

APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: 0PM-0109-13					
OF MANUFACTURER'S CERTIFICATION (OPIN) APPLICATION #: OPM-0109-13					
OSHPD Preapproval of Manufacturer's Certification (OPM)					
Type: 🛛 New 🗌 Renewal 🖾 Update to Pre-CBC 2013 OPA Number: OPA-1581					
Manufacturer Information					
Manufacturer: Ortho Clinical Diagnostics Part of the Johnson & Johnson Family of Companies					
Manufacturer's Technical Representative: Frank Koetter					
Mailing Address: 100 Indigo Creek Drive, MC00891, Rochester, NY 14626-5101					
Telephone: 1-585-453-4003 Email: D FKoetter@its.jnj.com					
Product Information					
Product Name: Vitros ECi and Vitros ECiQ S Dpd					
Product Type: Immunodiagnostic System 0109-13					
Product Model Number: Vitros ECi and Vitros ECiQ					
General Description: Immunodiagnostic Blood Analyzer					
C DATE: 10/24/2014					
Et N					
Applicant Information					
Applicant Company Name: Ortho Clinical Diagnostics Part of Johnson & Johnson Family of Companies					
Contact Person: Frank Koetter					
Mailing Address: 100 Indigo Creek Drive, MC00891, Rochester, NY 14626-5101					
Telephone: 1-585-453-4003 Email: FKoetter@its.jnj.com					
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.					
Signature of Applicant: Date: 5/9/14					
Title: Group Director, Systems Development & LCM Company Name: Ortho Clinical Diagnostics					
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"					

"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 3/13/14)

Page 1 of 2



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations						
Company Name: CYS Structural Engineers, Inc.						
Name: Dieter T. Siebald California License Number: S.E. #4346						
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833						
Telephone: 916-920-2020 Email: dieters@cyseng.com						
OSHPD Special Seismic Certification Preapproval (OSP)						
 Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) 						
Special Seismic Certification is not preapproved						
Certification Method(s)						
 Testing in accordance with: ICC-ES AC156 FM 1950-10 Other* (Please Specify): 						
LE OSL POU						
 *Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 may be used when approved by OSHPD prior to testing. Analysis Experience Data Combination of Testing, Analysis, and/or Experience Data (Please Specify): 						
TO A						
List of Attachments Supporting the Manufacturer's Certification						
□ Test Report ⊠ Drawings □ Manufacturer's Catalog □ Other(s) (Please Specify):						
OFFICE USE ONLY - OSHPD APPROVAL VALID FOR CBC 2013 ONLY Signature: Image: Control of the second						
Title: Senior Structural Engineer						
Condition of Approval (if applicable):						
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OPM-0109-13 TABLE OF CONTENTS

PAGE ABBREVIATIONS & DESIGN CRITERIA 5 VITROS ECi / ECiQ PLAN AND ELEVATIONS 6 BRACKET ASSEMBLY DETAIL 7 FRAME BRACKET DETAIL 600 8 BRACKET ANCHORAGE DETAILS osl /pd THESE DRAWINGS ARE PREPARED FOR ORTHO CLINICAL DIAGNOSTICS. **NOTES:** 1. ROCHESTER, NEW YORK. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF 2. THIS PRE-APPROVAL FROM THE OSHPD PRE-APPROVAL PROGRAMS WEBSITE. THIS PRE-APPROVAL COVERS THE ATTACHMENTS OF THE COMPONENT 3. (EQUIPMENT) TO THE SUPPORTING STRUCTURE. THE COMPONENT AND ATTACHMENT HARDWARE ARE SUPPLIED BY ORTHO CLINICAL DIAGNOSTICS (OCD). THROUGH BOLTS, UNDER FLOOR HARDWARE AND ATTACHMENTS AT SOFFIT UNDER METAL DECK AND EXPANSION BOLTS SHOWN ON PAGES 10, 11 & 12 SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SHEET TITLE: TABLE OF CONTENTS CYS STRUCTURAL ENGINEERS, INC. 13072.06 Job No: 9/19/2014 Date: 2495 NATOMAS PARK DRIVE, SUITE 650 TEL (916) 920-2020 www.cyseng.com Page: 1 of 12 SACRAMENTO, CA 95833

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GENERAL NOTES:	
1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC	2013. THE
DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.	
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PRO	OJECT TO
VERIFY:	
A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES AND WEIGHT S	SPECIFIED
FOR EACH EQUIPMENT IN ADDITION TO ALL OTHER LOADS. PROVIDE AND DESIGN SUPPLEMENT	TARY
MEMBERS AS REQUIRED.	
B. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES	OR
OPENINGS.	
C. THAT THE FLOOR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXIS	
ANCHORS. THE SPACING SHOWN IN THE TEST LOADS TABLE ON PAGE 3 IS THE REQUIRED MIN	
SPACING OF THE 1/2" DIAMETER ANCHOR BOLTS. THE REQUIRED SPACING FROM ANCHORS OF C	OTHER
DIAMETERS AND EMBEDMENTS MAY VARY AND SHALL BE EVALUATED BY THE SEOR.	
D. THAT THE INSTALLATION IS IN CONFORMANCE WITH THE CBC 2013 AND WITH THE DETAILS SH	IOWN IN
THIS PRE-APPROVAL.	
E. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATION	
ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE EQUIPMENT WHERE ATTACHMENTS ARI	E MADE,
AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS. F. THAT THE PROPER SPECIFIC VALUES OF $S_{DS} \& z/h$ RESULT IN SEISMIC FORCES (Eh, Ev) THA	
F. THAT THE PROPER SPECIFIC VALUES OF S _{DS} & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THA EXCEED THE VALUES IN THE DETAILS.	AI DO NOI
3A. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE SHALL	DE
STAINLESS STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ESR-1917 REISSUED M	
B. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GI	
ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TAE	
PAGE 3.	
C. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE	TESTING IN
ACCORDANCE WITH THE TENSION LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF TH	IE INSTALLED
ANCHORS. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASUR	RE THE
TENSION IN THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK OR CALIBRATED SP	PRING
LOADING DEVICES OR CALIBRATED TORQUE WRENCH METHOD. ALL TESTS SHALL BE CONDUCTED	
PRESENCE OF THE INSPECTOR OF RECORD. REPORT OF TEST RESULTS TO BE SUBMITTED TO	
ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOUR	
MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIPMENT INSTALLATION. ALSO	REFER TO
CBC 1913A.7 "FIELD TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".	
D. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INS	STALLED
ANCHORS:	000
 <u>HYDRAULIC RAM METHOD:</u> APPLY AND HOLD TEST LOAD FOR A MINIMUM OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT APPOFESS 	S IONA
	and the second
AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. FOR WEDGE	
A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE	
WASHER UNDER THE NUT BECOMES LOOSE.	346
• TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE	V-1-10-
REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE:	RAL *
ONE-HALF (1/2) TURN OF THE NUT.	R R R
OF CA	ALIFO
	2200
SHEET TITLE: GENERAL NOTES	
CYS STRUCTURAL ENGINEERS, INC. Job No: 13	3072.06
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SACRAMENTO, CA 95833 TEL (916) 920-2020 Page: 2	of 12

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		NOTES CC VALUES: APPL N.		ADS TO	ANCHORS V	VITHOUT RI	Emoving ⁻	THE NUT IF	POSSIBLE,	SEE TABLE
	CONC EDGE		MIN C EDGE DIS							
	ANCHOR DIA (INCH)	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) heff	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) h	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST TENSION LOAD (LBS)	TORQUE	CONDITION OF ANCHORAGE
	1∕₂	23⁄8	2	25%	E 4	12	C 4	1713	40	CASE 2
	 CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR. 4. BOLTS THROUGH CONCRETE ON METAL DECK: LIAM STATUMENT OF THE NUTS AFTER SNUG TIGHT (THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS NOTED OTHERWISE. B. THROUGH BOLT HOLES SHALL BE ¼6" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + ¼6") C. THROUGH BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION & TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS. 5. SCREW ANCHORS TO BOTTOM OF CONCRETE FILL OVER METAL DECK: A. HILTI KH-EZ (ICC ESR-3027) TENSION TEST LOAD FOR CASE 1. 									
	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)	TENSION TEST LOAD (LBS)	EG1575	DFESS / ON4/ T S / C C C C C C C C C C C C C C C C C C
	<i>¥</i> 4	15⁄8	1.18	2	31⁄4	11⁄4*	10*	400	STR. O. STR.	UCTURAL OF A
* SEE PAGE 10 OF 12 IN THIS OPM.								F CALIFORNIC		
CYS STRUCTURAL ENGINEERS, INC.Job No:13072.062495 NATOMAS PARK DRIVE, SUITE 650TEL(916) 920-2020Date:9/19/2014SACRAMENTO, CA 95833www.cyseng.comPage:3 of 12										

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GENERAL NOTES CONTINUED:

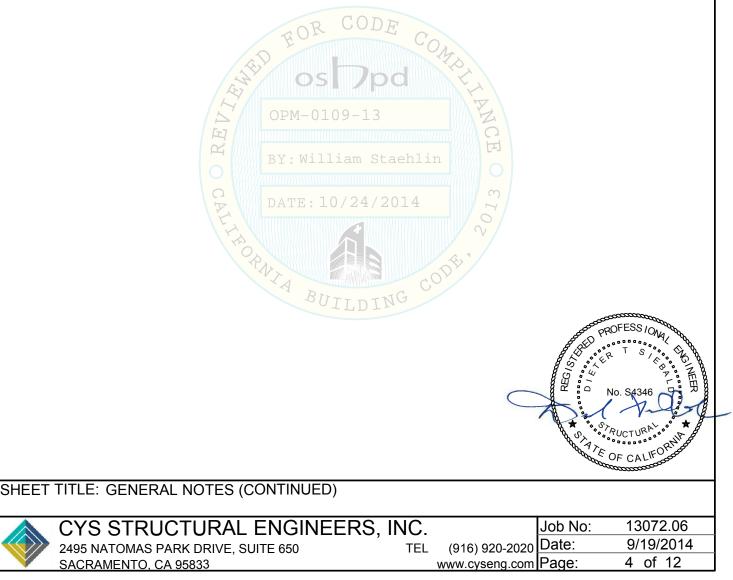
6. z/h

_1		
243	3RD FLR	
<i>1</i> z	2ND FLR	ب ۲
0	BASE	
0	BASEMENT	· · ·

TWO (2) CASES OF ANCHORAGE ARE SPECIFIED AND PRESENTED IN THIS PRE-APPROVAL: CASE 1: ANCHORAGE DETAILS LOCATED AT UPPER FLOORS ABOVE THE BASE OF A BUILDING (z/h<=1.0), IT IS ASSUMED THAT THE FLOORS ARE BUILT OF A MINIMUM 31/4" SAND-LIGHTWEIGHT CONCRETE TOPPING OVER METAL DECK (f'c = 3000 PSI, MINIMUM). CASE 2: ANCHORAGE DETAILS LOCATED AT OR BELOW THE BASE OF A BUILDING (z/h=0). THE FLOORS ARE ASSUMED TO BE BUILT OF A MINIMUM 4" NORMAL-WEIGHT CONCRETE SLAB. (f'c = 3000 PSI, MINIMUM).

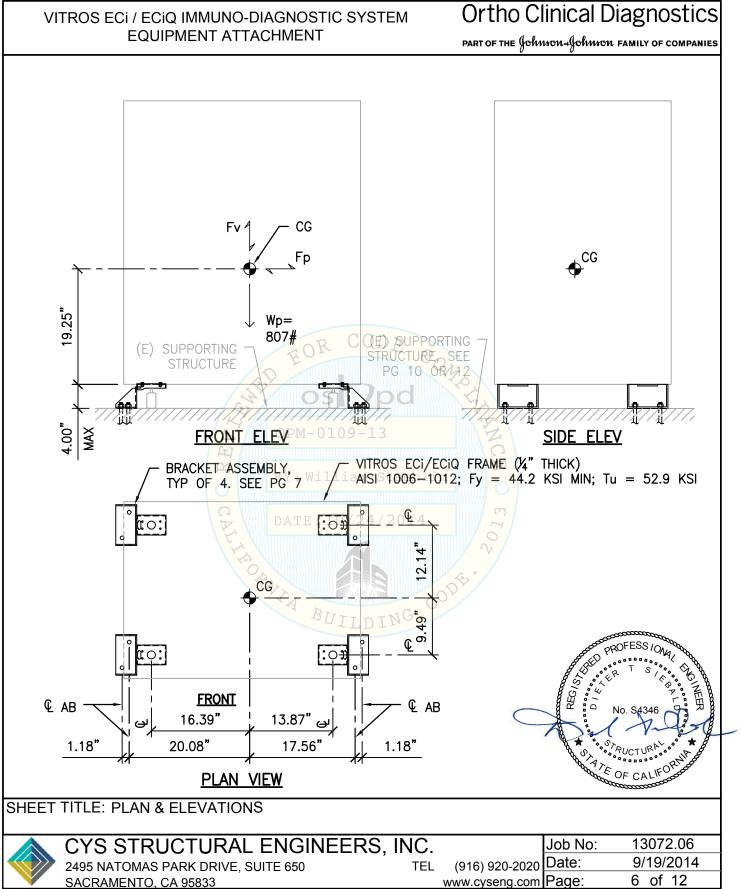
BUILDING ELEVATION

THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA. 7. WHERE S_{DS} IS LESS THAN OR EQUAL TO 2.50.



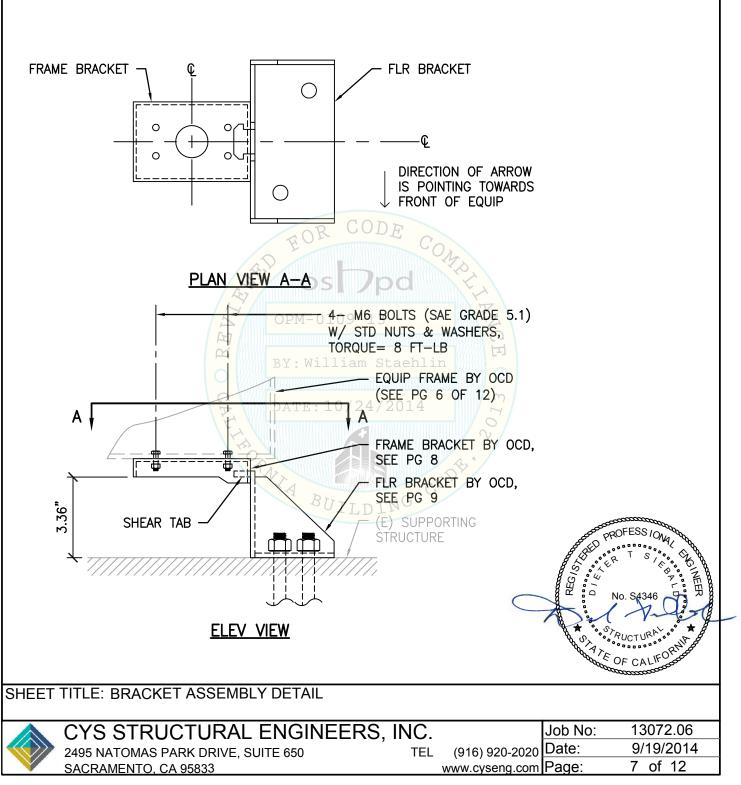
Γ	VITR	DS ECI / ECIQ IMMUNO-DIAGNOSTIC SY	Ortho Clinical Diagnostics						
		EQUIPMENT ATTACHMENT	Part of the Johnson +Johnson family of companies						
Γ									
	AB ABV ADJ ASTM BLW BOTT CBC CG CG Q COORD CONC DBL	ANCHOR BOLTS ABOVE ADJACENT AMERICAN SOCIETY FOR TESTING & MATERIALS BELOW BOTTOM CALIFORNIA BUILDING CODE CENTER OF GRAVITY CENTERLINE COORDINATE CONCRETE DOUBLE	IN (") KSI LRFD LWC MAX MFR MIN MTL NO. (#) NWC OSHPD	INCH KIPS PER SQUA LOAD AND RESI: LIGHT WEIGHT C MAXIMUM MANUFACTURER MINIMUM METAL NUMBER OR PC NORMAL WEIGHT OFFICE OF STAT PLANNING & DE	STANCE FAC ONCRETE OUNDS CONCRETE				
	DIA (Ø)	DIAMETER	PG(S)	PLANNING & DE PAGE(S)					
	(E) EA ELEV EMBED EQUIP f'c FLR Fp	EXISTING CONDITION EACH ELEVATION EMBEDMENT EQUIPMENT MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE FLOOR HORIZONTAL SEISMIC FORCE PER ASCE 7–10 SEISMIC FORCE PER ASCE 7–10 SEISMIC FORCE PER VERTICAL SEISMIC FORCE PER DM-0109-	PL PSI SEOR STL T&B Tu THRD TYP VERT	PLATE POUNDS PER S STRUCTURAL EN STEEL TOP & BOTTOM ANCHORAGE TEN SEISMIC FORCE THREAD OR THE TYPICAL VERTICAL ANCHORAGE SH	IGINEER OF NSION REACT AT LRFD READED	RECORD ION DUE TO			
	Fy	ACOE 7 10 CEICHIO FODOE DECHIDEMENTS	W/						
-	GA	GAUGE	Wp	OPERATING WEIC	GHT				
	DESIGN (DATE: 10/2	4/2014	07					
		E DESIGN FOR ALL MECHANICAL EQUIP IS PE	R 2013 CB	C AT LRFD LEVEL	FORCES				
	a _p =	1.0 $R_p = 1.5$ $S_{DS} = 2.50$	I _p =	1.5 $\Omega_0=$	1.5 (CONC /	ANCHORS)			
	VITRO	DS ECi/ECiq: $W_P = 807\#$	DING						
	FOR CASE 1 – UPPER FLRS ABV THE BASE, $z/h = 1.0$ $F_p = 3.0 W_p$ $F_v = 0.50 W_p$ FOR CASE 2 – SLAB AT OR BLW BASE, $z/h = 0$ $F_p = 0.50 W_p$ $F_v = 0.50 W_p$								
	FOR	CASE 2 - SLAB AT OR BLW BASE, z/h = C $F_p = 1.125 W_p$ $F_v = 0.50 W_p$)		N HE C	PUCTURAL PUCTURAL PECALIFORNIA PECALIFICA PECA			
5	SHEET TIT	LE: ABBREVIATIONS & DESIGN CRITER	RIA						
		YS STRUCTURAL ENGINEER	S, INC.		Job No:	13072.06			
		95 NATOMAS PARK DRIVE, SUITE 650 CRAMENTO, CA 95833	TEL	(916) 920-2020 www.cyseng.com	Date: Page:	9/19/2014 5 of 12			
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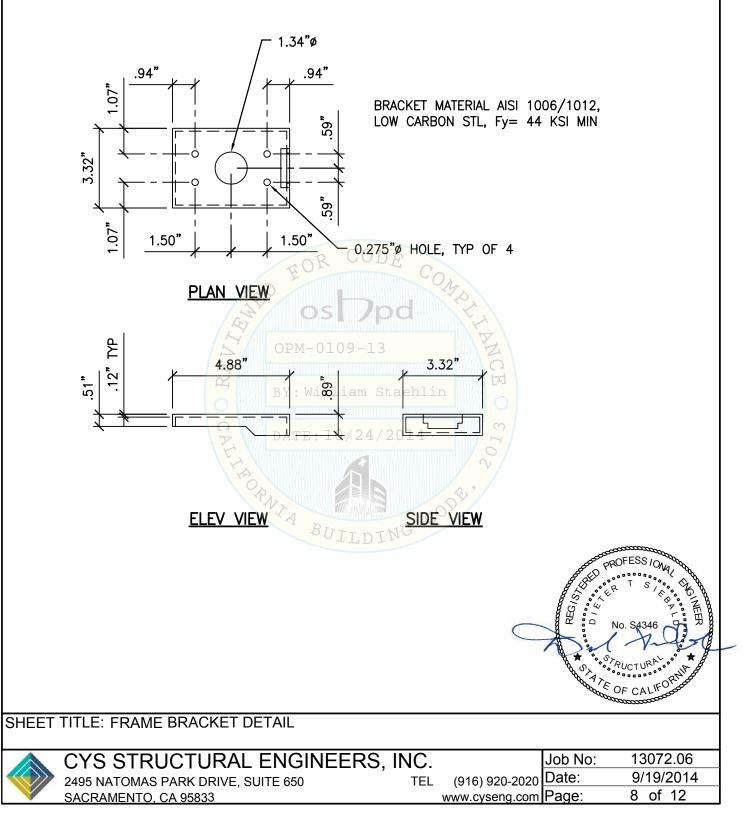
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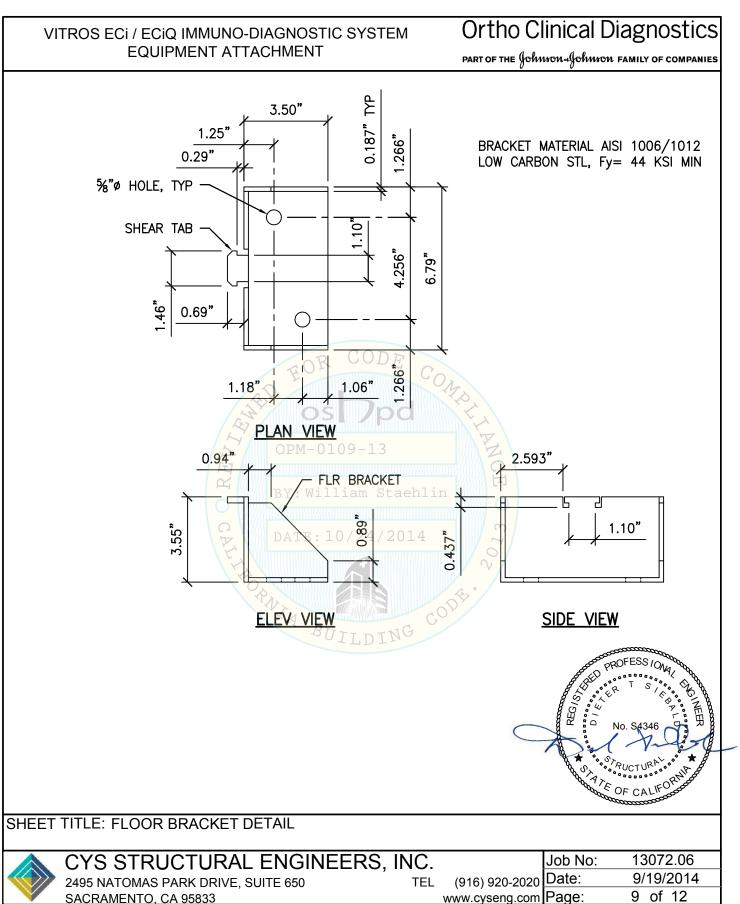
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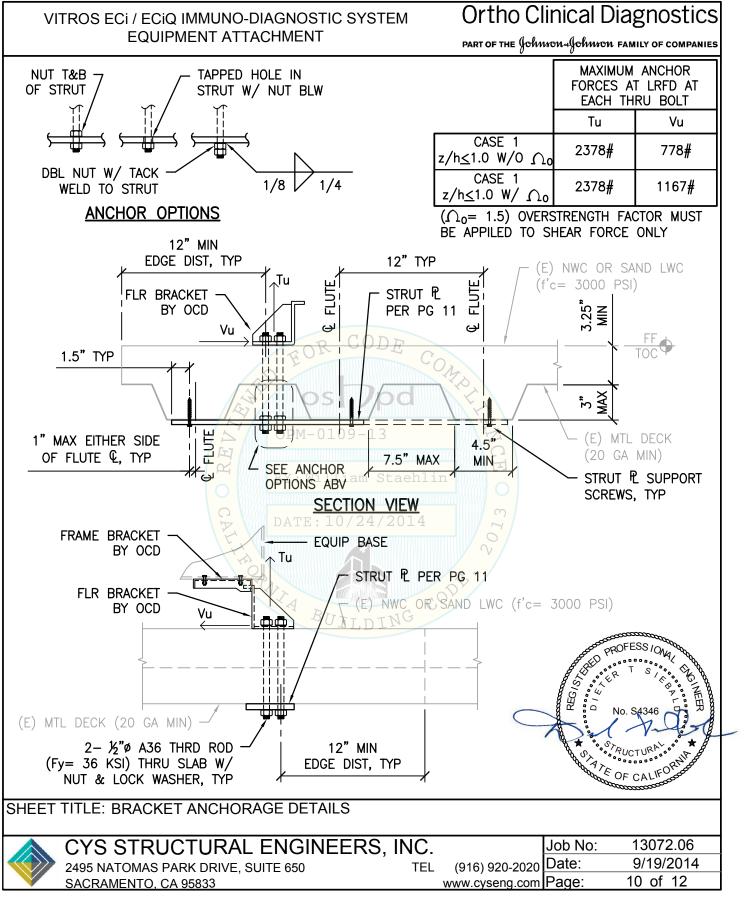


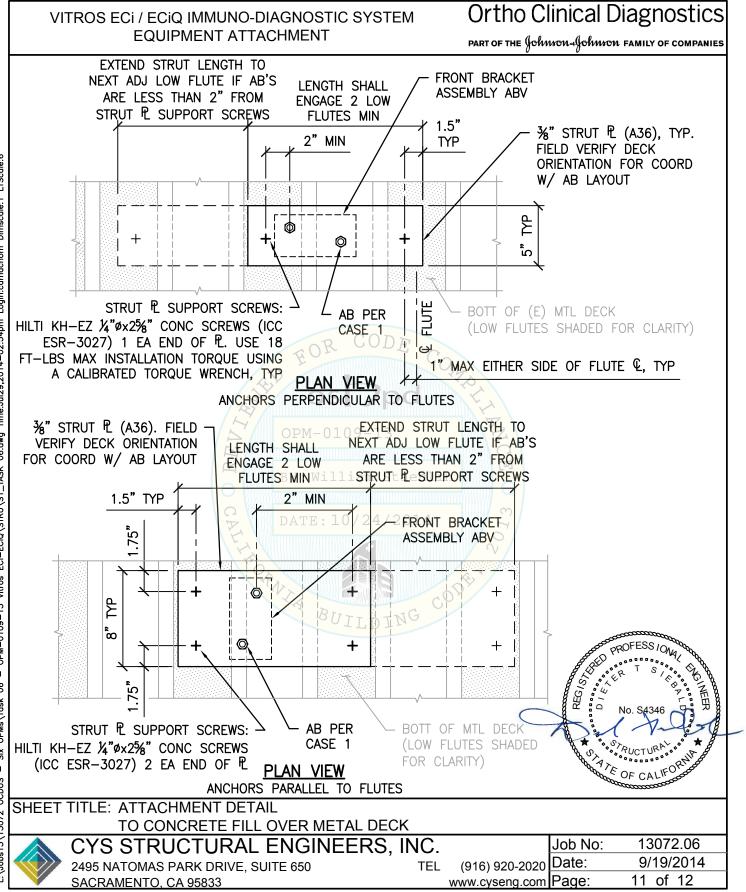
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