL SEISMIC BRACKET.



NOT SEOR

SHEET TITLE: TRACK BRACKET DETAIL
HAT BRACKET

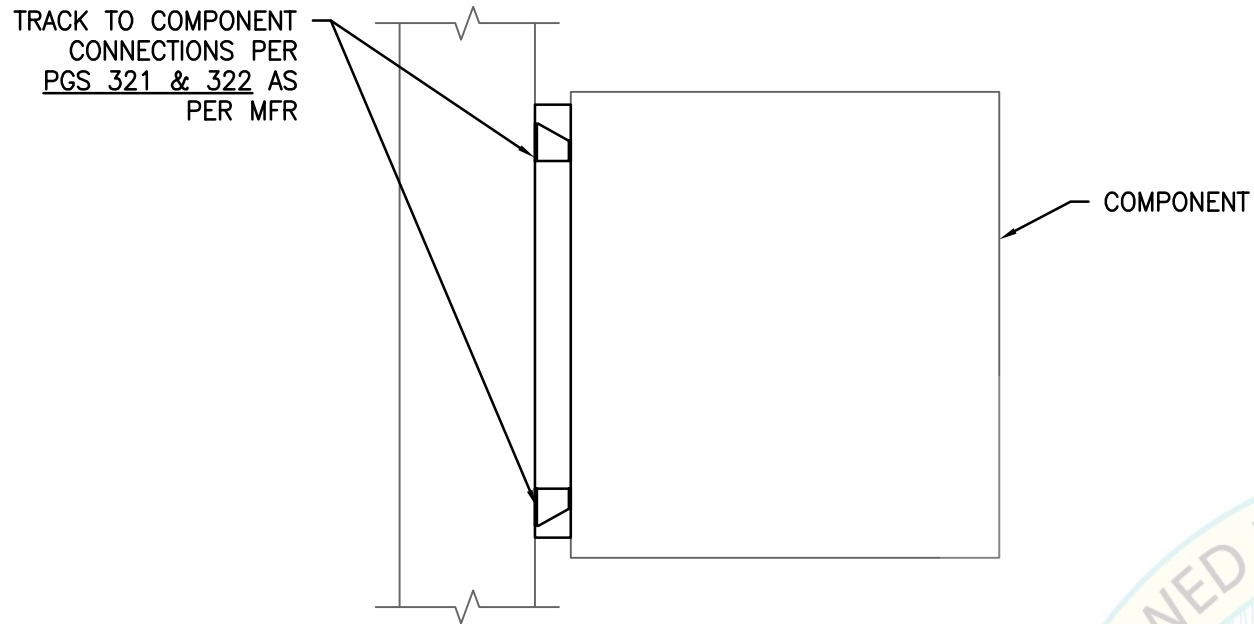
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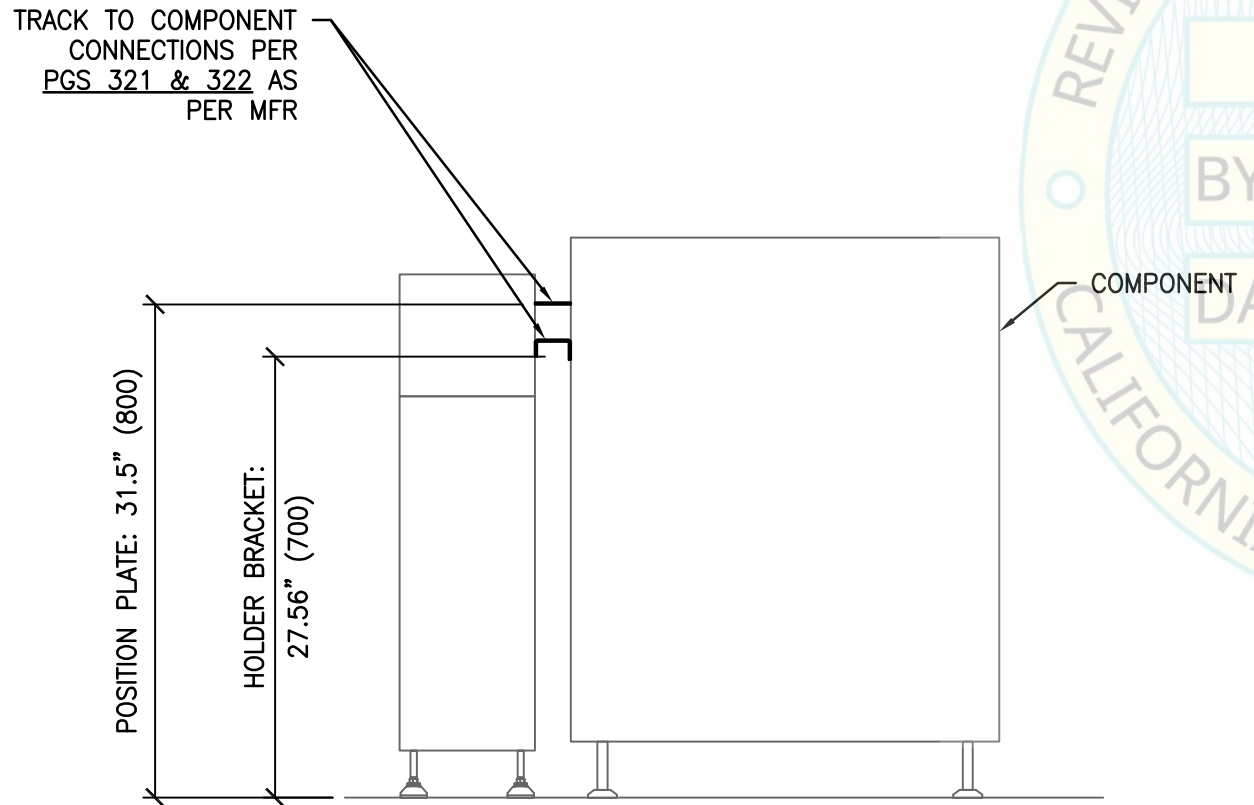
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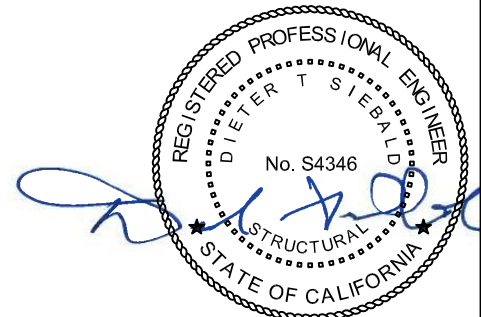
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PLAN VIEW



IN LINE ELEV



NOT SEOR

SHEET TITLE: TRACK TO COMPONENT CONNECTION



ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



CYS STRUCTURAL ENGINEERS, INC.

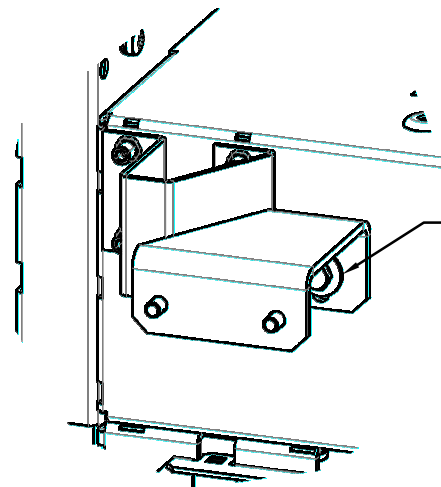
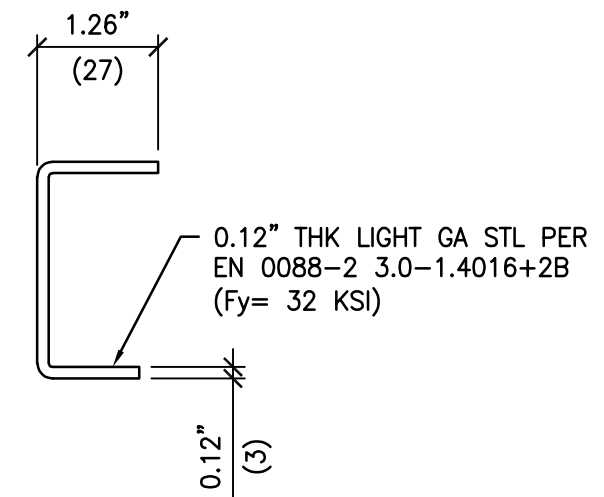
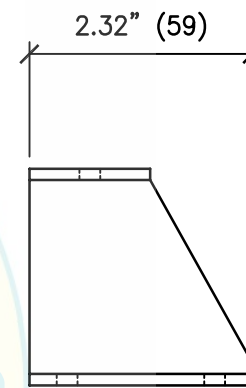
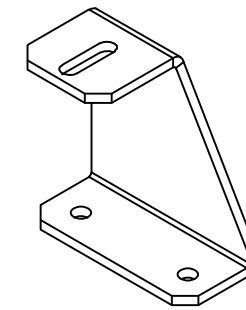
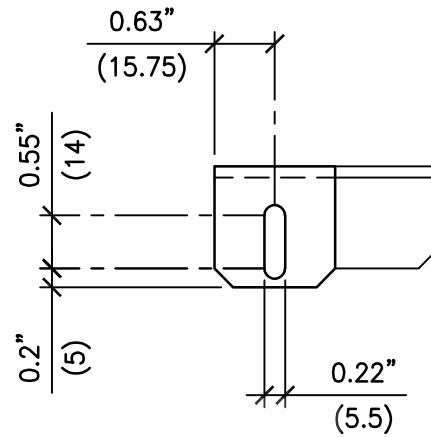
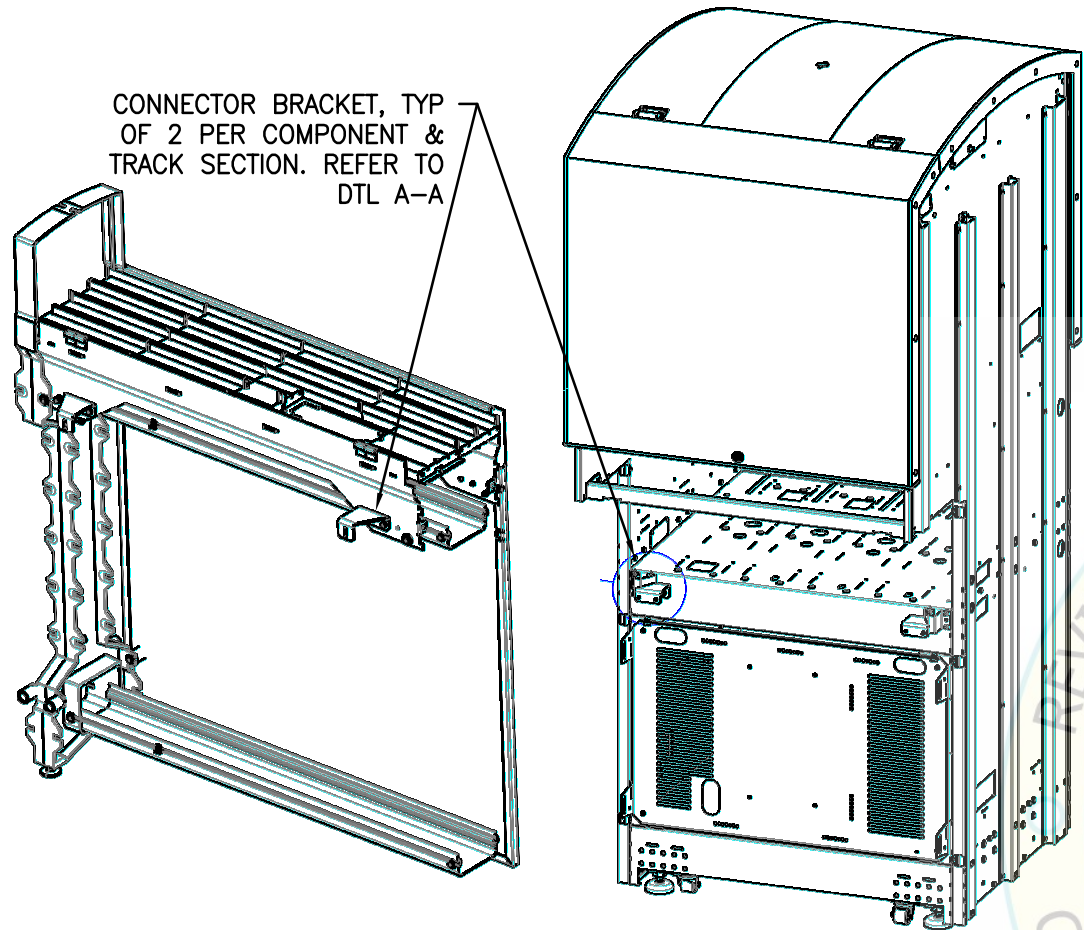
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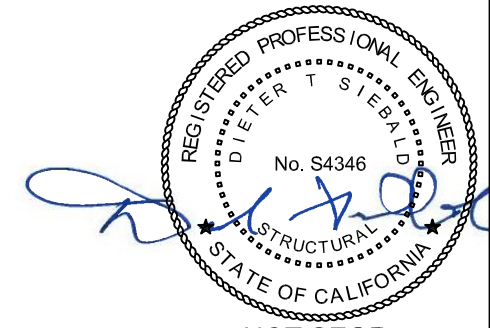
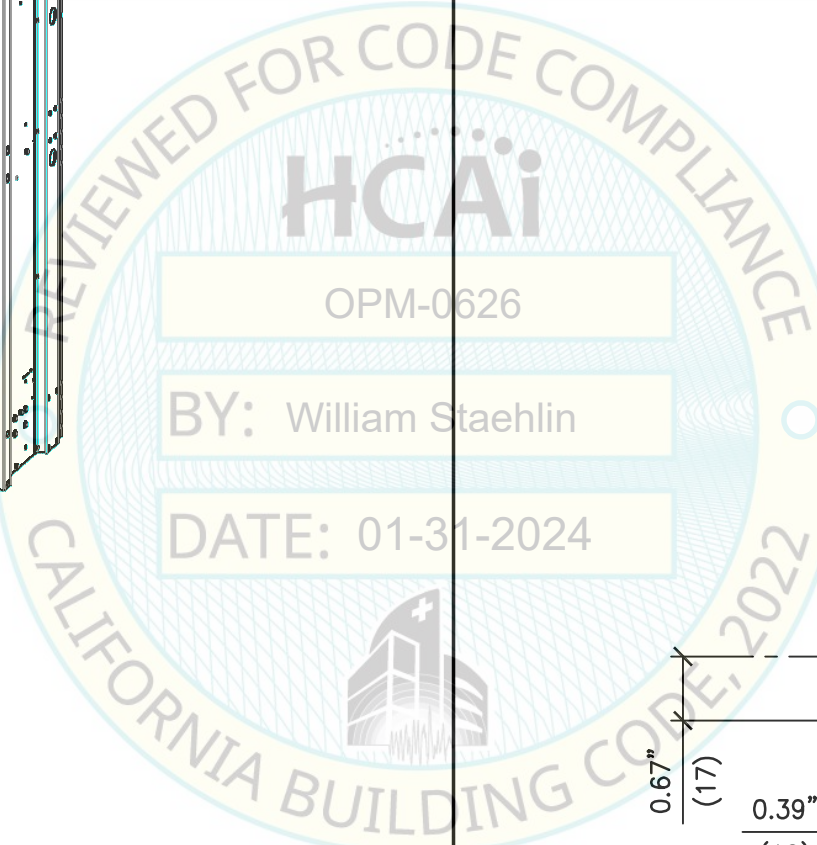
HOLDER BRACKET CONNECTION

HOLDER BRACKET DETAIL



M5x8 A2-70 DIN 933 BOLT (Fu= 100 KSI) TORQUE TO 7.4 FT-LBS, TYP

DETAIL A-A



NOT SEOR

SHEET TITLE: TRACK TO COMPONENT CONNECTION
HOLDER BRACKET

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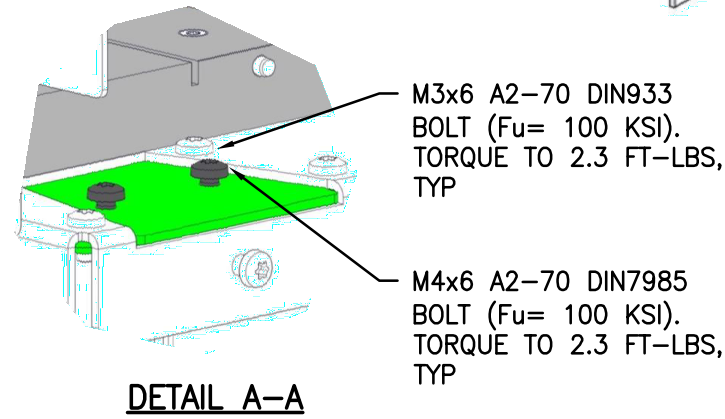
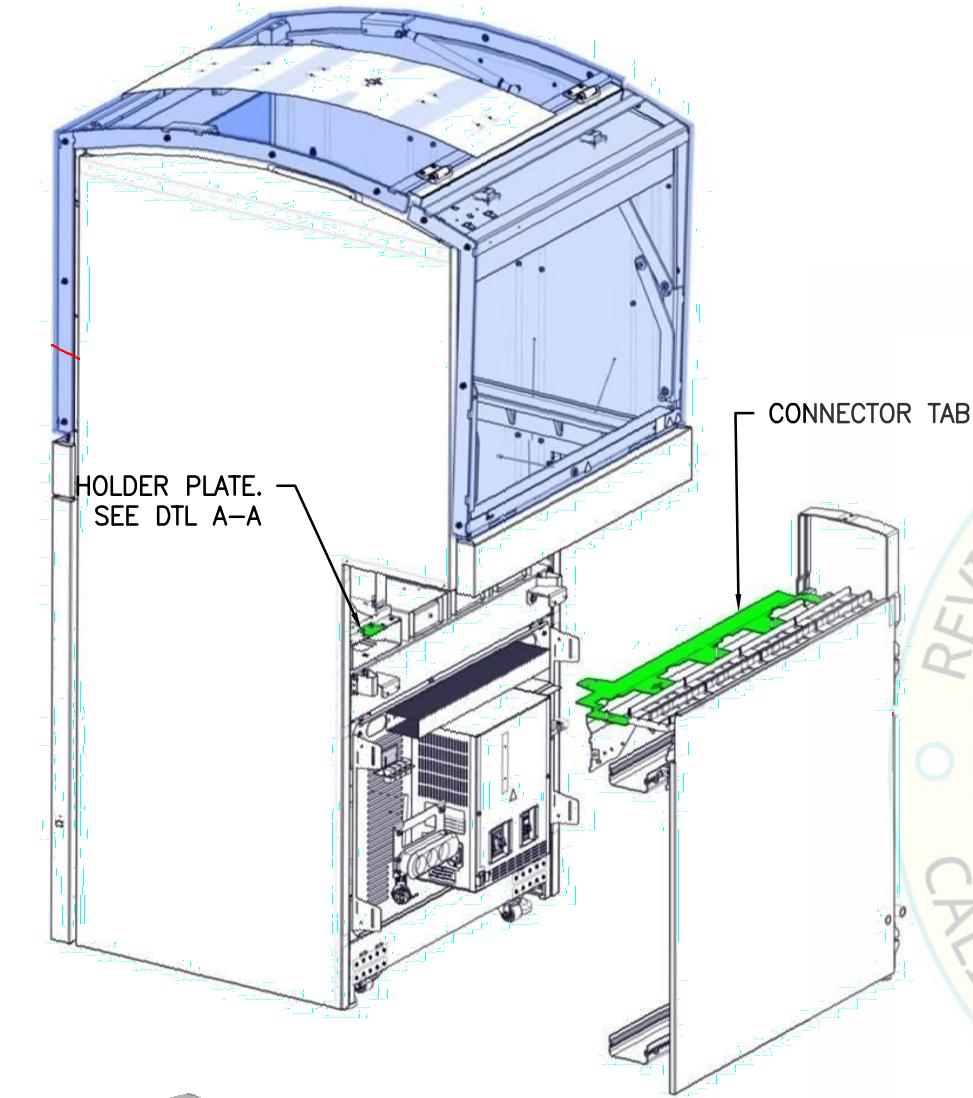
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS



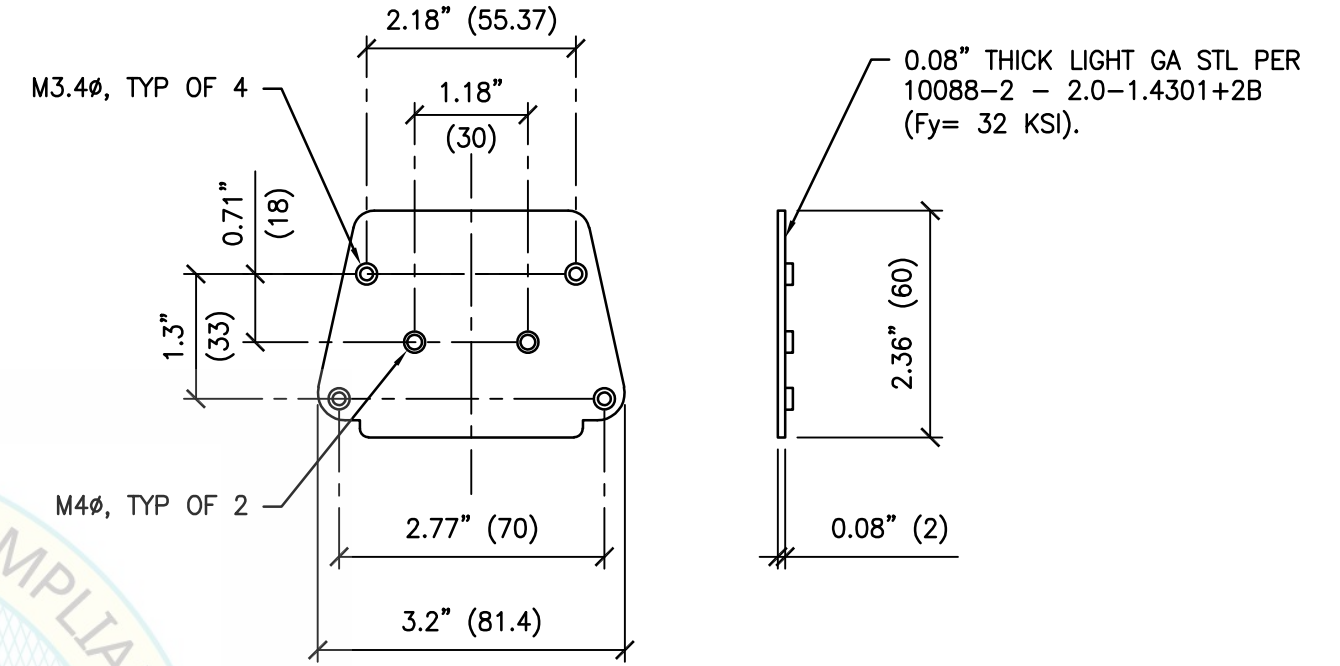
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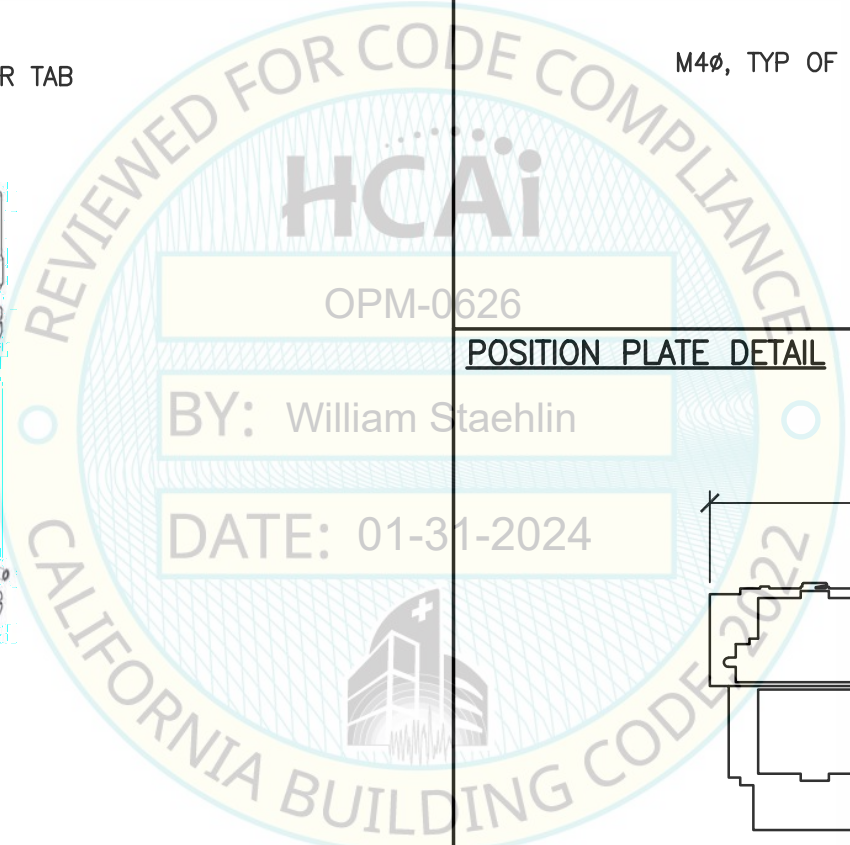
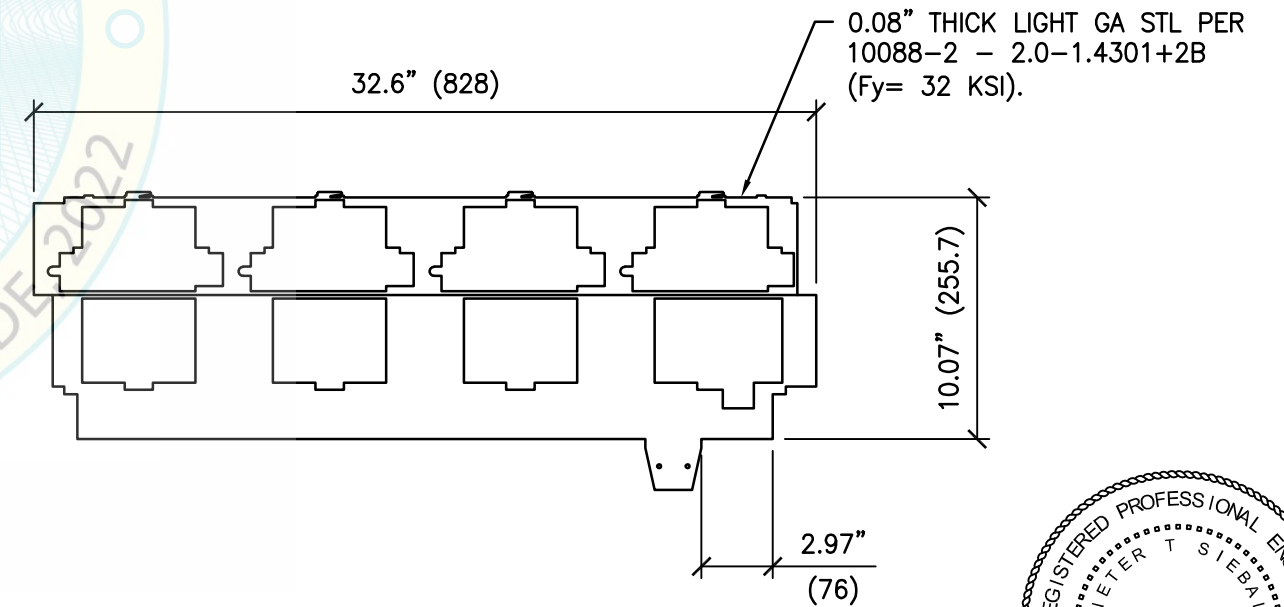
POSITION PLATE CONNECTION



HOLDER PLATE DETAIL



POSITION PLATE DETAIL



SHEET TITLE: TRACK TO COMPONENT CONNECTION
POSITION PLATE

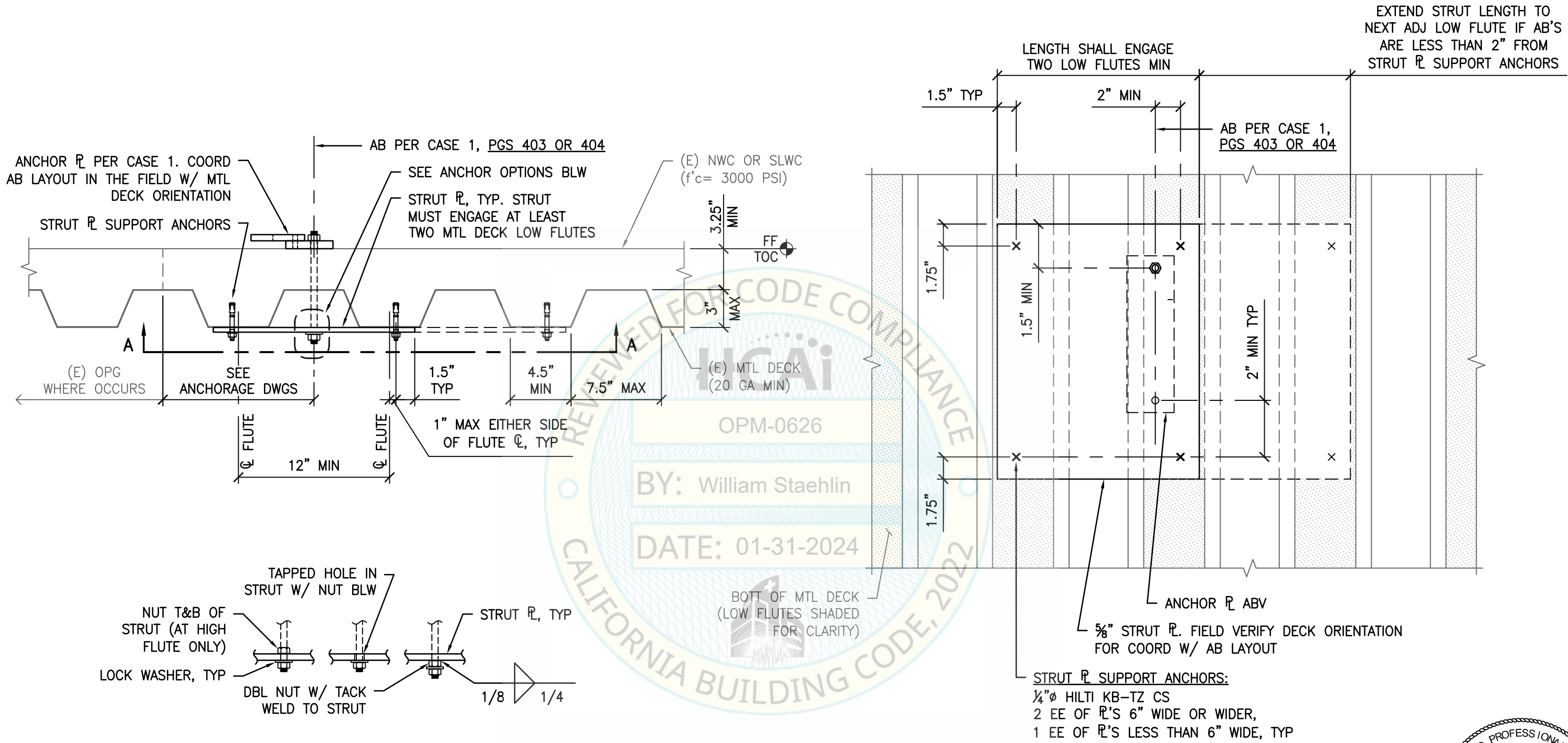
Abbott ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS

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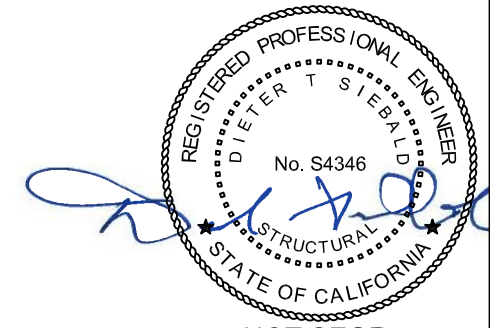
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ANCHOR OPTIONS

SECTION A-A



NOT SEOR

SHEET TITLE: TYPICAL STRUT DETAILS

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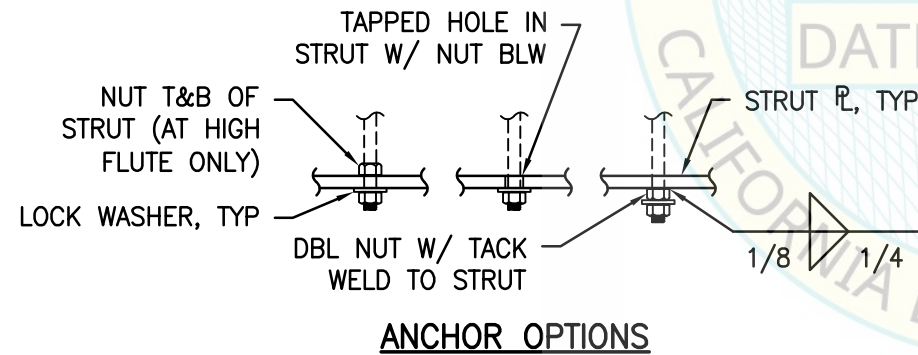
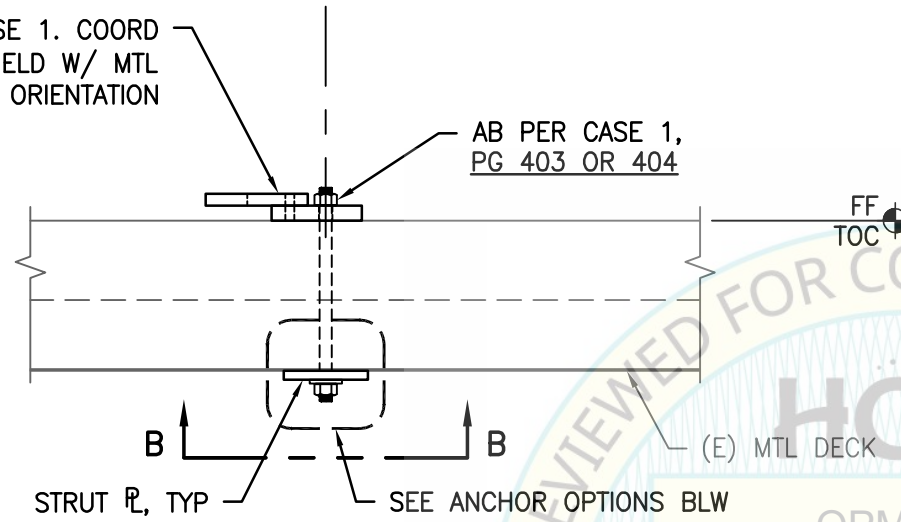
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



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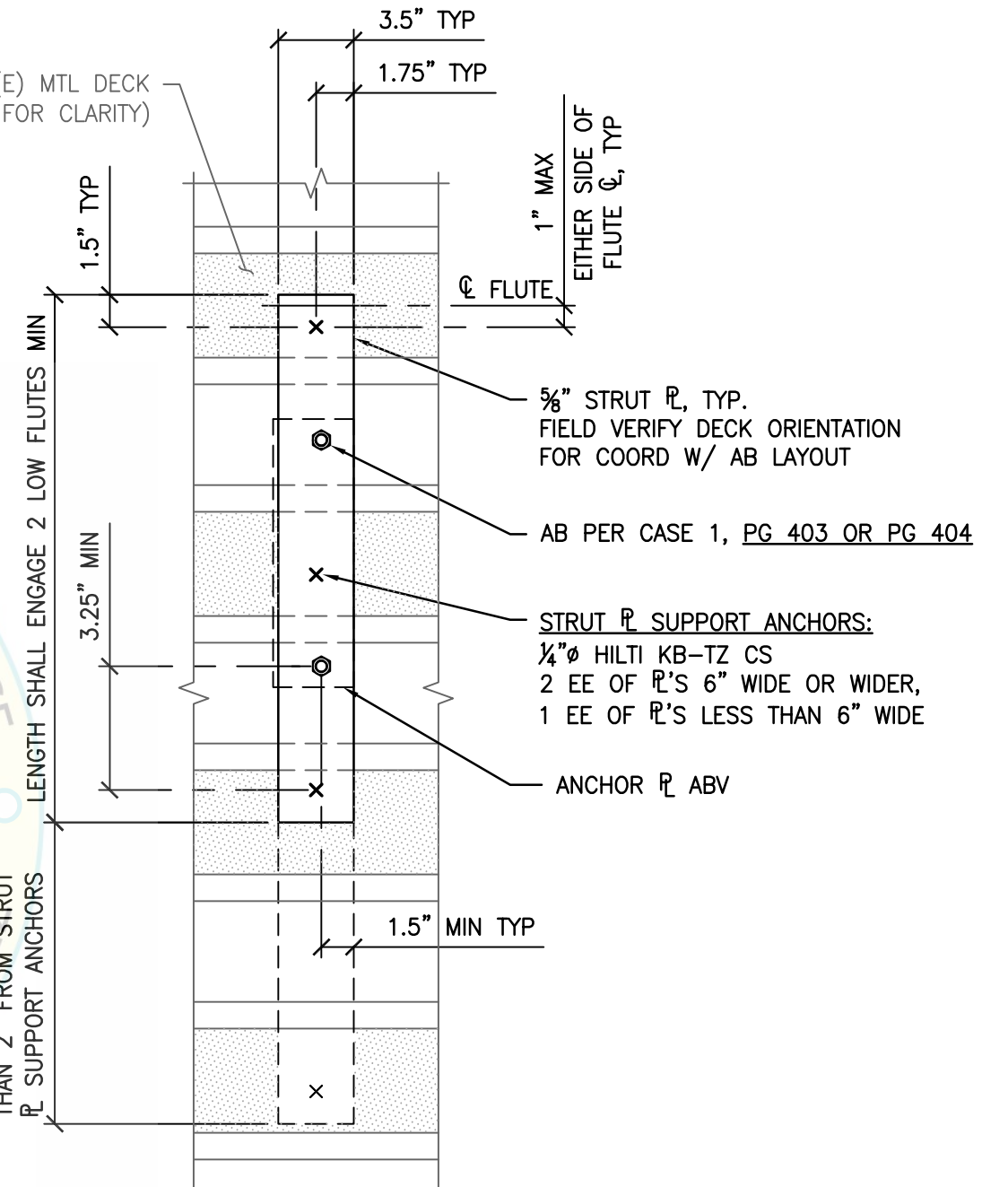
ANCHOR \bar{r} PER CASE 1. COORD
AB LAYOUT IN THE FIELD W/ MTL
DECK ORIENTATION



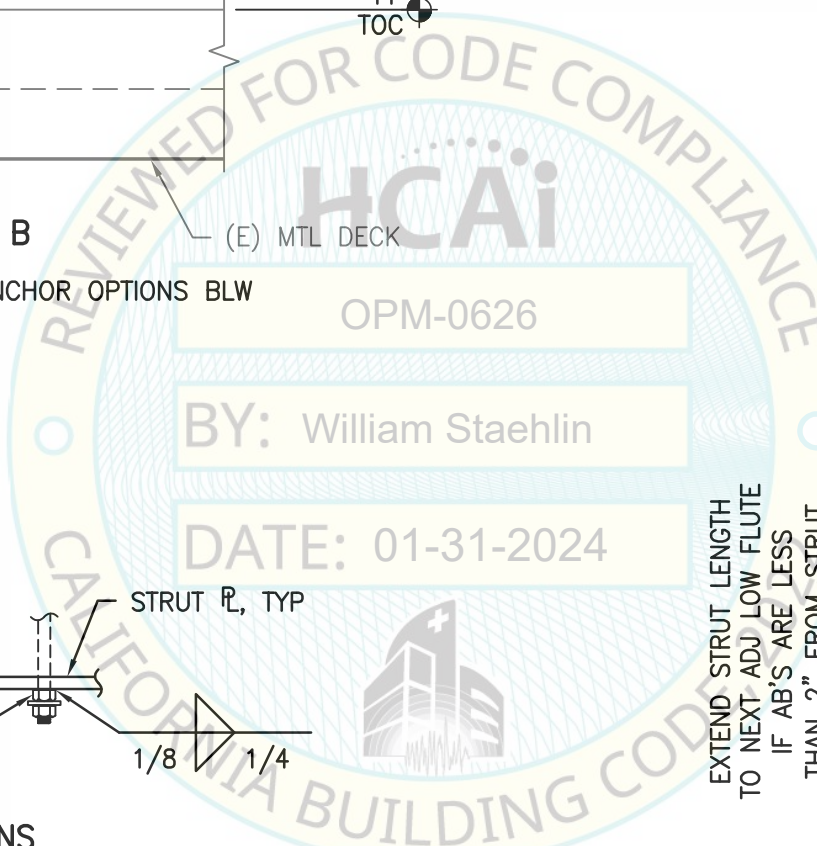
ANCHOR OPTIONS

BOTT OF (E) MTL DECK
(LOW FLUTES SHADED FOR CLARITY)

EXTEND STRUT LENGTH
TO NEXT ADJ LOW FLUTE
IF AB'S ARE LESS
THAN 2" FROM STRUT
 \bar{r} SUPPORT ANCHORS



SECTION B-B



SHEET TITLE: TYPICAL STRUT DETAILS

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			By: CYS
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ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
EQUIPMENT SUPPORT & ATTACHMENTS



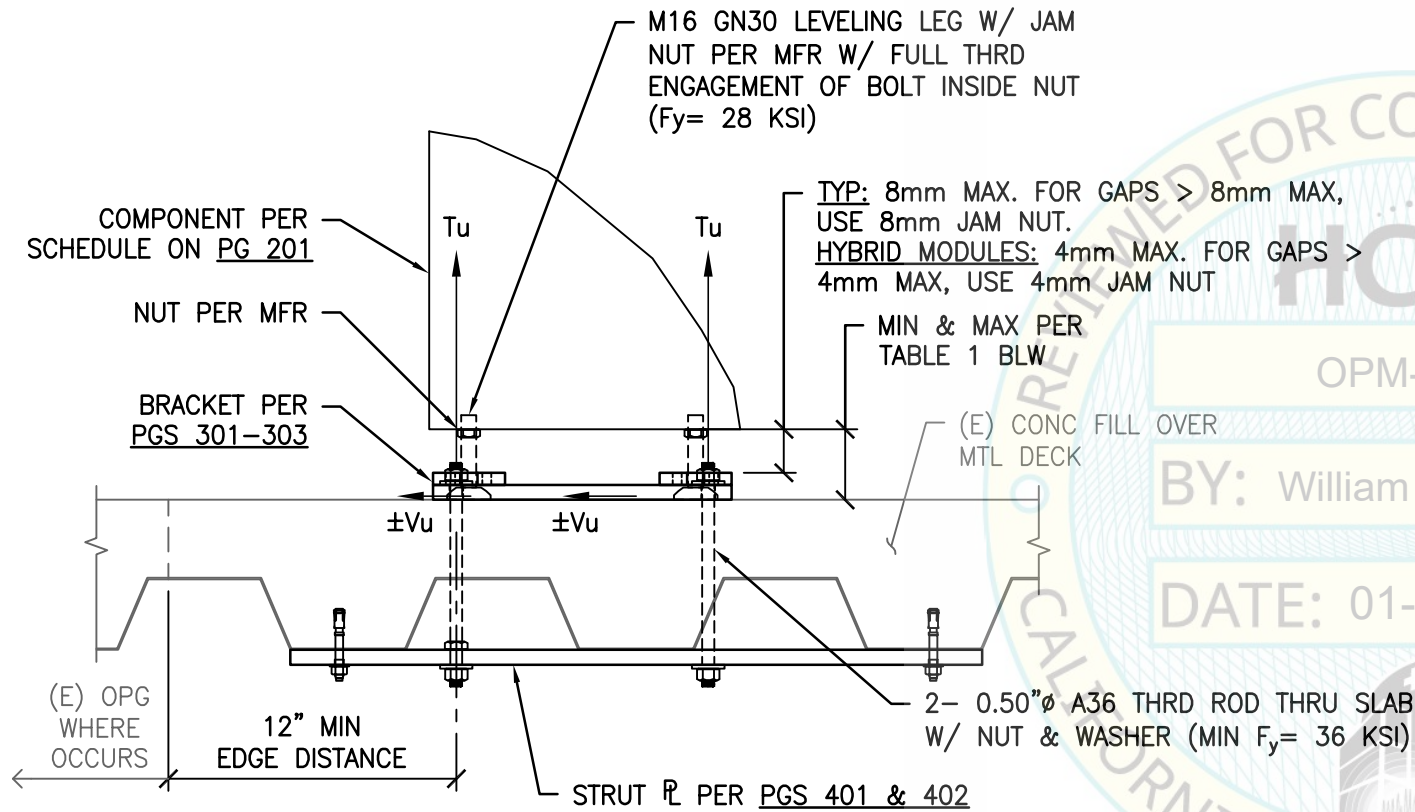
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CASE 1 z/h ≤ 0.9	MAX ANCHOR FORCES AT LRFD AT EA AB ⁽¹⁾	
	Tu	Vu
	2474#	655#

OVERSTRENGTH FACTOR (Ω_b) DOES NOT APPLY TO T_u VALUE FOR THRU BOLTS BUT MUST BE APPLIED TO V_u FOR ANCHORAGE TO CONC.
⁽¹⁾VALUES ARE NON-CONCURRENT. FOR A BREAKDOWN, REFER TO INDIVIDUAL COMPONENTS.

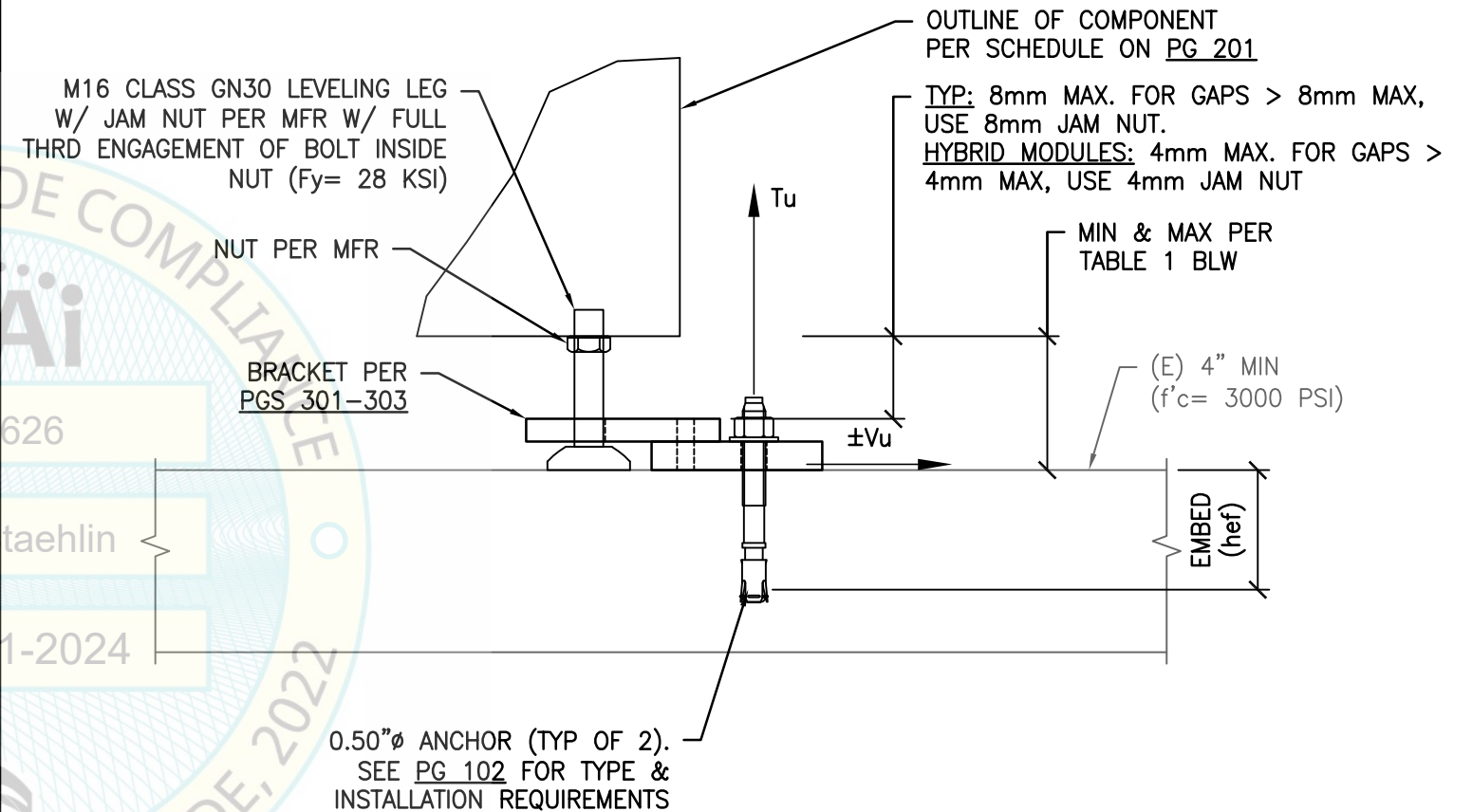
CASE 2 z/h = 0	MAX ANCHOR FORCES AT LRFD AT EA AB ⁽¹⁾	
	Tu	Vu
	1468#	395#

INCLUDES OVERSTRENGTH FACTOR (Ω_b)
⁽¹⁾VALUES ARE NON-CONCURRENT. FOR A BREAKDOWN, REFER TO INDIVIDUAL COMPONENTS.



CASE 1 - SUSPENDED FLR W/ THRU-BOLTS

TABLE 1	MIN	MAX
CENTRIFUGE MODULE	1.11" (28.2)	1.50" (38.2)
FOOT FRAME 40 BASIC	1.42" (36)	1.81" (46)
FOOT FRAME 80 BASIC	1.42" (36)	1.81" (46)
HYBRID (1.32 & 1.33)	0.59" (15)	0.91" (23)



**CASE 2 - SOG
(SLAB AT OR BLW GRADE)**

TABLE 1	MIN	MAX
CENTRIFUGE MODULE	1.11" (28.2)	1.50" (38.2)
FOOT FRAME 40 BASIC	1.42" (36)	1.81" (46)
FOOT FRAME 80 BASIC	1.42" (36)	1.81" (46)
HYBRID (1.32 & 1.33)	0.59" (15)	0.91" (23)



NOT SEOR

SHEET TITLE: FLOOR SUPPORTED MODULES & ANALYZER INTERFACES
 SUPPORT & ATTACHMENT DETAILS

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ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK
 EQUIPMENT SUPPORT & ATTACHMENTS



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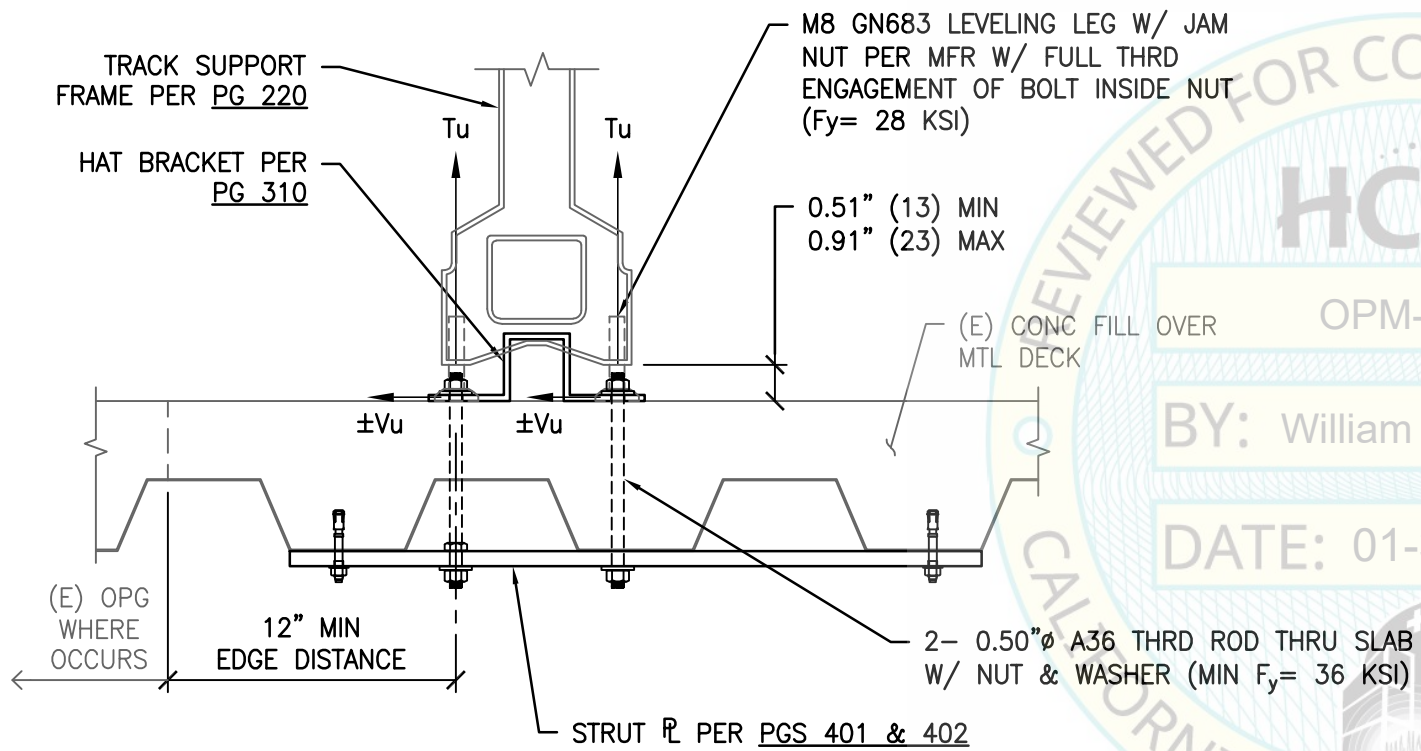
TEL (916) 920-2020
 www.cyseng.com

CASE 1 z/h ≤ 1.0	MAX ANCHOR FORCES AT LRFD AT EA AB ⁽¹⁾	
	Tu	Vu
	778#	129#

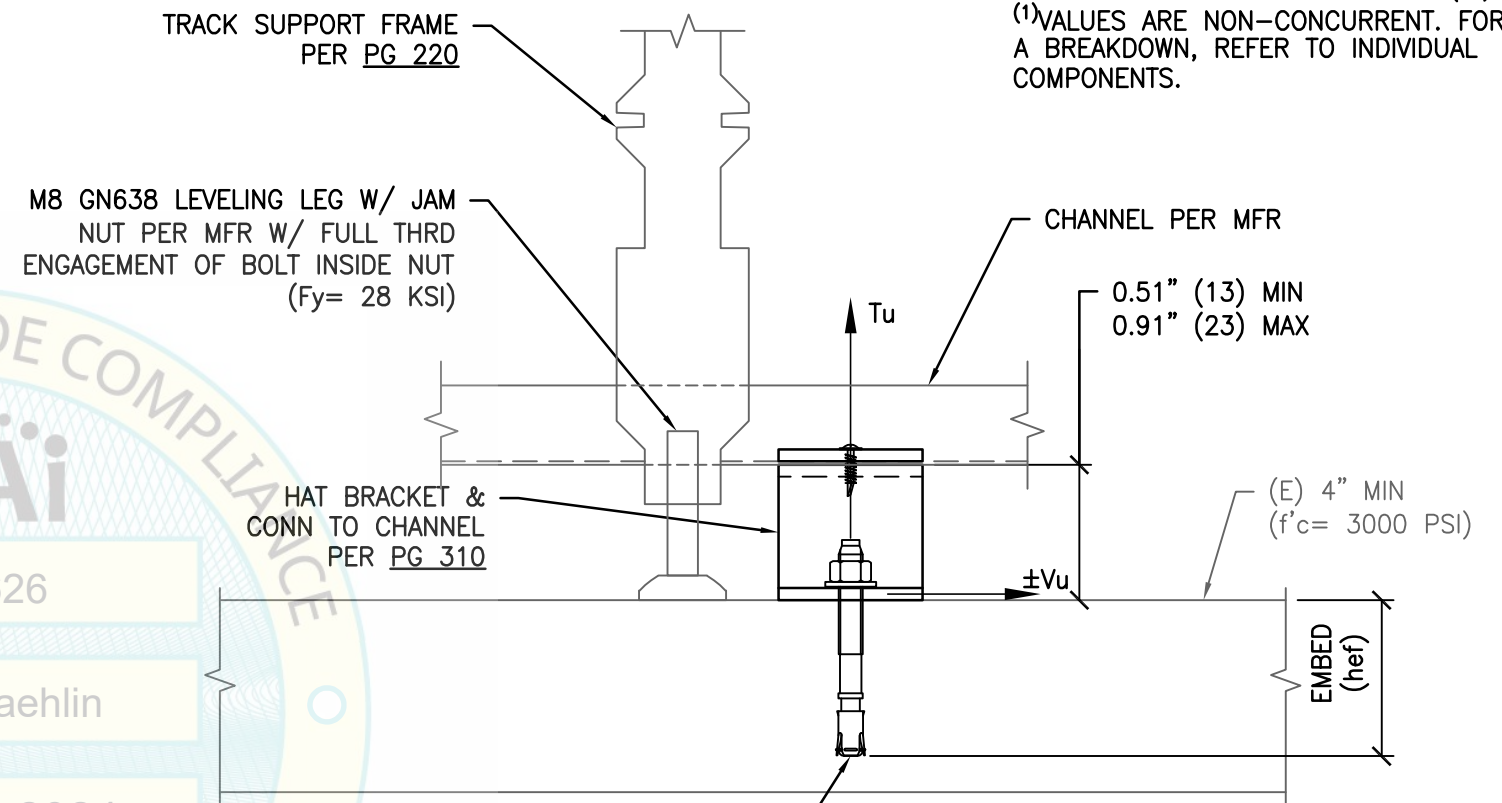
OVERSTRENGTH FACTOR (Ω_b) DOES NOT APPLY TO T_u VALUE FOR THRU BOLTS BUT MUST BE APPLIED TO V_u FOR ANCHORAGE TO CONC.
⁽¹⁾VALUES ARE NON-CONCURRENT. FOR A BREAKDOWN, REFER TO INDIVIDUAL COMPONENTS.

CASE 2 z/h = 0	MAX ANCHOR FORCES AT LRFD AT EA AB ⁽¹⁾	
	Tu	Vu
	433#	73#

INCLUDES OVERSTRENGTH FACTOR (Ω_b)
⁽¹⁾VALUES ARE NON-CONCURRENT. FOR A BREAKDOWN, REFER TO INDIVIDUAL COMPONENTS.

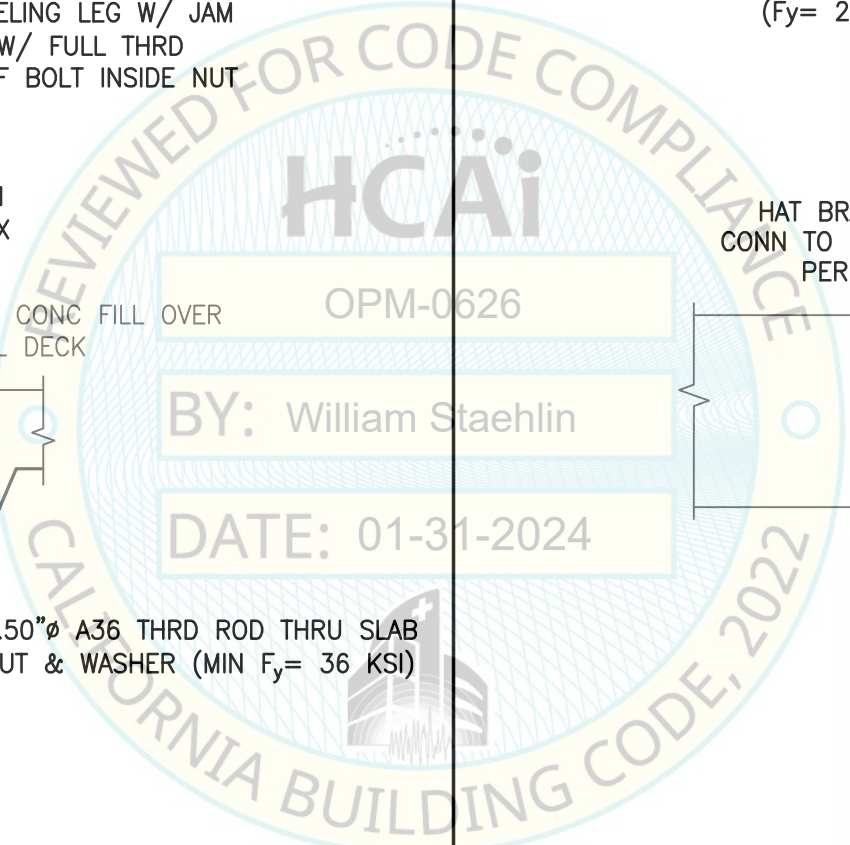


CASE 1 – SUSPENDED FLR W/ THRU-BOLTS



0.50"Ø ANCHOR (TYP OF 2).
 SEE PG 102 FOR TYPE &
 INSTALLATION REQUIREMENTS

CASE 2 – SOG
 (SLAB AT OR BLW GRADE)



NOT SEOR

SHEET TITLE: TRACKS SUPPORT & ATTACHMENT DETAILS	Rev	Description	Date	Job No: 20097.02
				Date: 10/03/2023
ABBOTT AUTOMATION SOLUTIONS - GLP SYSTEMS TRACK EQUIPMENT SUPPORT & ATTACHMENTS	CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N TEL (916) 920-2020 SACRAMENTO, CA 95833 www.cyseng.com			By: CYS
				Page: 404