

APPLICATION FOR OSHPD PREAPPROVAL

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0219-13							
OSHPD Preapproval of Manufacturer's Certification (OPM)							
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:							
Manufacturer Information							
Manufacturer: Belimed, Inc.							
Manufacturer's Technical Representative: Nelson Garrido							
Mailing Address:							
Telephone: 843-216-7424 Email: <u>Onelson.garrido@belimed.com</u>							
Product Information							
Product Name: Ultrasonic Washer OSI JDG							
Product Type: Laboratory Equipment OPM-0219-13							
Product Model Number: 200c, 400, & UW565							
General Description: Floor mounted ultrasonic washers with seismic mounting brackets.							
DATE: 06/25/2015							
Applicant Information							
Applicant Company Name: Belimed, Inc.							
Contact Person: Nelson Garrido							
Mailing Address: 2325 Charleston Regional Pkwy., Charleston, SC. 29492							
Telephone: 843-216-7424 Email: nelson.garrido@belimed.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: 4/1/2015							
Manager of Engineering, Quality Title: and Regulatory Affairs Company Name: Belimed, Inc.							

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations							
Company Makeitright Inc. Name:							
Name: Joseph La Brie California License Number: S3566							
Mailing Address: _55 E. Huntington Drive Ste 277, Arcadia, CA 91006							
Telephone: (626) 445-0366 Email: labrie@makeitright.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 1950-10 ☐ Other* (Please Specify): ☐ Ultrasonic washer does not require special seismic certification. 							
*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							
☐ 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 2013 ONLY							
Signature: Date: 06/25/2015							
Print Name: William Staehlin							
Title: SSE							
Condition of Approval (if applicable):							

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



OSHPD

Page 2 of 2

In fection Control OPM-0219-13 ULTRASONIC WASHER DATE: 06/25/2015 MODELS: 200c, 400, & UW565

OPM-0219-13

TABLE OF CONTENTS

BELIMED, INC. — ULTRASONIC WASHER MODEL NOS. 200c, 400, & UW565

TC-1	TABLE OF CONTENTS
GN-1 GN-2	GENERAL NOTES GENERAL NOTES
1.0 1.1 1.2	MODEL 200c DETAIL MODEL 400 DETAIL MODEL UW565 DETAIL
2.0	SEISMIC MOUNT DETAIL
3.0	ANCHORAGE TO CONCRETE SLAB ON GRADE DETAIL
4.0 4.1	ANCHORAGE TO TYP. "W" DECK DETAIL ANCHORAGE TO TYP. "B" DECK DETAIL





DESIGN PROFESSIONAL PREPARING ENGINEERING RECOMMENDATIONS

JOSEPH L. LA BRIE Structural Engineer No. SE 3566 makeitright
hospital building design professionals
55 E. Huntington Dr., Suite 277
Arcadla, CA 91006
PHN: (626) 4435-0366



PRODUCT:

ULTRASONIC WASHER Models.: 200c, 400, & UW565

PAGE TITLE:

TABLE OF CONTENTS

DATE: 04/01/15

TC-1

GENERAL NOTES

- THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CALIFORNIA BUILDING CODE (CBC). THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 CALIFORNIA BUILDING CODE (CBC).
- 2. SITE VERIFICATION IS REQUIRED. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE AREA(S) OF WORK PRIOR TO THE BEGINNING OF THE PROJECT. DO NOT SCALE THE DRAWINGS; ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED, IMMEDIATELY, IF ANY DISCREPANCIES ARE FOUND.
- 3. DESIGN CRITERIA:
 - a.) SLAB ON GRADE

 $S_{DS}=2.5$ MAX.; I = 1.5 ; z/h=0 (GROUND OR SLAB ON GRADE) <u>UPPER FLOOR</u> $S_{DS}=2.5$ MAX. ; I = 1.5 ; z/h <= 1 (UPPER FLOOR)

- b.) PER ASCE 7-10 INCLUDING SUPPLEMENT NO. 1 & TABLE 13.6-1 : $\Omega_P = 1.0$; $R_P = 1.5$; $\Omega_O = 1.5$ (APPLY Ω_O FACTOR FOR ANCHORAGE TO CONCRETE)
- 4. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM.
- 5. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL:
 - a. CHECK THAT THE EXISTING/NEW STRUCTURE WILL BE ABLE TO SUPPORT THE MAXIMUM WEIGHTS/FORCES SHOWN IN ADDITION TO ANY OTHER LOADS TO THE STRUCTURE. PROVIDE STRENGTENING OF STRUCTURE AS REQUIRED.
 - b. CHECK THAT THE FLOOR OR DECK ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. ALL MINIMUM EDGE DISTANCE AND SPACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC REPORT FOR THE SPECIFIC ANCHORS USED ON THIS OPM. (SEE TABLE ON NEXT PAGE FOR ANCHOR MINIMUM SPACING & EDGE DISTANCE REQUIREMENTS)
 - c. CHECK THAT THE INSTALLATION, SUPPORT AND ATTACHMENTS OF THE UNIT COMPLIES WITH THE 2013 CALIFORNIA BUILDING CODE AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL.
 - d. VERIFY THAT THE ACTUAL EQUIPMENT'S MODEL NUMBER, OPERATING WEIGHT, CENTER OF GRAVITY (C.G.)

 LOCATION, ANCHOR LAYOUT, MATERIAL & ASTM GRADE OF THE EQUIPMENT IS THE SAME SHOWN ON THIS OPM PREAPPROVAL.
 - e. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND z/h VALUES RESULT IN SEISMIC FORCES DOES NOT EXCEED THE VALUES SHOWN ON THIS OPM.



DESIGN PROFESSIONAL PREPARING ENGINEERING RECOMMENDATIONS:

JOSEPH L. LA BRIE Structural Engineer No. SE 3566



Belived

Infection Control

ULTRASONIC WASHER Models.: 200c, 400, & UW565

PAGE TITLE:

GENERAL NOTES

DATE: 04/01/15

GN-1

GENERAL NOTES (CONTINUED)

6. EXPANSION ANCHORS SHALL BE HILTI KB-TZ ANCHORS (PER ICC-ESR-1917 DATED AUGUST 2014) AND INSTALLED IN NORMAL WEIGHT CONCRETE & SAND LIGHT WEIGHT CONCRETE (AT UNDERSIDE OF DECK) WHERE OCCURS. CARBON STEEL FOR INDOOR APPLICATIONS. MINIMUM EMBEDMENT OF ALL BOLTS AND TEST LOADS (UNLESS NOTED OTHERWISE ON DETAIL):

TEST LOADS FOR HILTI KB—TZ EXPANSION ANCHORS

(f'c = 3000 PSI MIN.) INSTALLED TO N.W. CONCRETE SLAB & SAND L.W. CONCRETE AS OCCURS

		MIN. EFFECTIVE	MIN. ANCHOR	MIN. EDGE	INSTALLATION
BOLT SIZE	APPLICATION	EMBEDMENT	SPACING	DISTANCE	TORQUE (LBSFT.)
3/8"ø	UNDERSIDE OF DECK	2"	6"	6"	25
1/2 " ø	TOP OF SLAB ON GRA	DE 2"	6"	6 "	40

- WHEN INSTALLING DRILLED—IN ANCHORS IN EXISTING NON—PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED—IN ANCHOR.
- b. AFTER A MIN. OF (24) HRS. HAVE ELAPSED, ALL POST INSTALLED ANCHORS (LOADED IN EITHER PULL OUT OR SHEAR) SHALL BE TORQUED OR TENSION TESTED. WHEN POST—INSTALLED ANCHORS ARE USED FOR NON STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE—HALF THE ANCHORS IN EACH GROUP SHALL BE TESTED. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.
- c. 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 WASHER UNDER THE NUT BECOMES LOOSE. FOR ADHESIVE ANCHORS, WHERE OTHER THAN BOND IS BEING TESTED, THE DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE TYPE FAILURE MECHANISM FROM OCCURING.

TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE—HALF (1/2) TURN OF THE NUT

- d. OWNER'S REPRESENTATIVE IS RESPONSIBLE FOR ALL ANCHOR TESTING.
- e. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR OF RECORD AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY.
- 7. BOLTS THROUGH CONCRETE ON METAL DECK:
 - a. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE NUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
 - b. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE
 - c. THROUGH—BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST—INSTALLED ANCHORS.





Belived

Infection Control

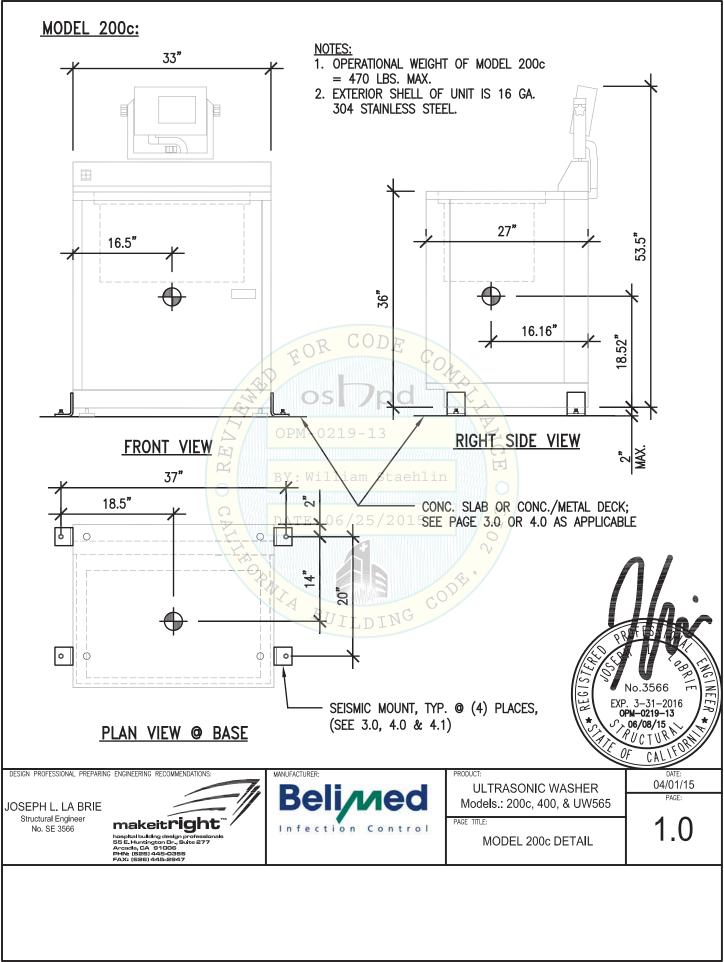
ULTRASONIC WASHER Models.: 200c, 400, & UW565

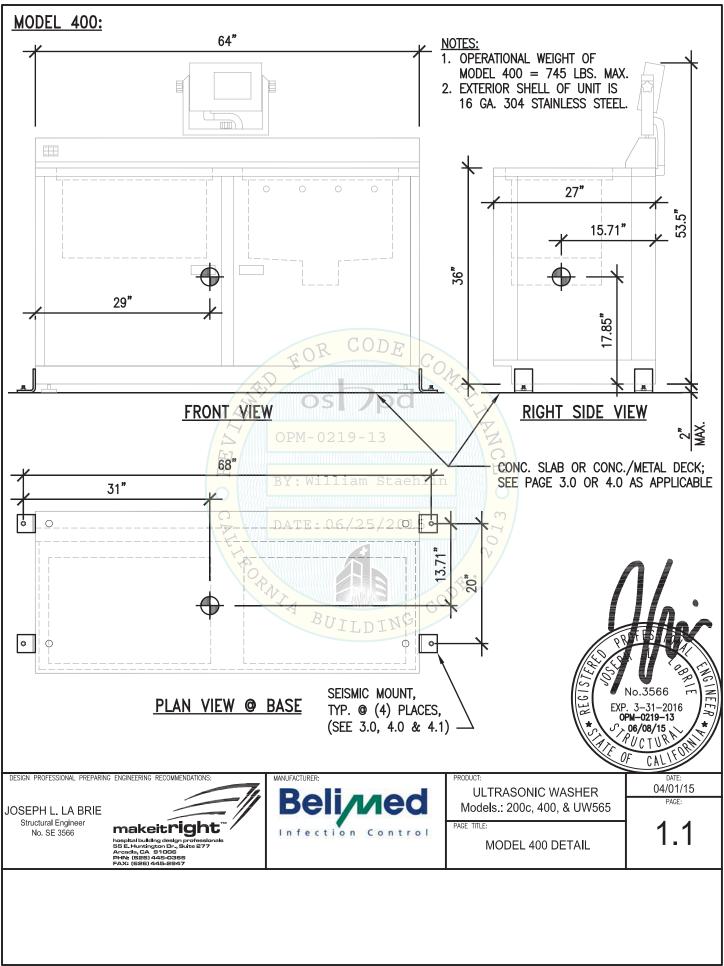
PAGE TITLE

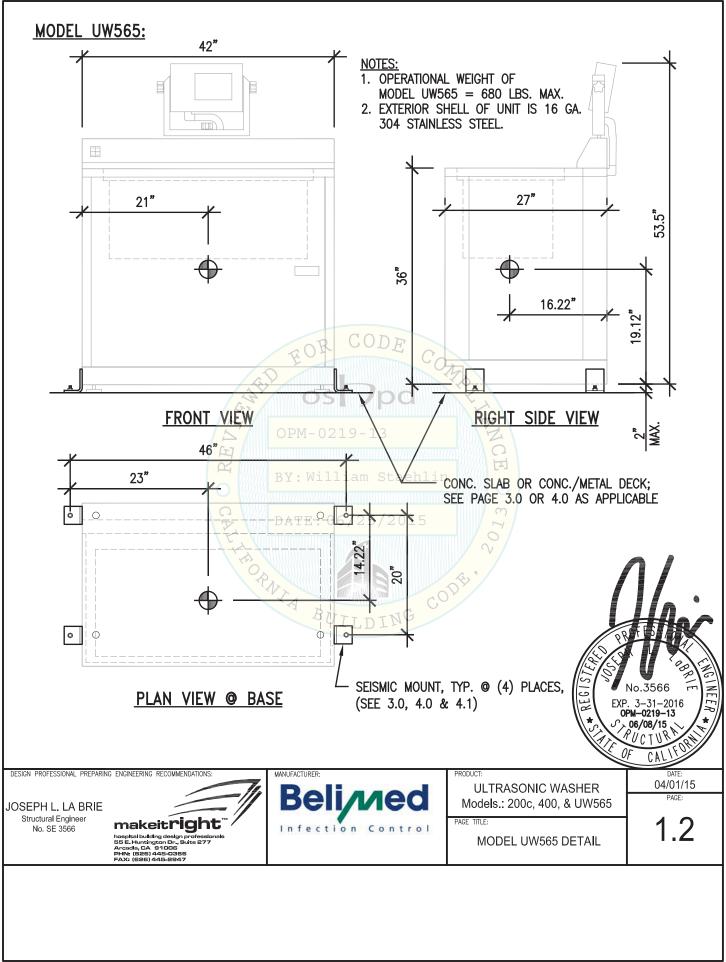
GENERAL NOTES

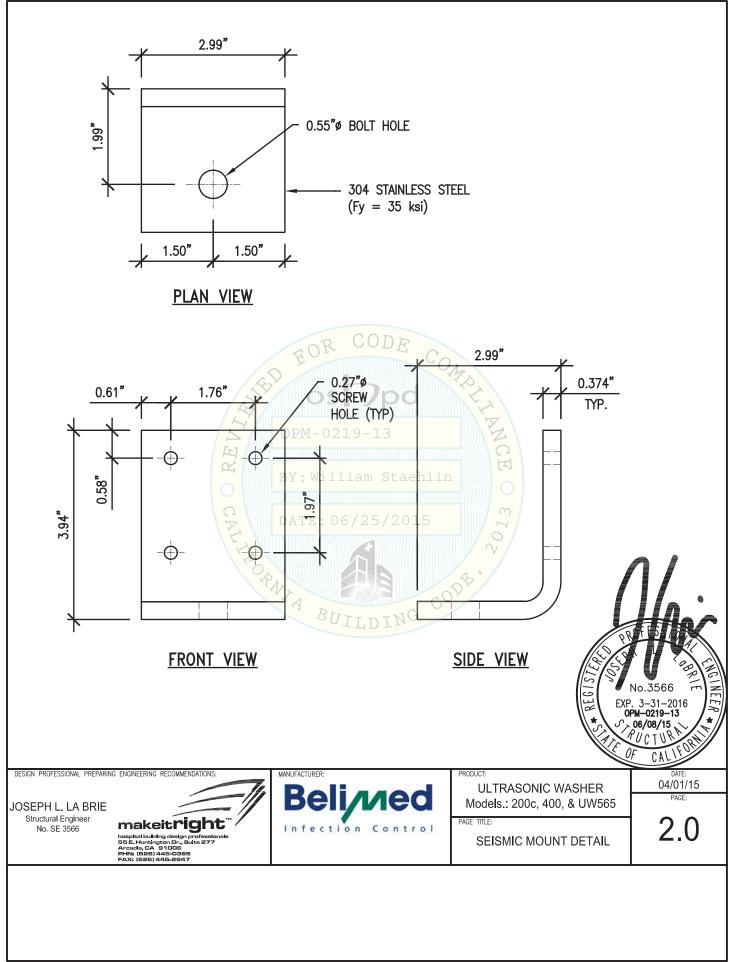
04/01/15

GN-2

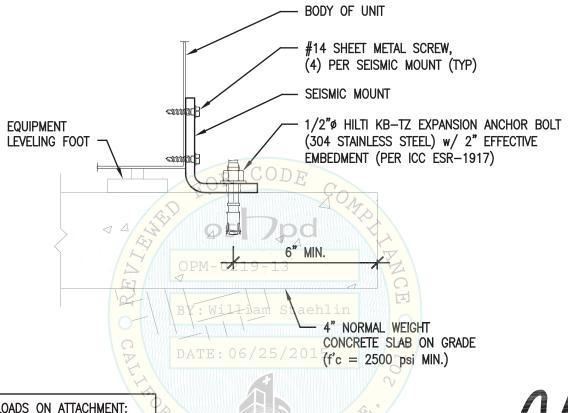








SLAB ON GRADE ANCHORAGE (z/h = 0):



MAX. LOADS ON ATTACHMENT:

 $\Omega_o T_u = 681$ LBS. $\Omega_{\rm o}V_{\rm u} = 469 \text{ LBS}$



DESIGN PROFESSIONAL PREPARING ENGINEERING RECOMMENDATIONS JOSEPH L. LA BRIE Structural Engineer No. SE 3566

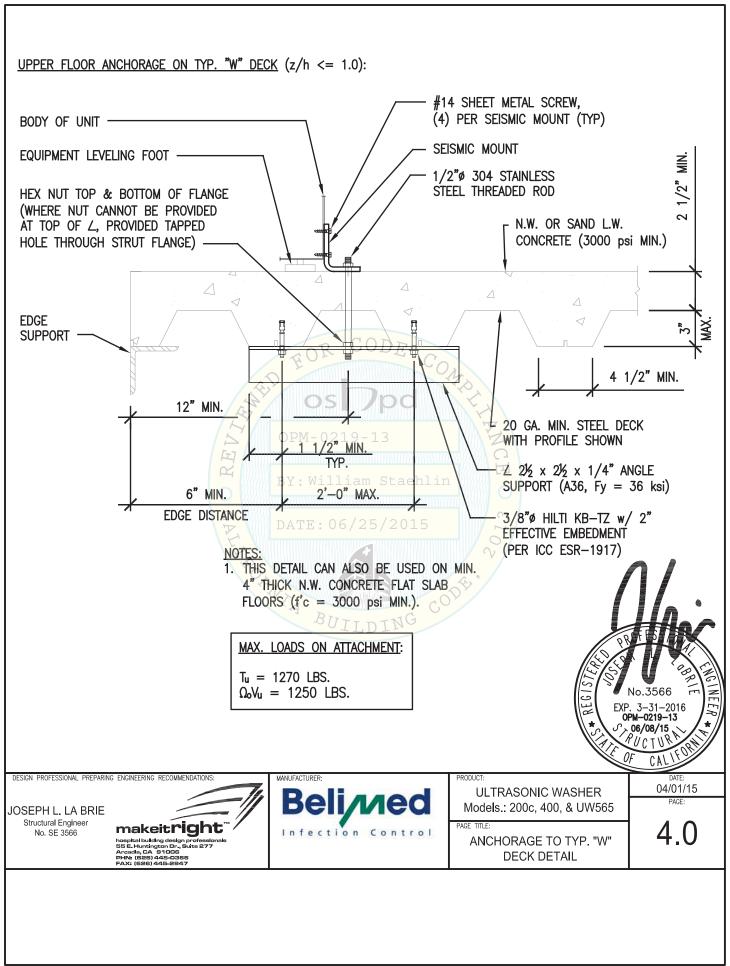
Beli/ued Infection Control

ULTRASONIC WASHER Models.: 200c, 400, & UW565

ANCHORAGE TO CONCRETE SLAB ON GRADE DETAIL

04/01/15

3.0



<u>UPPER FLOOR ANCHORAGE ON TYP. "B" DECK</u> (z/h <= 1.0):

