

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

| alleld back | | | | | |
|-------------------------------------|--|--------------------------|--|--|--|
| APPLICATION FOR OSHI | OFFICE USE ONLY APPLICATION #: OPM-0352 | | | | |
| MANUFACTURER'S CER | | | | | |
| OSHPD Preapproval of Manufac | turer's Certification (OPM) | | | | |
| Type: New X Renewal/U | pdate | | | | |
| | | | | | |
| Manufacturer Information | | | | | |
| Manufacturer: IPA, LLC. | | | | | |
| Manufacturer's Technical Representa | tive: Kyle Joiner | | | | |
| Mailing Address: 3059 Premeire Parl | kway, Suite 200, Duluth, GA 30097 | | | | |
| Telephone: (888) 200-4797 | Email: kjoiner@thinkipa.com | | | | |
| | EOR CODE CON | | | | |
| Product Information | OSHPD | | | | |
| Product Name: scrubBank LB/MB | | Z | | | |
| Product Type: Other Mechanical Co | mponents Constructed of High-Deformability | Ma <mark>teri</mark> als | | | |
| Product Model Number: LB & MB | BY: Kamalpreet Kalsi | | | | |
| General Description: Dispenses Clea | an Scrub Suits to Authorized Users | | | | |
| | DATE: 09/14/2021 | | | | |
| Applicant Information | | <u></u> | | | |
| •• | | , | | | |
| Applicant Company Name: EASE LL | C. | / | | | |

Contact Person: Tiffany Tonn

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

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Manager



"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: EASE |
| Name: Jonathan Roberson California License Number: S4197 |
| Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709 |
| Telephone: (951) 295-1892 Email: jon@EASECo.com |
| |
| OSHPD Special Seismic Certification Preapproval (OSP) |
| Special Seismic Certification is preapproved under OSP OSP Number: |
| |
| O WE WE HAVE |
| 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. |
| X Analysis BY: Kamalpreet Kalsi |
| Experience Data DATE: 09/14/2021 |
| Combination of Testing, Analysis, and/or Experience Data (Please Specify): |
| COTE COTE |
| OSHPD Approval BUILDING |
| Date: 9/14/2021 |
| Name: Kamalpreet Kalsi 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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION

OPM-0352

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: IPA, LLC

EQUIPMENT NAME: SCRUBBANK LB & MB

Sheet: 1 of 12 Date: 9/13/21

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 190 & 2.30. SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.90, \mathbf{a}_P = 1.0, I_P = 1.5, R_P = 1.0, z/h = 0 at concrete slab. See Following sheets for Ω_0 Where SDS = 2.30, \mathbf{a}_P = 1.0, I_P = 1.5, I_P = 1.0, I_P = 1.
- 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. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).
- 8. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 9. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION AT OR BELOW GRADE. (i.e. z/h = 0)

10. 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. 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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DES. J. ROBERSON

JOB NO.

DATE

11-2114 9/13/21 2

SHEET

OF 12 SHEETS

/ IPA, LLC

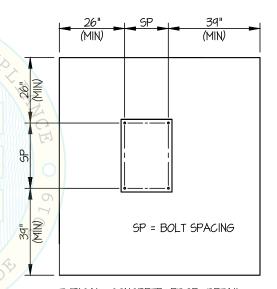
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11. EXPANSION ANCHORS:

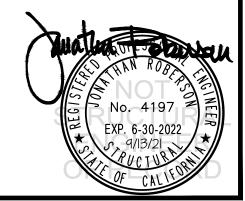
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

| 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" | 30 FT-LB | N/A |
| 5/8" | Normal Weight | 3000 | Hilti Kwik Bolt TZ2 | ESR-4266 | 4" | 7" | 26" | 6" | 40 FT-LB | 3594 lb |

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 26" 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 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
 NI IT
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- 12. 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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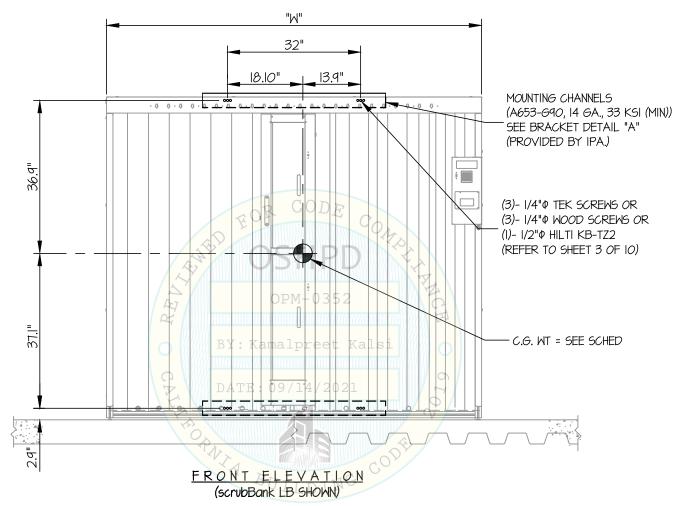
DATE 9/13/21

SHEET

F 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.30, Δp = 1.0, |p| = 1.5, Rp = 2.5, Ω_0 = 2.0, $z/h \le 1$)

HORIZONTAL FORCE (Eh) = 1.66 Wp

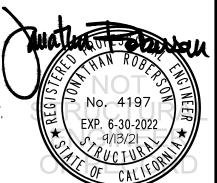
HORIZONTAL FORCE (Emh) = 3.32 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.



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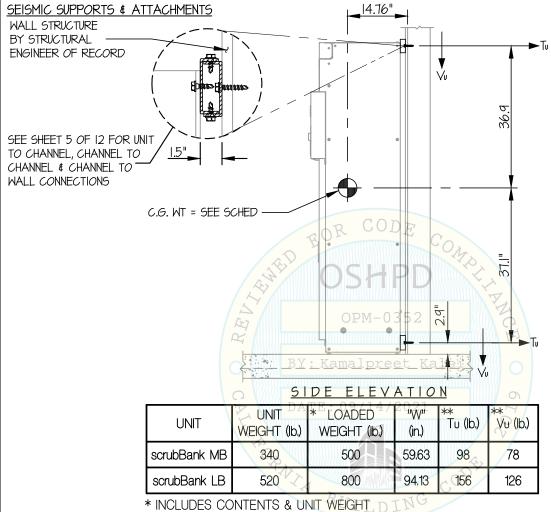
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OF SHEETS

WALL MOUNTED





^{**} VALUES DO NOT INCLUDE Ω.

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JOB NO.

OF 12 SHEETS

WALL MOUNTED

SEISMIC SUPPORTS & ATTACHMENTS CONCRETE WALL (3000 PSI MIN) BY STRUCTURAL ENGINEER OF RECORD UNIT TO MOUNTING CHANNEL

CONNECTION BY MFR
(SEE BRACKET DETAIL "A"
FOR UNIT TO CHANNEL
CONNECTION, TYP)

USE (I)I/2"¢ HILTI KB-TZ EXPANSION ANCHORS (MIN. EMBED. (het) = 3.25") AT 32" O.C. (2 PER CHANNEL, 4 TOTAL)

Tu = (3)(156#)(2.0) = 936 LB/BOLT (MAX) V Vu = (3)(126#)(2.0) = 756 LB/BOLT (MAX) (VALUES INCLUDE Ω_0)

UNIT TO MOUNTING CHANNEL CONNECTION BY MFR
(SEE BRACKET DETAIL "A"
FOR UNIT TO CHANNEL CONNECTION, TYP)

USE (3)- 1/4" \$\phi \times 1 1/2" TEK SCREWS TO 16 GA, 50 KS1 WALL STUD/BLKG-(6 PER CHANNEL, 12 TOTAL)

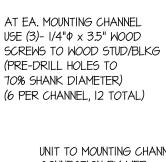
5/8" THK. ____

/3"4 MIN WALL BACKING, IT'S
CONNECTION TO THE
WALL STRUCTURE AND
THE WALL STRUCTURE
ITSELF, SHALL BE
DESIGNED BY STRUCTURAL
ENGINEER OF RECORD

Tu = 156 LB/SCREW (MAX) Vu = 126 LB/SCREW (MAX)(VALUES DO NOT INCLUDE Ω_0)

SECTION AT CONCRETE WALL

SECTION AT STEEL STUD WALL



UNIT TO MOUNTING CHANNEL CONNECTION BY MFR (SEE BRACKET DETAIL "A" FOR UNIT TO CHANNEL CONNECTION, TYP)

5/8" THK. __ WALL BOARD 2 X STUDS OR
6X BLOCKING
(DOUGLAS-FIR LARCH
NUMBER 2 MINIMUM)
CONNECTED TO
WOOD STRUCTURE
DESIGNED BY
STRUCTURAL ENGINEER
OF RECORD

SECTION WOOD STUD WALL

Tu = 156 LB/SCREW (MAX) Vu = 126 LB/SCREW (MAX) (VALUES DO NOT INCLUDE Ω)



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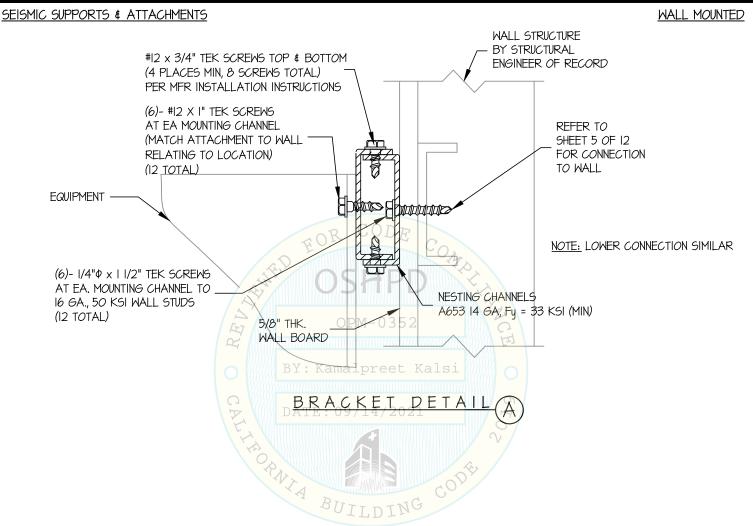
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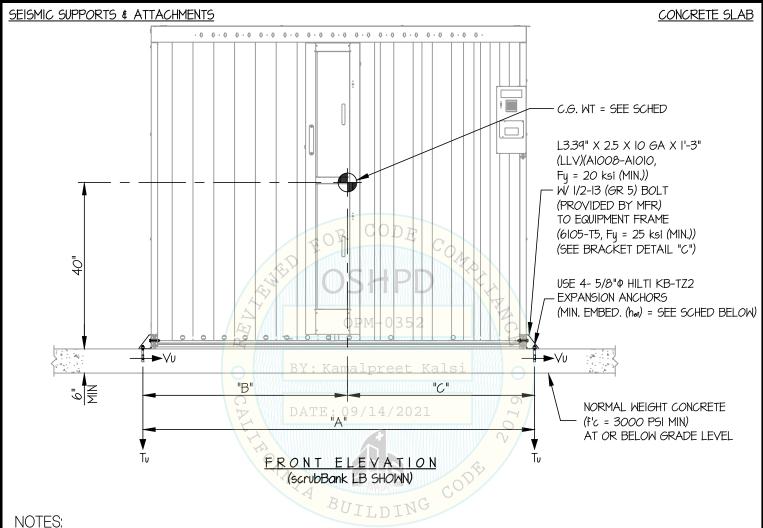
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JOB NO. 11-2114

DATE 9/13/21

SHEET 7

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

STRENGTH DESIGN IS USED. (Sps = 1.90, a_p = 1.0, l_p = 1.5, R_p = 2.5, Ω_0 = 2.0, z/h = 0)

HORIZONTAL FORCE (Eh) = 0.855 Wp HORIZONTAL FORCE (Emh) = 1.71 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.38 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.



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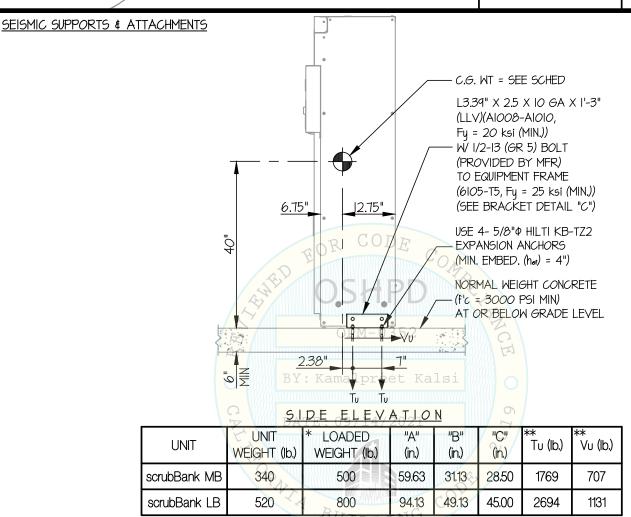
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OF 12 SHEETS



^{*} INCLUDES CONTENTS & UNIT WEIGHT D 1



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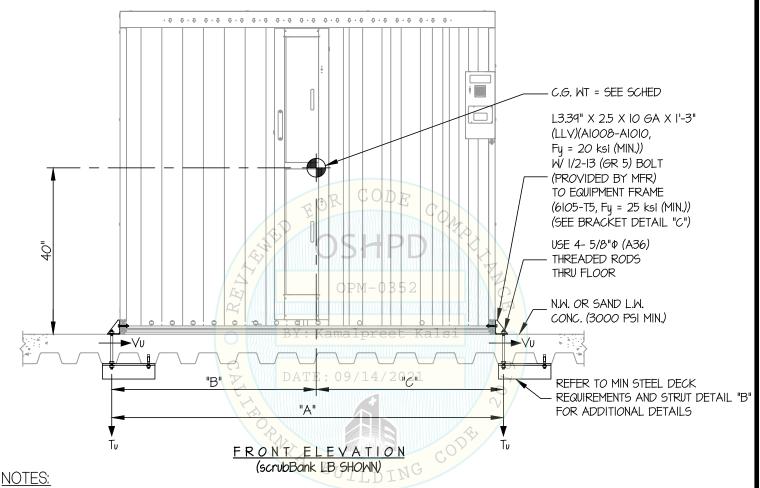
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SHEET

of 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



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

STRENGTH DESIGN IS USED. (SDS = 2.30, Δp = 1.0, |p| = 1.5, Rp = 2.5, Ω_0 = 2.0, z/h < 1)

HORIZONTAL FORCE (Eh) = 1.66 Wp

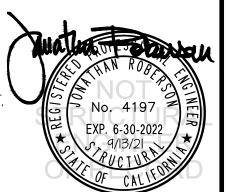
HORIZONTAL FORCE (Emb) = 3.32 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.



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10

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SEISMIC SUPPORTS & ATTACHMENTS CONCRETE SLAB ON METAL DECK C.G. WT = SEE SCHED L3.39" X 2.5 X IO GA X I'-3" (LLV)(A1008-A1010, Fu = 20 ksi (MIN.)) W 1/2-13 (GR 5) BOLT (PROVIDED BY MFR) TO EQUIPMENT FRAME (6105-T5, Fy = 25 ksi (MIN.))6.75"]2.75". (SEE BRACKET DETAIL "C") USE 4-5/8" (A36) 4 THREADED RODS THRU FLOOR N.W. OR SAND L.W. CONC. (3000 PSI MIN.) Kalrefer to MIN STEEL DECK 2.38" REQUIREMENTS AND STRUT DETAIL "B" FOR ADDITIONAL DETAILS DATE: T09/T64/2021 SIDE ELEVATION

| UNIT | UNIT WEIGHT (lb.) | * LOADED WEIGHT (lb.) | "A" (in.) | "B" (in.) | "C" (in.) | ** Tu (lb.) | ** Vu (lb.) |
|--------------|----------------------|--------------------------|--------------|--------------|--------------|----------------|----------------|
| scrubBank MB | 340 | 500 BU | 59.63 | 31.13 | 28,50 | 1740 | 686 |
| scrubBank LB | 520 | 800 | 94.13 | 49.13 | 45.00 | 2652 | 1098 |

^{*} INCLUDES CONTENTS & UNIT WEIGHT



^{**} VALUES DO NOT INCLUDE $\Omega_{
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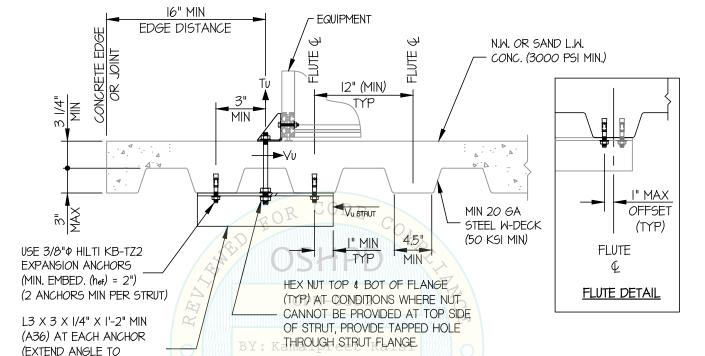
OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

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THREADED ROD OCCURS AT FLUTE)

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

PNIA BUILDING



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SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS

