

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HO	CAI PREAPPROVAL OF	OFFICE USE ONLY APPLICATION #: OPM-0677								
MANUFACTURER'S C										
HCAI Preapproval of Manufacturer's Certification (OPM)										
Type: X New Renew	val/Update									
Manufacturer Information										
Manufacturer: BD										
Manufacturer's Technical Repres	entative: Marco Reyes									
Mailing Address: 10020 Pacific Mesa Blvd. D2-A414, San Diego, CA 92121										
Telephone: (858) 617-1364 Email: marco.reyes@bd.com										
	FOR CODE COM									
Product Information										
Product Name: PYXIS MedBank	Tower	12								
Product Type: Other electrical a	nd mechanical components									
Product Model Number: N/A	BY: William Staehlin									
General Description: Automated	medication dispensing solutions for outpatient	and long-term care settings								
	O DATE: 10/29/2024	2								
		6								
Applicant Information										
Applicant Company Name: EAS	E LLC.)								
Contact Person: Tiffany Tonn	BUILDING									
Mailing Address: 1515 FAIRVIE	W AVE, STE 205, MISSOULA, MT 59801									
Telephone: (406) 541-3273	Email: tiffany@easeco.com									

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Title: Office Manager



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Registered Design Professonal Preparing Engineering Recommendations									
Company Name: EASE LLC									
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									
HCAI Special Seismic Certification Preapproval (OSP)									
Special Seismic Certification is preapproved under OSP OSP Number:									
FOR CODE CO									
Certification Method									
Testing in accordance with:									
Other(s) (Please Specify):									
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.									
X Analysis									
Experience Data DATE: 10/29/2024									
Combination of Testing, Analysis, and/or Experience Data (Please Specify):									
COSE.									
HCAI Approval									
Date: 10/29/2024									
Name: William Staehlin Title: Senior Structural Engineer									
Condition of Approval (if applicable):									

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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

The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0677

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: EQUIPMENT NAME:

BD

PYXIS MEDBANK TOWER

Sheet: 1 of 9

Date: 10/28/24

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 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 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 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 = 2.30, \mathbf{a}_p = 1.0, \mathbf{I}_p = 1.5, \mathbf{r}_p = 1.5,
- 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 2022 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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11-2306

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SHEET

PYXIS MEDBANK TOWER

DATE 10/28/24

JOB NO.

_F 9 sheets

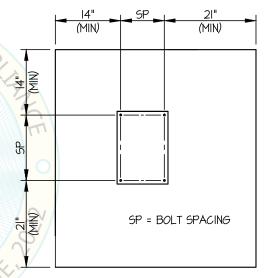
10. EXPANSION ANCHORS:

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"	30 FT-LB	N/A
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	8"	14"	4"	30 FT-LB	1982 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 14" 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 (SLAB ON GRADE ONLY)



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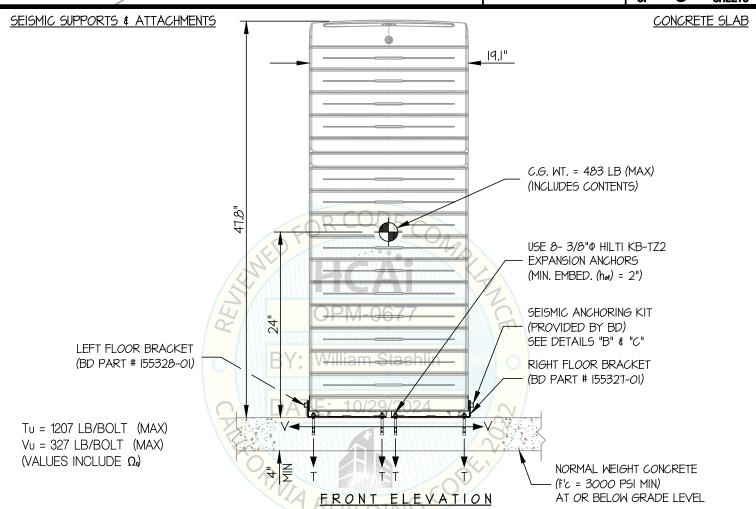
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10/28/24 DATE

SHEETS



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 2p = 1.0, 1p = 1.5, 2p =

> HORIZONTAL FORCE (En) $= 1.035 W_{p}$

HORIZONTAL FORCE (Emh) = 2.07 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

2. THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.

3. THIS CALCULATION WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.

4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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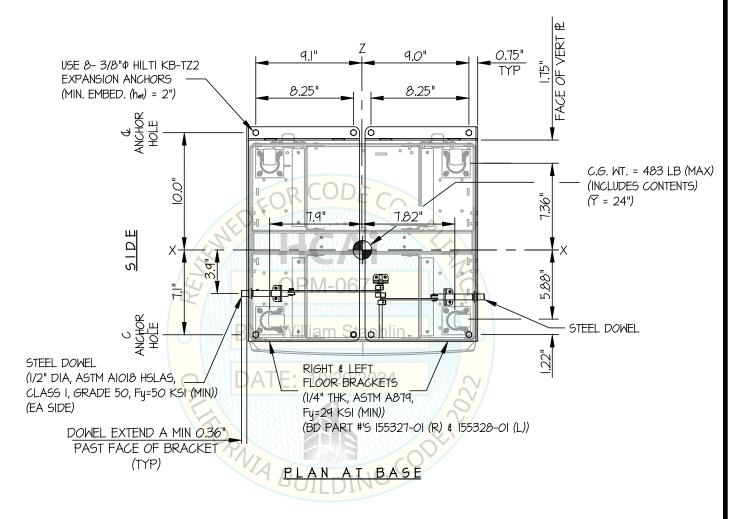
DATE 10/28/24

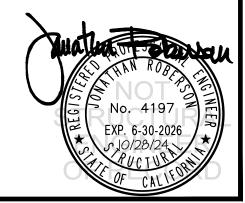
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SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB





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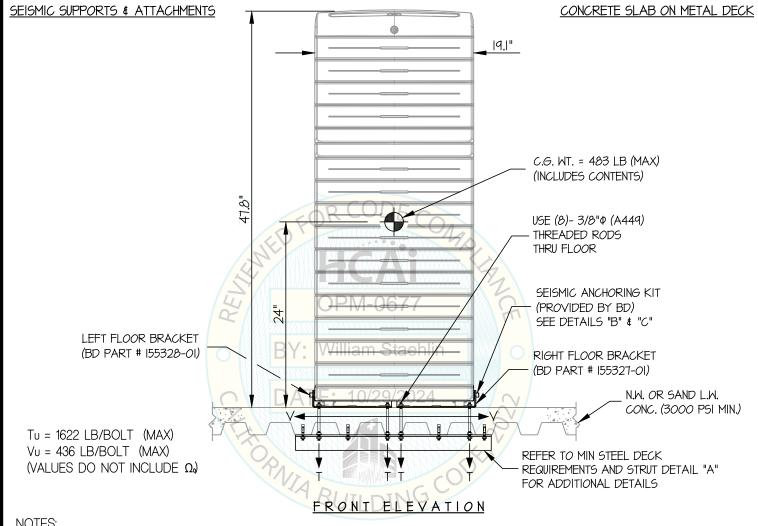
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NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, $\Delta p = 1.0$, p = 1.5, $R_p = 1.5$, $\Omega_o = 2.0$, z/h < 1)

> HORIZONTAL FORCE (Eh) = 2.76 Wp

HORIZONTAL FORCE (Emh) = 5.52 W_D (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

2. THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.

3. THIS CALCULATION WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR), USE REQUIRES APPROVAL BY THE SEOR.

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5. SEE GENERAL NOTES: SHEETS 1 AND 2.



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CONCRETE SLAB ON METAL DECK

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SHEET 6

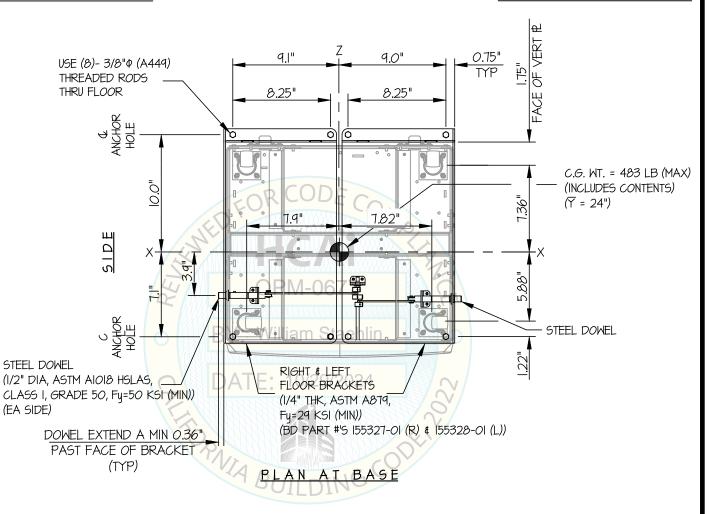
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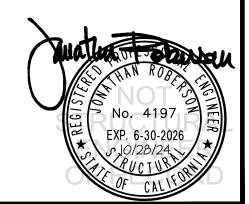
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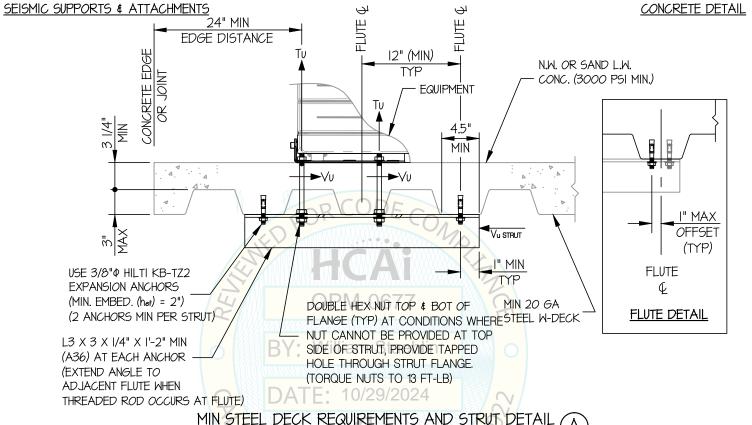
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of **9** sheets

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MIN STEEL DECK REQUIREMENTS AND STRUT

DEMANDS: (BASED ON UPPER FLOOR)

Tu = 1622 LB/BOLT

Vu = 436 LB/BOLT

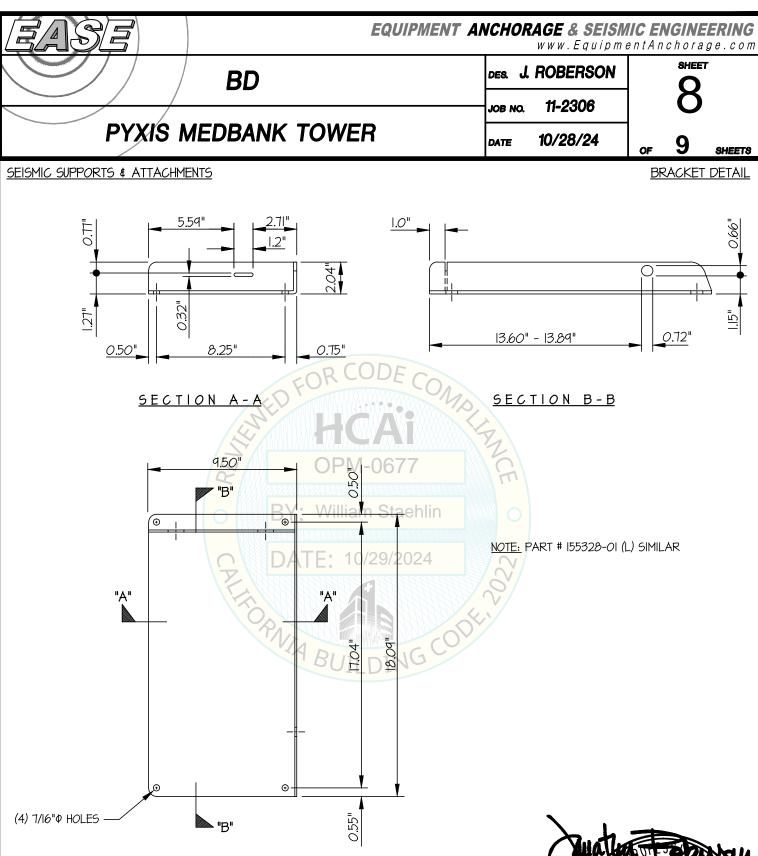
Vu strut = 0.7Vu = 0.7(436#(4 BOLTS)) = 1221 LB/STRUT

CONCRETE ANCHORS AT STRUT

NOTE: THERE IS A POSSIBILITY THAT 4
THREADED RODS CAN BE ON A
SINGLE STRUT WITH ADJACENT
FLOOR PLATE

BOLT SPEC: 3/8" HILTI KB-TZ2: (hef = 2" MIN)







BRACKET DETAIL

(PART # 155327-01 (R) SHOWN)



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