

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

- ANALINA -				
APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY			
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0400			
HCAI Preapproval of Manufacturer's Certification (OPM)				
Type: New X Renewal/Update				
Manufacturer Information				
Manufacturer: Baxter Healthcare Corporation				
Manufacturer's Technical Representative: Mike Weldon				
Mailing Address: One Baxter Parkway, Deerfield, IL 60015				
Telephone: (703) 213-6025 Email: Michael_Weldon@ba	xter.com			
ED FOR CODE COM				
Product Information				
Product Name: OVERHEAD BOOM MOUNTING SYSTEMS	2			
Product Type: DOUBLE ARM SOLO BOOM AND DOUBLE ARM TANDEM BOO	OM MC			
Product Model Number: TRUPORT BY William Staehlin				
General Description: BOOM MOUNTING SYSTEMS WITH AN 8-INCH AND 12-	INCH INTERSTITIAL SPACE			
P DATE: 12/13/2024	22			
Applicant Information				
Applicant Company Name: Baxter Healthcare Corporation				

Contact Person: Mike Weldon

Mailing Address: One Baxter Parkway, Deerfield, IL 60015

Telephone: (703) 213-6025 Email: Michael_Weldon@baxter.com

Title: US Commercial Marketing Manager

"A healthier California where all receive equitable, affordable, and quality health care"



STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Registered Design Professonal Preparing Engineering Recommendations
Company Name: CYS STRUCTURAL ENGINEERS, INC.
Name: Dieter Siebald California License Number: S4346
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833
Telephone: (916) 920-2020 Email: dieters@cyseng.com
HOALO CARA CONTRACTOR Decomposed (OOD)
HCAI Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP OSP Number:
EOR 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: 12/13/2024
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
COSE.
HCAI Approval
Date: 12/13/2024
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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- NOTES: 1. THESE DRAWINGS ARE PREPARED FOR BAXTER HEALTHCARE CORPORATION, ONE BAXTER PARKWAY, DEERFIELD, IL 60015.
 - 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OSHPD PRE-APPROVAL PROGRAMS WEBSITE.
 - 3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE OVERHEAD BOOMS TO THE SUPPORTING STRUCTURE. THE BOOMS & BOOM MOUNTING PLATES WITH CONNECTION HARDWARE ARE SUPPLIED BY BAXTER. ALL THREADED RODS, STRUCTURAL SUPPORT PLATE & REQUIRED ABOVE CEILING SUPPORT ELEMENTS SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.

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CYS STRUCTURAL ENGINEERS, INC.

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GENERAL NOTES:

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) OF A SITE SPECIFIC PROJECT TO VERIFY:
 - A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
- B. THAT THE ANCHORS INTO THE SOFFIT OF CONCRETE OVER METAL DECK FLOOR AND ROOF ASSEMBLIES ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
- C. THAT THE ANCHORS INTO THE SOFFIT OF CONCRETE OVER METAL DECK FLOOR AND ROOF ASSEMBLIES ARE AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPACING SHOWN IN THE TEST TORQUE TABLE ON PG 3 IS THE REQUIRED MINIMUM SPACING OF THE GIVEN DIAMETER ANCHORS. THE REQUIRED SPACING FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.
- D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2016 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
- E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, SUPPORT & ATTACHMENT LOCATIONS, SUPPORT & ATTACHMENT DETAILS, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
- 3. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING W/ ESR-1917 REISSUED MAY 2015 AND REVISED SEPTEMBER 2016.
- A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLE ON PG 3.
- B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOBSITE TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TORQUE IN THE ANCHOR SUCH AS CALIBRATED TORQUE WRENCH METHOD. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD (IOR). IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIP INSTALLATION. ALSO REFER TO CBC 1910A.5 "FIELD TESTS FOR POST—INSTALLED ANCHORS IN CONCRETE".
- C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

WEDGE TYPE: ONE-HALF (1/2) TURN OF THE NUT.

PROFESS /ONA/
No. S4346

No. S4346

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SHEET TITLE: GENERAL NOTES



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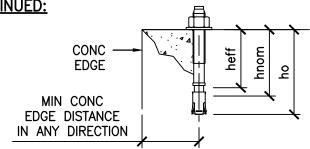
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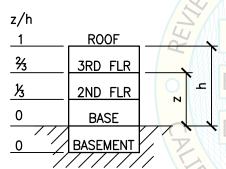


GENERAL NOTES CONTINUED:



ANCHOR DIA (INCH)	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) heff	HOLE DEPTH (INCH) ho	MIN CONC THK (INCH) h	MIN CONC EDGE DISTANCE (INCH)	MIN ANCHOR SPCG (INCH)	TEST TORQUE (FT-LBS)
1/2	3%	31/4	4 = (SEE <u>PG 18</u>	SEE <u>PG 18</u>	SEE <u>PG 18</u>	40

A SINGLE CASE OF ATTACHMENT IS SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:



ATTACHMENT DETAILS LOCATED AT UPPER FLRS & ROOF ABV THE BASE OF A BLDG. THE FLRS & ROOFS ARE ASSUMED TO BE BUILT OF A MIN 31/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK (f'c = 3000 PSI, MIN).

FOR z/h RATIOS & Sps VALUES SEE DESIGN CRITERIA & COMPONENT DWGS

BLDG ELEV

THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA. WHERE SDS IS LESS THAN OR EQ TO MAX SDS VALUE AT EACH COMPONENT AS NOTED ON DRAWINGS.

SHEET TITLE: GENERAL NOTES (CONTINUED)



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/\L	-	\	' I/\	v	10.

ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	IN (")	INCH
BLDG	BUILDING	KSI`´	KIPS PER SQUARE INCH
BRCG	BRACING	LBS	POUNDS
CBC	CALIFORNIA BUILDING CODE	LRFD	LOAD & RESISTANCE FACTOR DESIGN
CG	CENTER OF GRAVITY	MAX	MAXIMUM
CLG	CEILING	MIN	MINIMUM
Q	CENTERLINE	OPM	OSPHD PRE-APPROVAL OF
DIA (ø)	DIAMETER		MANUFACTURER'S CERTIFICATION

DIA (Ø) DIAMETER MANUFACTURER'S CERTIFICATION

(E) EXISTING OSHPD OFFICE OF STATEWIDE HEALTH PLANNING
FIN FINISH
FD HORIZONTAL SEISMIC FORCE PER PG PAGE

Fp HORIZONTAL SEISMIC FORCE PER PG PAGE
ASCE 7-10 SEISMIC FORCE REQUIREMENTS PL
FT (') FOOT/FEET SEOR STRUCTURAL ENGINEER OF RECORD

F_{pv} VERTICAL SEISMIC FORCE PER STL STEEL
ASCE 7–10 SEISMIC FORCE REQUIREMENTS STRUC STRUCTURAL
F_y SPECIFIED YIELD STRENGTH OF REINFORCING, THK THICK/THICKNESS
PSI OR SPECIFIED MINIMUM YIELD STRESS THRD THREAD OR THREADED

OF STEEL, KSI
GRADE

TYP
TYPICAL
ANCHORAGE SHEAR REACTION DUE

TO SEISMIC FORCE

VERT VERTICAL

COMPONENT OPERATING WEIGHT

WEIGHT
W/ WITH
W/O WITHOUT

DATE: 12/13/2024



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GRD



SUPPORT & ATTACHMENT DESIGN CRITERIA

DESIGN FOR OVERHEAD BOOM MOUNTING SYSTEM IS PER 2016 CBC AT LRFD LEVEL FORCES.

$$W_D = SEE PGS 6 & 7$$

$$z/h = SEE PGS 6 & 7$$

$$S_{DS} = SEE PGS 6 & 7$$

$$\mathbf{I}_{n} = 1.5$$

$$a_p = 2.5$$

$$R_{\rm p}$$
 = 2.5 Ω o = 2.0 (FOR ATTACHMENT TO CONCRETE)

MIN Fp =
$$0.30$$
 S_{DS} Ip Wp

MAX Fp = 1.60
$$S_{DS}$$
 Ip Wp

$$Fp = 0.4a_p S_{DS} Ip Wp (1+2 z/h)/Rp$$

$$F_{pv} = \pm 0.20 S_{DS} Wp$$

LOAD COMBINATIONS

$$(0.9 - 0.2 S_{DS}) D - Fp$$

$$(1.2 + 0.2 S_{DS}) D + Fp$$

COMPONENT FORCES (LRFD W/O Ωo) BY: William Staehlin

CRITICAL

Tu = TENSION

Vu = SHEAR

Mu = MOMENT

M_{Tu} =TORSIONAL MOMENT



SHEET TITLE: DESIGN CRITERIA

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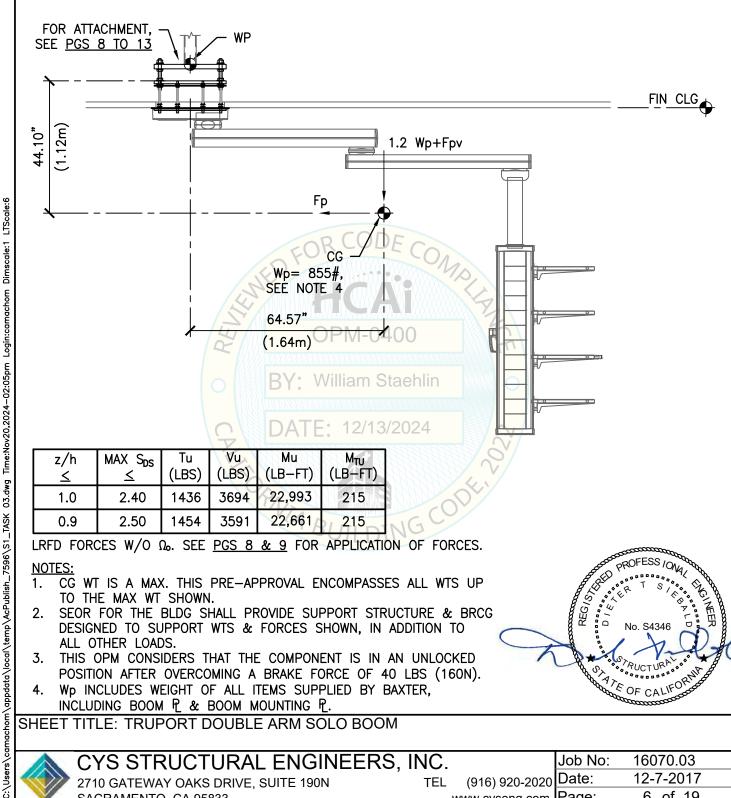
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LRFD FORCES W/O Ω. SEE PGS 8 & 9 FOR APPLICATION OF FORCES.

NOTES:

- CG WT IS A MAX. THIS PRE-APPROVAL ENCOMPASSES ALL WTS UP TO THE MAX WT SHOWN.
- SEOR FOR THE BLDG SHALL PROVIDE SUPPORT STRUCTURE & BRCG DESIGNED TO SUPPORT WTS & FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- THIS OPM CONSIDERS THAT THE COMPONENT IS IN AN UNLOCKED POSITION AFTER OVERCOMING A BRAKE FORCE OF 40 LBS (160N).
- Wp INCLUDES WEIGHT OF ALL ITEMS SUPPLIED BY BAXTER, INCLUDING BOOM P. & BOOM MOUNTING P.

SHEET TITLE: TRUPORT DOUBLE ARM SOLO BOOM



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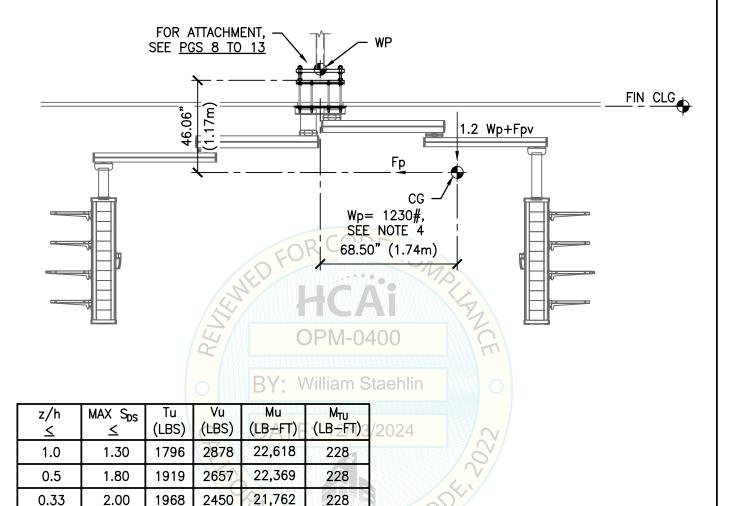
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LRFD FORCES W/O Q. SEE PGS 8 & 9 FOR APPLICATION OF FORCES.

21,979

228

2435

NOTES:

0.25

2.20

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- CG WT IS A MAX. THIS PRE-APPROVAL ENCOMPASSES ALL WTS UP TO THE MAX WT SHOWN.
- SEOR FOR THE BLDG SHALL PROVIDE SUPPORT STRUCTURE & BRCG DESIGNED TO SUPPORT WTS & FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
- THIS OPM CONSIDERS THAT THE COMPONENT IS IN AN UNLOCKED POSITION AFTER OVERCOMING A BRAKE FORCE OF 40 LBS (160N).
- WP INCLUDES WEIGHT OF ALL ITEMS SUPPLIED BY BAXTER, INCLUDING BOOM P. & BOOM MOUNTING P.

SHEET TITLE: TRUPORT DOUBLE ARM TANDEM BOOM



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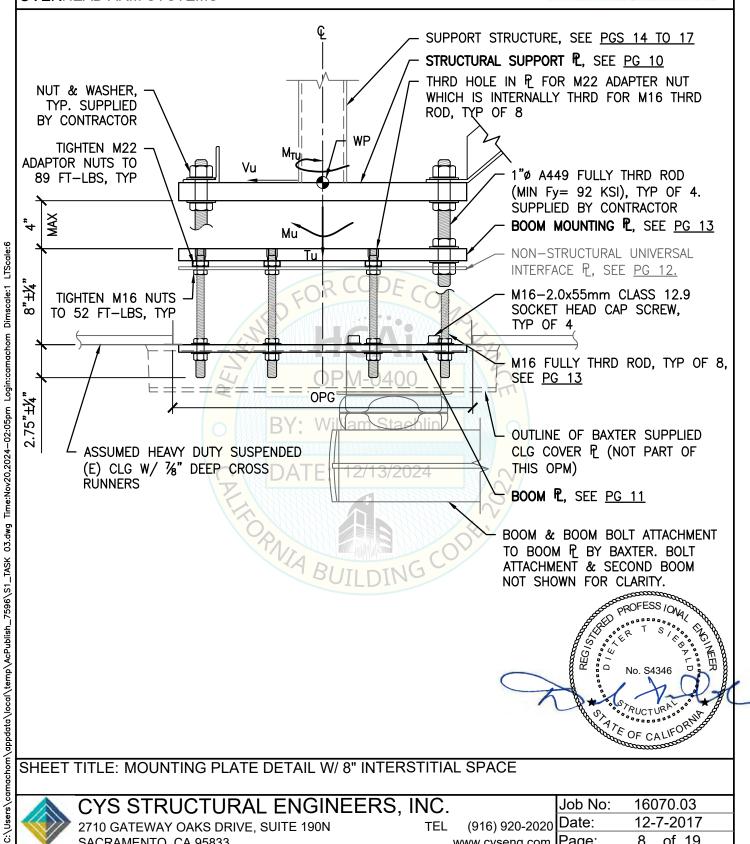
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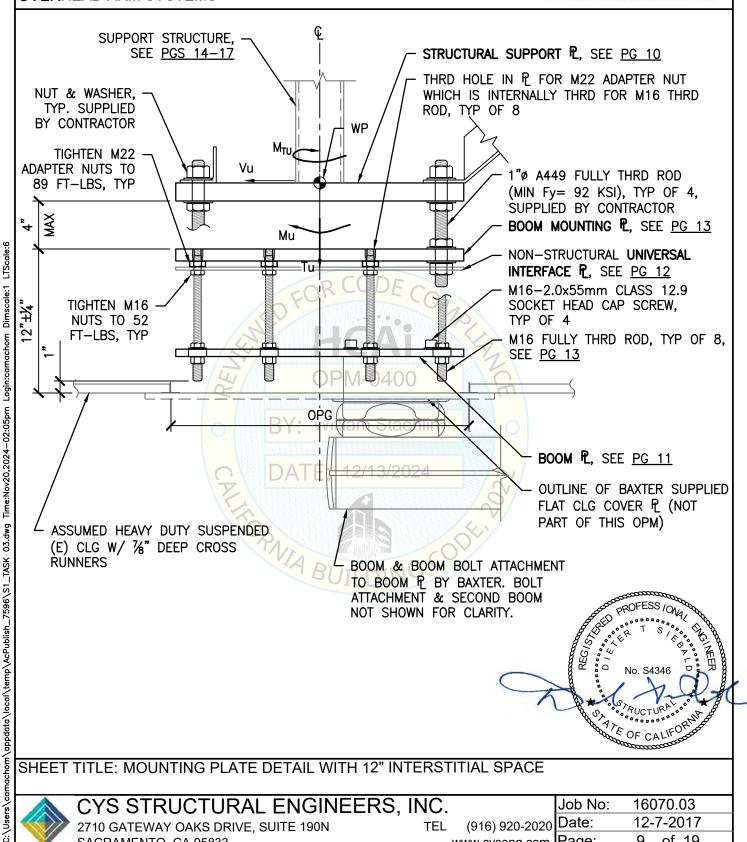




SHEET TITLE: MOUNTING PLATE DETAIL W/ 8" INTERSTITIAL SPACE

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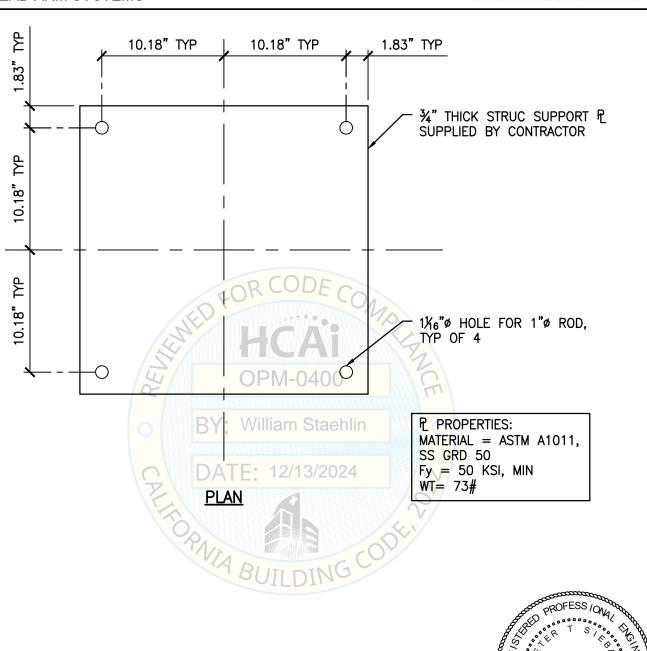
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SHEET TITLE: STRUCTURAL SUPPORT PLATE DETAIL



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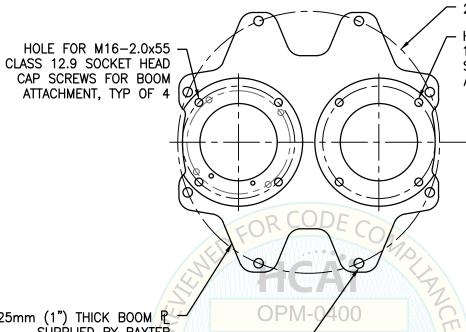
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22.05"ø BOLT CIRCLE

HOLE FOR M16-2.0x55 CLASS 12.9 SOCKET HEAD CAP SCREWS FOR BOOM ATTACHMENT, TYP OF 4

25mm (1") THICK BOOM P SÙPPLIED BY BAXTER

> HOLE DIA= 20.5mm (0.81") Hole Staehlin FOR M16 RODS, TYP OF 8

> > 12/13/2024

P PROPERTIES: MATERIAL = S355J2+N(EN 10025, EN 10029) Fy = 50 KSI MIN ŴT= 77#

NOTES:

- 1. FOUR (4) M16 BOLTS RESIST SOLO BOOM.
- 2. EIGHT (8) M16 BOLTS (2x4) RESIST TWO TANDEM BOOMS.



SHEET TITLE: BOOM PLATE FOR SOLO OR TANDEM BOOMS



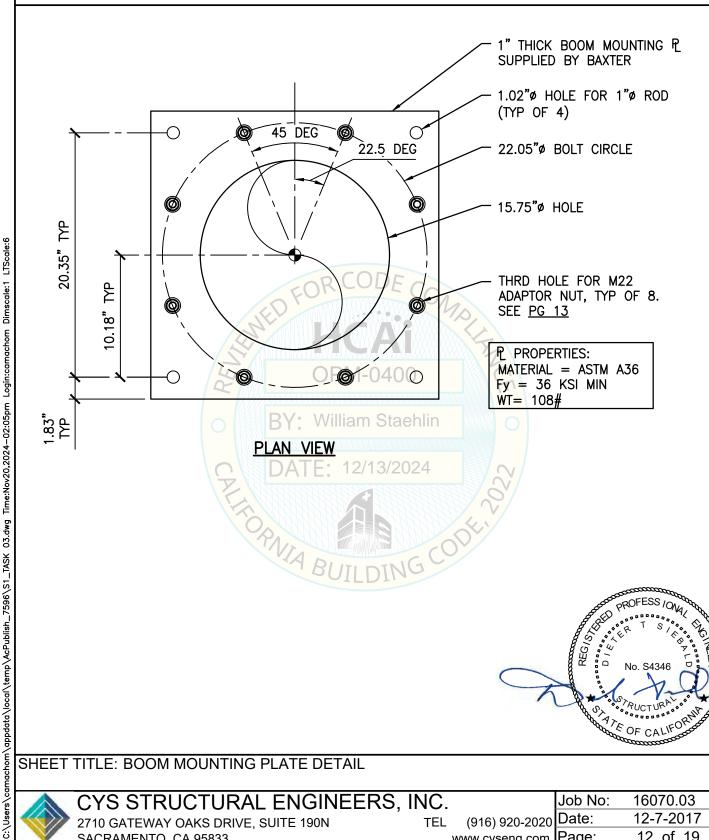
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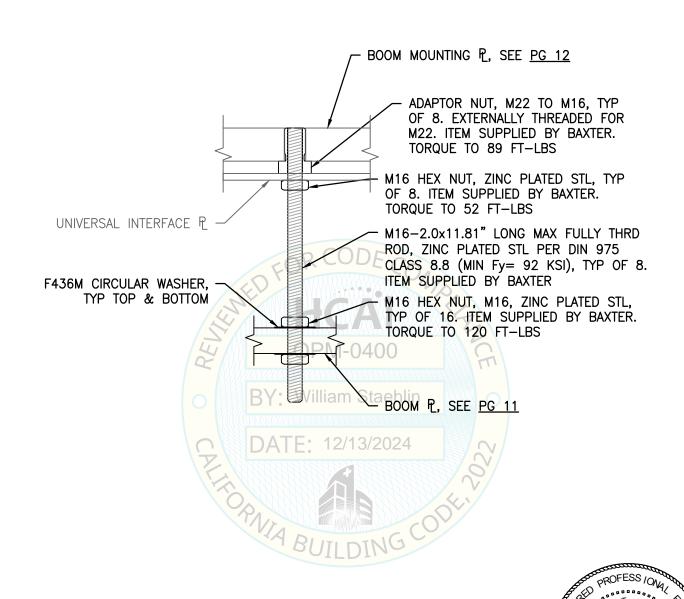






SHEET TITLE: BOOM MOUNTING PLATE DETAIL

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SHEET TITLE: THREADED ROD DETAIL

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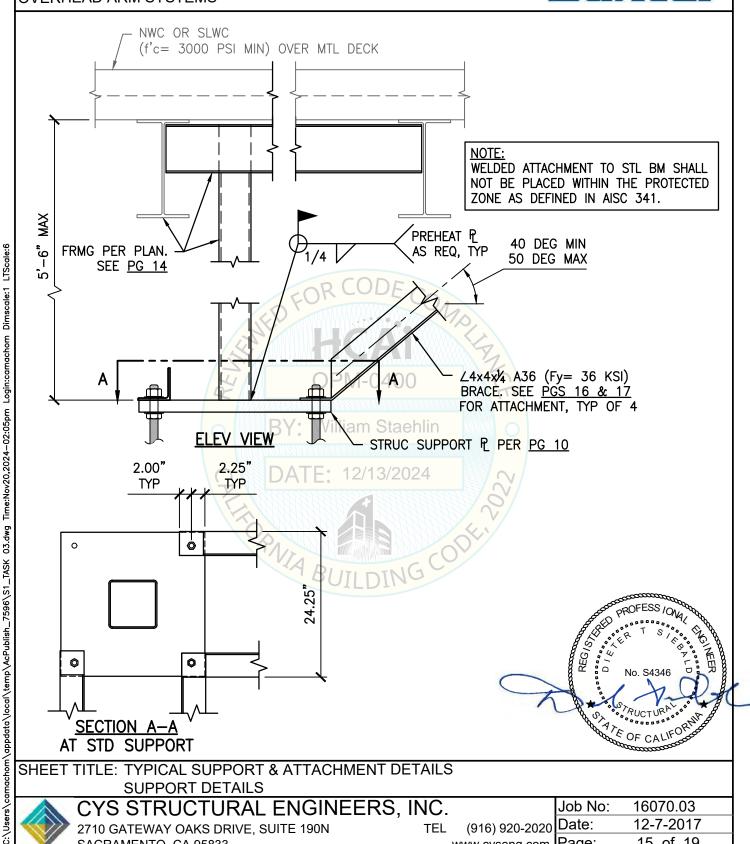
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BAXTER HEALTHCARE CORPORATION Baxter OVERHEAD ARM SYSTEMS DECK SPAN 12'-0" OC MAX 6" MIN HSS8x8x1/4, ASTM A500 GRD B (Fy= 46 KSI MIN) C8x13.7 ASTM A36 (E) BM الی SUBFRAMING, TYP WEB, TYP ∠4x4x¼ BRACE, WHERE OCCURS SEE PG 16 В В 2.125" Time:Nov20,2024-02:05pm Login:camachom Dimscale:1 LTScale:6 PLAN VIEW 0.25"± .50. T CHANNEL PER PLAN 2-¾"ø A325 **BOLTS** (E) BM **CHANNEL** William WELDED PER PLAN ATTACHMENT TO STL BM SHALL NOT BE PLACED WITHIN **HSS** %x3¼x0'-8" A36 ₽ THE PROTECTED PER PLAN ZONE AS DEFINED IN AISC 341 2-34" Ø A325 BOLTS 03.dwg SECTION B-B SECTION A-A 0.25"± C:\Users\camachom\appdata\local\temp\AcPublish_7596\S1_TASK .50<u>.</u> ₹ CHANNEL 2-34" ø A325 BOLTS PER PLAN CHANNEL PER PLAN %x3¼x0'-8" A36 ₽ 3/16 🗸 E OF CALIF SECTION C-C SHEET TITLE: TYPICAL SUPPORT & ATTACHMENT DETAILS SUPPORT DETAILS CYS STRUCTURAL ENGINEERS, INC. 16070.03 Job No: (916) 920-2020 Date: 12-7-2017 TEL 2710 GATEWAY OAKS DRIVE, SUITE 190N www.cyseng.com Page: 14 of 19 SACRAMENTO, CA 95833





SUPPORT DETAILS

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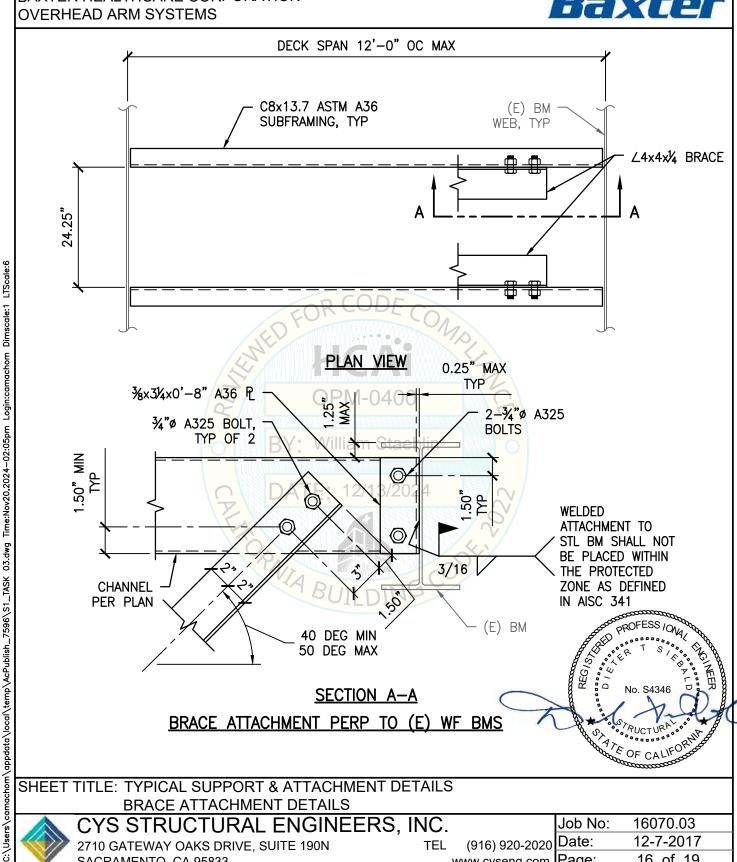
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BAXTER HEALTHCARE CORPORATION





SHEET TITLE: TYPICAL SUPPORT & ATTACHMENT DETAILS **BRACE ATTACHMENT DETAILS**

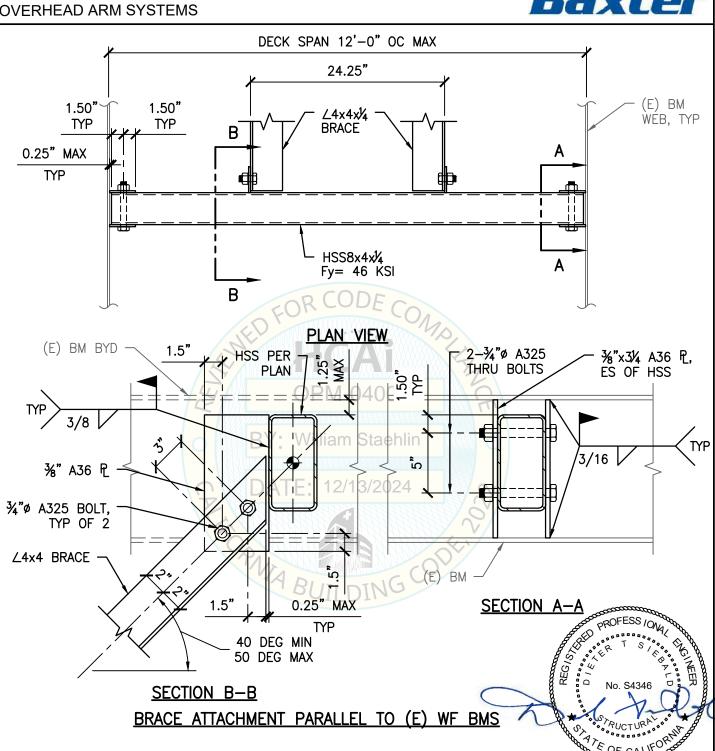
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SHEET TITLE: TYPICAL SUPPORT & ATTACHMENT DETAILS BRACE ATTACHMENT DETAILS

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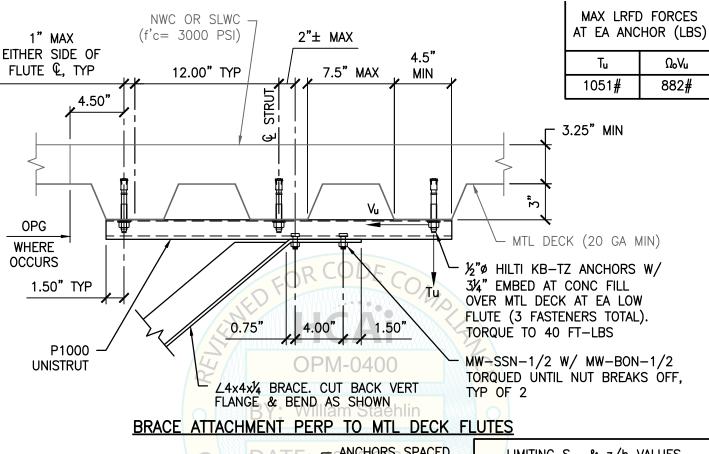
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BAXTER HEALTHCARE CORPORATION OVERHEAD ARM SYSTEMS NWC OR SLWC -(f'c = 3000 PSI)1" MAX





ANCHORS SPACED LIMITING SDS & z/h VALUES PER ABV, TYP OF 3 SOLO BOOM TANDEM BOOM z/h 1.00 0.50 1.00 0.50 1.20 1.80 1.30 SDS 0.90 P1000

NOTES:

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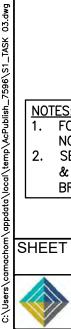
- FOR INFO NOT SHOWN OR NOTED SEE DTL ABV.
- 2. SEE TABLE FOR LIMITING Sps. & z/h VALUES FOR THIS BRACE ATTACHMENT OPTION.

∠4x4x1/4 **BRACE**

BRACE ATTACHMENT PARALLEL TO MTL DECK FLUTES

SHEET TITLE: TYPICAL SUPPORT & ATTACHMENT DETAILS

BRACE ATTACHMENT DETAILS (OPTIONAL) CYS STRUCTURAL ENGINEERS, INC.



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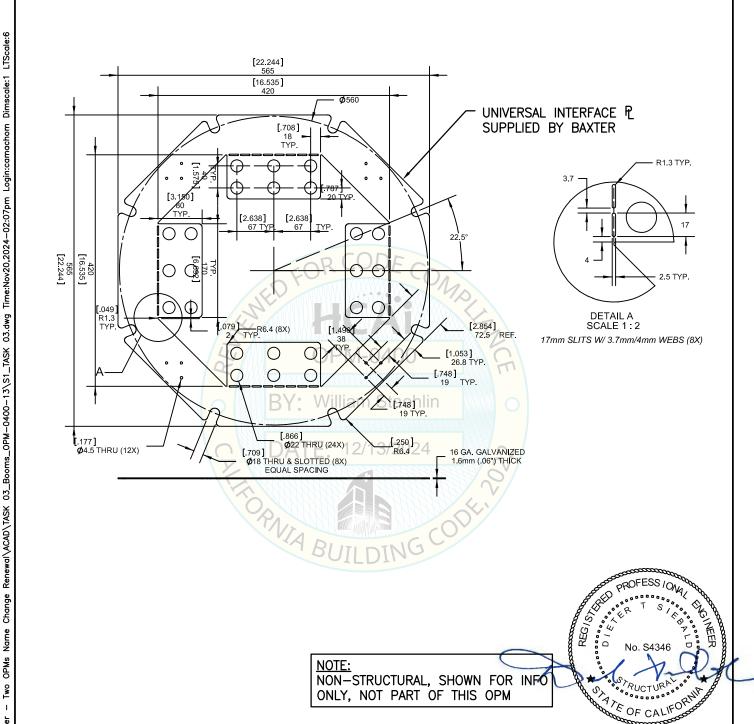
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UNISTRUT x 27" LONG

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SHEET TITLE: APPENDIX

UNIVERSAL INTERFACE PLATE

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