

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| and the contract of the contra | | | | |
|--|---|------------|--|--|
| APPLICATION FOR OSHPD P | OFFICE USE ONLY APPLICATION #: OPM-0558 | | | |
| MANUFACTURER'S CERTIFIC | | | | |
| OSHPD Preapproval of Manufacturer's | s Certification (OPM) | | | |
| Type: X New Renewal/Update | | | | |
| Manufacturer Information | | | | |
| Manufacturer: Sterilis Solutions | | | | |
| Manufacturer's Technical Representative: D | uane Delfosse | | | |
| Mailing Address: 85 Swanson Road, Suite 3 | 310, Boxborough, MA 01719 | | | |
| Telephone: (508) 875-1070 | Email: ddelfosse@sterilissol | utions.com | | |
| | EOR CODE COM | | | |
| Product Information | OSHPD | | | |
| Product Name: MODEL 3000 WASTE PRO | CESSOR | Z | | |
| Product Type: Other Mechanical or Electric | al Component | CE | | |
| Product Model Number: 3000 | BY: Haeseong Lim | | | |
| General Description: Medical Waste Dispos | al | | | |
| ALL | DATE: 04/29/2021 | 2018 | | |
| Applicant Information | | | | |
| Applicant Company Name: EASE LLC. | (00) | <u> </u> | | |
| Contact Person: Tiffany Tonn | BUILDING | | | |

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

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





Telephone: (406) 541-3273

Title:

Email: tiffany@easeco.com



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| Registered Design Professonal Preparing Engineering Recommendations | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Company Name: EASE | | | | | | | | |
| Name: Jonathan Roberson California License Number: S4197 | | | | | | | | |
| Mailing Address: 5877 Pine Ave., Suite 210, , Chino Hills, CA 91709 | | | | | | | | |
| Telephone: 909-606-7622 Email: J.Roberson@EASECo.com | | | | | | | | |
| | | | | | | | | |
| OSHPD Special Seismic Certification Preapproval (OSP) | | | | | | | | |
| Special Seismic Certification is preapproved under OSP OSP Number: | | | | | | | | |
| | | | | | | | | |
| OR CODE | | | | | | | | |
| Certification Method | | | | | | | | |
| Testing in accordance with: | | | | | | | | |
| 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. | | | | | | | | |
| X Analysis | | | | | | | | |
| Experience Data DATE: 04/29/2021 | | | | | | | | |
| Combination of Testing, Analysis, and/or Experience Data (Please Specify): | | | | | | | | |
| CPN COST | | | | | | | | |
| OSHPD Approval | | | | | | | | |
| Date: 4/29/2021 | | | | | | | | |
| Name: Haeseong Lim Title: Senior Structural Engineer | | | | | | | | |
| Condition of Approval (if applicable): | | | | | | | | |

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5877 Pine Ave, Ste. 210 Chino Hills, CA. 91709 Phn: (909) 606-7622

Date: 4/26/21

Office of Statewide Health Planning and Development

PREAPPROVAL OF MANUFACTURER'S CERTIFICATION OPM-0558

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: STERILIS Sheet: 1 of 10

EQUIPMENT NAME: MODEL 3000 WASTE PROCESSOR

GENERAL NOTES

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC
- 2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- 3. THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 0.90 & 1.40.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
 - WHERE SDS = 1.40, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_o
 - WHERE SDS = 0.90, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0.AT CONCRETE SLAB & $z/h \le 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_0
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.



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STERILIS

MODEL 3000 WASTE PROCESSOR

DES. J. ROBERSON

11-1927 JOB NO.

4/26/21 DATE

SHEET

SHEETS

10. EXPANSION ANCHORS:

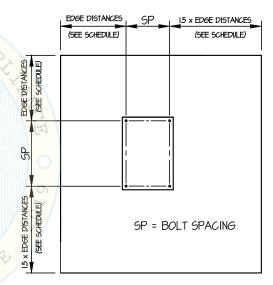
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

| Anchor Diameter | Concrete Type | Min. f'c (psi) | Anchor Type | ICC Report No. | Min. Embed. | Min. Spacing | Min. Edge Dist. | Min. Conc. Thickness | Torque Test | Direct Tension Test |
|-----------------|----------------------|-------------------|---------------------|-------------------|----------------|-----------------|--------------------|-------------------------|----------------|------------------------|
| 3/8" | Sand Light Weight | 3000 | Hilti Kwik Bolt TZ2 | ESR-4266 | 2" | 6.75" | 12" | See Detail "A" | 25 FT-LB | N/A |
| 1/2" | Normal Weight | 3000 | Hilti Kwik Bolt TZ2 | ESR-4266 | 2" | 6" | 14" | 4" | 40 FT-LB | 1983 lb |
| 1/2" | Normal Weight | 3000 | Hilti Kwik Bolt TZ2 | ESR-4266 | 3.25" | 7.5" | 24" | 6" | 40 FT-LB | 2940 lb |

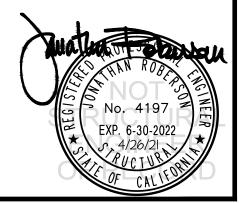
- THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12 & 24" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149, ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.
 - (ii) ACCEPTANCE CRITERIA:
 - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE NUT
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

11. BOLTS THROUGH CONCRETE ON METAL DECK

- A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-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.



TYPICAL CONCRETE EDGE DETAIL



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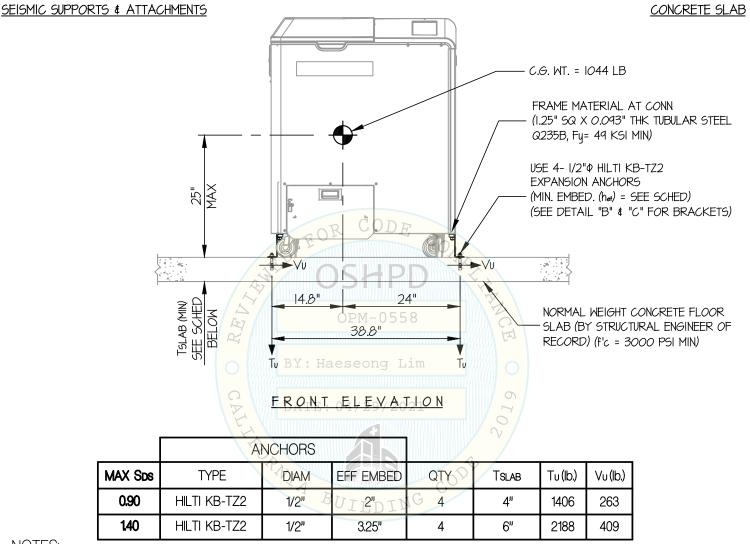
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SHEET

OF 10 SHEETS

MODEL 3000 WASTE PROCESSOR

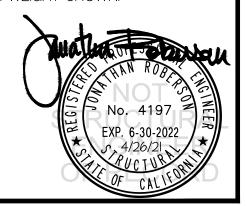


NOTES:

1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16

STRENGTH DESIGN IS USED. (ap = 1.0, lp = 1.5, Rp = 1.5, Ω_0 = 1.5, z/h = 0)

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.



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STERILIS

SEISMIC SUPPORTS & ATTACHMENTS

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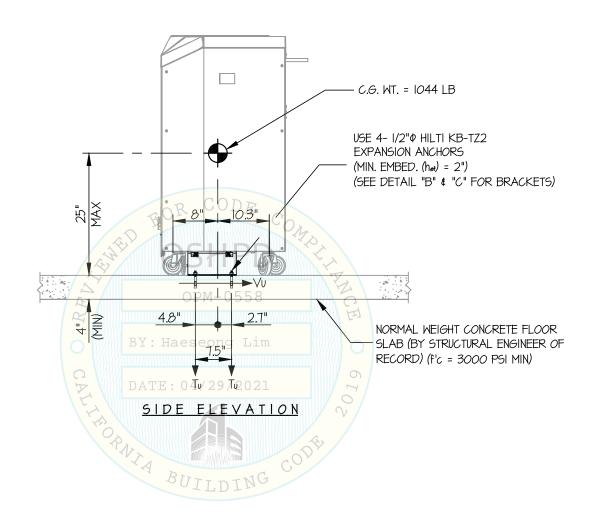
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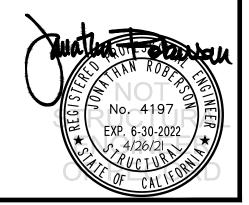
OF 10 SHEETS

MODEL 3000 WASTE PROCESSOR

MAX Sps < 0.90

CONCRETE SLAB





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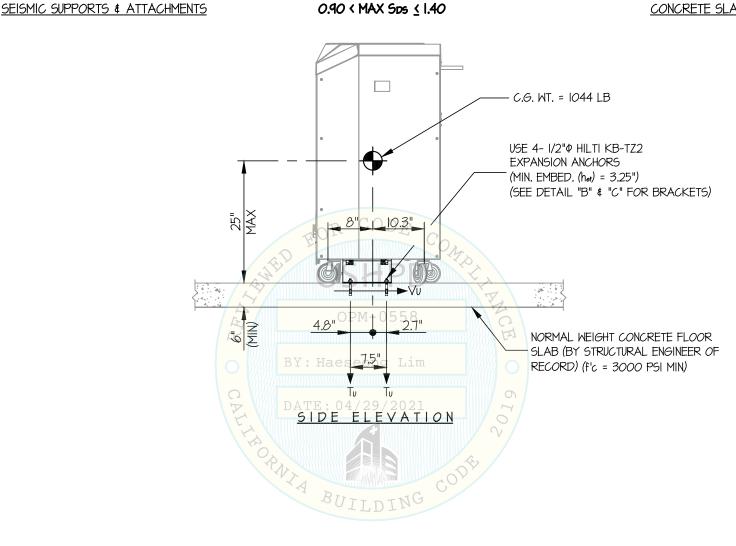
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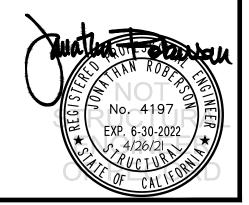
MODEL 3000 WASTE PROCESSOR

0.90 < MAX Sps < 1.40

CONCRETE SLAB

SHEETS





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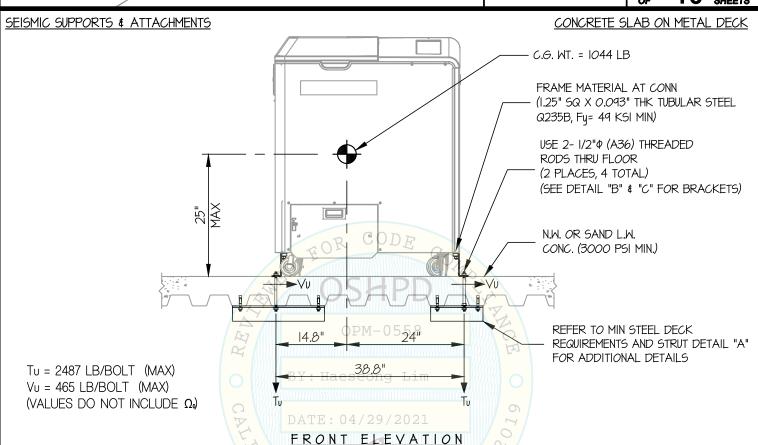
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SHEET

MODEL 3000 WASTE PROCESSOR

SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. (SDS = 0.90, 2p = 1.0, 1p = 1.5, 2p = 1.5,

HORIZONTAL FORCE (En) = 1.08 Wp

HORIZONTAL FORCE (Emh) = 1.62 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.18 Wp

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE

DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER

LOADS THAT MAY BE PRESENT.

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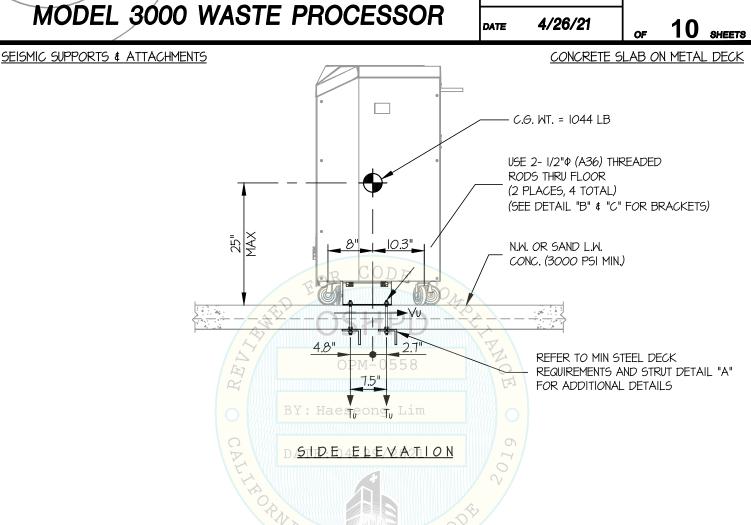
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F 10 SHEETS

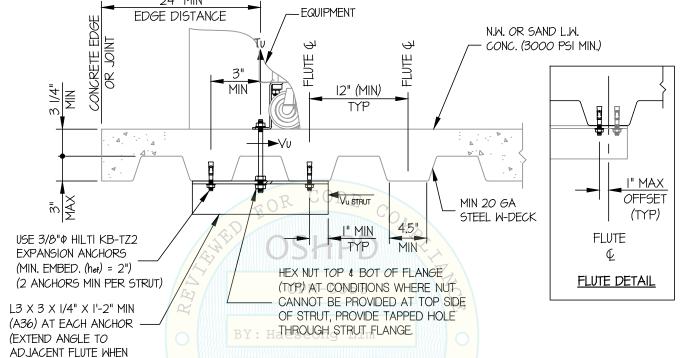
MODEL 3000 WASTE PROCESSOR

SEISMIC SUPPORTS & ATTACHMENTS

THREADED ROD OCCURS AT FLUTE)

24" MIN 2 1

DATE



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

OPWIA BUILDING



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MODEL 3000 WASTE PROCESSOR

BRACKET DETAILS SEISMIC SUPPORTS & ATTACHMENTS 7.5" (2) 0.563" PHOLES 1.06 TYP DETAIL "C" <u>0</u>.71" 7.9" MI2 (18-8) SOCKET HEAD SCREW (2 EA SIDE, 4 TOTAL) BRACKET 0.20" CPLAN (7 GA, AISI 1010, Fy=26 KSI) UNIT FRAME ANCHOR BLOCK TYP, 1/8 1 4 PLS 1/8 10" 0.187" THK (Fy= 44 KSI, MIN) (TÝP) SIDE FRONT

BRACKET DETAIL



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