

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0602

OSHPD Preapproval of Manufacturer's Certification (OPM
--

Type: X New Renewal/Update

Manufacturer Information

Manufacturer: BD Kiestra BV

Manufacturer's Technical Representative: RICHARD O'CONNOR

Mailing Address: Marconilann 6, 9207 JC, Drachten, Friesland, Netherlands

Telephone: +353 61 538 613

Email:Richard.OConnor@bd.com

Product Information

Product Name: BD KIESTRA TRACK

Product Type: Track System for Analyzers

Product Model Number: Various

 Various
 BY: William Staehling

 General Description:
 TRANSPORTS SAMPLES ALONG A TRACK SYSTEM

Applicant Information

Applicant Company Name: CYS Structural Engineers, Inc.			
Contact Person:	Dieter Siebald	BUILDING	
Mailing Address:	2/05 Natomas Park [Drive Suite 650 Secremente CA 95833	

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

Telephone: (916) 920-2020	Email: dieters@cyseng.com	
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Title: Structural Project Manager

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OSHP



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations			
Company Name: CYS STRUCTURAL ENGINEERS,	NC.		
Name: Dieter Siebald	California License Number: S4346		
Mailing Address: 2495 Natomas Park Drive, Suite 65), Sacramento, CA 95833		
Telephone: (916) 920-2020 Er	nail: dieters@cyseng.com		
OSHPD Special Seismic Certification Preappr	oval (OSP)		
Special Seismic Certification is preapproved under	r OSP OSP Number:		
	OB CODE		
Certification Method	COL		
Testing in accordance with: ICC-ES AC156	FM 1950-16		
Other(s) (Please Specify):			
	rnia Building Standards Code, 2019 (CBSC 2019) for component supports		
	stem, interior partition wall, and suspended ceiling seismic bracings, test ay be used when approved by OSHPD prior to testing.		
X Analysis	William Staenlin O		
	E:06/05/2021		
Combination of Testing, Analysis, and/or Experie	nce Data (Please Specify):		
The second			
A TWY	CODI		
OSHPD Approval	BUILDING		
Date: 6/5/2021			
Name: William Staehlin	Title: Senior Structural Engineer		
Condition of Approval (if applicable):			



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TABLE OF CONTENTS OPM-0602-19

OPM-0602-19	PAGE
GENERAL NOTES	2
ABBREVIATIONS	
DESIGN CRITERIA	
CONFIGURATION EXAMPLES	
CONFIGURATION #1 ReadA—SA—3	7
CONFIGURATION #2 TLA-3	
CONFIGURATION $\#3$ TLA-4	
CONFIGURATION #4 TLA-12	
CONFIGURATION $\#$ 5 WCA-3	
BD Kiestra™ TRACK PLAN VIEW & FLEVATIONS	
<u>BD Kiestra[™] TRACK PLAN VIEW & ELEVATIONS</u> CABINET BASE MODULE	
STANDARD CONNECTOR SUBMODULE	13
STACKER SUBMODULE	
STACKER SUBMODULE DESTACKER SUBMODULE SHIFT CONNECTOR SUBMODULE ErgonomicA CONNECTOR LEFT SUBMODULE ErgonomicA CONNECTOR RIGHT SUBMODULE	
SHIFT CONNECTOR SUBMODULE	
ErgonomicA CONNECTOR LEFT SUBMODULE	17
ErgonomicA CONNECTOR RIGHT SUBMODULE	
STRAIGHT SUBMODULE	
U-TURN SUBMODULE CORNER SUBMODULE T-JUNCTION SUBMODULE	
CORNER SUBMODULE	21
SCU CABINET	
BRACKET ATTACHMENT LOCATIONS	
CHASSIS CONNECTIONS BRACKET ASSEMBLY & DETAILS	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1)	.31
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1)	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1)	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3)	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3) NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BECTON, DICKSON AND COMPANY, DRACHTEN,	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3)	
ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3) NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BECTON, DICKSON AND COMPANY, DRACHTEN, THE NETHERLANDS.	33 34 PROFESS / 0/4/
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ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3) NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BECTON, DICKSON AND COMPANY, DRACHTEN, THE NETHERLANDS. 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS	33 34 PROFESS / OW/
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ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3) NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BECTON, DICKSON AND COMPANY, DRACHTEN, THE NETHERLANDS. 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHPD) PRE-APPROVAL PROGRAMS WEBSITE.	33 34 PROFESS / O.V./
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ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 1) ATTACHMENT DETAILS TO CONC FILL OVER MTL DECK (CASE 2) ATTACHMENT DETAILS TO CONC SLAB ON GRADE (CASE 3) NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BECTON, DICKSON AND COMPANY, DRACHTEN, THE NETHERLANDS. 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHPD) PRE-APPROVAL PROGRAMS WEBSITE. 3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE EQUIPMENT THE SUPPORTING STRUCTURE. THE EQUIPMENT & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER. THE EXPANSION ANCHORS, THRU-BOLTS & STRUT PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOF	33 34 PROFESS /0/4/ No. S4346 No. S4346 No. S4346 No. S4346 No. S4346 No. S4346 No. S4346 No. S4346 No. S4346

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GENERAL NOTES:

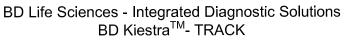
- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. IT IS THE RESPONSIBILITY OF THE SEOR FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
 - THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS. Β.
 - THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING C. ANCHORS. THE SPCG SHOWN IN THE TEST TORQUE TABLE ON PG 3 IS THE REQ MIN SPCG OF THE GIVEN DIA ANCHORS. THE REQ SPCG FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.
 - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2019 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
 - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, & THE MATERIAL & GAUGE OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO 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-TZ EXPANSION ANCHORS AS NOTED COMPLYING W/ ESR-1917 REISSUED SEPTEMBER 2019, REVISED JANUARY 2020.
 - 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 <u>PG 3</u>.
 - JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOBSITE TESTING IN Β. ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TORQUE TEST 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 OSHPD. 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 NUT SHALL BE RETORQUED TO INSTALLATION TORQUE AFTER EQUIP INSTALL. ALSO REFER TO 2019 CBC 1910A.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE". REPORT OF TEST RESULTS SHALL BE SUBMITTED TO OSHPD.
 - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN 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 SUBER ANCHORS.
 - E. PROVIDE FOR FULL THRD ENGAGEMENT OF NUT & WASHER.

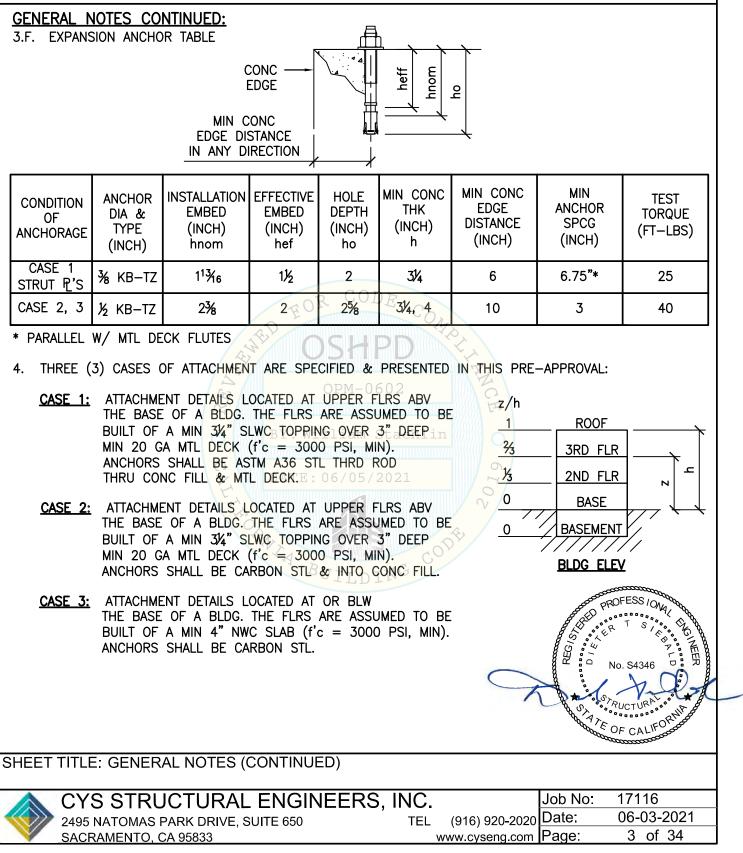
SHEET TITLE: GENERAL NOTES



	CYS STRUCTURAL ENGINEERS,	INC.		Job No:	17116
///	2495 NATOMAS PARK DRIVE, SUITE 650	TEL	(916) 920-2020	Date:	06-03-2021
	SACRAMENTO, CA 95833		www.cyseng.com		2 of 34

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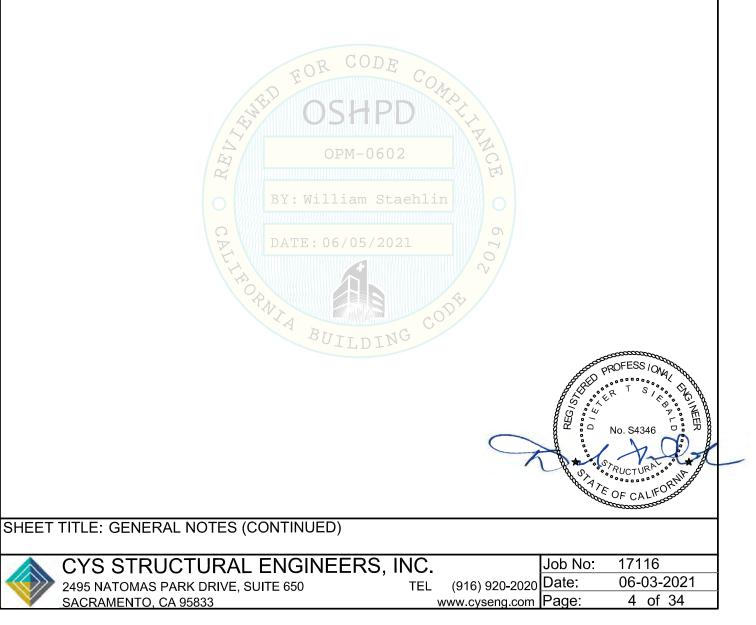
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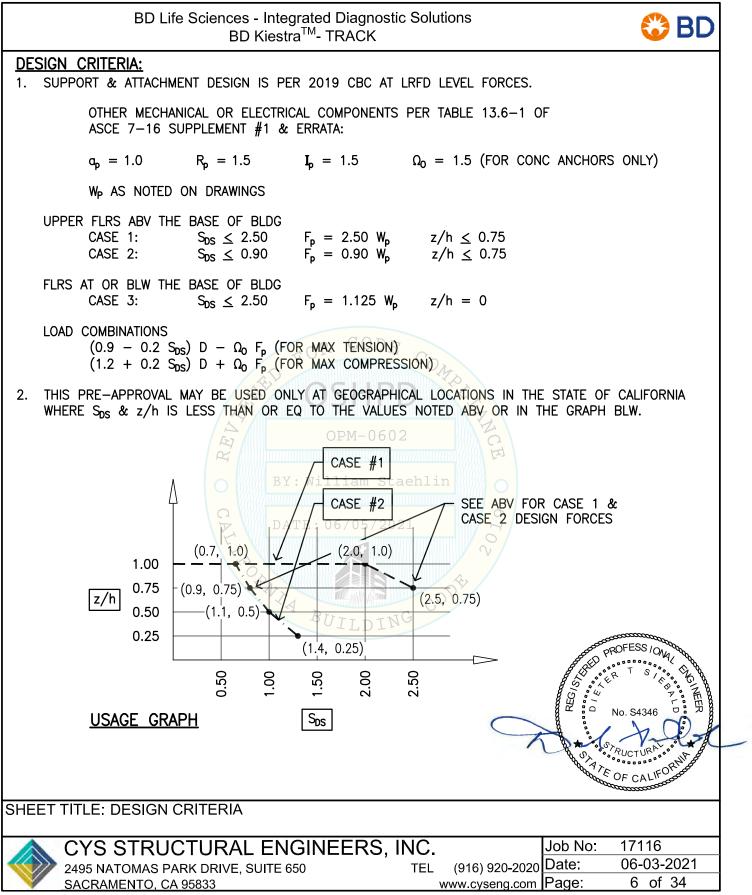


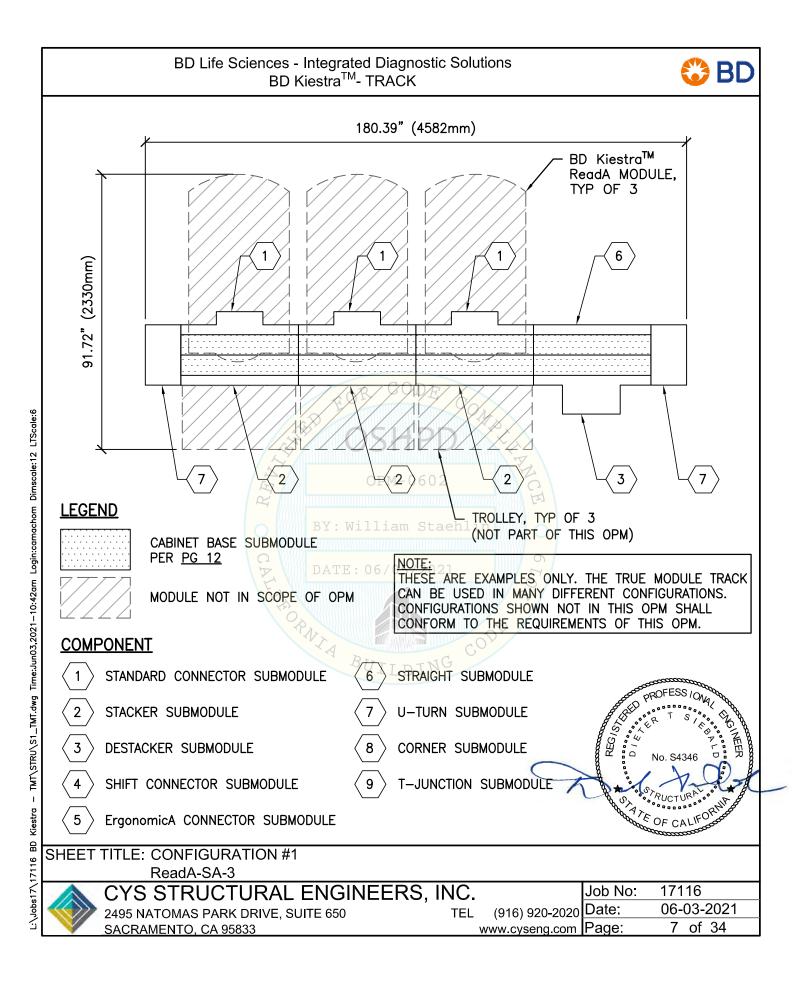
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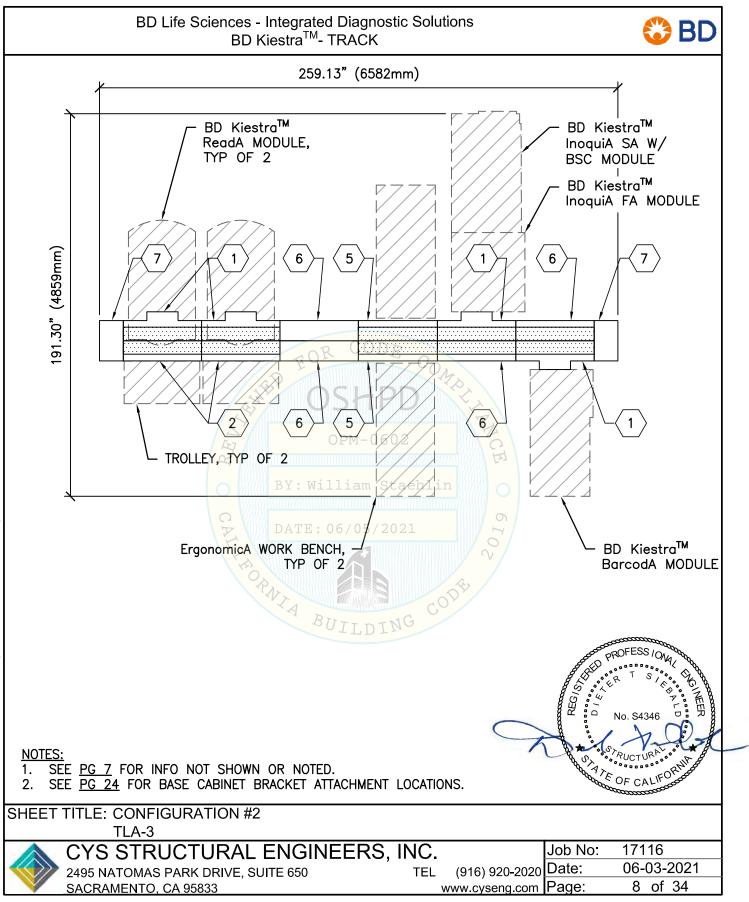
- 5. BOLTS THRU CONC ON MTL DECK:
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - B. THRU-BOLT HOLES SHALL BE $\frac{1}{16}$ " LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + $\frac{1}{16}$ ").
 - C. THRU-BOLTS IN CONC SHALL RECEIVE SPECIAL INSPECTION & TESTING IN ACCORDANCE W/ REQUIREMENTS FOR POST-INSTALLED ANCHORS. THRU-BOLTS W/ STL TO STL CONN IN TENSION DO NOT REQUIRE TESTING.

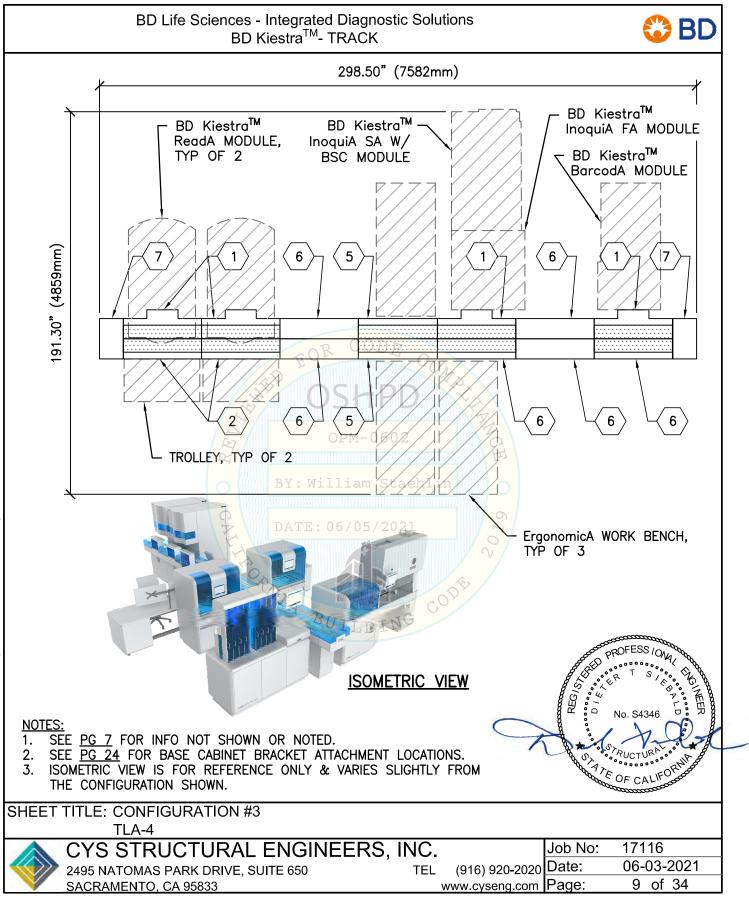


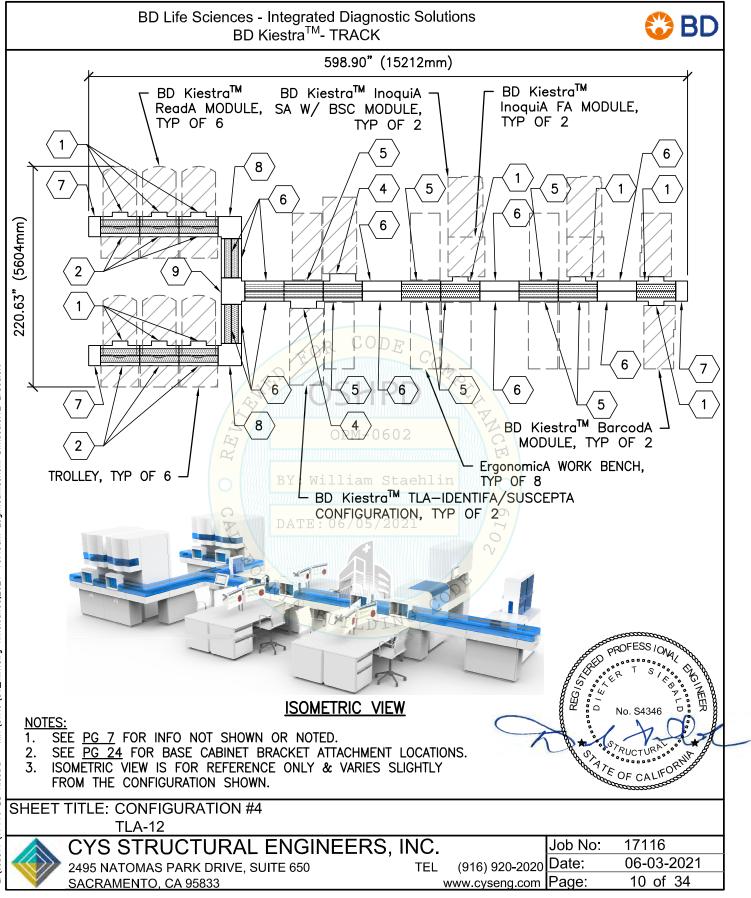
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ABBREVI	ATIONS:		
0	AT	MFR	MANUFACTURER
ĂВ	ANCHOR BOLT	MAX	MAXIMUM
ABV	ABOVE	MIN	MINIMUM
ADJ	ADJACENT	mm	MILLIMETER
AISC	AMERICAN INSTITUTE FOR STEEL	MTL	MELLINETEL
AISC	CONSTRUCTION		NUMBER OR POUNDS
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	NO. (#)	
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	NWC	NORMAL WEIGHT CONCRETE
ASTM	& MATERIALS	OP	OPERATING
		OPG	OPENING
BLDG	BUILDING	OPM	OSHPD PRE-APPROVAL OF
BLW	BELOW		MANUFACTURER'S CERTIFICATION
BOTT	BOTTOM	OSHPD	OFFICE OF STATEWIDE HEALTH
BYD	BEYOND		PLANNING & DEVELOPMENT
CBC	CALIFORNIA BUILDING CODE	PERP	PERPENDICULAR
CG	CENTER OF GRAVITY	PG	PAGE
Ę	CENTERLINE	Æ	PLATE
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION	REINE	REINFORCING/REINFORCEMENT
COORD	CONNECTION COORDINATE	REQ	
DBL	DOORLE	SEOR	STRUCTURAL ENGINEER OF RECORD
DIM	DIMENSION	SHCS	SOCKET HEAD CAP SCREW
DTL	DETAIL AND UD1	SIM	SIMILAR
DIA (Ø)	DIAMETER	SLWC	SAND-LIGHTWEIGHT CONCRETE
(E) Č		OSPCG	SPACING
ĒÁ			STAINLESS STEEL
EE	EACH END	SS STL	STEEL
ELEV			
EQ			INTHICK/THICKNESS
EQUIP	FOURDAENT	Tu	
EXTR		. / .	SEISMIC FORCE AT LRFD
f'c	EXTERIOR DATE: 06/09		THREAD OR THREADED
10		T&B	TOP & BOTTOM
	STRENGTH OF CONCRETE	TYP	TYPICAL
FLR	FLOOR	UNO	UNLESS NOTED OTHERWISE
FT (')	FOOT/FEET	Vu	ANCHORAGE SHEAR REACTION DUE TO
Fy	SPECIFIED YIELD STRENGTH OF		SEISMIC FORCE AT LRFD
	REINFORCING, PS OF STEEL, KSI BUIL	WAG	WITH
GA	GAUGE	Wp	COMPONENT OPERATING WEIGHT
HSS	HOLLOW STRUCTURAL SECTION	WT	WEIGHT
ICC	INTERNATIONAL CODE COUNCIL		
IN (")	INCH		
INFO	INFORMATION		
KG	KILOGRAM		No. S4346 5 9
KSI	KIPS PER SQUARE INCH		
LBS	POUNDS		The I Take
LRFD	LOAD AND RESISTANCE FACTOR DESIGN		W. O. PUCTURA
			VOI CONCOLOUR NIT
			UF CALI
SHEET TI	TLE: ABBREVIATIONS		
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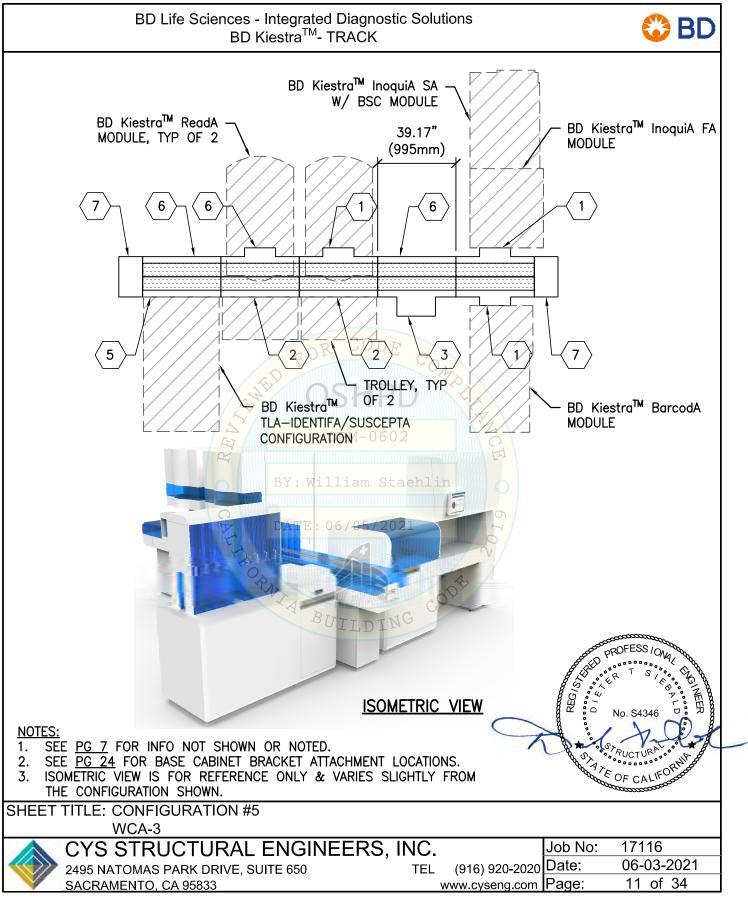


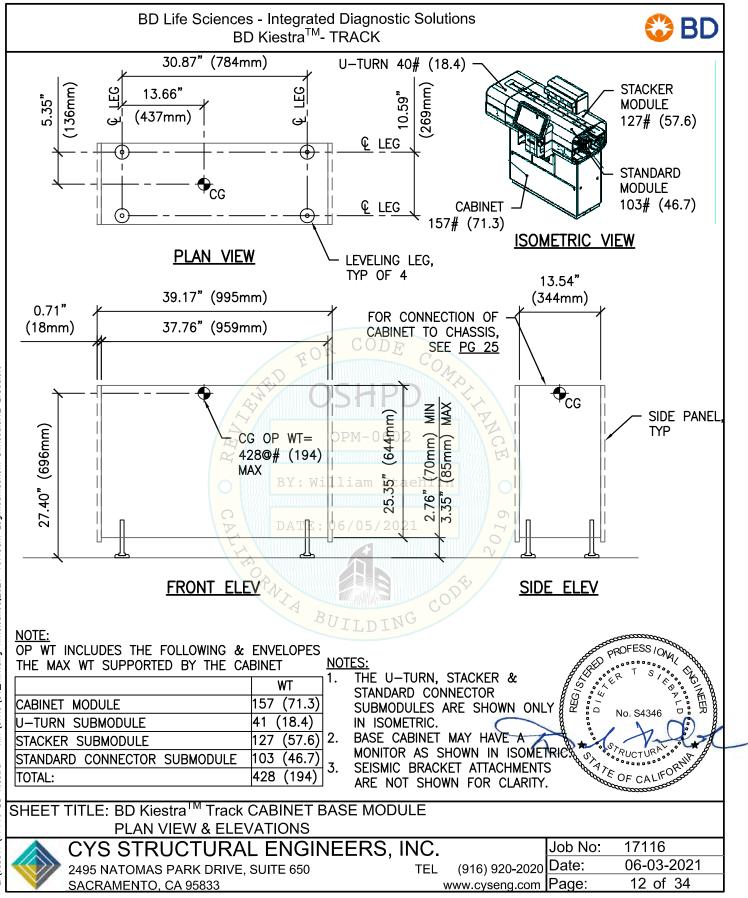


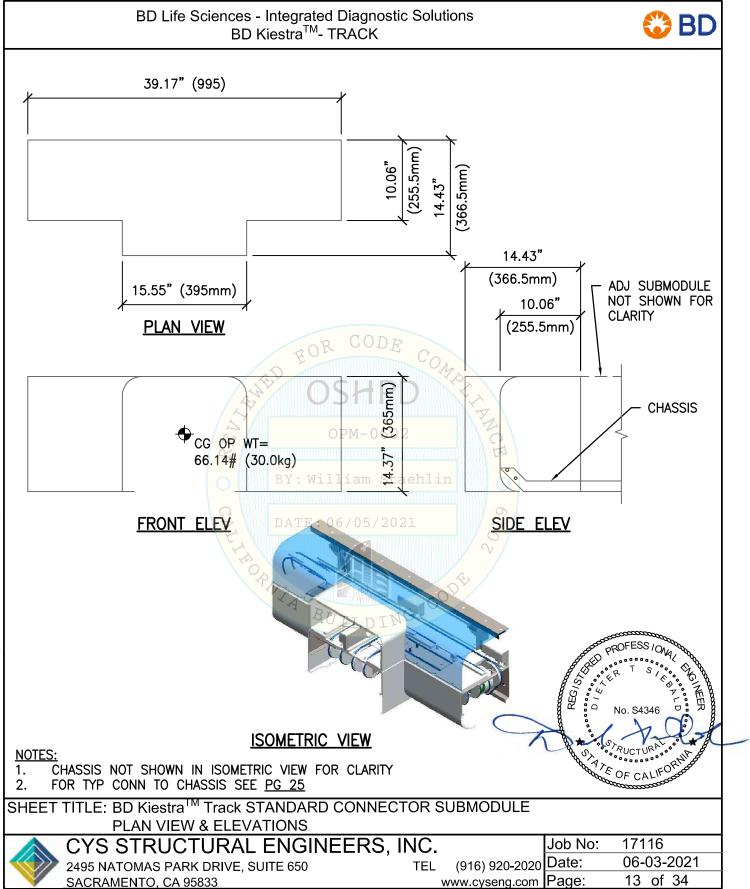


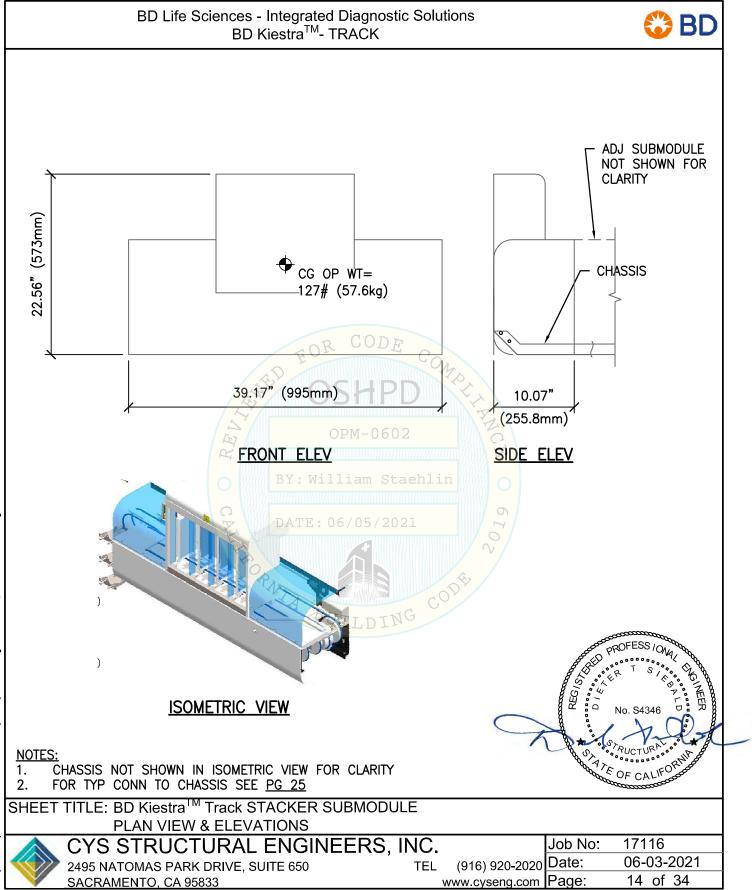


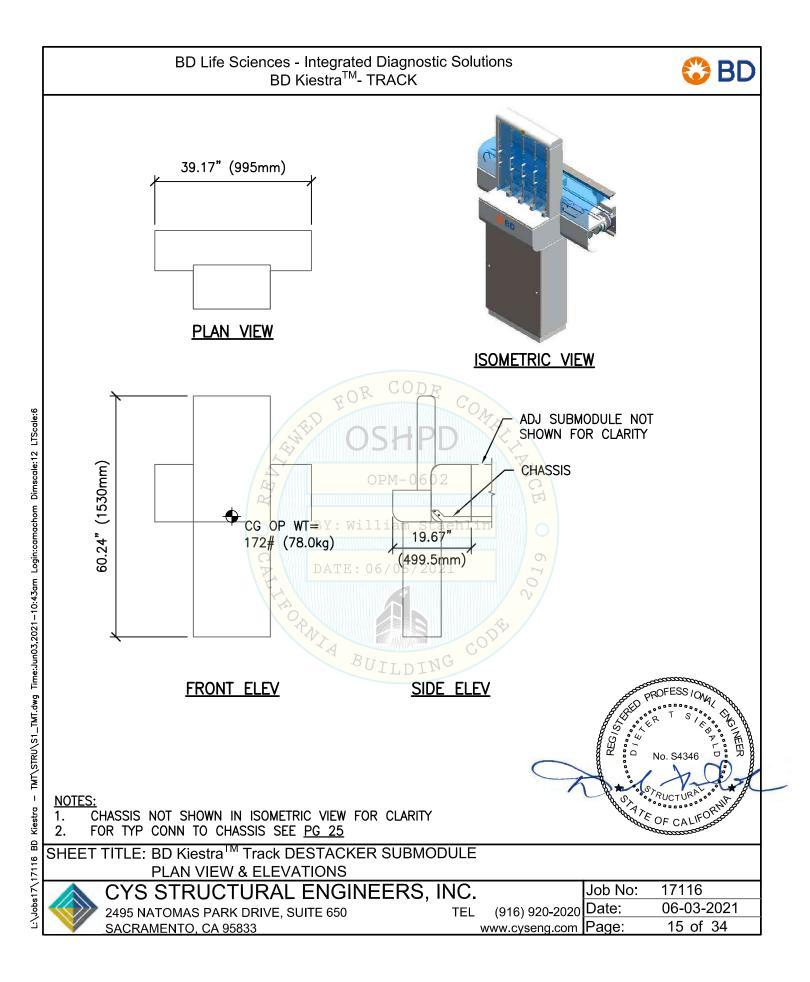


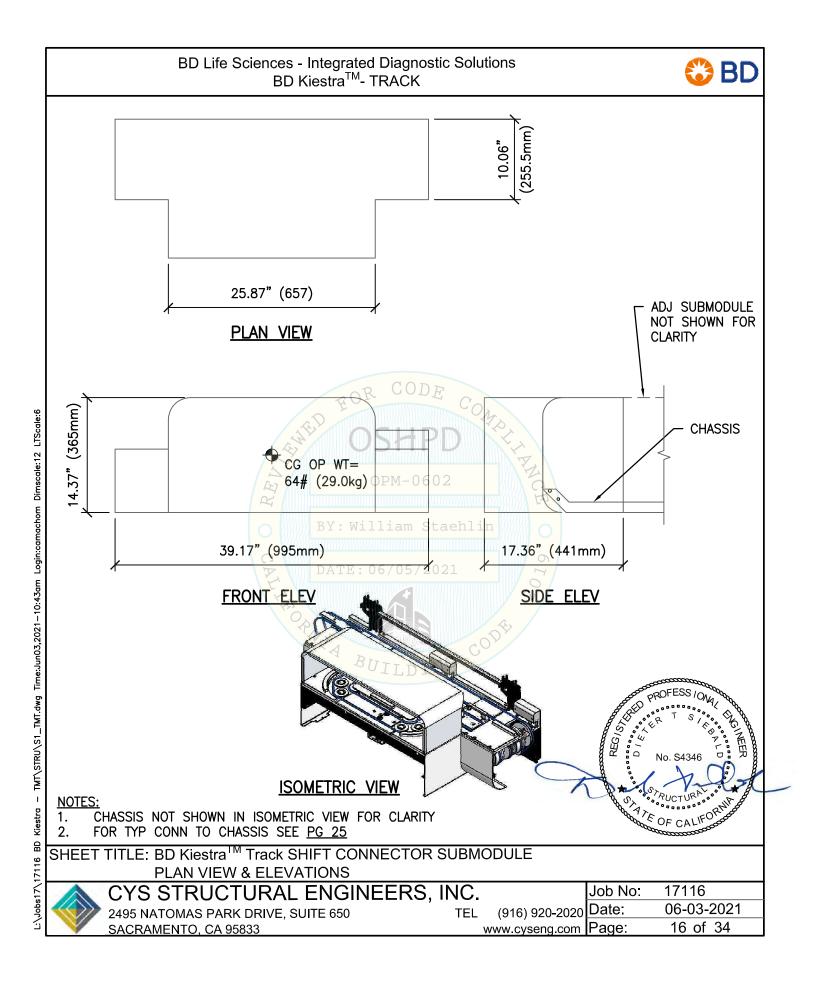


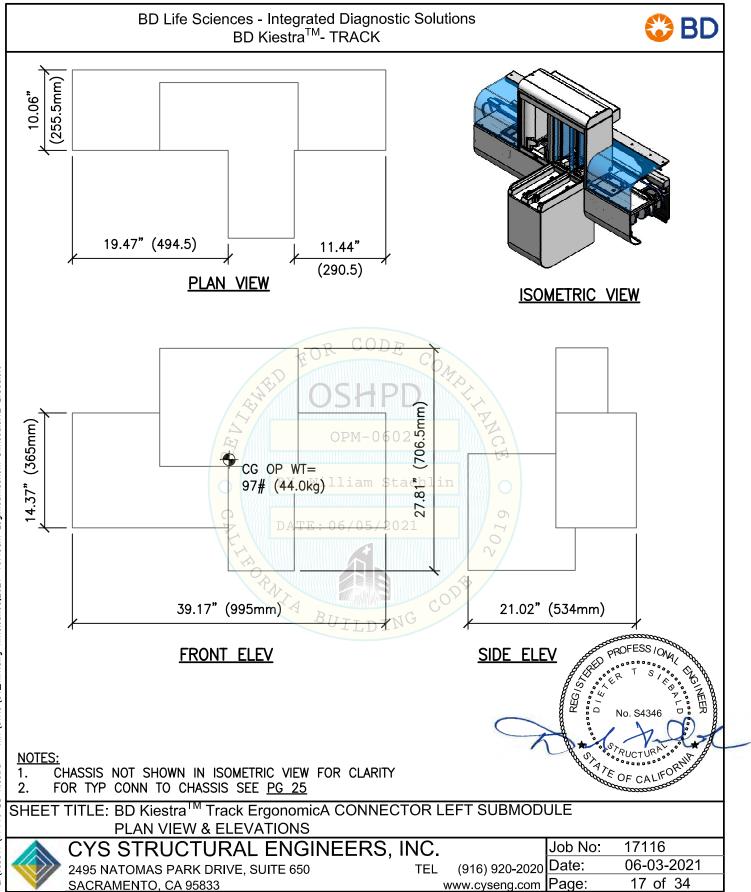


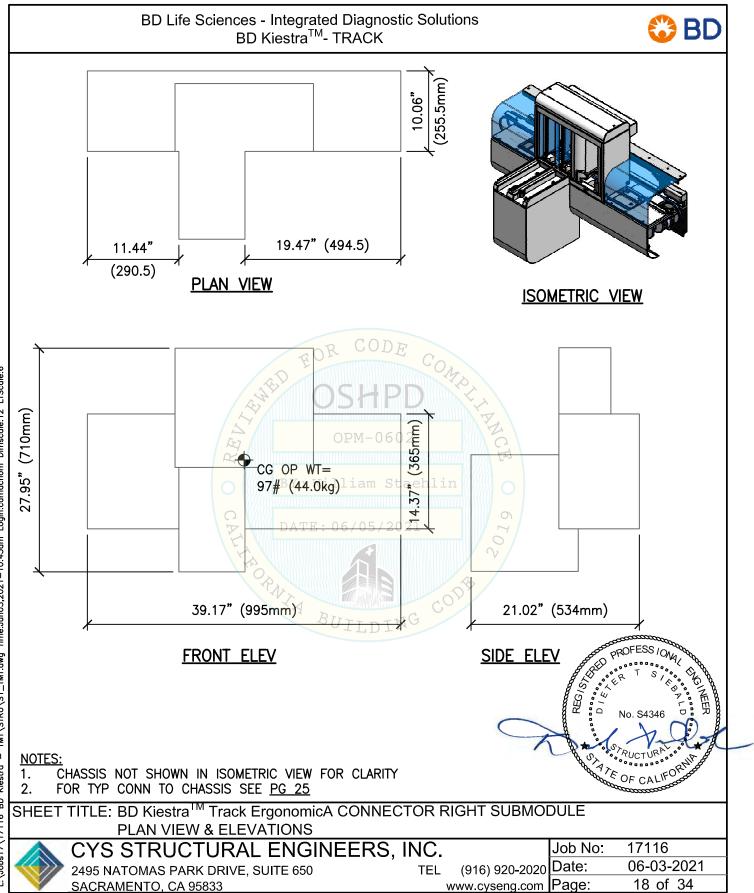


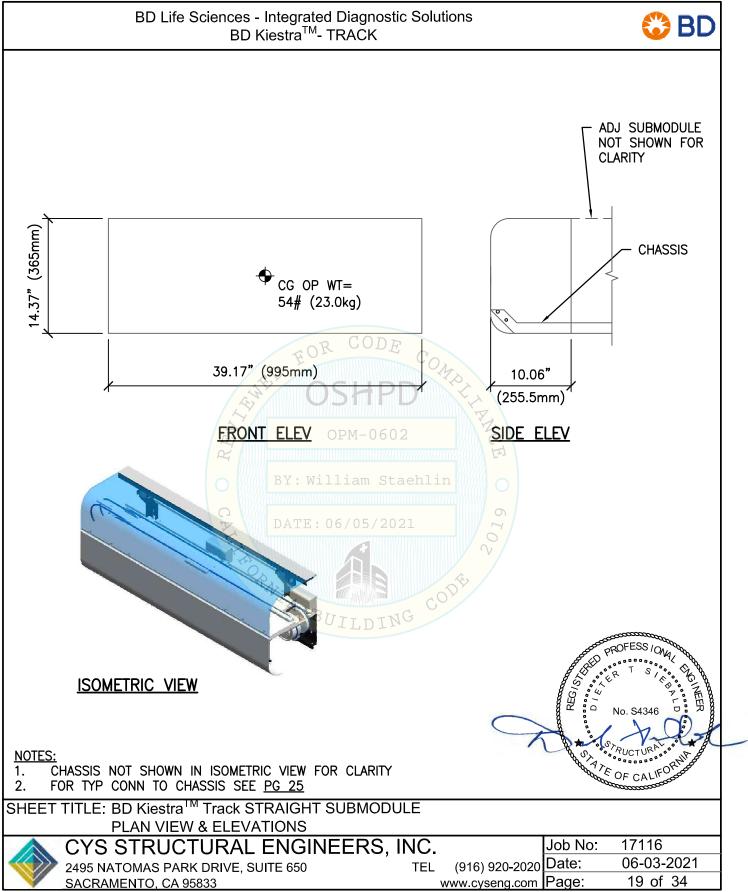


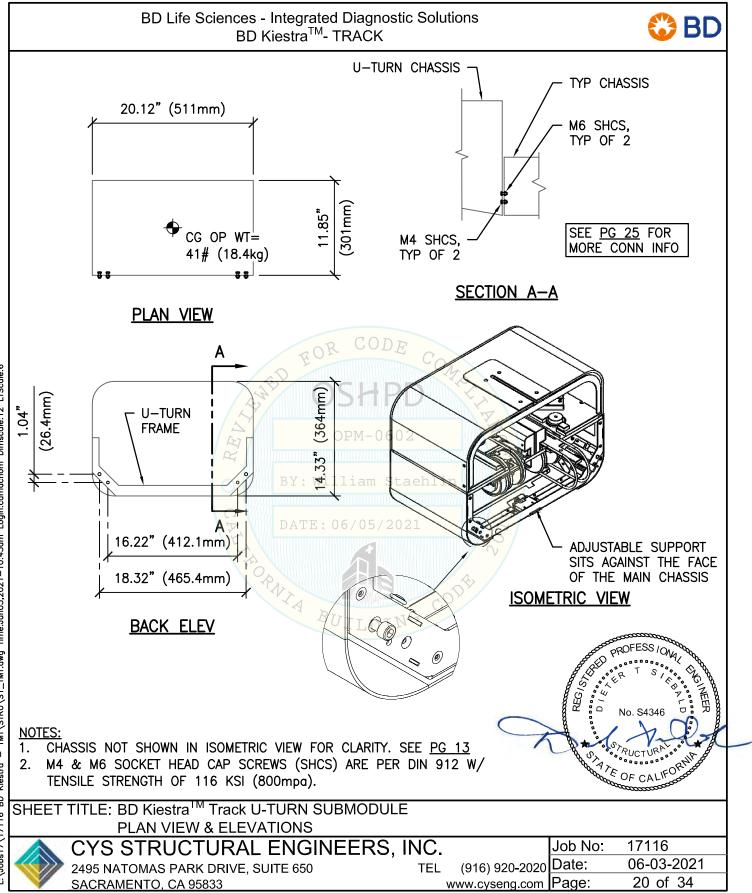




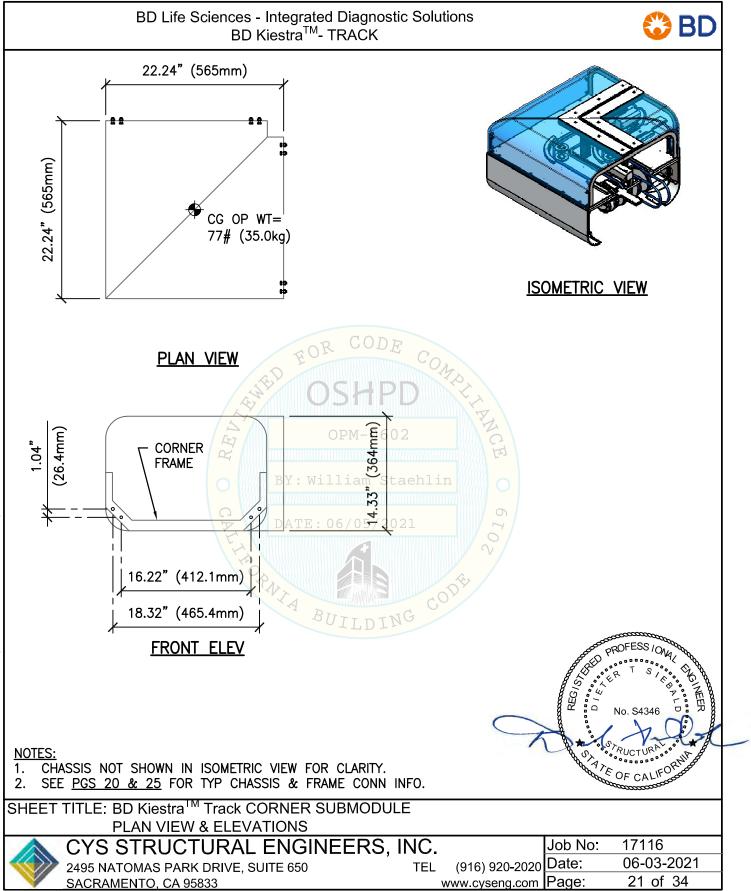


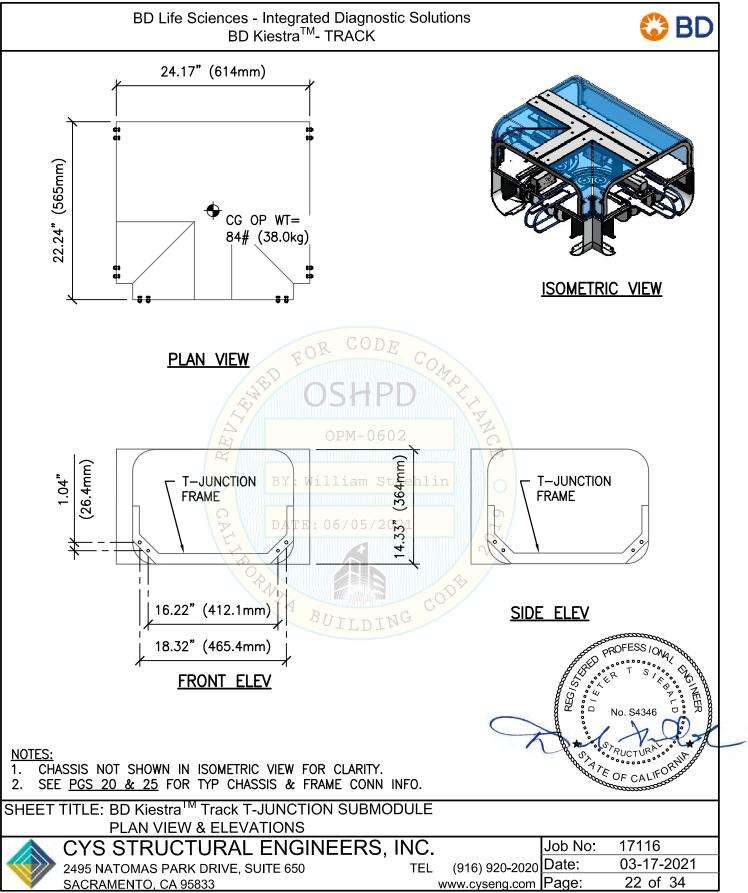


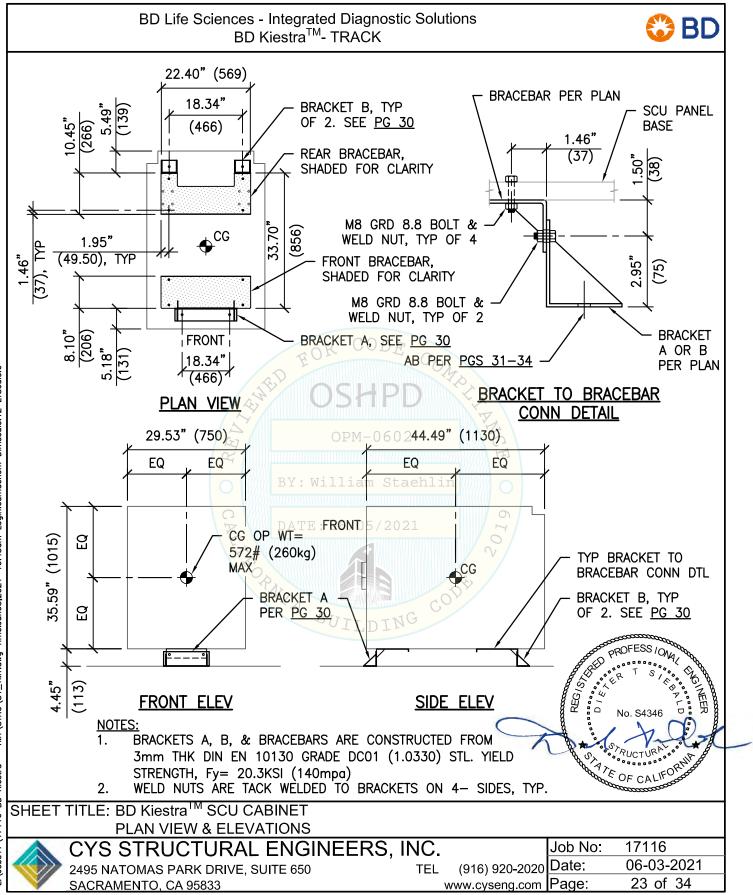


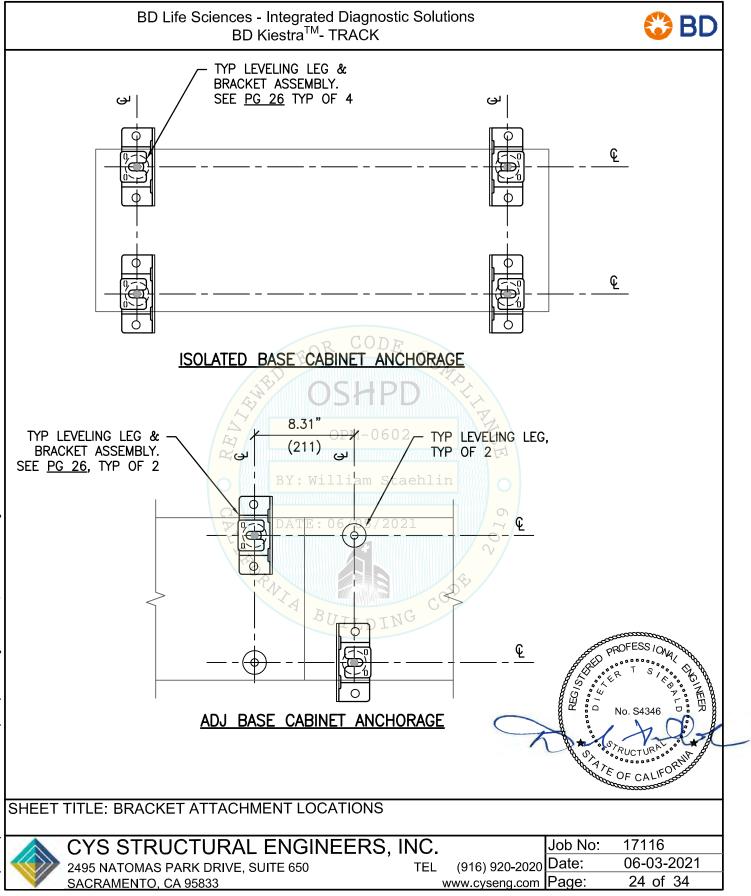


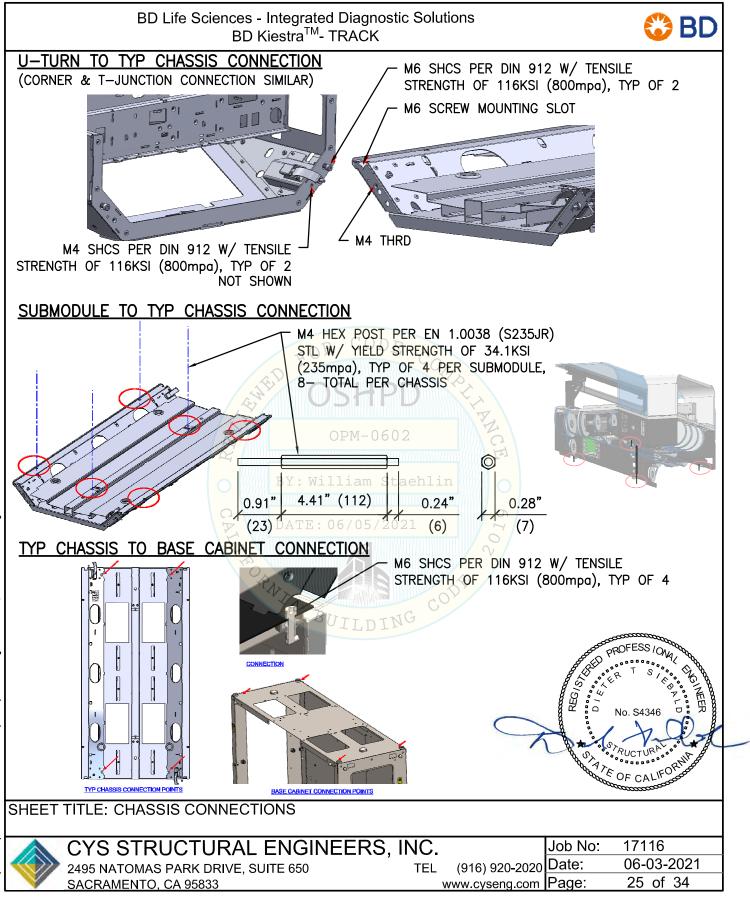
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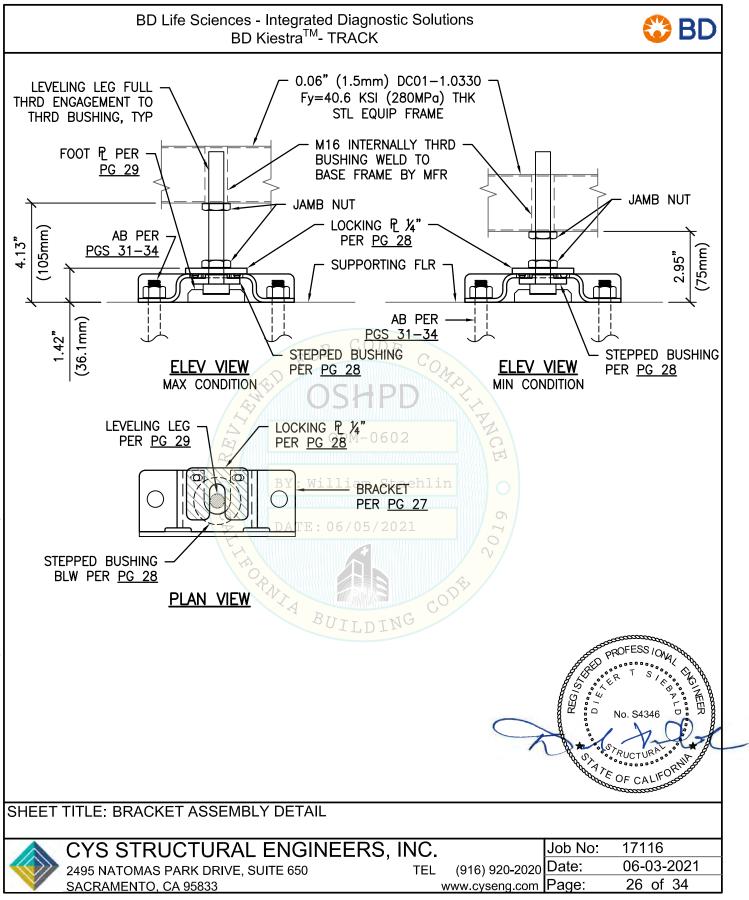


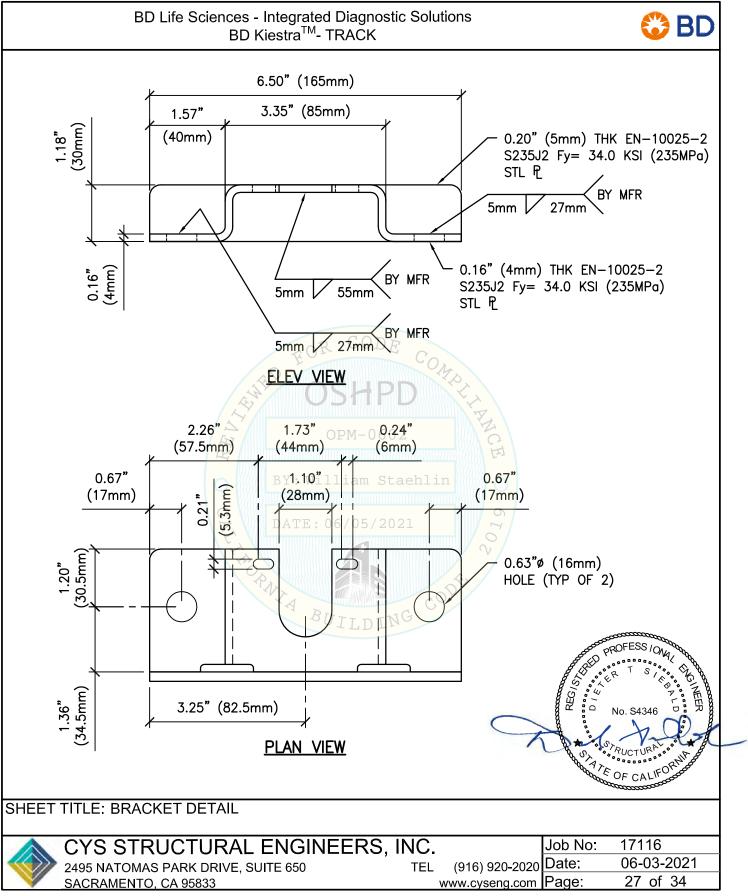


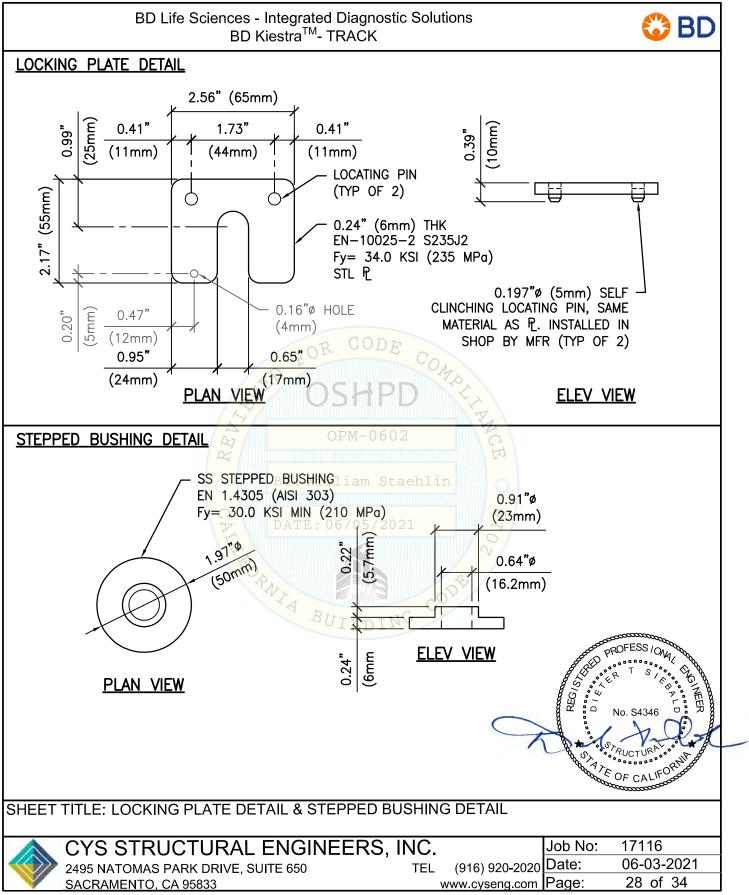


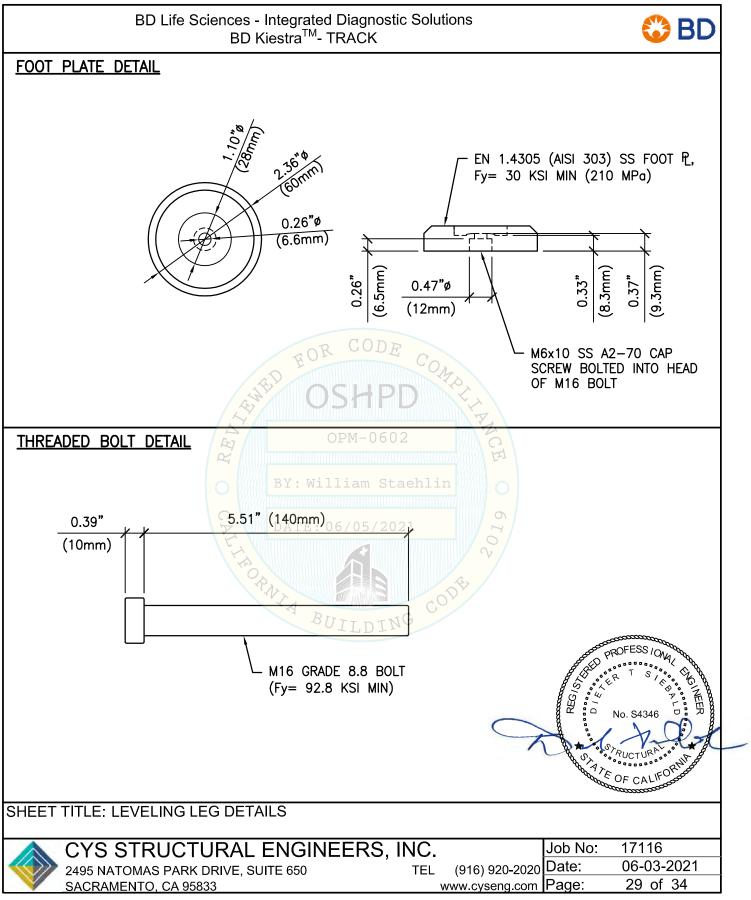


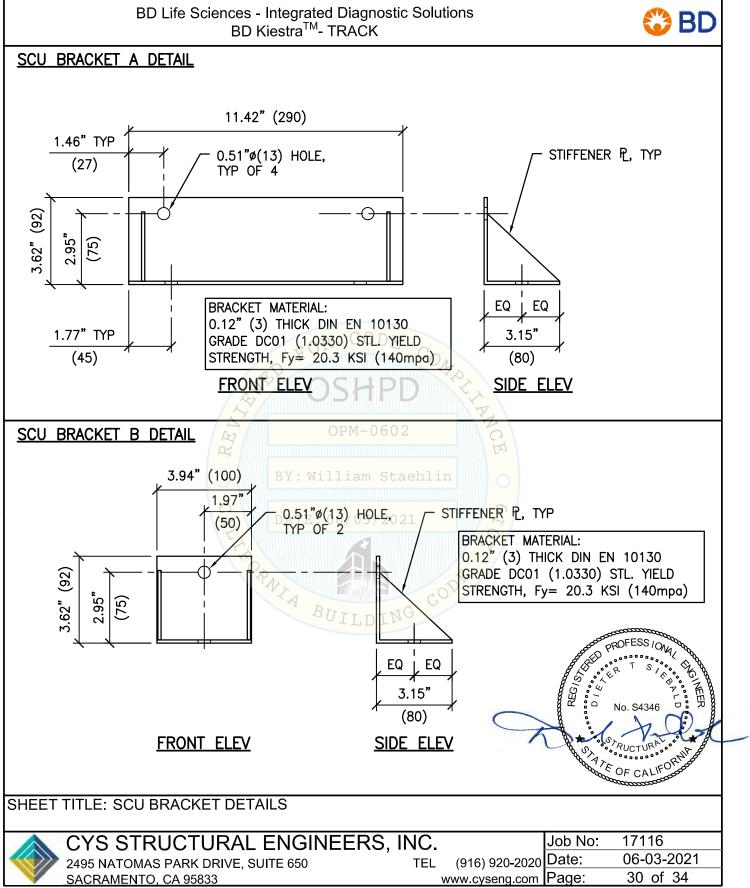












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