



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY

APPLICATION #: OPM-0303-13

**OSHPD Preapproval of Manufacturer's Certification (OPM)**

Type:  New  Renewal  Update to Pre-CBC 2013 OPA Number: \_\_\_\_\_

**Manufacturer Information**

Manufacturer: Konrad Prefab

Manufacturer's Technical Representative: David Jaacks

Mailing Address: 260 Clinton Street, Springfield VT 05156

Telephone: 802-952-8652

Email: [DJaacks@konradprefab.com](mailto:DJaacks@konradprefab.com)

**Product Information**

Product Name: Mamava Lactation Station

Product Type: Lactation Booth

OPM-0303-13

Product Model Number: V4.0

General Description: Small metal enclosure for privacy during breastfeeding.

DATE: 04/03/2019

**Applicant Information**

Applicant Company Name: Mamava

Contact Person: Ben Lanza

Mailing Address: 180 Battery Street, Suite 210 Burlington, VT 05401

Telephone: 802-347-2111

Email: [benl@mamava.com](mailto:benl@mamava.com)

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

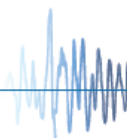
Signature of Applicant: Ben Lanza

Date: 11/7/18

Title: Director of Product & Supply Chain Company Name: Mamava

"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 12/16/15)



**OSHPD**

"Equitable Healthcare Accessibility for California"

Page 1 of 2



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**Registered Design Professional Preparing Engineering Recommendations**

Company Name: Morbius

Name: Jeffrey A. Roessler California License Number: C32466

Mailing Address: 4850 Baarranca Pkwy., Suite 205 Irvine, CA 92604

Telephone: (949) 651-8111 Email: Morbius1@sbcglobal.net

**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 1950-16
- Other\* (Please Specify): \_\_\_\_\_

\*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing.

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): \_\_\_\_\_

**List of Attachments Supporting the Manufacturer's Certification**

- Test Report  Drawings  Calculations  Manufacturer's Catalog
- Other(s) (Please Specify): \_\_\_\_\_

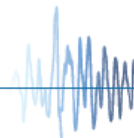
**OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS**

Signature:  Date: 4/3/2019

Print Name: Jeffrey Kikumoto

Title: SE

Condition of Approval (if applicable): \_\_\_\_\_



**GENERAL**

- THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND COORDINATE ALL DETAILS AND DIMENSIONS SHOWN ON THE COMPONENT DRAWINGS WITH RELATED REQUIREMENTS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR CIVIL DRAWINGS FOR THE BUILDING INTO WHICH THE COMPONENT IS BEING INSTALLED.
- WHERE A CONFLICT OCCURS BETWEEN THE NOTES ON THE DRAWINGS, GENERAL NOTES, AND SPECIFIC DETAILS, THE MORE RESTRICTIVE SHALL GOVERN.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1 AND PART 2, 2016 EDITION.
- DO NOT SCALE DRAWINGS.
- VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT ARE NOT CONSIDERED TO BE DETRIMENTAL TO THE COMPONENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND TO PROTECT THEM FROM DAMAGE.
- LATERAL LOADS:  
COMPONENT WEIGHT (Wp)= 900 POUNDS.  
SEISMIC LOAD ON COMPONENT:  
 $S_{Ds} = 1.64$   
 $a_p = 1.0$   
 $I_p = 1.5$   
 $R_p = 1.5$   
 $\Omega_0 = 1.5$   
 $z/h = 0.0$   
 $F_p = 0.74 W_p$   
 $F_v = 0.33 W_p$
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS & ATTACHMENT OF THE EQUIPMENT TO THE STRUCTURE.
- THE DETAILS IN THIS PREAPPROVAL MAY BE USED IN THE STATE OF CA WHERE  $S_{Ds}$  IS LESS THAN OR EQUAL TO 1.64, AND AT GROUND FLOOR LEVEL OR BELOW ( $z/h = 0.0$ )

**RESPONSIBILITIES OF STRUCTURAL ENGINEER OF RECORD (SEOR) FOR THE BUILDING**

- VERIFY THAT ANCHORING SUBSTRATE IS REINFORCED CONCRETE.
- VERIFY THAT THE MINIMUM THICKNESS OF THE CONCRETE IS SUFFICIENT FOR THE EMBEDMENT OF THE POST-INSTALLED ANCHORS.
- VERIFY THE 28 DAY STRENGTH OF THE CONCRETE IS AT LEAST 3000 PSI.
- PROVIDE A SUPPORTING STRUCTURE SUFFICIENT TO SUPPORT THE WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC, AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- VERIFY THAT THE COMBINATION OF  $S_{Ds}$  AND  $z/h$  RESULT IN SEISMIC FORCES ( $F_p, F_v$ ) THAT ARE NOT GREATER THAN THE VALUES INDICATED ABOVE.

**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL CONFORM TO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS (AISC 360-10) ASTM A992, GRADE 50.
- FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECIFICATIONS.
- ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS OTHERWISE NOTED.

**POST-INSTALLED ANCHORS**

- POST-INSTALLED ANCHORS SHALL BE HILTI KB-TZ ANCHORS (ICC #ESR-1917). POST-INSTALLED SEE 2016 CBC & ITS REFERENCE STDS FOR QUALIFICATION DESIGN, USE, INSTALLATION & TESTING OF POST-INSTALLED ANCHORS. WHEN POST-INSTALLED ANCHORS ARE USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TENSION TESTED. THE TENSION TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED UNTIL (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

**TEST VALUES**  
NORMAL OR SAND LIGHTWEIGHT CONCRETE

ANCHOR DIA. (in)	WEDGE		
	TEST LOAD (lbs) SAND LT WT. CONC O/ METAL DECK	TEST LOAD (lbs) NORMAL WT. CONC SLAB ON GRADE	INSTALLATION TORQUE (ft-lbs)
1/2	928	1545	40

**NOTES:**

- ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE AND SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
- APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:  
  
HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE THE WASHER UNDER THE NUT BECOMES LOOSE.
- TESTING SHALL OCCUR A MINIMUM OF 24 HOURS AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR OF RECORD OR APPROVED SPECIAL INSPECTOR. A REPORT OF TEST RESULTS SHALL BE SUBMITTED TO OSHPD.

2. THE FOLLOWING TABLE SETS THE MINIMUM INSTALLATION SPECIFICATION:

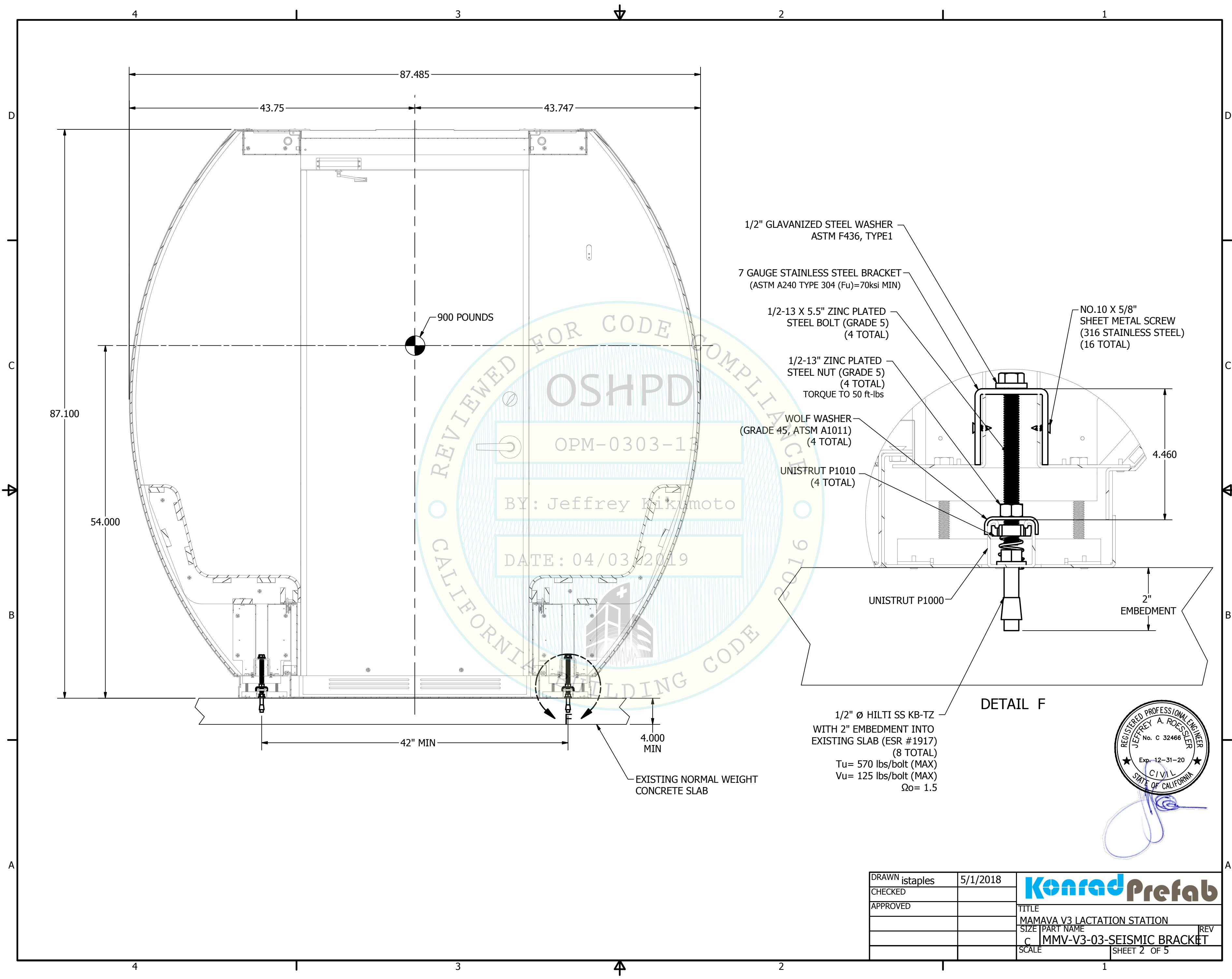
ANCHOR DIA. (in)	WEDGE			
	$h_{ef}$ (in)	MIN. CONC. THICKNESS (in)	MIN. EDGE DISTANCE (in)	MIN. SPACING (in)
1/2	2	4	6	4.125

- WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRE-STRESSED 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.

- PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER



DRAWN istaples	5/1/2018	<b>Konrad Prefab</b>	TITLE	MAMAVA V3 LACTATION STATION			
CHECKED			SIZE	C	PART NAME	MMV-V3-03	REV
APPROVED		SCALE		SEISMIC			
		SHEET 1 OF 5					

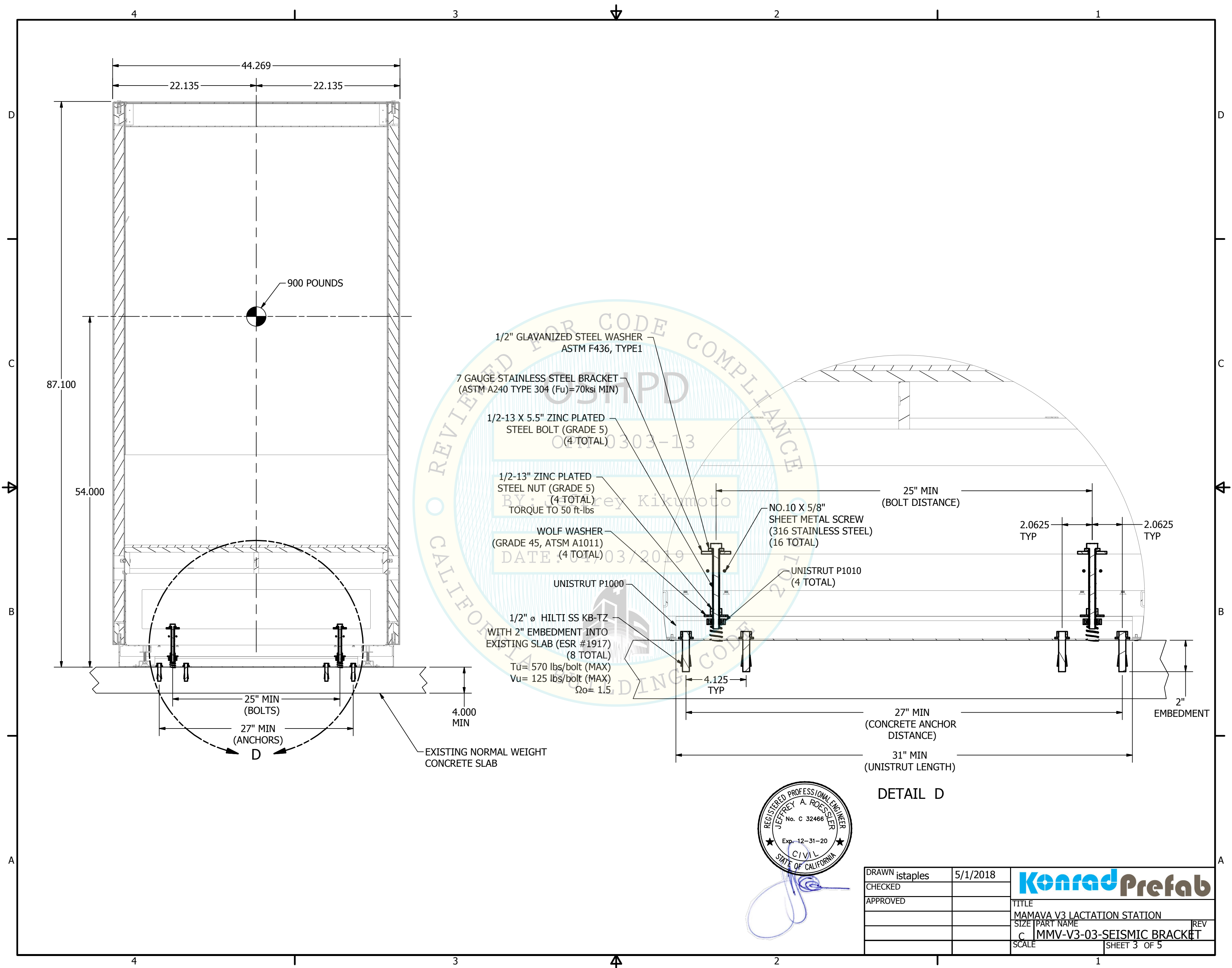


REVIEWED FOR CODE COMPLIANCE  
**OSHDPD**  
 OPM-0303-13  
 BY: Jeffrey Kikumoto  
 DATE: 04/03/2019

- 1/2" GLAVANIZED STEEL WASHER  
ASTM F436, TYPE1
- 7 GAUGE STAINLESS STEEL BRACKET  
(ASTM A240 TYPE 304 (Fu)=70ksi MIN)
- 1/2-13 X 5.5" ZINC PLATED  
STEEL BOLT (GRADE 5)  
(4 TOTAL)
- 1/2-13" ZINC PLATED  
STEEL NUT (GRADE 5)  
(4 TOTAL)  
TORQUE TO 50 ft-lbs
- WOLF WASHER  
(GRADE 45, ATSM A1011)  
(4 TOTAL)
- UNISTRUT P1010  
(4 TOTAL)
- NO.10 X 5/8"  
SHEET METAL SCREW  
(316 STAINLESS STEEL)  
(16 TOTAL)
- 4.460
- 2" EMBEDMENT
- UNISTRUT P1000
- 1/2" Ø HILTI SS KB-TZ  
WITH 2" EMBEDMENT INTO  
EXISTING SLAB (ESR #1917)  
(8 TOTAL)  
Tu= 570 lbs/bolt (MAX)  
Vu= 125 lbs/bolt (MAX)  
Ωo= 1.5



DRAWN	istaples	5/1/2018	<b>Konrad Prefab</b>
CHECKED			
APPROVED			
TITLE			MAMAVA V3 LACTATION STATION
SIZE PART NAME			C MMV-V3-03-SEISMIC BRACKET
SCALE			SHEET 2 OF 5



REVIEWED FOR CODE COMPLIANCE  
 BY: Jeffrey Kikumoto  
 DATE: 04/03/2019

1/2" GLAVANIZED STEEL WASHER  
 ASTM F436, TYPE1

7 GAUGE STAINLESS STEEL BRACKET  
 (ASTM A240 TYPE 304 (Fu)=70ksi MIN)

1/2-13 X 5.5" ZINC PLATED  
 STEEL BOLT (GRADE 5)  
 (4 TOTAL)

1/2-13" ZINC PLATED  
 STEEL NUT (GRADE 5)  
 (4 TOTAL)  
 TORQUE TO 50 ft-lbs

WOLF WASHER  
 (GRADE 45, ATSM A1011)  
 (4 TOTAL)

UNISTRUT P1000

1/2" ø HILTI SS KB-TZ  
 WITH 2" EMBEDMENT INTO  
 EXISTING SLAB (ESR #1917)  
 (8 TOTAL)  
 Tu= 570 lbs/bolt (MAX)  
 Vu= 125 lbs/bolt (MAX)  
 Ωo= 1.5

NO.10 X 5/8"  
 SHEET METAL SCREW  
 (316 STAINLESS STEEL)  
 (16 TOTAL)

UNISTRUT P1010  
 (4 TOTAL)

25" MIN  
 (BOLT DISTANCE)

2.0625  
 TYP

2.0625  
 TYP

4.125  
 TYP

27" MIN  
 (CONCRETE ANCHOR  
 DISTANCE)

31" MIN  
 (UNISTRUT LENGTH)

2"  
 EMBEDMENT

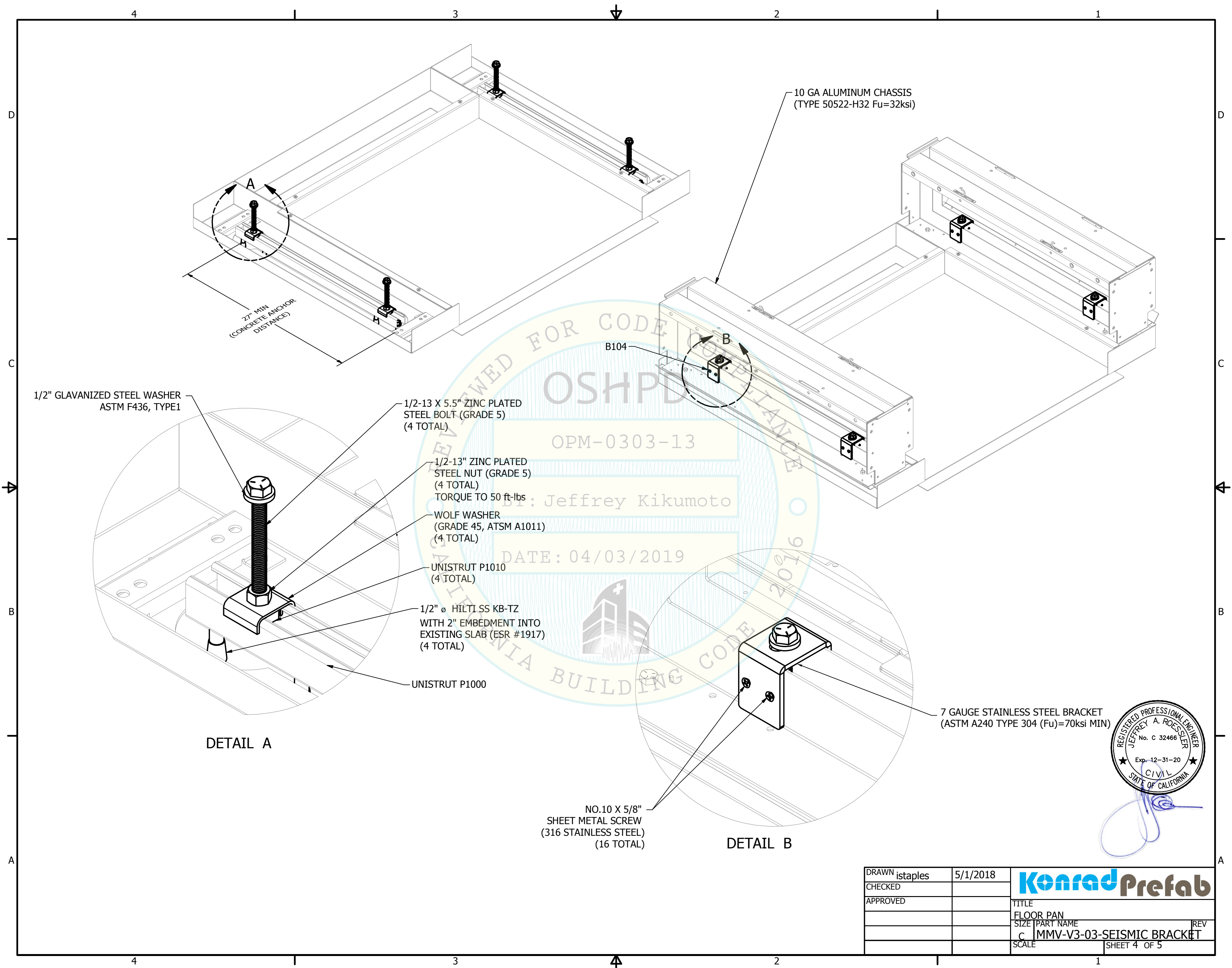
EXISTING NORMAL WEIGHT  
 CONCRETE SLAB

DETAIL D



DRAWN	istaples	5/1/2018
CHECKED		
APPROVED		

		TITLE
		MAMA V3 LACTATION STATION
SIZE	PART NAME	REV
C	MMV-V3-03-SEISMIC BRACKET	
SCALE		SHEET 3 OF 5



10 GA ALUMINUM CHASSIS  
(TYPE 50522-H32 Fu=32ksi)

27" MIN  
(CONCRETE ANCHOR  
DISTANCE)

1/2" GLAVANIZED STEEL WASHER  
ASTM F436, TYPE1

1/2-13 X 5.5" ZINC PLATED  
STEEL BOLT (GRADE 5)  
(4 TOTAL)

1/2-13" ZINC PLATED  
STEEL NUT (GRADE 5)  
(4 TOTAL)  
TORQUE TO 50 ft-lbs

WOLF WASHER  
(GRADE 45, ATSM A1011)  
(4 TOTAL)

UNISTRUT P1010  
(4 TOTAL)

1/2" Ø HILTI SS KB-TZ  
WITH 2" EMBEDMENT INTO  
EXISTING SLAB (ESR #1917)  
(4 TOTAL)

UNISTRUT P1000

DETAIL A

NO.10 X 5/8"  
SHEET METAL SCREW  
(316 STAINLESS STEEL)  
(16 TOTAL)

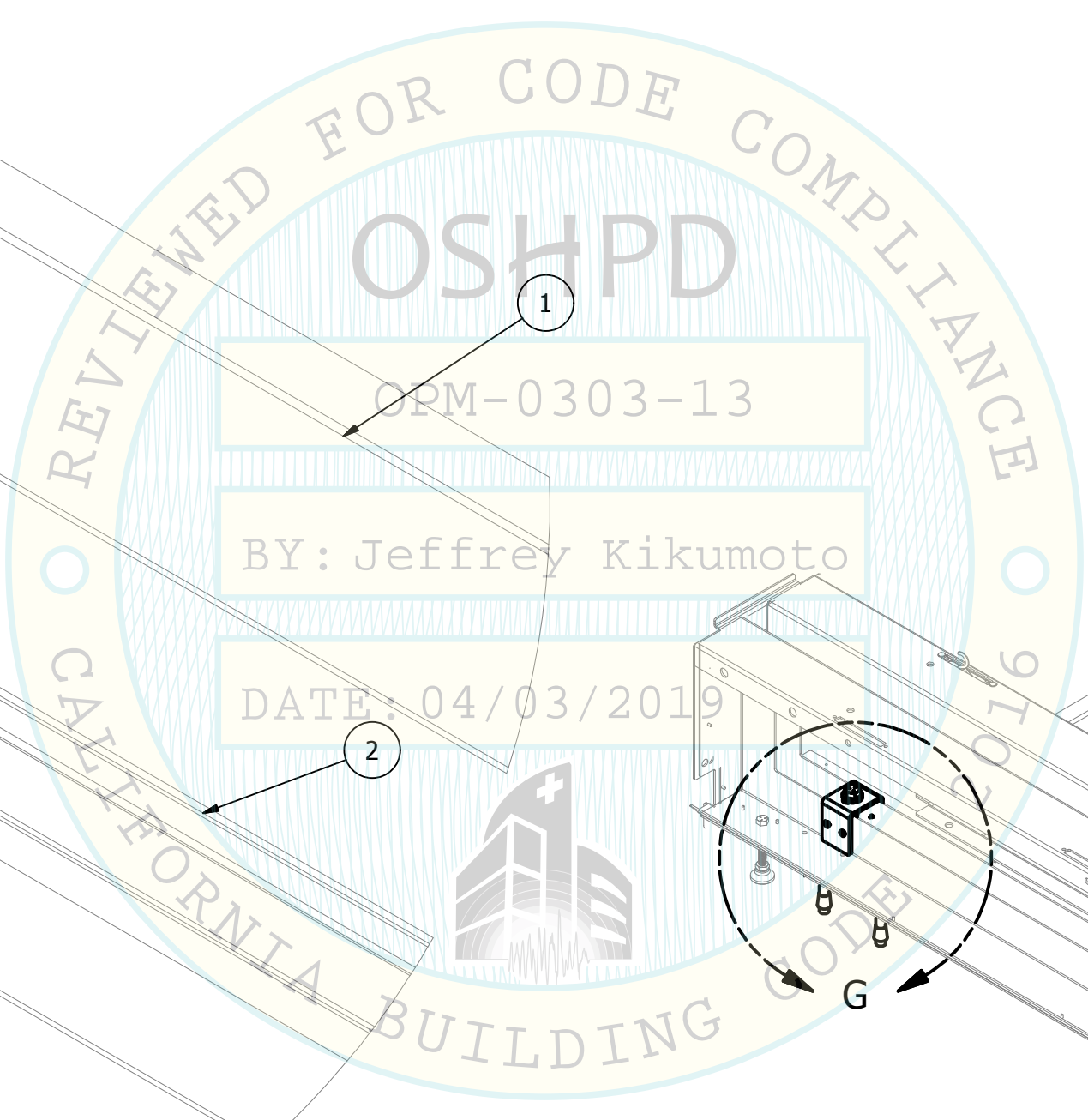
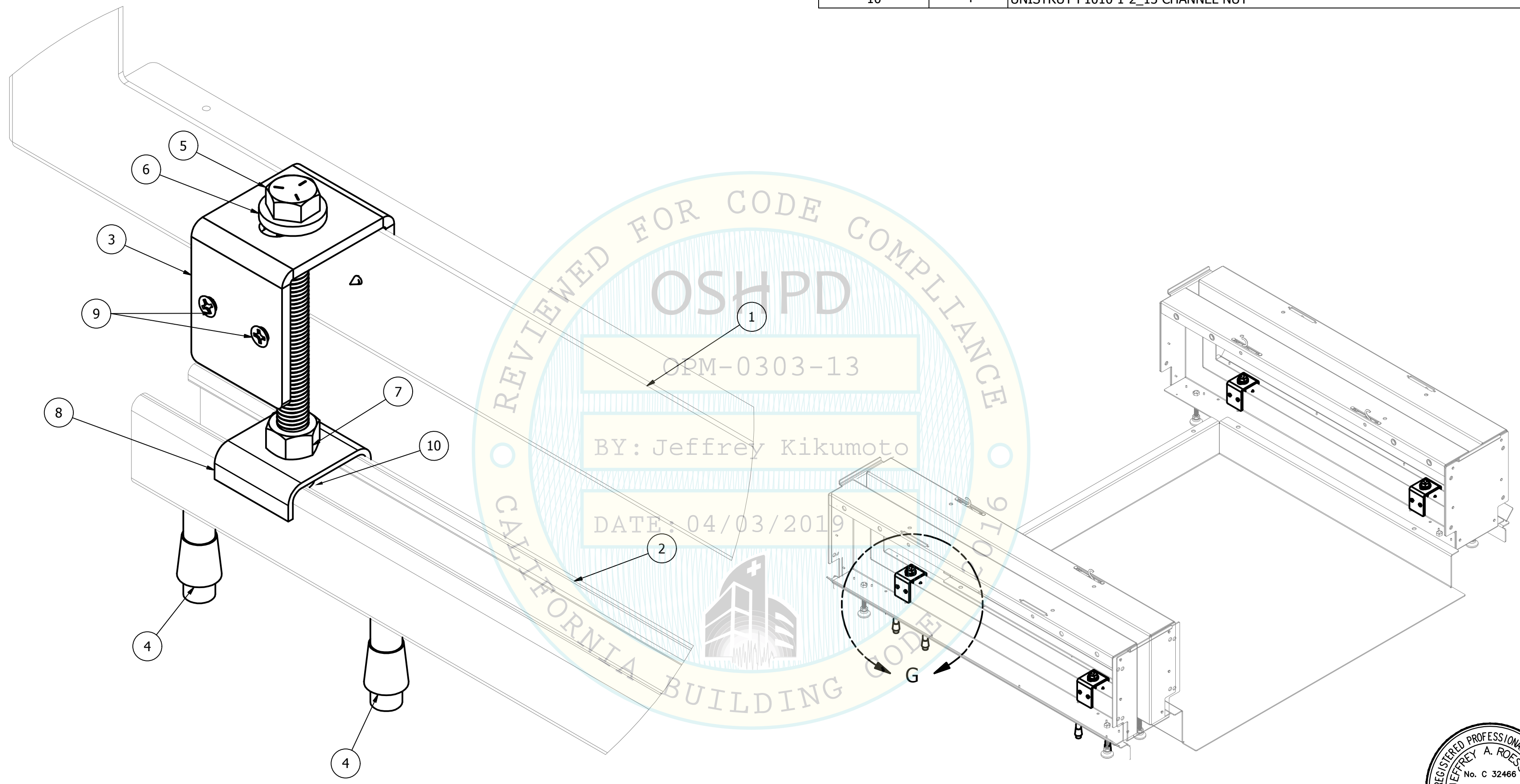
DETAIL B

7 GAUGE STAINLESS STEEL BRACKET  
(ASTM A240 TYPE 304 (Fu)=70ksi MIN)



DRAWN	istaples	5/1/2018	
CHECKED			
APPROVED			
TITLE			FLOOR PAN
SIZE			PART NAME
SCALE			MMV-V3-03-SEISMIC BRACKET
SHEET 4 OF 5			REV

PARTS LIST		
ITEM	QTY	PART NUMBER
1	4	MMV-V3-02-B102
2	2	UNISTRUT-P1000 1-5_8 X 1-5_8 X 31.25in
3	4	MMV-V3-02-B104
4	8	MCMaster 91578A832_1-2 X 2 3-4in STUD ANCHOR
5	4	MCMaster 92865A734_MEDIUM-STRG GRADE 5 ZINC-PLTD STL CAP SCREW 1-2_13 X 5.5in
6	4	MCMaster 98119A033_HOT-DIPPED GALVANIZED STEEL FLAT WASHER 1-2in
7	4	MCMaster 95462A033_ZINC-PLATED GRADE 5 STEEL HEX NUT 1-2_13 (TORQUE TO 50ft-lbs)
8	4	UNISTRUT P3892-50 WOLF WASHER
9	16	MCMaster 90198A306_FLAT HEAD PHILLIPS SCREW No. 10 X .625in
10	4	UNISTRUT P1010 1-2_13 CHANNEL NUT



DETAIL G

DRAWN	istaples	5/1/2018	<b>Konrad Prefab</b>
CHECKED			
APPROVED			
TITLE			MAMAVA V3 LACTATION STATION
SIZE			C PART NAME
SCALE			MMV-V3-03-SEISMIC BRACKET REV
			SHEET 5 OF 5