

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAP	PROVAL OF	OFFICE USE ONLY			
MANUFACTURER'S CERTIFICATIO	APPLICATION #: OPM-0487				
OSHPD Preapproval of Manufacturer's Certif	ication (OPM)				
Type: New X Renewal/Update					
Manufacturer Information					
Manufacturer: Steris					
Manufacturer's Technical Representative: James Ev	rerette				
Mailing Address: 6100 Heisley Road, Mentor, OH 44	4060				
Telephone: (440) 392-7966	mail: james_everett@steri	s.com			
	EOR CODE COM				
Product Information	OSHPD	₹ <u></u>			
Product Name: REPROCESSING SINK		Y Z			
Product Type: Reprocessing Sink	OPM-0487	C			
Product Model Number: 50120, 50106, 30120, 3010	06, 5097, 5096, 5077, 3097,	3096, 3077			
General Description: Adjustable and Fix Height Rep	processing Sink				

Applicant Information

Applicant Company Name: ISAT SEISMIC BRACING

Contact Person: WILLIAM JOERGER

Mailing Address: 14848 Northam Street, La Mirada, CA 90638

Telephone: (714) 920-6066 Email: wvjoerger@isatsb.com

Title:

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations								
Company Name: ISAT SEISMIC BRACING								
Name: WILLIAM JOERGER California License Number: S4545								
Mailing Address: 14848 Northam Street, La Mirada, CA 90638								
Telephone: (714) 920-6066 Email: wvjoerger@isatsb.com								
OSHPD Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
Contidination Mathead								
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, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing. BY: Haeseong Lim								
X Analysis								
Experience Data DATE: 11/17/2020								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
CODE CODE								
OSHPD Approval BUILDING								
Date: 11/18/2020								
Name: Haeseong Lim Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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









Innovation • Engineering • BIM • Fabrication

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Submittal Documents

OSHPD OPM-0487

INSTALLATION DRAWINGS
REPROCESSING SINKS

STERIS

BUILDING

ISAT 1020 Crews Road Suite Q Matthews, N.C. 28105 704-841-4080 S 4545

EXP. 06/30/2022

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SAPUCTURA

OF CALIFORNIA

Wy 2300, 20

FILE NO.: CLT-1418-030 CBC 2019 "Empowered by Experience"

REV 4



OSHPD OPM-0487

DRAWING INDEX

DRAWING INDEX Cover Page OPM-0487 рi Index Page рii **General Notes** p 1 Attachment Notes p 2 Seismic Restraint Attachment at Grade p 3 Seismic Restraint Attachment at Elevated Floors p 4 **Bracket** p 5 **Dimensions and Forces** p 6

"Empowered by Experience" FILE NO.: CLT-0418-030 CBC 2019

Index Rev 4

OSHPD OPM-0487

MANUFACTURE: STERIS

EQUIPMENT TYPE: REPROCESSING SINK

GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. SEISMIC CRITERIA USED: $S_{DS} = 2.50$. $I_p = 1.5$ ap = 1.0 Rp = 2.5. FOR z/h = 0 FpH = 1.13 AND FOR $z/h \le 1.0$ FpH = 1.80 AND FpV = 0.50. SEE PAGE "DIM & FORCES".
- 3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-16 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR $\Omega 0 = 2.0$ IS USED FOR CONCRETE MATERIALS PER ASCE 7-16 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER ASCE 7-16 SECTION 12.4.3.2.
- 4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 5. STEEL MATERIALS: BRACKET AISI TYPE 304 STAINLESS STEEL (Fy = 31.2 KSI) AND THROUGH BOLTS ASTM F593C (Fu = 100 KSI AND Fy = 60 KSI) OR A193 B8 (Fu = 75 KSI AND Fy = 30 KSI).
- 6. CONCRETE SLABS:
 - a. FOR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 4000 PSI MINIMUM STRENGTH.
 - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 4 1/2 INCH MINIMUM BOTTOM FLUTE WIDTH AND MINIMUM FLUTE SPACING OF 12", WITH 3 1/4 INCH SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 4000 PSI MINIMUM c. FOR SLAB ON GRADE: 6" THICKNESS NORMAL WEIGHT CONCRETE AT 3000 PSI MINIMUM STRENGTH.
- 7. POST-INSTALLED CONCRETE ANCHORS: HILTI HIT-HY 200 + HAS-R 316 (ESR-3187) STAINLESS STEEL 1/2" DIAMETER x 3" MIN. HOLE DEPTH FOR 2 3/4" EFFECTIVE EMBEDMENT FOR SLAB ON GRADE AND 4" MIN. HOLE DEPTH FOR 3 3/4" EFFECTIVE EMBEDMENT FOR SOLID ELEVATED SLABS SUPPLIED BY INSTALLATION CONTRACTOR. FOR POST INSTALLED ANCHORS IN THE SOFFITT OF METAL DECK SLABS USE HILTI TZ (ESR-1917) 0.50" x 3.25" EFFECTIVE EMBEDMENT WITH 40 FT-LBS INSTALLATION TORQUE.

8. EXCERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR TENDONS.

BY: Haeseong Lim

DATE: 11/17/2020

OPM-0487 STERIS REPROCESSING SINKS GENERAL NOTES



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DRAWN BY: WVJ DATE: 05/03/18

REVISED BY: WVJ DATE: 10/23/20 REV NO: 4

SCALE N.T.S. PAGE GEN NOTES

OSHPD OPM-0487

MANUFACTURE: STERIS

EQUIPMENT TYPE: REPROCESSING SINKS

ATTACHMENT NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. PERIODIC SPECIAL INSPECTION PER CBC 2019 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2019 CALIFONIA BUILDING CODE SECTION 1910A.5.5 FOR ADHESIVE ANCHORS. TENSION TESTING BY HYDRAULIC RAM METHOD SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR; TENSION TEST LOAD = 3150 POUNDS. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. IF ANY ANCHOR FAILS TEST ALL ANCHORS. TESTING AND INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY THE FACILITY OWNER PER CBC 1704A AND 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE. THE SEOR SHALL PROVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS. FOR THROUGH BOLTS MARK THE NUT LOCATION AT SNUG TIGHT CONDITION. INSPECTOR IS TO VERIFY 3/4 TURN FROM THE SNUG TIGHT CONDITION.
- 3. STRENGTH DESIGN WAS USED FOR ANCHOR FORCE CALCULATIONS INCLUDING Ω_0 PER ACI 318-14 WHERE REQUIRED FOR ATTACHMENT TO CONCRETE.
- 4. PROVIDE FOR FULL THREAD ENGAGEMENT OF THE NUT AND WASHER.

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
- 2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
- CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
- 4. VERIFY THAT THE EXISITING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- 5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2019 AND WITH THE OPM-0487 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN.
- 6. VERIFY THAT THE PROJECT SPECIFIC S_{DS} AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND Ev) DO NOT EXCEED THE VALUES SHOWN IN THESE DETAILS.

OPM-0487 STERIS REPROCESSING SINKS ATTACHMENT NOTES



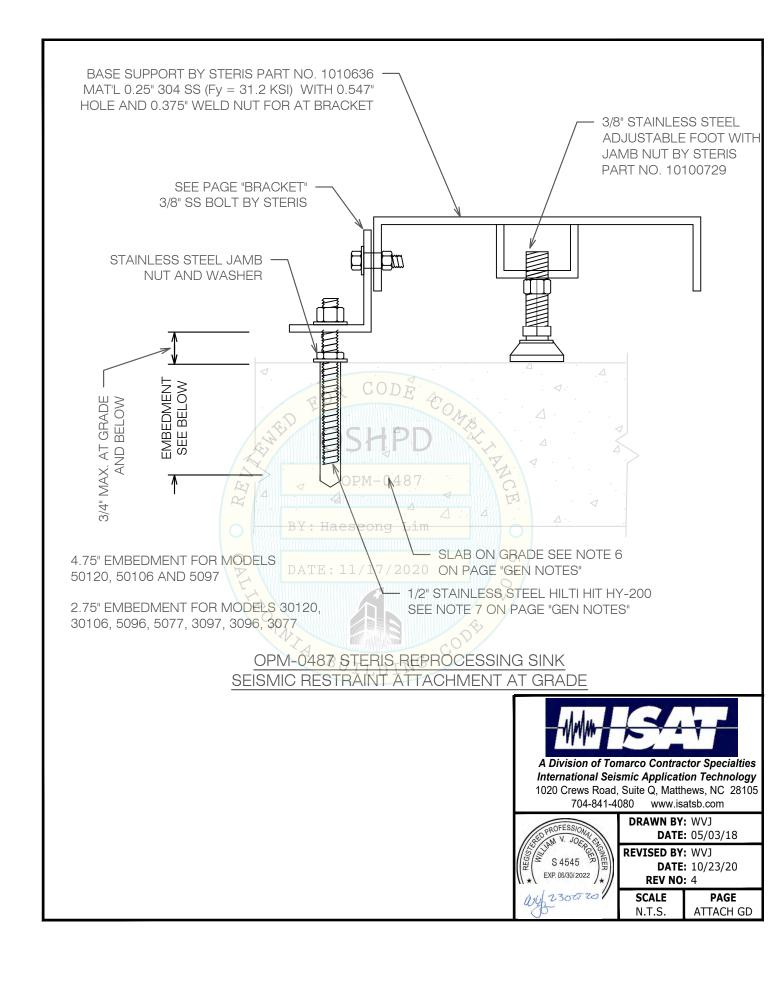
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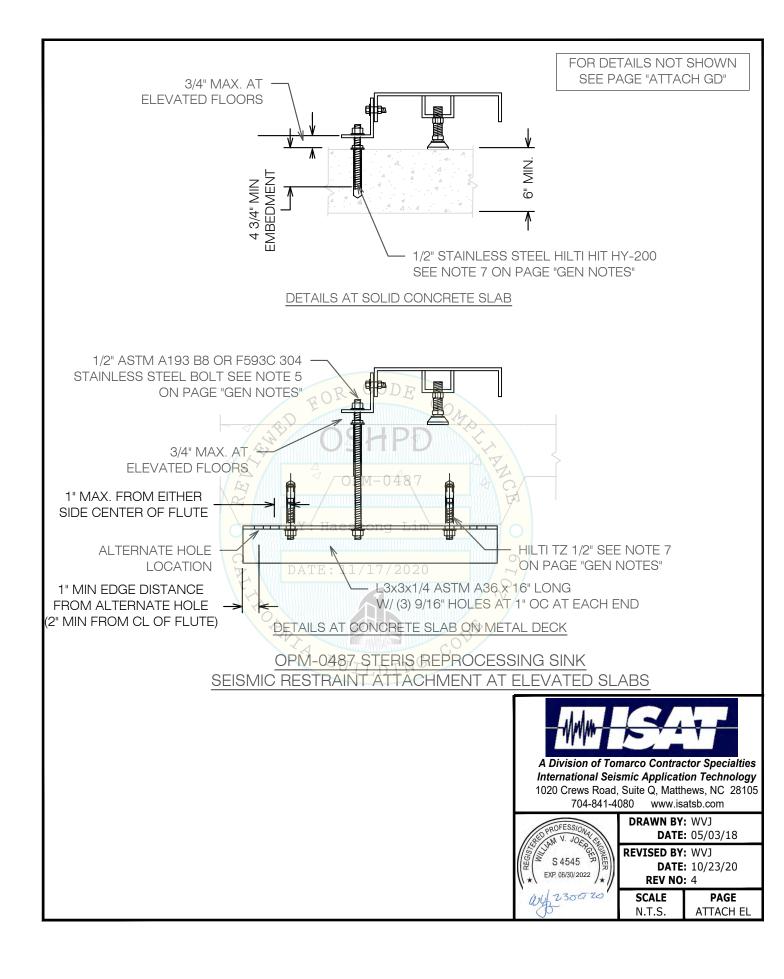


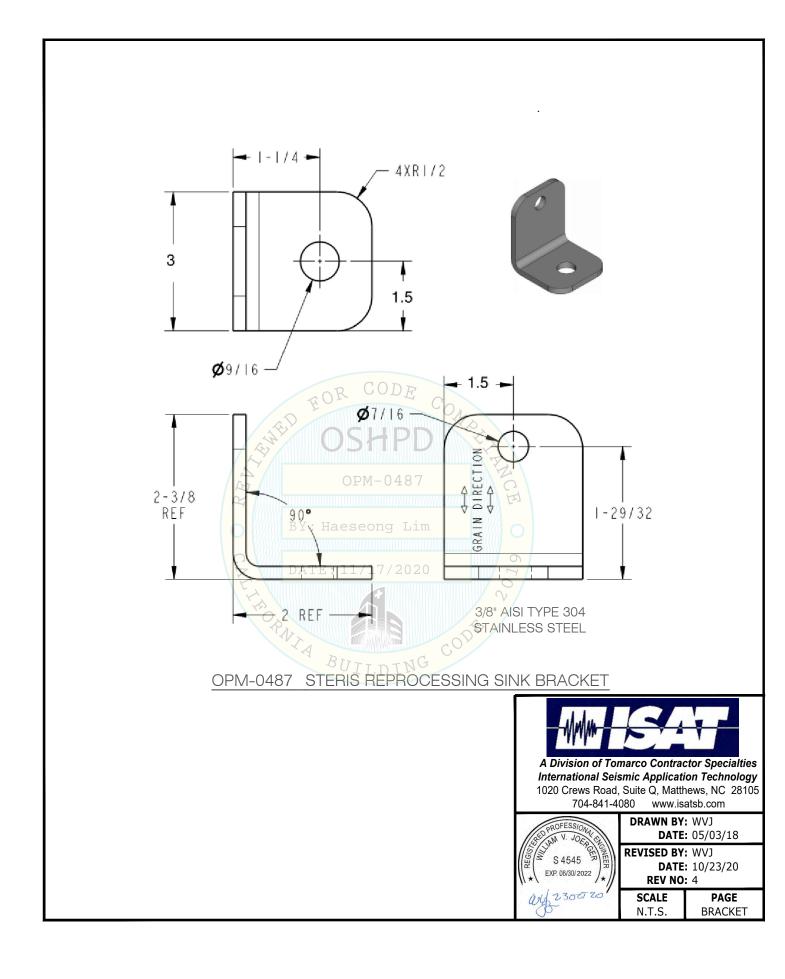
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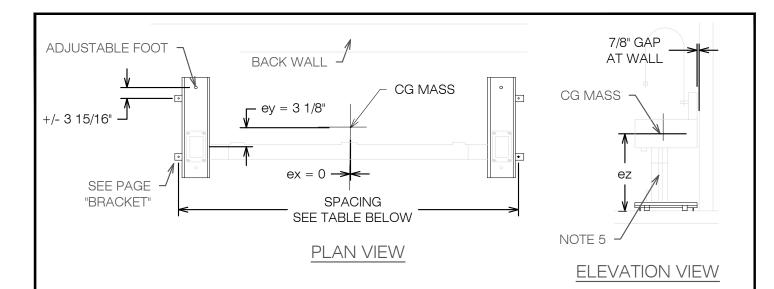
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SCALE N.T.S. PAGE ATTACH NOTES









Equipment Data			Anchor	Equipment Eccentrícies		Seismic Design Forces at Grade		Seismic Design Forces at Elevated		
Model Series	Weight (lbs.)	Water (lbs.)	Spacing	S _{os} Grade	S _{DS} Elev	ez (in)	Vu (lbs.)	Tu (lbs.)	Vu (lbs.)	Tu (lbs.)
50120	490	470	95.063	2.50	2.20	34.9	542	2,107	758	3,051
50106	450	470	95.063	2.50	2.20	3479	520	2,019	727	2,924
30120	450	470	95.063	2.50	2.50	28.8	520	1,622	828	2,734
30106	420	470	95,063	2.50	2.50	28.8	503	1,569	801	2,644
5097	380	470	95.063	2.50	2.50	34,9	480	1866	765	3,310
5096	375	313	64.094	2.50	2.50	34.9	389	1,511	619	2,518
5077	335	313	64.094	2.50	2.50	34.9	366	1,423	583	2,372
3097	350	470	95.063	2.50	2,50	28.8	463	1,446	738	2,436
3096	345	313	64.094	2.50	2.50	28.8	372	1,161	592	1,956
3077	305	313	64.094	2.50	2.50	28.8	349	1,090	556	1,837

- WEIGHTS AND MOMENTS ARE FACTORED LOADS USING STRENGTH DESIGN AND INCLUDE THE FOLLOWING FACTORS: DL = 0.9, FpH AT GRADE = 1.13, FpH ELEVATED = 1.80 (FpH ELEVATED = 1.58 FOR TAG NO 50120 AND 50106) AND FpV = 0.50.
- 2. FORCES ARE AT STRENGTH DESIGN LEVEL AND INCLUDE A CONCRETE OVERSTRENGTH FACTOR Ω_0 = 2.0.
- 3. WATER WEIGHT FOR BASINS = 470 POUNDS FOR (6) BASINS AND 313 POUNDS FOR (2) BASINS BASED ON 85% FULL.
- 4. MAXIMUM VERTICAL ECCENTRICITY (ez) IS USED FOR ALL MODELS.
- 5. LINAK DL2 ADJUSTABLE LEGS (SUPPLIED AND MOUNTED TO THE BASE BY STERIS) ARE USED FOR MODELS 50120, 50106, 5097, 5096 AND 5077. TOP
 OF BASIN IS TO BE 41 INCHES OR LESS FROM THE FLOOR. HEIGHT IS HELD IN POSITION BY THE ADJUSTMENT MOTOR; MECHANICAL LOCKING
 DEVICES ARE NEEDED. FIXED HEIGHT MODELS 30120, 30106, 3097, 3096 AND 3077 HAVE SHOP ASSEMBLED VERTICAL LEGS FABRICATED FROM
 197 mm x 147 mm x 5 mm 6061 ALUMINUM (SUPPLIED AND MOUNTED TO THE BASE BY STERIS).

OPM-0487 STERIS REPROCESSING SINKS DIMENSIONS AND ANCHORAGE FORCES



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PAGE DIM & FORCES