



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0529

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: AGFA Healthcare Corporation

Manufacturer's Technical Representative: Betsy Raines

Mailing Address: 10 South Academy Street, Greenville, SC 29601

Telephone: () - Email: betsy.raines@agfa.com

Product Information

Product Name: EDITOR HFe 801 (80 kw) GENERATOR + STORAGE CABINET

Product Type: Generator

Product Model Number: N/A

General Description: Generator for the DR 600 Digital X-Ray System

Applicant Information

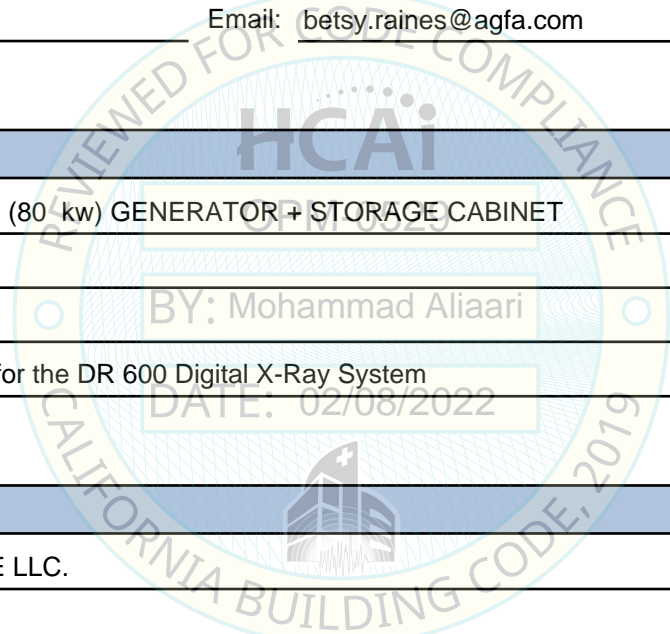
Applicant Company Name: EASE LLC.

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





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

Registered Design Professional 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

HCAI Special Seismic Certification Preapproval (OSP)

[X] Special Seismic Certification is preapproved under OSP OSP Number: OSP-O527-10

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 HCAI prior to testing.

[X] Analysis
[] Experience Data
[] Combination of Testing, Analysis, and/or Experience Data (Please Specify):

HCAI Approval

Date: 2/8/2022
Name: Mohammad Aliaari Title: Senior Structural Engineer
Condition of Approval (if applicable):



**EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**

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

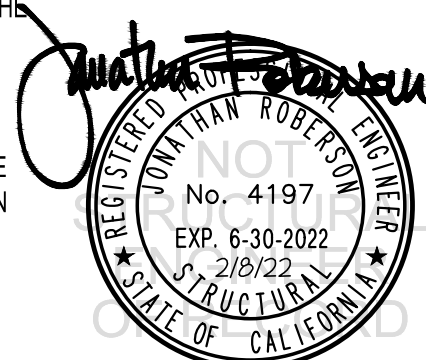
The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0529

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **AGFA HEALTHCARE CORP** Sheet: 1 of 7
EQUIPMENT NAME: **EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET** Date: 2/8/22

GENERAL NOTES

1. THIS HCAI 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 S_{ds} IS NOT GREATER THAN 2.00. 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 $S_{ds} = 2.00$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 2.5$, $z/h = 0$ AT CONCRETE SLAB & $z/h \leq 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω .
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. $z/h \leq 1$)
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 S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) 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 $6h_{ef}$ FROM THIS UNIT'S ANCHORS.



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DES. **J. ROBERSON**

SHEET

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JOB NO. **11-2126**

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OF **7** 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
1/2"	* Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	9"	16"	3.25" Over Flutes	50 FT-LB	1190
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	9"	16"	4"	50 FT-LB	1190

*ANCHOR CAN ALSO BE USED IN NORMAL WEIGHT CONCRETE

B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 16" 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.

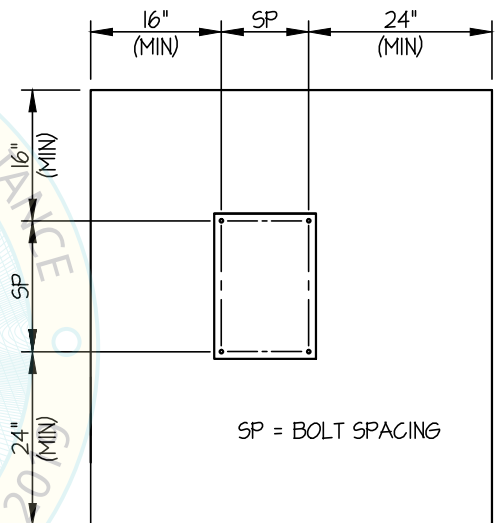
(ii) ACCEPTANCE CRITERIA:

- 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.



TYPICAL CONCRETE EDGE DETAIL



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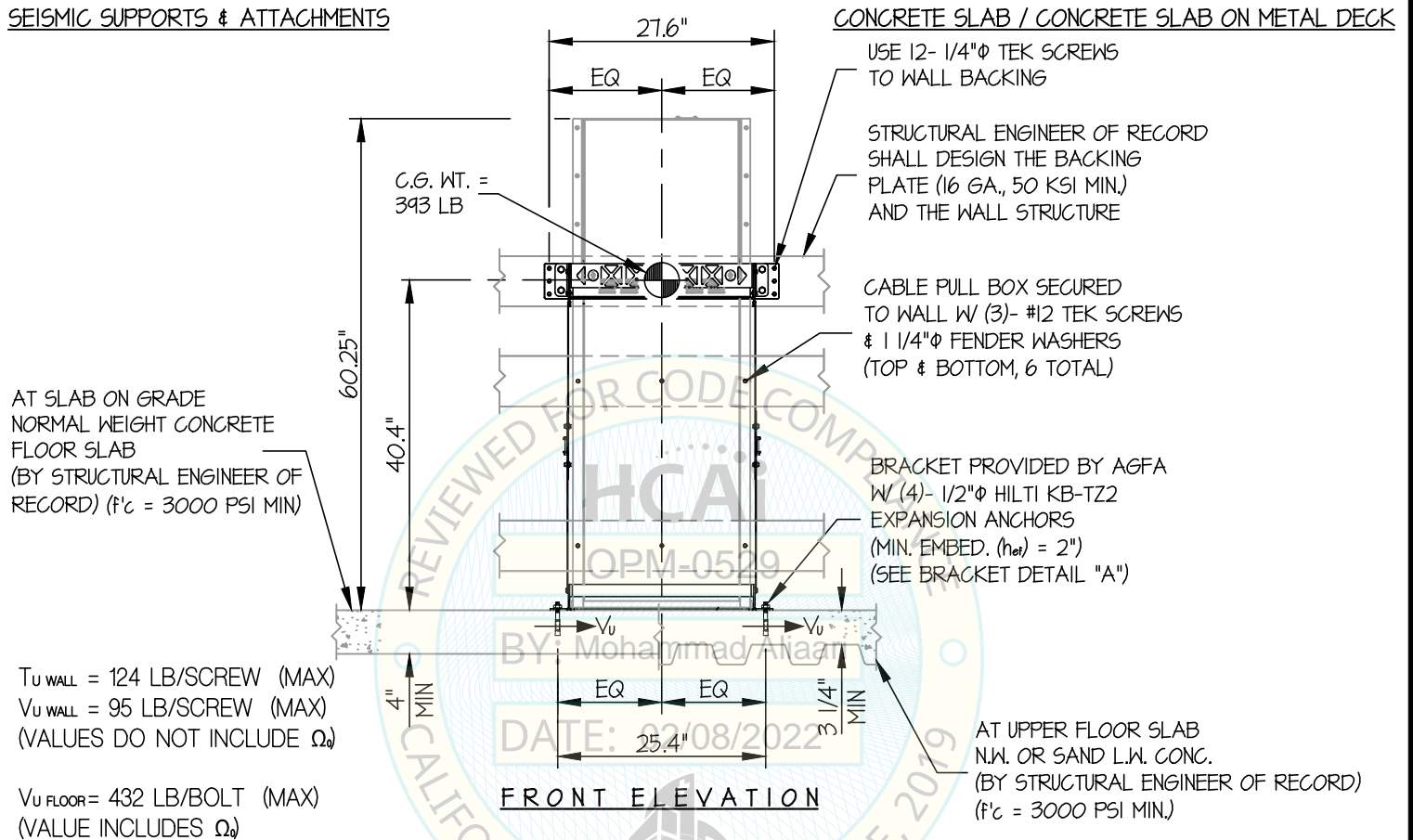
EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET

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DATE 2/8/22

OF 7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



NOTES:

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

STRENGTH DESIGN IS USED. (S_{Ds} = 2.00, α_p = 1.0, I_p = 1.5, R_p = 2.5, Ω₀ = 2.0, z/h ≤ 1)

HORIZONTAL FORCE (E_h) = 1.44 W_p

HORIZONTAL FORCE (E_{mh}) = 2.88 W_p (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = 0.40 W_p

- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 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
- EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET (UUT 1801-8 AND UUT 1801-12) HAS OBTAINED SPECIAL SEISMIC CERTIFICATION REFER TO OSP-0527-10.
- SEE GENERAL NOTES: SHEETS 1 AND 2.



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DES. J. ROBERSON

SHEET

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EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET

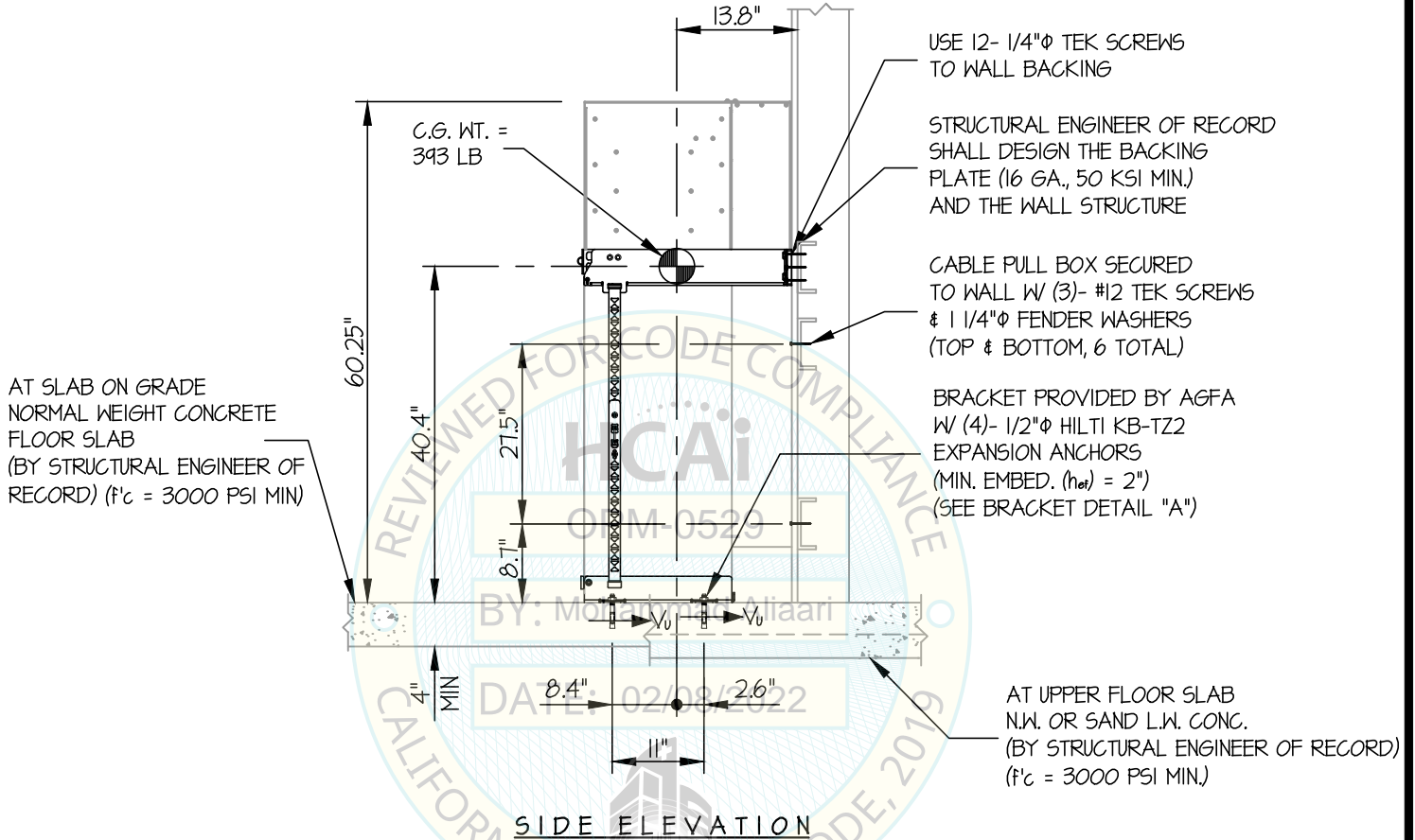
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OF 7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB / CONCRETE SLAB ON METAL DECK



REGISTERED PROFESSIONAL ENGINEER
 JONATHAN ROBERSON
 No. 4197
 EXP. 6-30-2022
 2/8/22
 STRUCTURAL
 STATE OF CALIFORNIA

AGFA HEALTHCARE CORP

DES. J. ROBERSON

SHEET

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EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET

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SEISMIC SUPPORTS & ATTACHMENTS

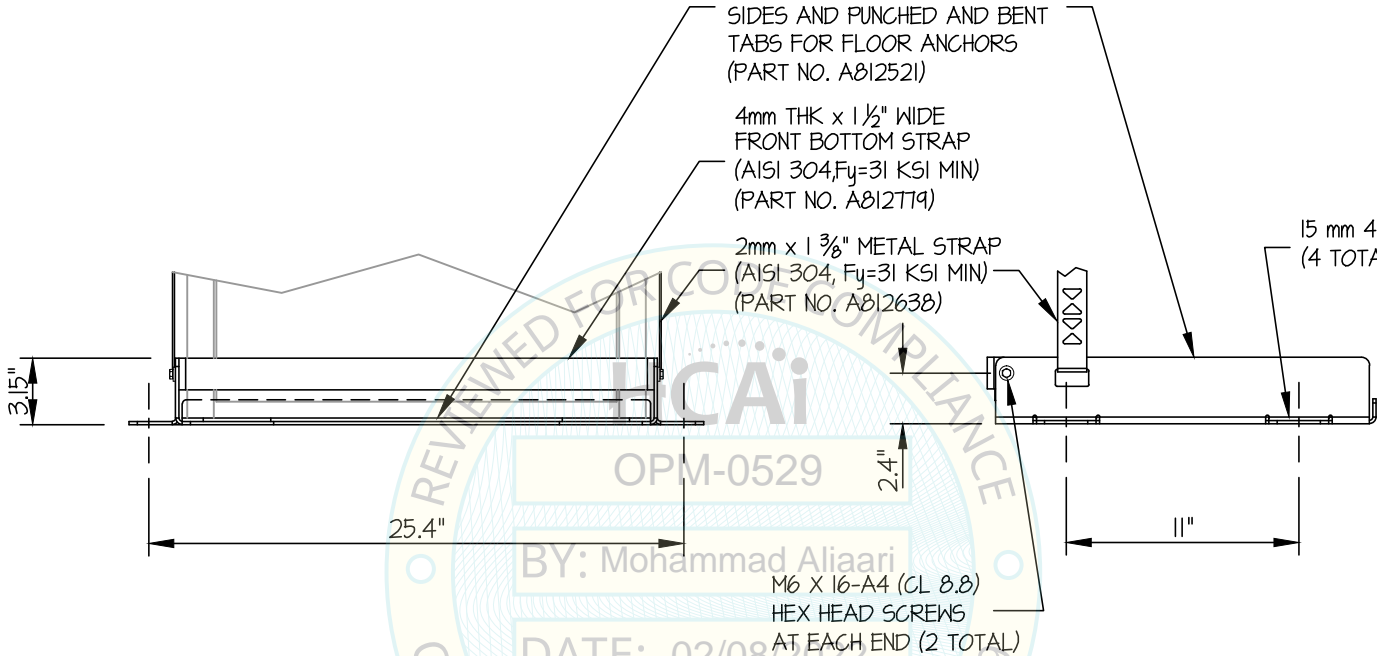
BRACKET DETAIL

4mm BASE PLATE
(AISI 316, Fy=42 KSI MIN)
PLATE MATCHES UNIT'S PLAN
DIMENSION W BENT ANGLES AT
SIDES AND PUNCHED AND BENT
TABS FOR FLOOR ANCHORS
(PART NO. A812521)

4mm THK x 1 1/2" WIDE
FRONT BOTTOM STRAP
(AISI 304, Fy=31 KSI MIN)
(PART NO. A812779)

2mm x 1 3/8" METAL STRAP
(AISI 304, Fy=31 KSI MIN)
(PART NO. A812638)

15 mm 4 HOLE
(4 TOTAL)



FLOOR BRACKET DETAIL (A)

OPM-0529

BY: Mohammad Aliaari

DATE: 02/08/2022



AGFA HEALTHCARE CORP

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SHEET

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EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET

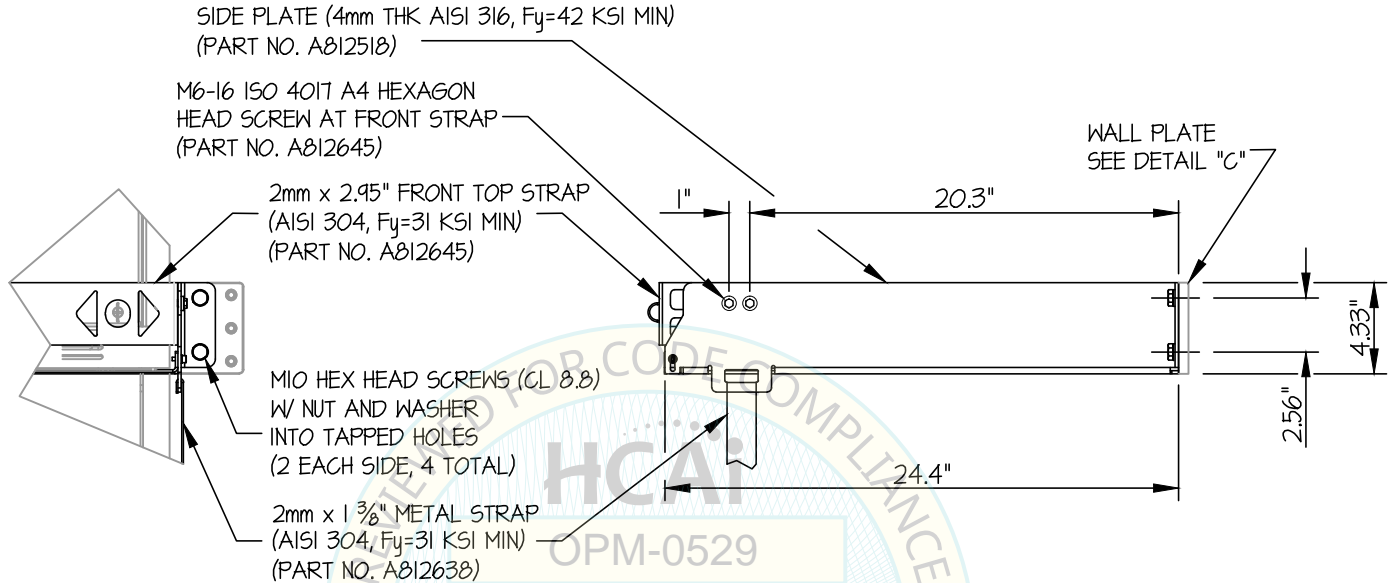
JOB NO. **11-2126**

DATE **2/8/22**

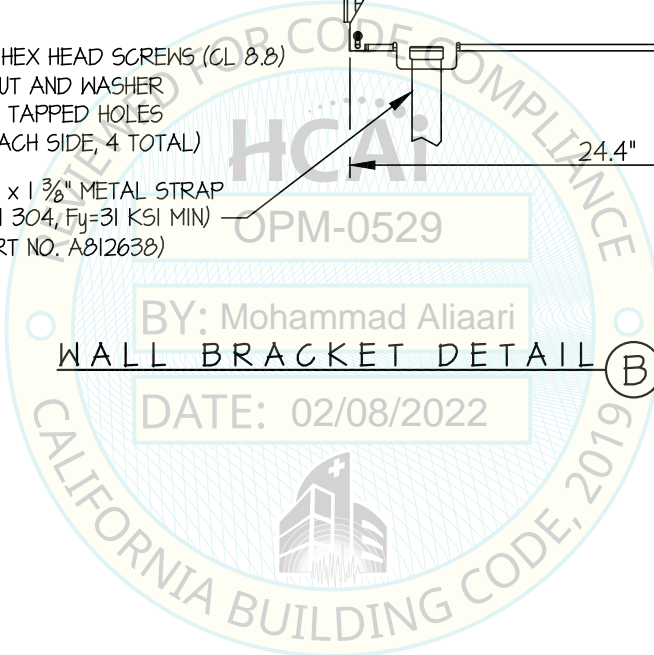
OF **7** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



BY: Mohammad Aliaari
WALL BRACKET DETAIL (B)
 DATE: 02/08/2022



AGFA HEALTHCARE CORP

DES. J. ROBERSON

SHEET

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EDITOR HFe 801 (80 kW) GENERATOR + STORAGE CABINET

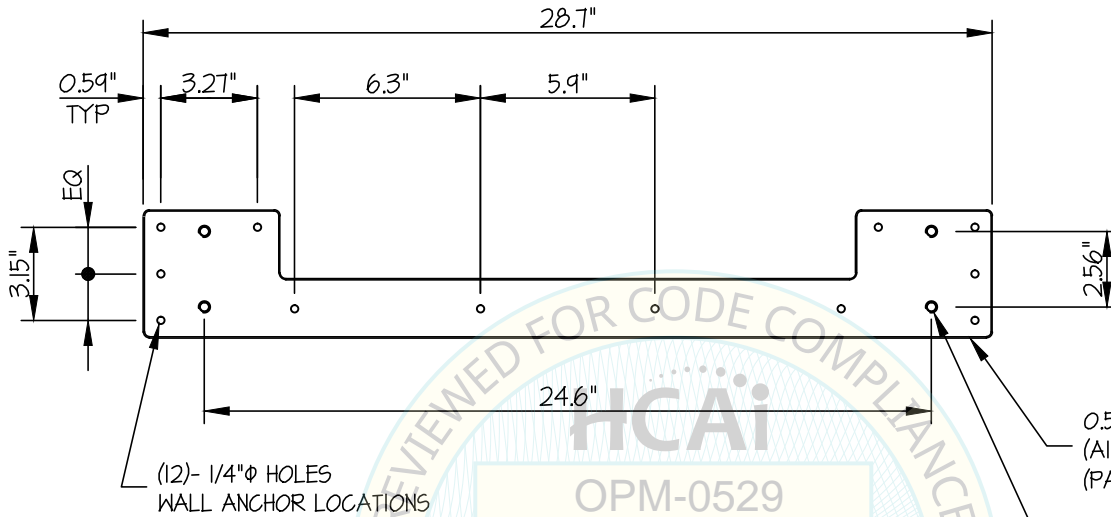
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OF 7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



0.59" THK WALL PLATE
(AISI 304, F_y=31 KSI MIN)
(PART NO. A812781)

M10 TAPPED HOLES
(2 EACH SIDE, 4 TOTAL)

WALL PLATE DETAIL (C)

DATE: 02/08/2022

