

Type:

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

# APPLICATION FOR HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0741

HCAI Preapprova	of Manufacturer's	Certification (OPM)
-----------------	-------------------	---------------------

X New Renewal/Update

### **Manufacturer Information**

Manufacturer: ABG Systems

Manufacturer's Technical Representative: Jonas Schreiner

Mailing Address: 145 Rue Barr, Montreal, QC H4T1W6

Telephone: (514) 980-6127

Email: jonas.schreiner@abgsys.com

### **Product Information**

Product Name: White Basket Gravity Compact and White Box

Product Type: Linen and Uniform Dispensers and Collectors

Product Model Number: White Basket Gravity Compact and White Box

General Description: Linen and Uniform Dispensers and Collectors

### Applicant Information

Applicant Company Name: Structural Integrity Associates, Inc. / TRU Compliance

Contact Person: John Svet

Mailing Address: 7245 S. Havana St, Suite 400, Centennial, CO 80112

Telephone: (858) 430-2057 Ema

Email: jsvet@structint.com

Title: Director, TRU Compliance

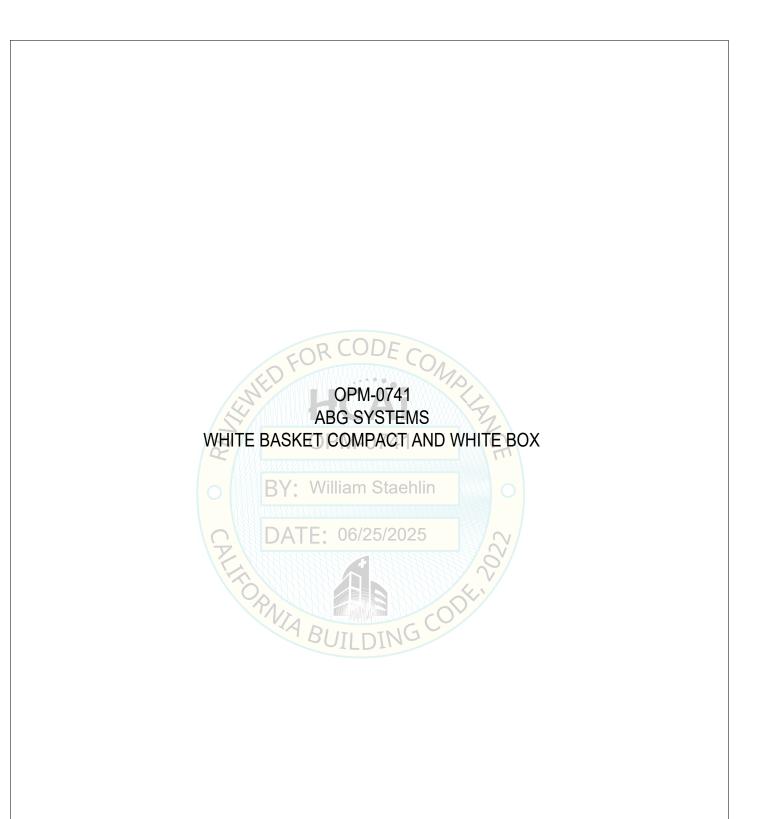




## DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professonal Preparing Engineering Recommendations						
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.						
Name:   LACHEZAR HANDZHIYSKI   California License Number:   S6515						
Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138						
Telephone: (669) 437-0200 Email: Lhandzhiyski@StructInt.com						
HCAI Special Seismic Certification Preapproval (OSP)						
Special Seismic Certification is preapproved under OSP OSP Number:						
EOR CODE COL						
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, 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						
Combination of Testing, Analysis, and/or Experience Data (Please Specify):						
CONTRACTOR CONT						
HCAI Approval						
Date: 6/25/2025						
Name:   William Staehlin   Title:   Senior Structural Engineer						
Condition of Approval (if applicable):						







5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER PROJECT #: 2300719

DRAWN : JT CHECKED : JS REVIEWED : LH DATE: 3/14/2025

SHEET: 01 of 19

CHECKED : JS SE, CALIFORNIA 95138 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William Staehlin



### GENERAL NOTES:

- THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH 1. THIS OPM SHALL BE BASED ON THE 2022 CBC.
- THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
- THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE S<sub>DS</sub> IS NOT GREATER THAN 2.0 (z/h≤1) AND 2.5 (z/h=0). SEE DETAIL FOR 3. APPLICABILITY.
- 4 FORCES PER ASCE 7-16 SECTION 13.3.1. EQUATIONS 13.3-1. 13.3-2 & 13.3-3 WHERE S<sub>DS</sub> = 2.5, a<sub>P</sub> = 1, I<sub>P</sub> = 1.5, R<sub>P</sub> = 1.5, z/h = 0. SEE FOLLOWING SHEETS FOR Ω<sub>0</sub> (WHITE BASKET COMPACT AND WHITE BOX).
- WHERE  $S_{DS} = 2.0$ ,  $a_P = 1$ ,  $I_P = 1.5$ ,  $R_P = 1.5$ ,  $z/h \le 1.0$ . SEE FOLLOWING SHEETS FOR  $\Omega_0$  (WHITE BASKET COMPACT AND WHITE BOX).
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE. 5
- ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN. 6.
- CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING (i.e. z/h≤1) 7.
- 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 PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS. Α.
  - VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2022 CBC AND WITH THE DETAILS, MATERIAL, AND GAGE OF THE UNIT WHERE Β. ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
  - VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & Z/h RESULTS IN SEISMIC FORCES (Eh, Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS. С
  - VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT D. AND THIS OPM.
  - Ε. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
  - VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION F. WHERE OTHER ANCHORS ARE WITHIN 18" OR 6hef FROM THIS UNIT'S ANCHORS.
- 10. POST-INSTALLED ANCHORS
  - ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT, LATEST FDITION

				WE AND A VOID				
Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Effective Embed. Depth (in.)	Min. Conc. Thickness (in.)	Min. Conc. Edge Dist. (in.)	Sheet
1/2"	Sand Light Weight	3000 4	ASTM F1554 GR. 36 Threaded Rod	N/A	Thru-Bolt	N/A	N/A	07,14,15
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	hli <sup>3.25</sup>	5.5	5	04,12,13
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	2	5.5	5	05
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	25 <sub>2</sub>	3.25	7.5	08
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	1.5	3.25	7.5	07,14,15

INSTALL POST-INSTALLED ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS WITH PERIODIC SPECIAL INSPECTION AS в REQUIRED BY CBC 2022 TABLE 1705A.3. REINFORCING STEEL DOWELS, THREADED RODS, AND ANCHORS SHALL BE FREE OF DUST, GREASE, RUST AND OTHER MATERIALS THAT WILL IMPAIR BOND WITH CONCRETE.

USE ONLY NON-REBAR CUTTING DRILL BITS MEETING THE REQUIREMENTS OF ANSI B212.15-1994 (R2000) TO DRILL HOLES IN CONCRETE AND CONCRETE MASONRY UNITS. EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS SHALL BE POSITIVELY LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS UNLESS APPROVED BY THE ENGINEER OF RECORD.

WHERE EXISTING CONCRETE IS DAMAGED AND/OR DRILLED HOLES ABANDONED, THE DAMAGED CONCRETE OR ABANDONED HOLES SHALL BE D REPAIRED OR FILLED WITH NO-SHRINK GROUT. BRING EACH CONDITION TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO IMPLEMENTING REPAIRS

BRING TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD ANY POST-INSTALLED ANCHOR LOCATION THAT CANNOT COMPLY WITH E. THE PARAMETERS STATED HEREIN AND INDICATED IN THIS OPM.

DO NOT DRILL HOLES WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDDED IN SUBSTRATE. F.

ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-19 17.1.2). G.

PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER. Н

5215 HELLYER AVENUE,

WHERE NEOPRENE WASHERS ARE REQUIRED IN FINAL INSTALLATION THE ANCHORS SHALL FIRST BE INSTALLED AND TESTED USING METAL Ι. WASHERS AND THE NEOPRENE WASHERS SHALL BE INSTALLED AFTER TESTING.



### GENERAL NOTES

PROJECT #: 2300719

DRAWN : JT DATE: 3/14/2025 SHEET: 02 of 19



By Structural Integrity Associates, Inc.

**REVIEWED: LH** OPM-0741 OPM-0741: Reviewed for Code Compliance by William

CHECKED: JS

#### 11. BOLTS THROUGH CONCRETE ON METAL DECK

- A. INSTALL THROUGH-BOLT ANCHORS WITH PERIODIC SPECIAL INSPECTION AS REQUIRED BY CBC 2022 TABLE 1705A.3.
- B. USE ONLY NON-REBAR CUTTING DRILL BITS MEETING THE REQUIREMENTS OF ANSI B212.15-1994 (R2000) TO DRILL HOLES IN CONCRETE AND CONCRETE MASONRY UNITS. EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS SHALL BE POSITIVELY LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL AND PRESTRESSING TENDONS UNLESS APPROVED BY THE ENGINEER OF RECORD.
- WHERE EXISTING CONCRETE IS DAMAGED AND/OR DRILLED HOLES ABANDONED, THE DAMAGED CONCRETE OR ABANDONED HOLES SHALL BE REPAIRED OR FILLED WITH NO-SHRINK GROUT. BRING EACH CONDITION TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO IMPLEMENTING REPAIRS.
- D. BRING TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD ANY THROUGH-BOLT ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED IN THIS OPM.
- E. DO NOT DRILL HOLE WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDDED IN SUBSTRATE.
- F. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.
- G. THROUGH-BOLTS BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG-TIGHT CONDITION IS ACHIEVED, UNLESS NOTED OTHERWISE. (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT)
- H. THROUGH-BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
- I. 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.
- 12. TESTING REQUIREMENTS
  - A. TEST 50% OF INSTALLED ANCHORS. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE WHICH ARE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.
  - B. TEST LOADS SHALL BE THE MANUFACTURER'S RECOMMENDED PROOF LOADS AND INSTALLATION TORQUES AS APPROVED IN ICC-ES REPORTS AND PROVIDED AS FOLLOWS.

					·	
Anchor Diameter	Concrete Type	Anchor Type	ICC Report No.	Effective Embed. Depth (in.)	Proof Load (lbf)	Installation/Test Torque (lbf-ft.)
1/2"	Normal Weight	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	3.25	3325	50
1/2"	Normal Weight	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	2	1983	50
1/2"	Sand Light Weight	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	am <b>S</b> taeh	lin 1190	<mark>5</mark> 0
3/8"	Sand Light Weight	Hilti Kwik Bolt TZ2 (Carbon Steel)	ESR-4266	1.5	1006	30

- C. ANCHORS SHALL BE TESTED BY THE TORQUE WRENCH METHOD USING A CALIBRATED TORQUE WRENCH WITHIN 1/2 TURN OF NUT.
- D. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD.

#### 13. SELF DRILLING SCREWS

- A. SELF-DRILLING SCREWS SHALL BE OF EQUAL OR GREATER STRENGTH TO THOSE SPECIFIED IN ICC-ES REPORT 1976.
- B. IN ORDER FOR SCREWS TO BE CONSIDERED FULLY EFFECTIVE, THE MINIMUM SPACING BETWEEN SCREWS MUST BE 3 TIMES THE NOMINAL SCREW DIAMETER AND THE MINIMUM EDGE DISTANCE MUST BE 1.5 TIMES THE NOMINAL SCREW DIAMETER.
- C. INSTALLATION OF SELF-DRILLING FASTENERS MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THE ICC-ES REPORT. THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS MUST BE AVAILABLE AT THE JOBSITE AT ALL TIMES DURING INSTALLATION.

14. WHITE BOX

- A. FOR WHITE BOX CONFIGURATIONS WITH NUMBER OF COLUMN SEGMENTS BETWEEN 1 AND 6, THE SAME ATTACHMENT METHODS SHOULD BE USED WHILE SCALING THE NUMBER OF SCREWS, BRACKETS, AND ANCHORS AS NEEDED TO MATCH THE NUMBER OF COLUMN SEGMENT UNITS.
- 15. LIVE LOADS ARE NOT CONSIDERED. MAXIMUM PRODUCT WEIGHT IS CONSIDERED AS DEAD LOAD.

5215 HELLYER AVENUE,

SAN JOSE, CALIFORNIA 95138

**SUITE 210** 

- 16. ALL UNITS SHALL HAVE A LABEL STATING THE MAXIMUM WEIGHT OF CONTENTS. THE LABEL SHALL BE INSTALLED PER CBC 2022 1703A.5.4. THE LABELS SHALL BE PROVIDED BY THE MANUFACTURER.
  - A. THE WHITE BASKET UNIT SHALL STATE "THE MAXIMUM WEIGHT OF CONTENTS SHALL NOT EXCEED 121 LBS."
  - B. EACH COLUMN OF THE WHITE BOX, NOT INCLUDING THE CONTROL TOTEM, SHALL STATE "THE MAXIMUM WEIGHT OF CONTENTS SHALL NOT EXCEED 119 LBS."



### GENERAL NOTES

PROJECT #: 2300719

JT

DATE: 3/14/2025

SHEET: 03 of 19

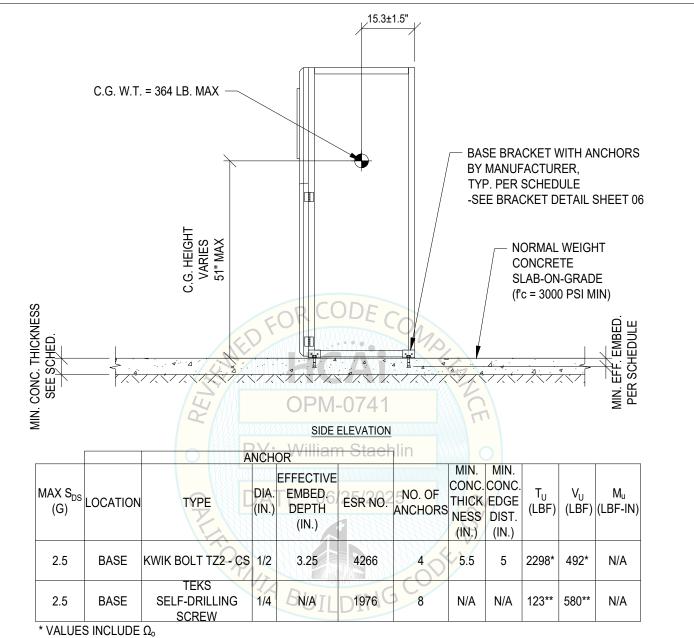


By Structural Integrity Associates, Inc.

PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William Staehlin

CHECKED: JS

DRAWN :



\*\*MAXIMUM TENSION AND SHEAR ARE NOT CONCURRENT

NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p = 1, I_p = 1.5, R_p = 1.5, \Omega_o = 2.0, z/h = 0$ )
- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 2. ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR. 3.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT 4. WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEET 2 AND 3. 5.



DRAWN : 5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

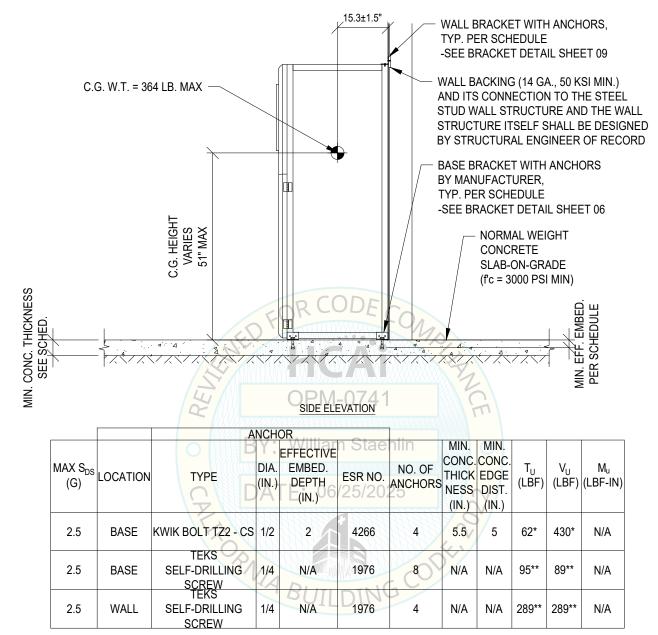
ABG Systems White Basket Compact (Slab-on-Grade, Freestanding Unit)

PROJECT #: 2300719 DATE: 3/14/2025 SHEET: 04 of 19

JT CHECKED: JS REVIEWED: LH

OPM-0741





\* VALUES INCLUDE Ω<sub>0</sub>

\*\*MAXIMUM TENSION AND SHEAR ARE NOT CONCURRENT

NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13.
  - STRENGTH DESIGN IS USED. ( $a_p$  = 1,  $I_p$  = 1.5,  $R_p$  = 1.5,  $\Omega_o$  = 2.0, 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. LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT 4. WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEET 2 AND 3. 5.



5215 HELLYER AVENUE. SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

ABG Systems White Basket Compact (Slab-on-Grade, Against Wall)

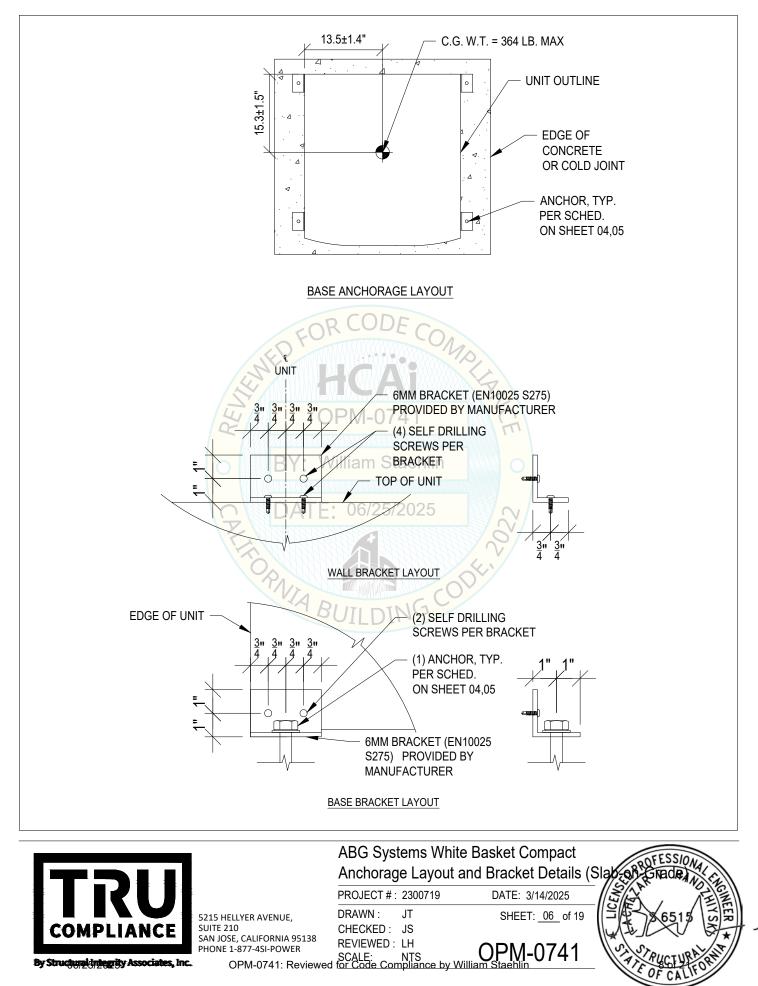
PROJECT #: 2300719 DATE: 3/14/2025 SHEET: 05 of 19

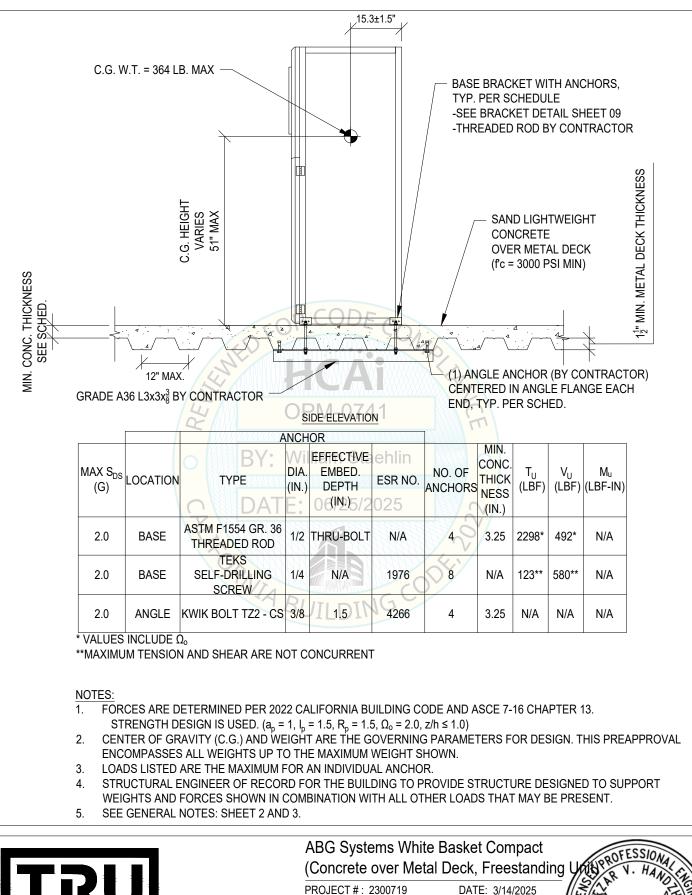
DRAWN : JT CHECKED : JS REVIEWED: LH

OPM-0741



By Structural Integrity Associates, Inc.





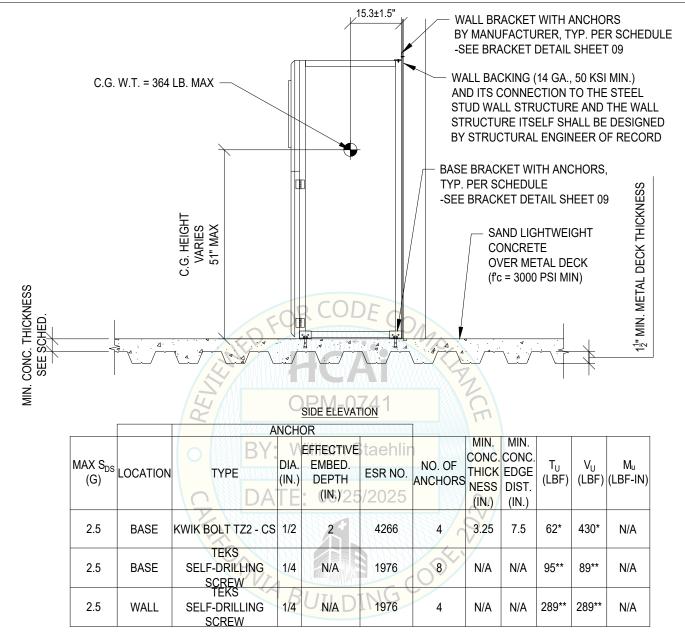
5215 HELLYER AVENUE. SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

PROJECT #: 2300719 DRAWN : JT CHECKED: JS REVIEWED: LH

<u>OPM-0741</u>

SHEET: 07 of 19





\* VALUES INCLUDE Ω<sub>0</sub>

\*\* MAXIMUM TENSION AND SHEAR ARE NOT CONCURRENT

NOTES:

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. 1. STRENGTH DESIGN IS USED. ( $a_p$  = 1,  $I_p$  = 1.5,  $R_p$  = 1.5,  $\Omega_0$  = 2.0, z/h ≤ 1.0)
- 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. LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR.
- 4. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEET 2 AND 3. 5.



5215 HELLYER AVENUE. SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

(Concrete over Metal Deck, Against Wall) PROJECT #: 2300719 DATE: 3/14/2025

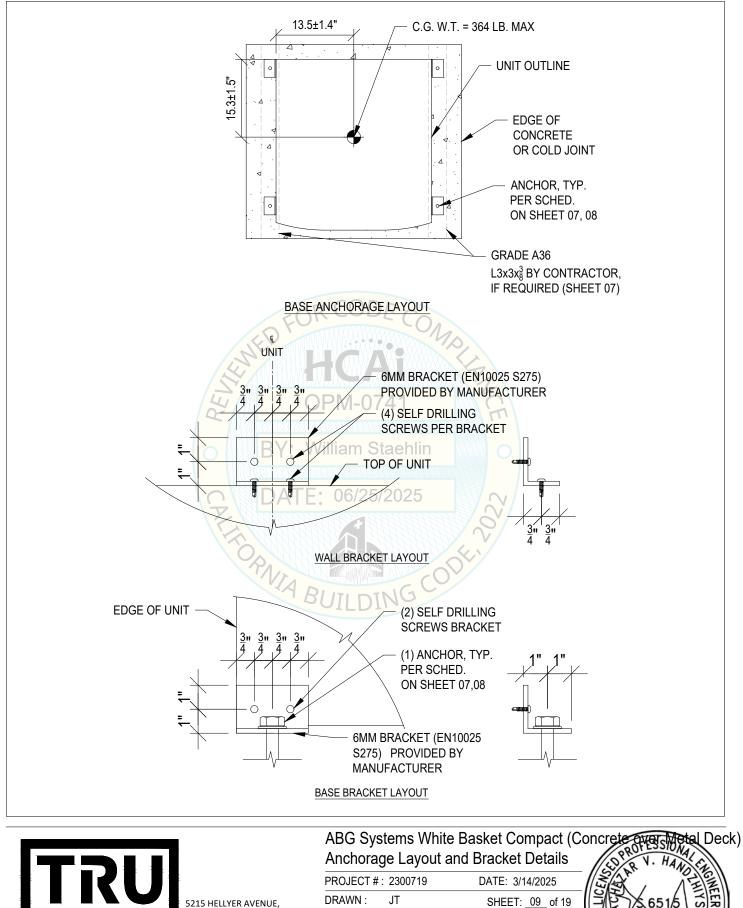
ABG Systems White Basket Compact

DRAWN : JT CHECKED: JS **REVIEWED: LH** 

OPM-0741

SHEET: 08 of 19





NF

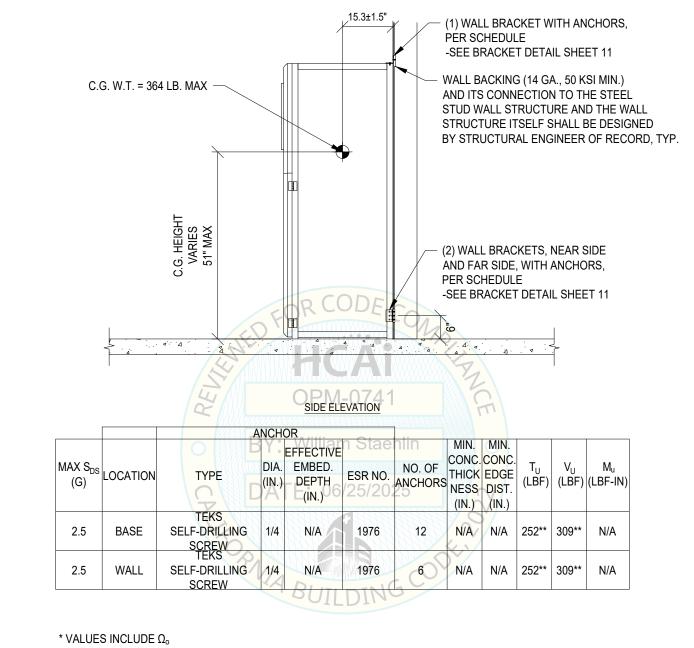
SUITE 210

SAN JOSE, CALIFORNIA 95138

OPM-0741: Reviewed for Code Compliance by William Staehlin PHONE 1-877-4SI-POWER

CHECKED: JS **REVIEWED: LH** 





\*\*MAXIMUM TENSION AND SHEAR ARE NOT CONCURRENT

NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13.
  - STRENGTH DESIGN IS USED. ( $a_p = 1$ ,  $I_p = 1.5$ ,  $R_p = 1.5$ ,  $\Omega_0 = 2.0$ , 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. LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT 4. WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEET 2 AND 3. 5.



DRAWN : 5215 HELLYER AVENUE. CHECKED: JS SUITE 210 SAN JOSE, CALIFORNIA 95138 REVIEWED: LH PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

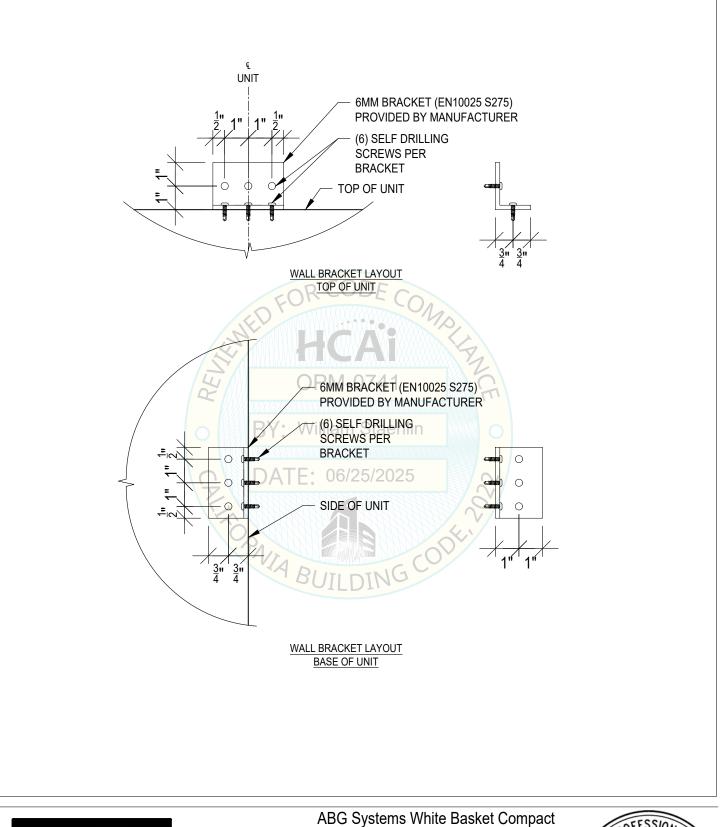
ABG Systems White Basket Compact (Wall Only) PROJECT #: 2300719

JT

DATE: 3/14/2025 SHEET: 10 of 19









5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER

PROJECT #: 2300719 DRAWN : JT CHECKED: JS

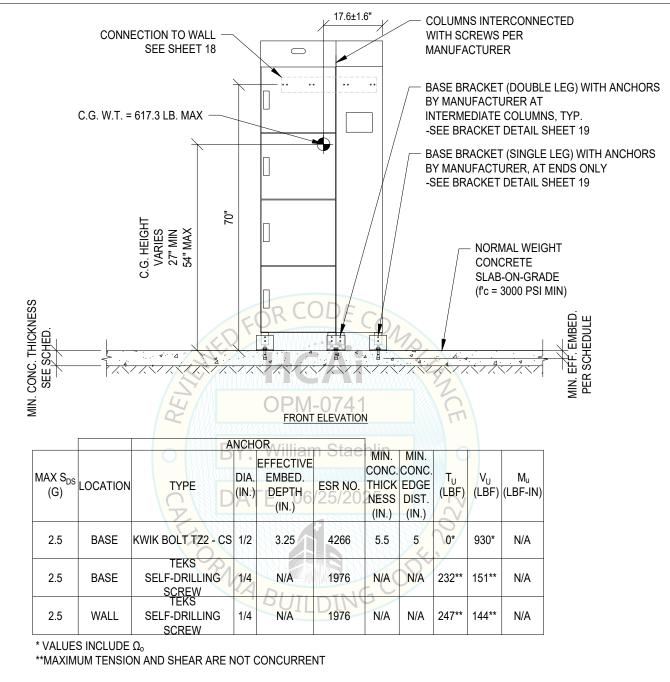
REVIEWED: LH



DATE: 3/14/2025

SHEET: <u>11</u> of 19





NOTES:

- 1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13. STRENGTH DESIGN IS USED. ( $a_p$  = 1,  $I_p$  = 1.5,  $R_p$  = 1.5,  $\Omega_o$  = 2.0, z/h = 0)
- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 2. ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR. 3.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT 4. WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEET 2 AND 3. 5.



DRAWN : 5215 HELLYER AVENUE, SUITE 210 CHECKED: JS SAN JOSE, CALIFORNIA 95138 **REVIEWED: LH** PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

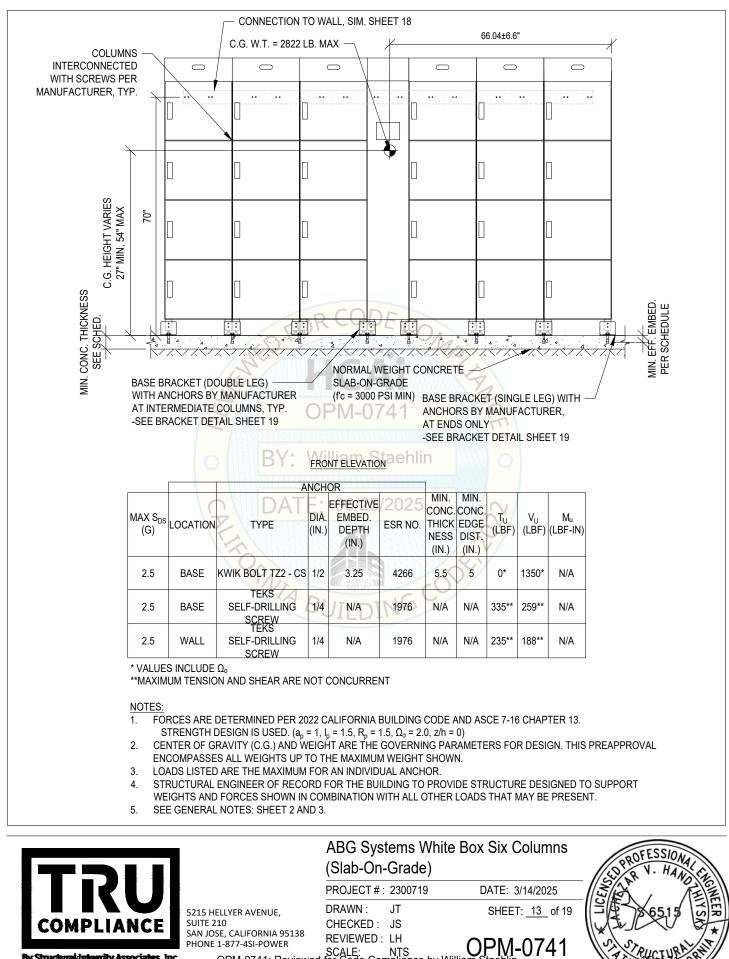
ABG Systems White Box Single Column (Slab-On-Grade) PROJECT #: 2300719

JT

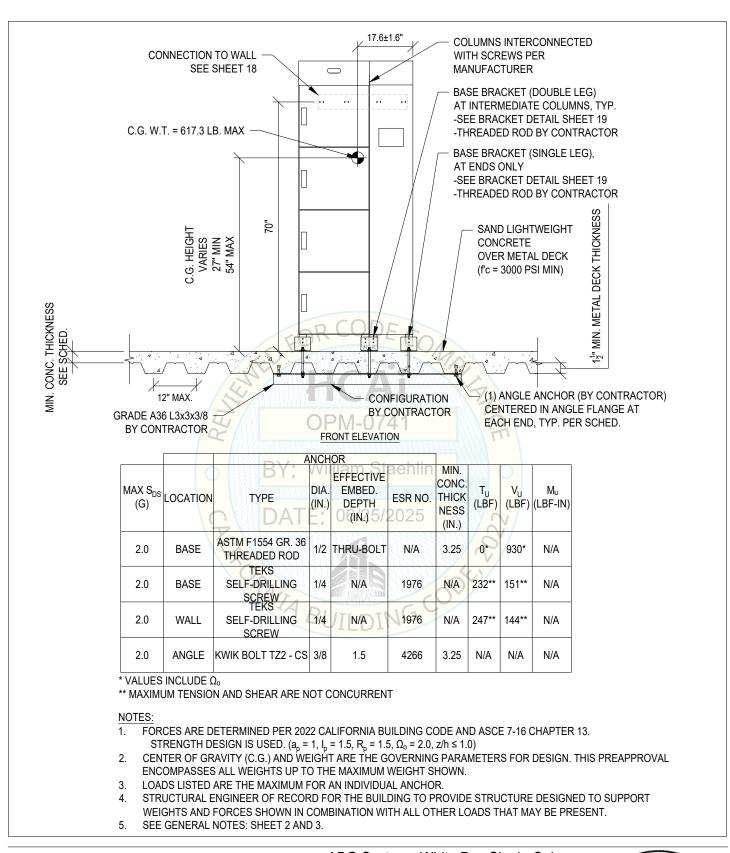
DATE: 3/14/2025 SHEET: 12 of 19







OPM-0741: Reviewed for Code Compliance by William





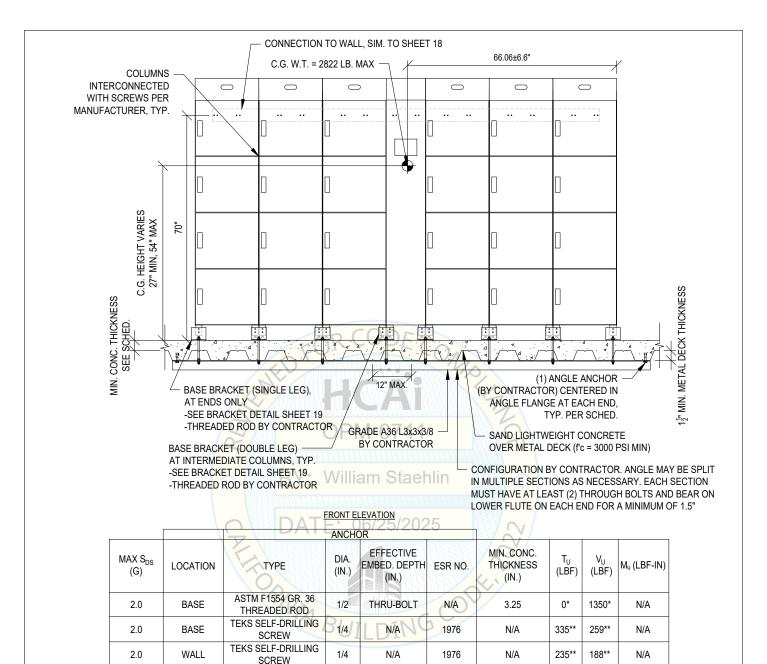
5215 HELLYER AVENUE, SUITE 210 SAN JOSE, CALIFORNIA 95138 PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

ABG Systems White Box Single Column (Concrete Over Metal Deck) PROJECT #: 2300719 DATE: 3/14/2025

ECT #: 2300719 DATE: 3/14/2025 /N : JT SHEET: <u>14\_</u> of 19







KWIK BOLT TZ2 - CS 2.0 ANGLE 3/8

\* VALUES INCLUDE Ω<sub>0</sub>

\*\* MAXIMUM TENSION AND SHEAR ARE NOT CONCURRENT

NOTES:

1.

- FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16 CHAPTER 13.
- STRENGTH DESIGN IS USED. ( $a_p = 1$ ,  $l_p = 1.5$ ,  $R_p = 1.5$ ,  $\Omega_0 = 2.0$ ,  $z/h \le 1.0$ ) CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL 2.
- ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR. 3
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT 4. WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

1.5

4266

5. SEE GENERAL NOTES: SHEET 2 AND 3.



DRAWN : JT 5215 HELLYER AVENUE, CHECKED: JS **SUITE 210** SAN JOSE, CALIFORNIA 95138 **REVIEWED: LH** PHONE 1-877-4SI-POWER OPM-0741: Reviewed for Code Compliance by William

(Concrete Over Metal Deck) PROJECT #: 2300719 DATE: 3/14/2025 SHEET: 15 of 19

ABG Systems White Box Six Columns

**OPM-0741** 

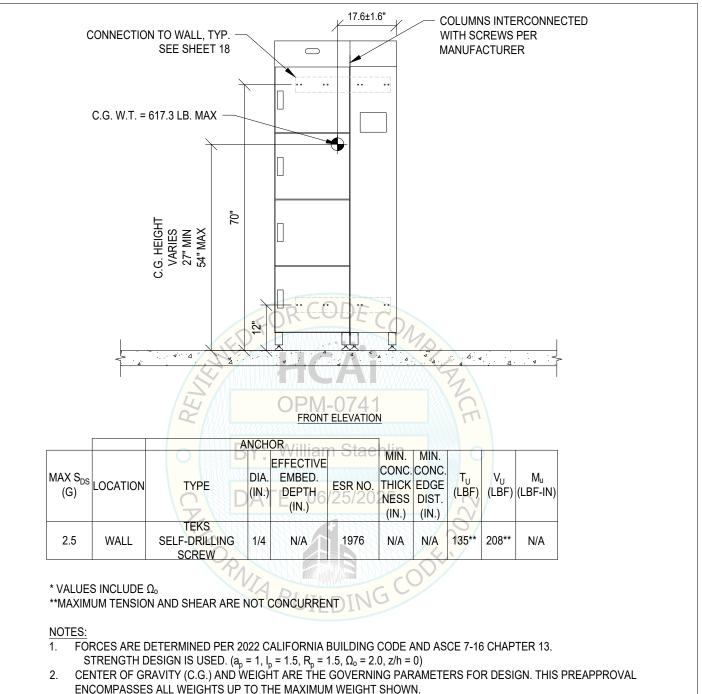
3.25

N/A

N/A

N/A

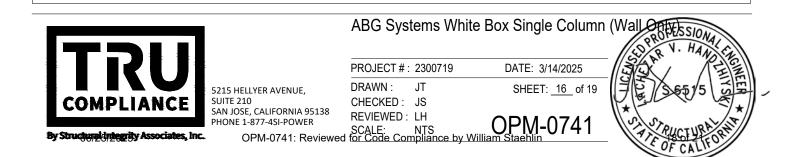


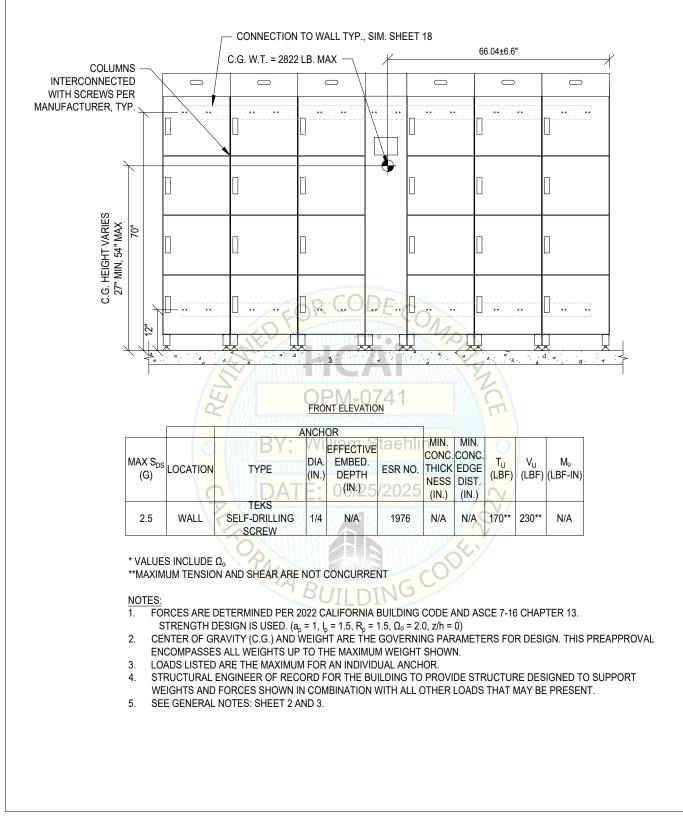


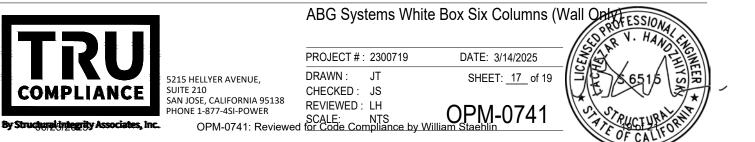
3. LOADS LISTED ARE THE MAXIMUM FOR AN INDIVIDUAL ANCHOR.

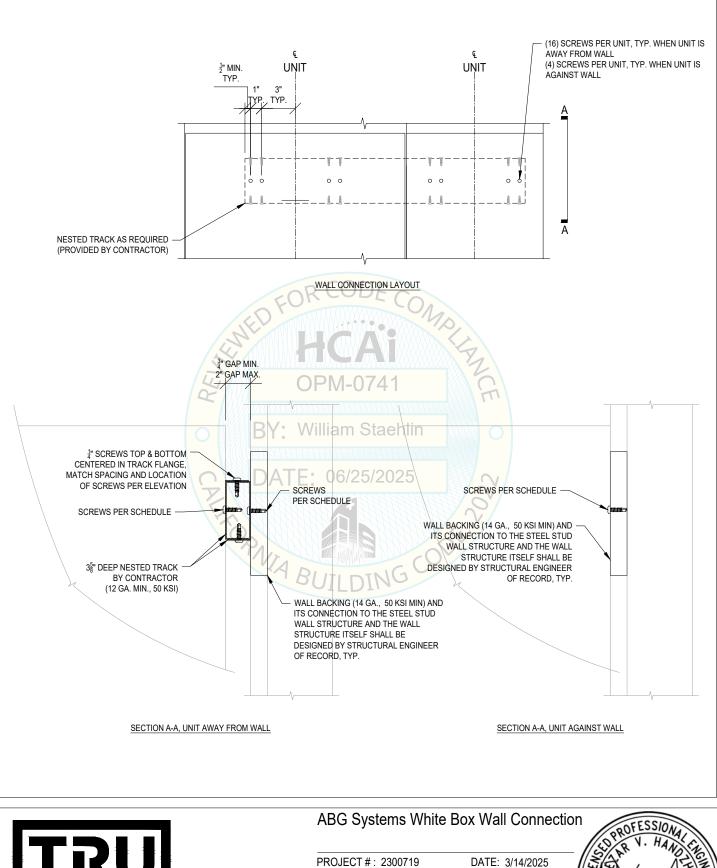
4. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING TO PROVIDE STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

5. SEE GENERAL NOTES: SHEET 2 AND 3.









ANCE

**REVIEWED: LH** PHONE 1-877-4SI-POWER

DRAWN :

CHECKED: JS

5215 HELLYER AVENUE,

SAN JOSE, CALIFORNIA 95138

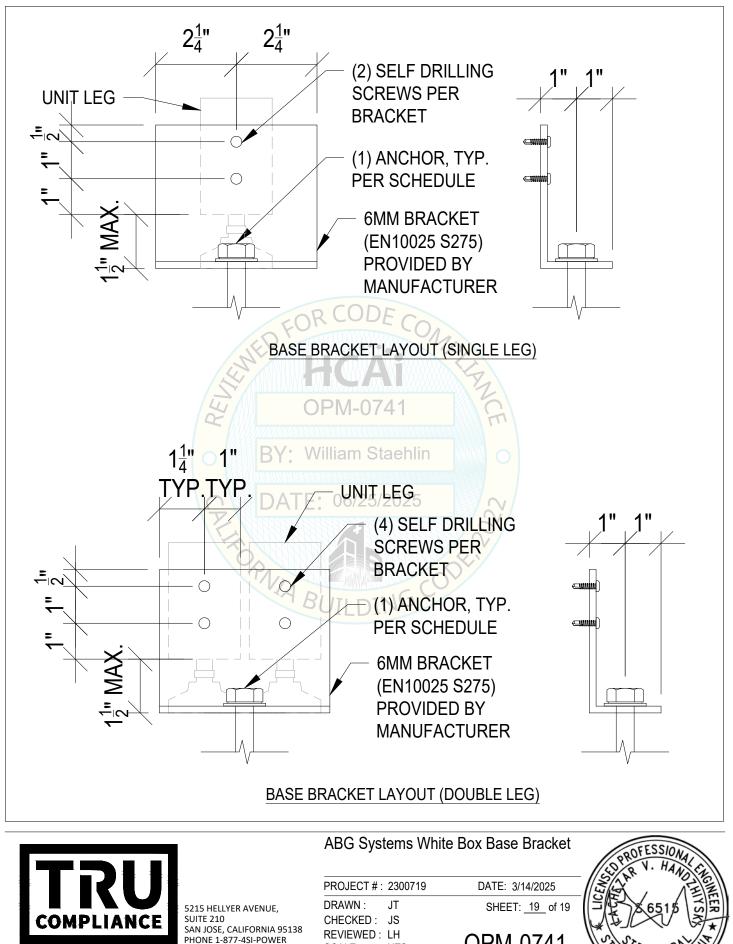
SUITE 210

JT

DPM-0741: Reviewed for Code Compliance by William Staehlin

SHEET: <u>18</u> of 19





OPM-0741: Reviewed for Code Compliance by William Staehlin