



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0553

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal/Update

Manufacturer Information

Manufacturer: Cintas Corporation

Manufacturer's Technical Representative: Hopeton Skyers

Mailing Address: 1055 Progress Industrial Blvd, Lawrenceville, GA 30043

Telephone: (678) 476-5149 Email: SkyersH@cintas.com

Product Information

Product Name: D-Series Scrub Dispenser & R-Series Scrub Return Units

Product Type: Other Mechanical or Electrical Component

Product Model Number: Dispensers: D10/D10-I, D-16/D16-I, D20/D20-I, D300 - Returns: R110/110-I, R310/310-I

General Description: Dispensers & Returns for Medical Scrubs

Applicant Information

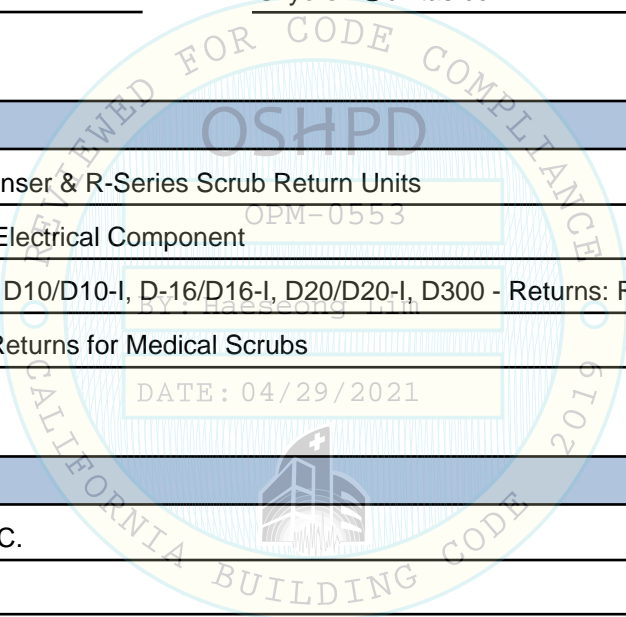
Applicant Company Name: EASE LLC.

Contact Person: Tiffany Tonn

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

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

Title:





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
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: 909-606-7622 Email: J.Roberson@EASECo.com

OSHDP Special Seismic Certification Preapproval (OSP)

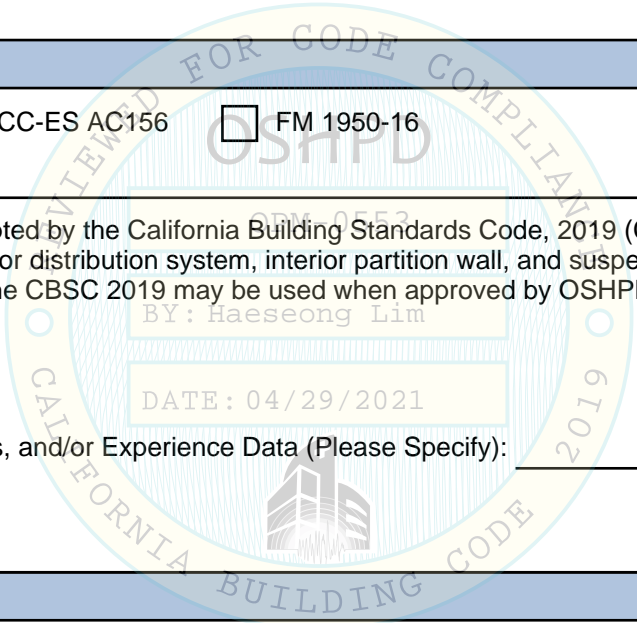
Special Seismic Certification is preapproved under OSP OSP Number: _____

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 OSHDP prior to testing.

- Analysis
- Experience Data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____



OSHDP Approval

Date: 4/29/2021
 Name: Haeseong Lim 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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0553

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **CINTAS HEALTHCARE SOLUTIONS**

Sheet: 1 of 13

EQUIPMENT NAME: **D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS**

Date: 4/26/21

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 S_{Ds} IS NOT GREATER THAN 2.20. 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 $S_{Ds} = 2.20$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_o
WHERE $S_{Ds} = 2.20$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h = 0$ AT CONCRETE SLAB & $z/h \leq 1$ AT CONCRETE SLAB ON METAL DECK.
SEE FOLLOWING SHEETS FOR Ω_o .
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.



CINTAS HEALTHCARE SOLUTIONS

DES. **J. ROBERSON**

SHEET

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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

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DATE **4/26/21**

OF **13** 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"	25 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	3.25"	10"	24"	6"	40 FT-LB	3325 lb

B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

C. TESTING OF EXPANSION ANCHORS PER 2019 CBC, 1910A.5: TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD

(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.

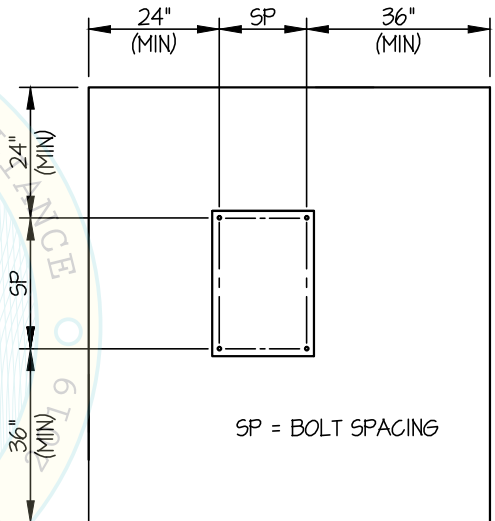
E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

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

BY: Haeseong Lim



CINTAS HEALTHCARE SOLUTIONS

DES. J. ROBERSON

SHEET

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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

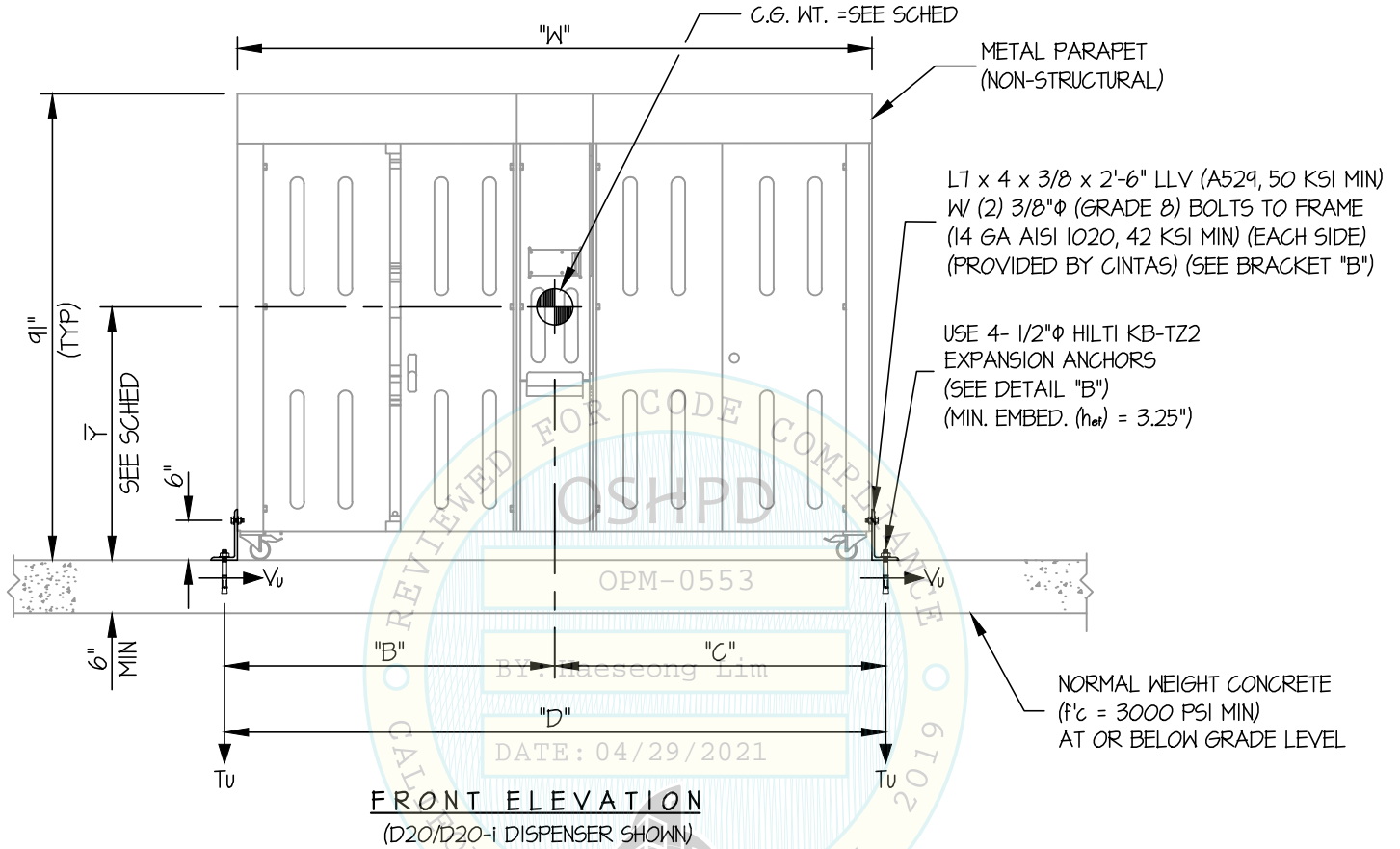
JOB NO. 11-1915

DATE 4/26/21

OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

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

STRENGTH DESIGN IS USED. ($S_{ds} = 2.20$, $\alpha_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $\Omega_e = 1.5$, $z/h = 0$)

HORIZONTAL FORCE (E_h) = $0.99 W_p$

HORIZONTAL FORCE (E_{mh}) = $1.49 W_p$ (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = $0.44 W_p$

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.



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DES. **J. ROBERSON**

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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

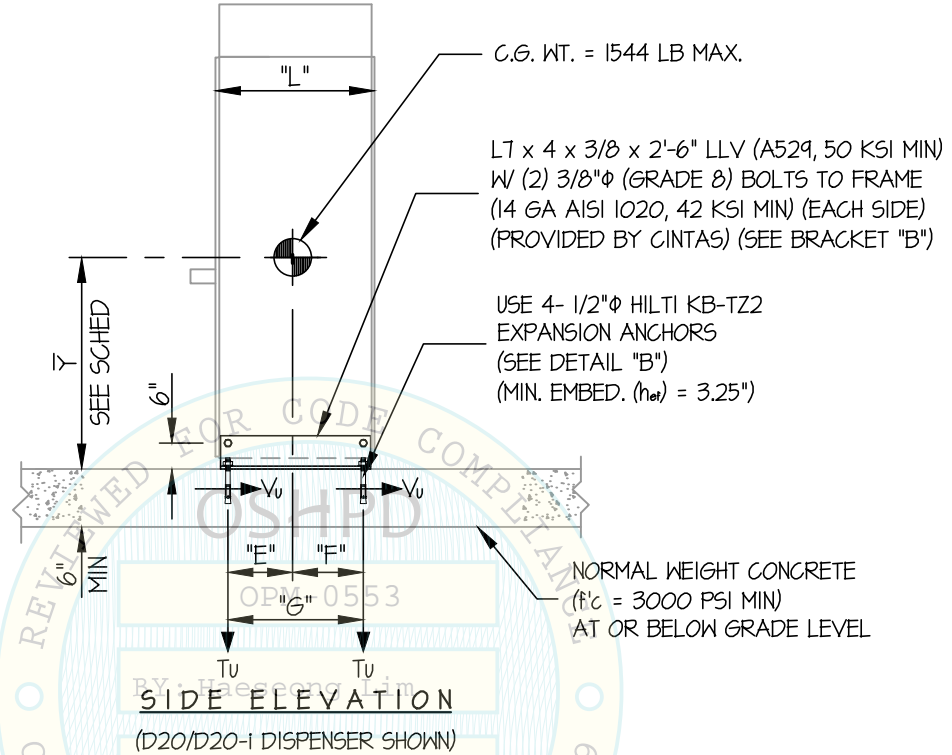
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DATE **4/26/21**

OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



UNIT NUMBER	MAX OPERATING WEIGHT (lb.)	"B" (in)	"C" (in)	"D" (in)	"E" (in)	"F" (in)	"G" (in)	"L" (in)	"W" (in)	Y (in)	* Tu (lb.)	* Vu (lb.)
D10/D10-i	1103	43.0	36.3	79.3	13.3	13.7	27	32.0	74.8	39.0	1271	571
D16/D16-i	1323	55.2	57.6	112.8	12.7	14.3	27	32.0	108.3	41.2	1491	673
D20/D20-i	1544	64.3	66.2	130.5	13.3	13.7	27	32.0	126.0	41.2	1711	759
D200	1103	60.4	15.2	75.6	9.9	17.1	27	30.5	71.1	18.5	795	813
D300	1323	64.3	65.2	129.5	9.9	17.1	27	30.5	125.0	26.4	902	773

* VALUES INCLUDE Ω_o

Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
 JONATHAN ROBERSON
 No. 4197
 EXP. 6-30-2022
 4/26/21
 STRUCTURAL
 STATE OF CALIFORNIA

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DES. J. ROBERSON

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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

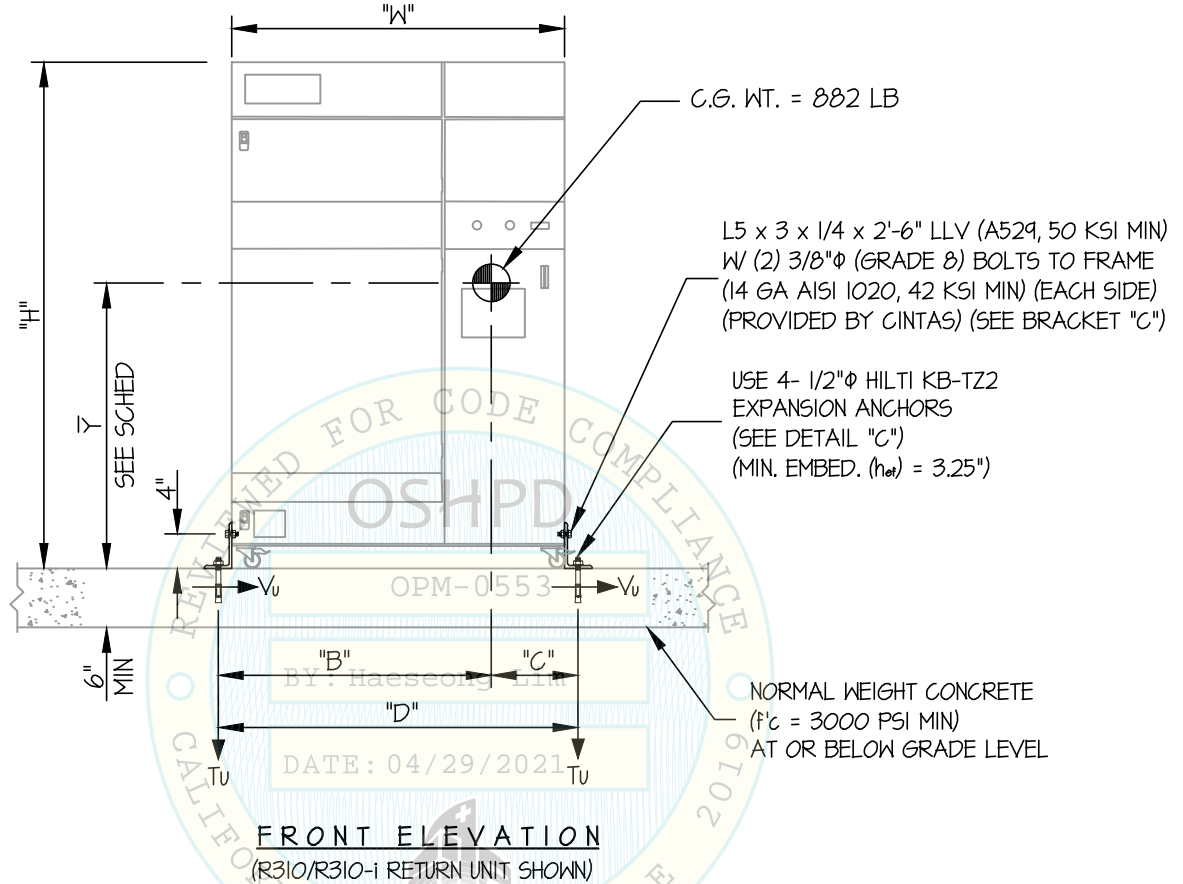
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

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

STRENGTH DESIGN IS USED. (S_{ds} = 2.20, α_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_o = 1.5, z/h = 0)

HORIZONTAL FORCE (E_h) = 0.99 W_p

HORIZONTAL FORCE (E_{mh}) = 1.49 W_p (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = 0.44 W_p

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.



CINTAS HEALTHCARE SOLUTIONS

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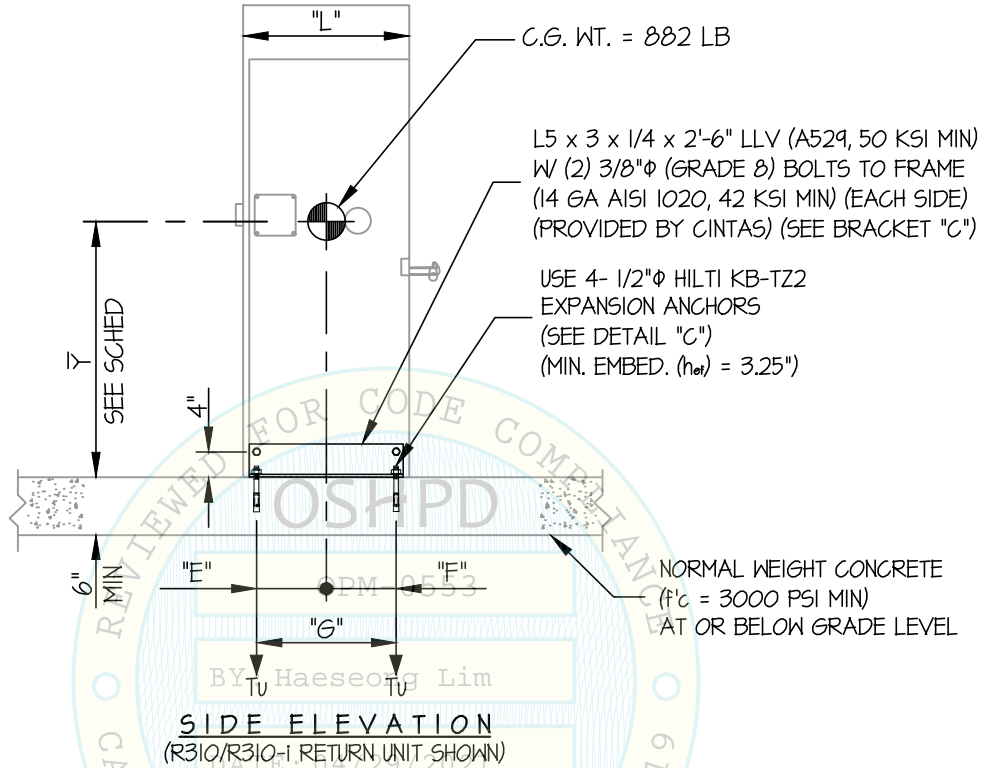
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



UNIT NUMBER	MAX OPERATING WEIGHT (lb.)	"H" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"L" (in.)	"W" (in.)	\bar{Y} (in.)	* T_u (lb.)	* V_u (lb.)
R110/R110-i	662	78.0	10.8	30.8	41.6	12.60	15.15	27.75	30.9	38.3	50.4	1399	446
R310/R310-i	882	89.6	47.8	14.7	62.5	20.33	7.42	27.75	31.8	59.3	50.2	1823	647

* VALUES INCLUDE Ω .



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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

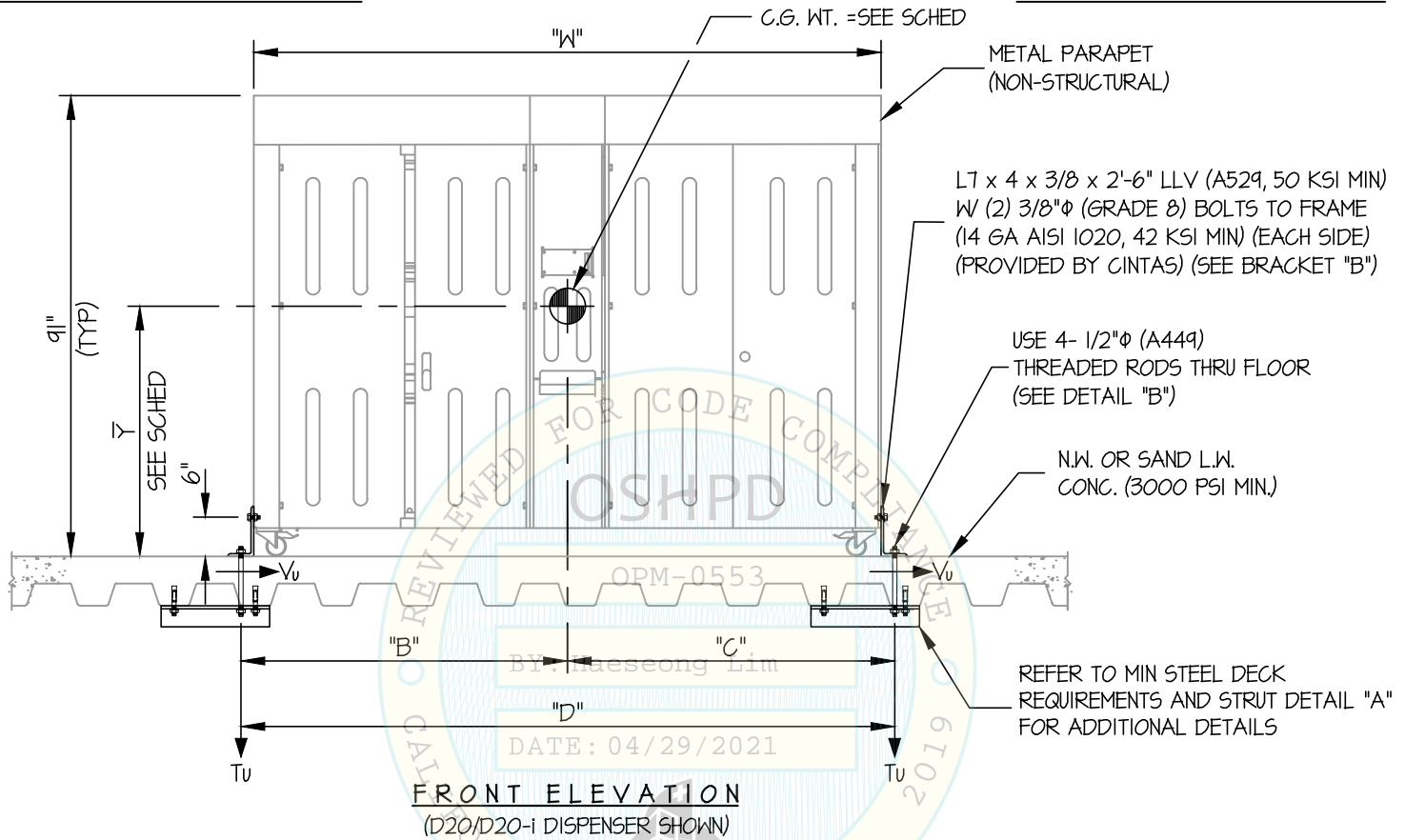
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

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

STRENGTH DESIGN IS USED. ($S_{Ds} = 2.20$, $a_p = 1.0$, $l_p = 15$, $R_p = 1.5$, $\Omega_o = 1.5$, $z/h \leq 1$)

HORIZONTAL FORCE (E_h) = $2.64 W_p$

HORIZONTAL FORCE (E_{mh}) = $3.96 W_p$ (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = $0.44 W_p$

- 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.



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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

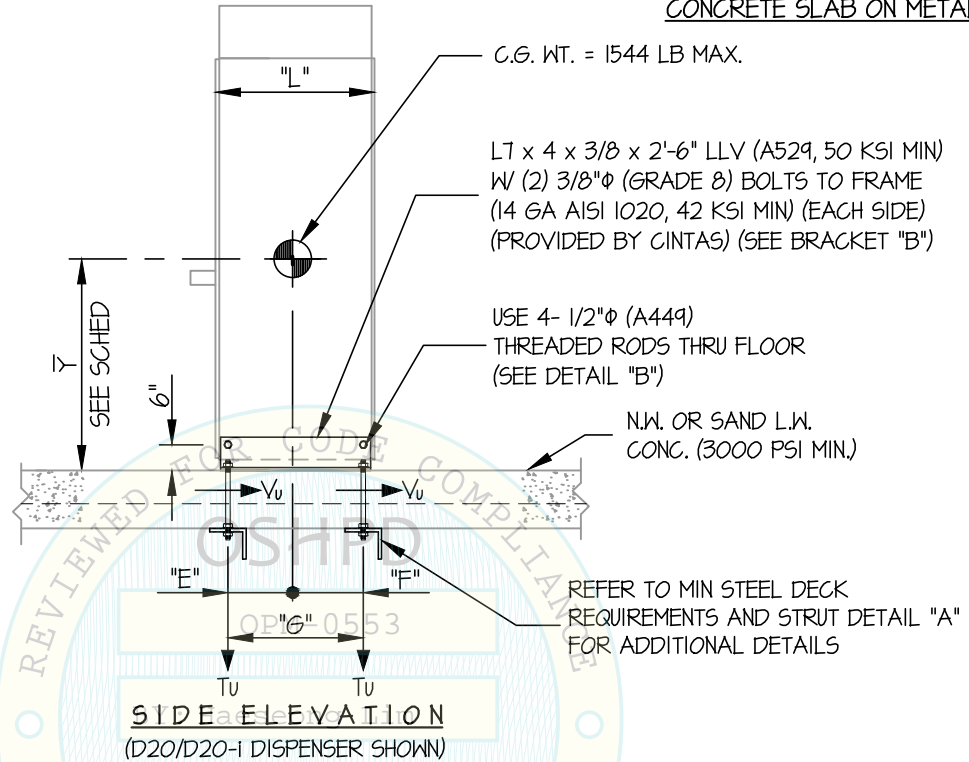
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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



UNIT NUMBER	MAX OPERATING WEIGHT (lb.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"L" (in.)	"W" (in.)	\bar{Y} (in.)	* Tu (lb.)	* Vu (lb.)
D10/D10-i	1103	43.0	36.3	79.3	13.3	13.7	27	32.0	74.8	39.0	2359	1011
D16/D16-i	1323	55.2	57.6	112.8	12.7	14.3	27	32.0	108.3	41.2	2760	1192
D20/D20-i	1544	64.3	66.2	130.5	13.3	13.7	27	32.0	126.0	41.2	3168	1344
D200	1103	60.4	15.2	75.6	9.9	17.1	27	30.5	71.1	18.5	1524	1440
D300	1323	64.3	65.2	129.5	9.9	17.1	27	30.5	125.0	26.4	1685	1370

* VALUES DO NOT INCLUDE Ω



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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

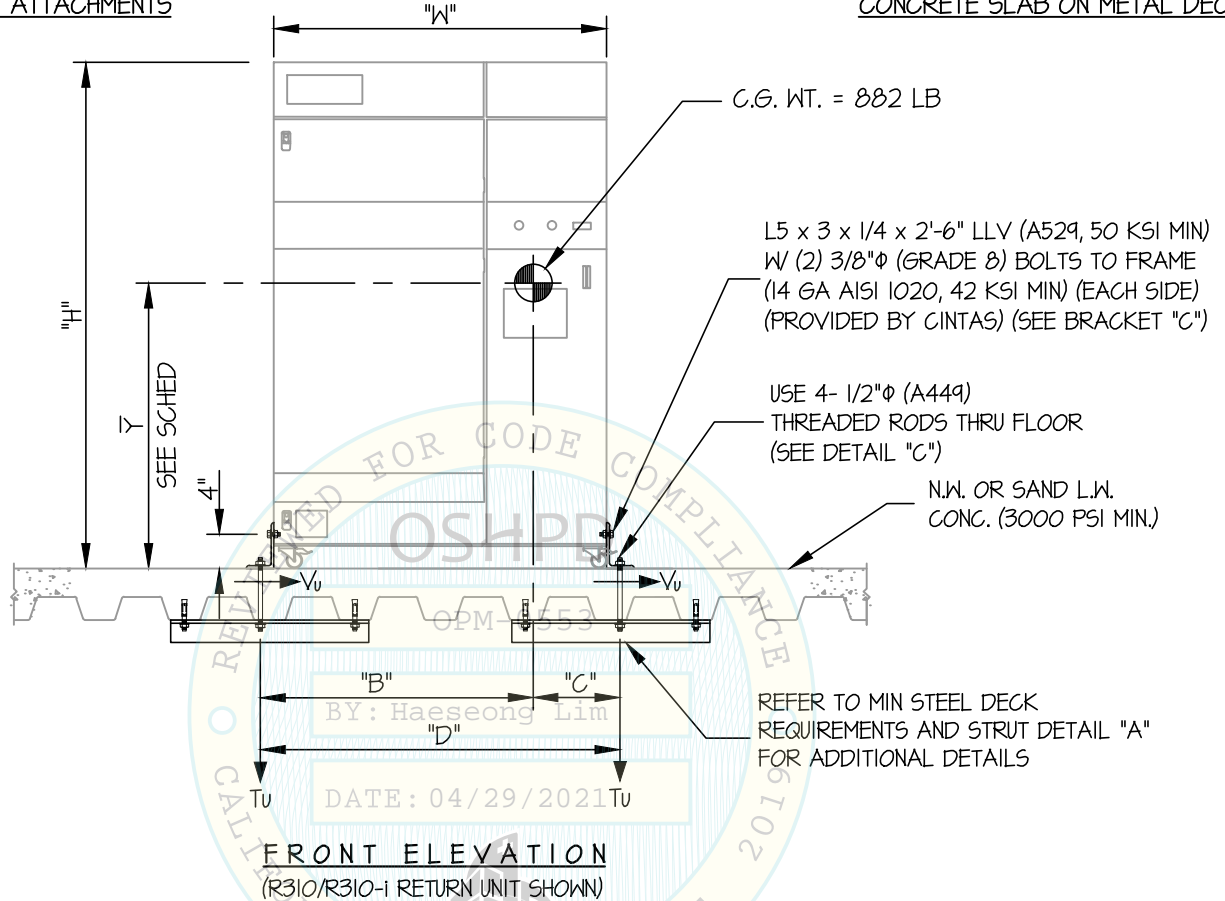
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. ($S_{ds} = 2.20$, $\alpha_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $\Omega_e = 1.5$, $z/h \leq 1$)

HORIZONTAL FORCE (E_h) = $2.64 W_p$

HORIZONTAL FORCE (E_{mh}) = $3.96 W_p$ (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = $0.44 W_p$

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.



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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

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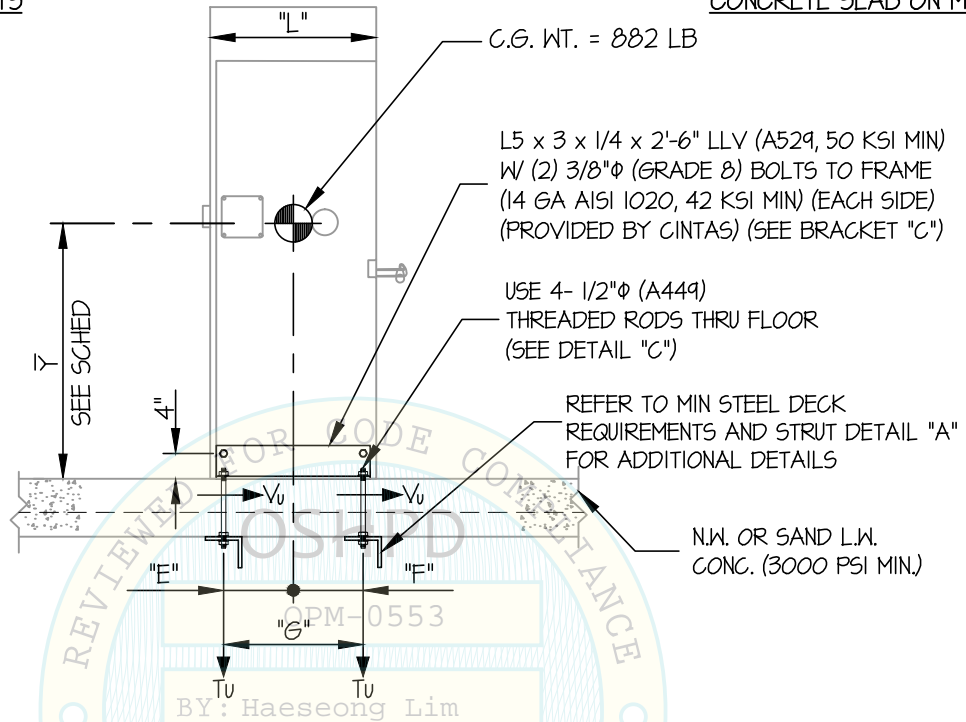
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DATE 4/26/21

OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



BY: Haeseong Lim
SIDE ELEVATION
 (R310/R310-i RETURN UNIT SHOWN)
 DATE: 04/29/2021

UNIT NUMBER	MAX OPERATING WEIGHT (lb.)	"H" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"L" (in.)	"W" (in.)	Y (in.)	* Tu (lb.)	* Vu (lb.)
R110/R110-i	662	78.0	10.8	30.8	416	12.60	15.15	27.75	30.9	38.3	50.4	2574	791
R310/R310-i	882	89.6	47.8	14.7	62.5	20.33	7.42	27.75	31.8	59.3	50.2	3405	1146

* VALUES DO NOT INCLUDE Ω .



CINTAS HEALTHCARE SOLUTIONS

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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

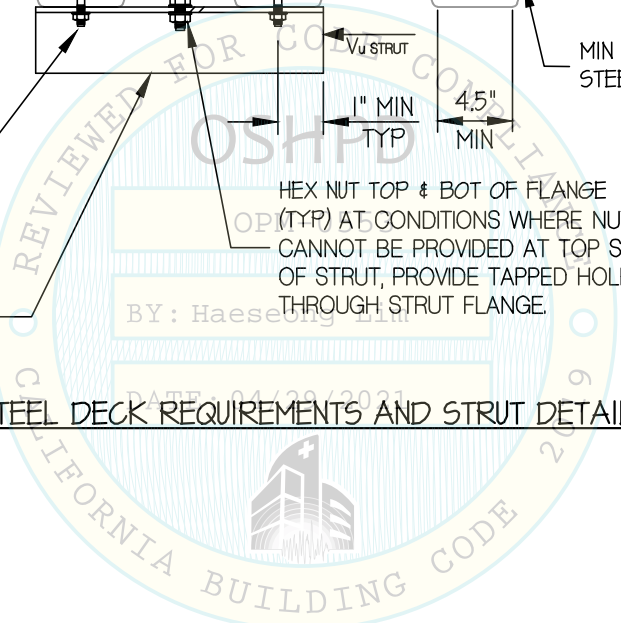
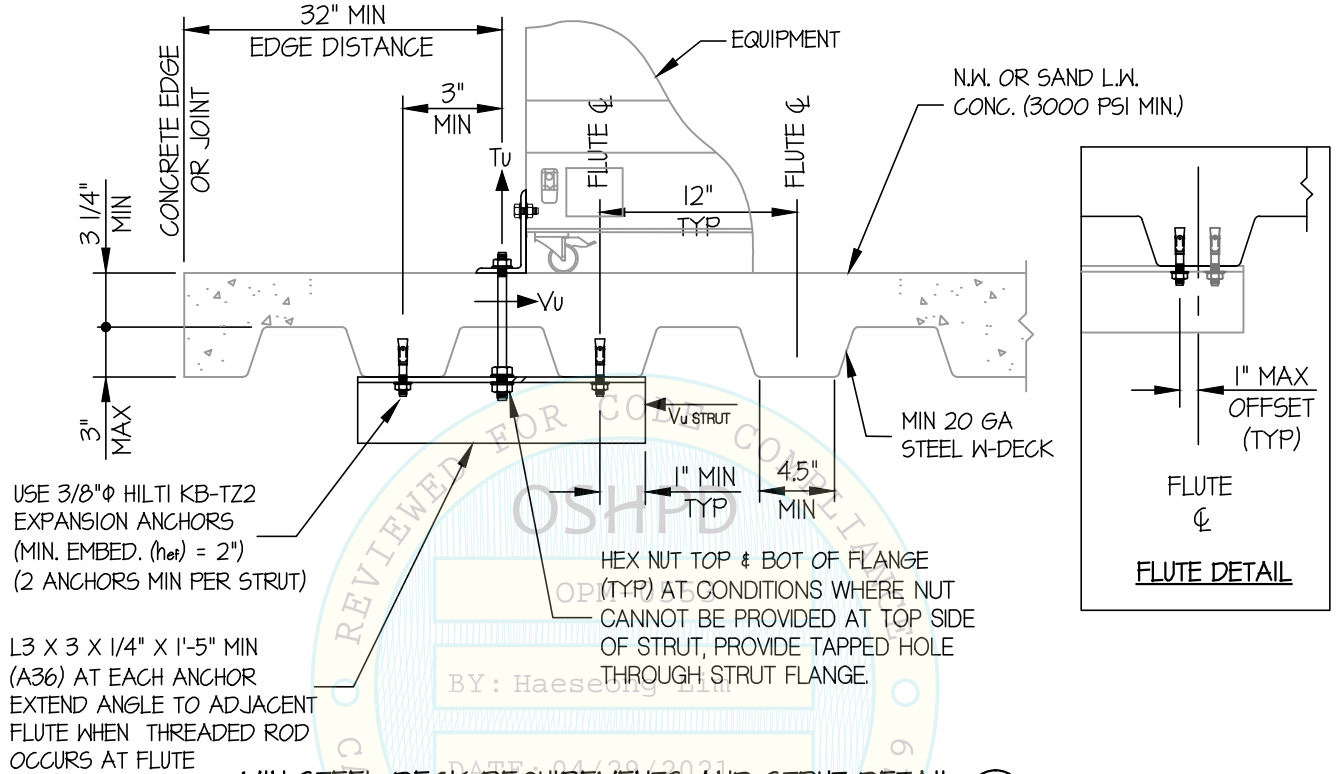
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SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAIL



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EXP. 6-30-2022
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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

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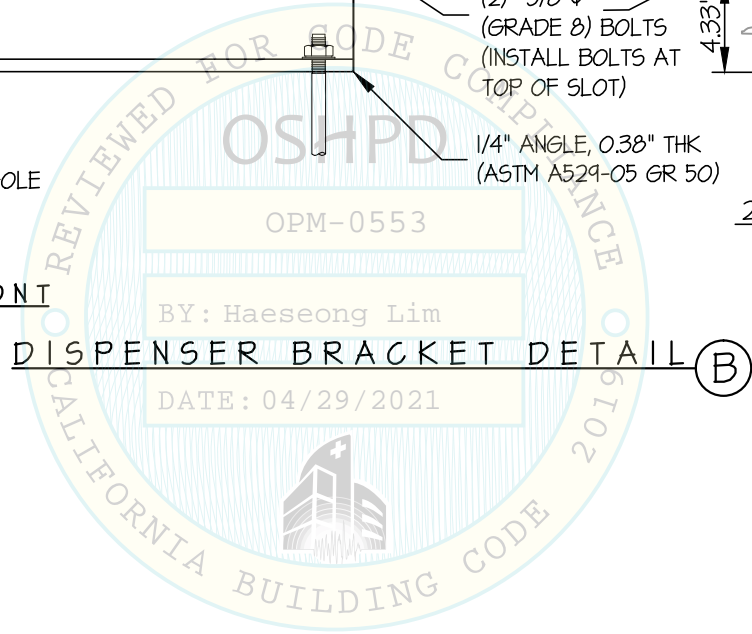
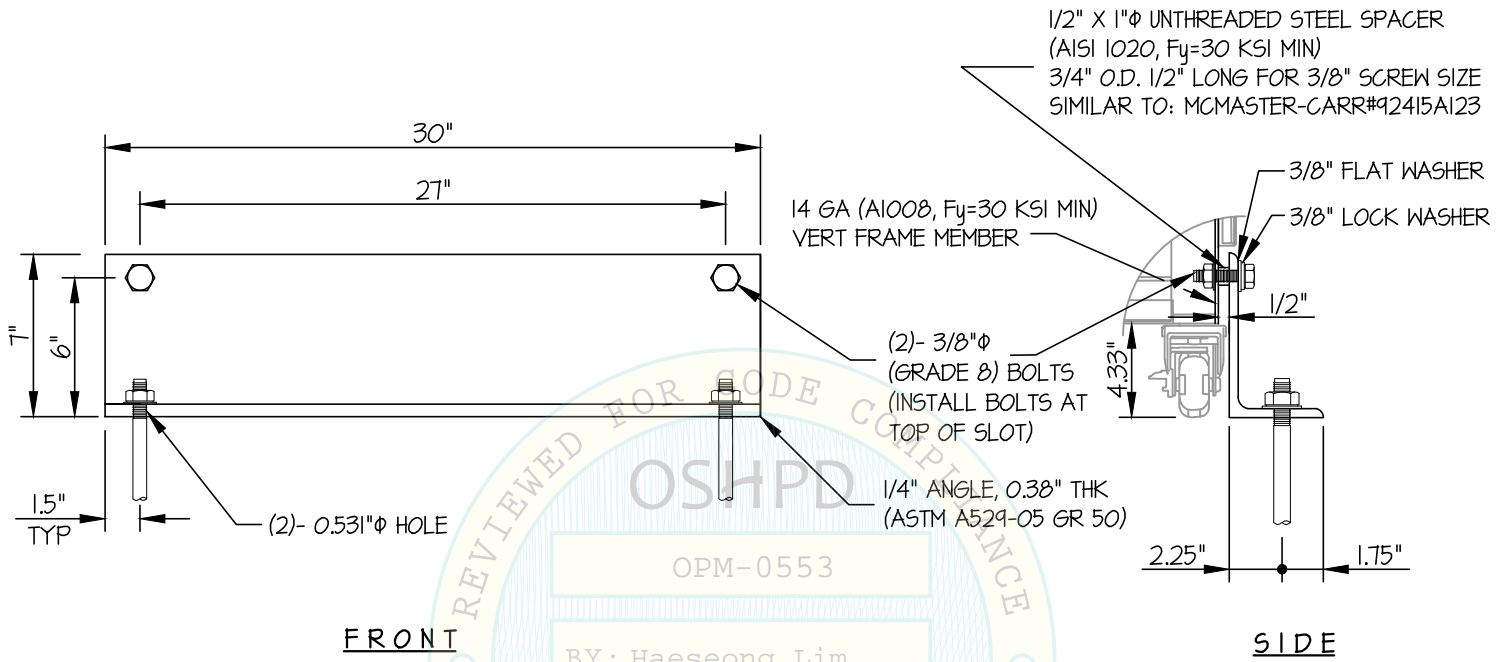
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SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



DISPENSER BRACKET DETAIL (B)

Jonathan Roberson

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JONATHAN ROBERSON
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D-SERIES SCRUB DISPENSER & R-SERIES SCRUB RETURN UNITS

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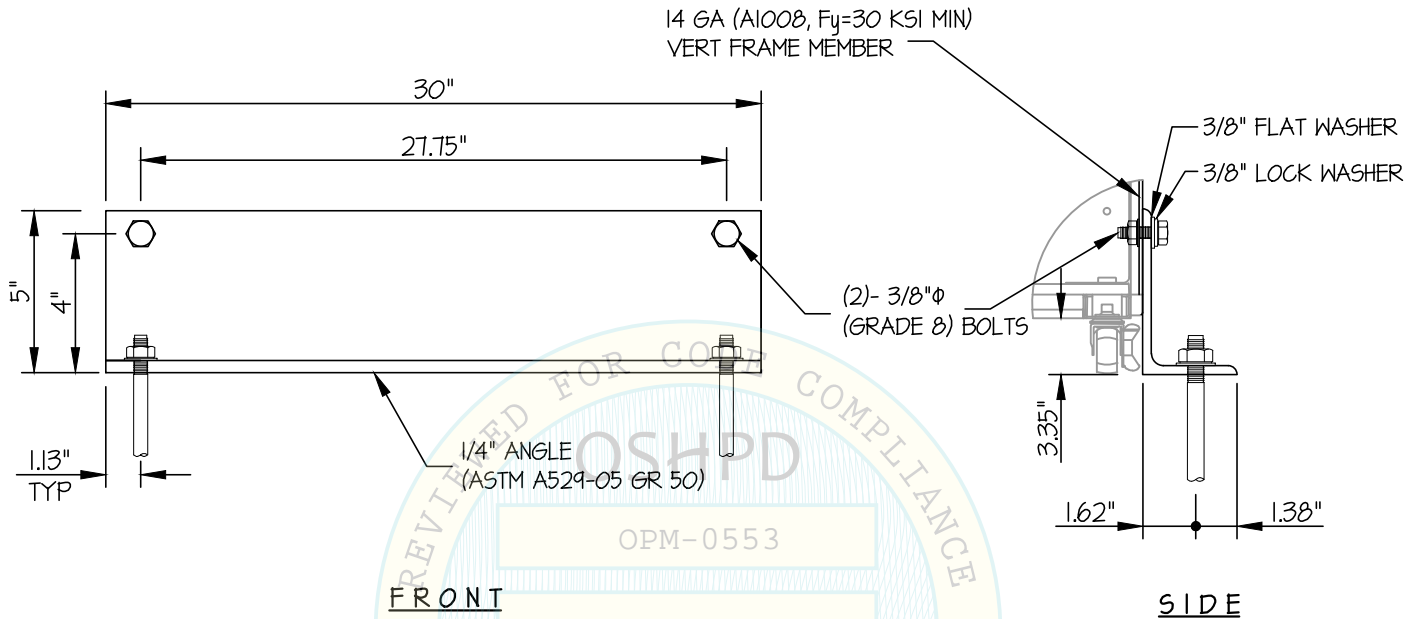
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL



OPM-0553
BY: Haeseong Lim
RETURN UNIT BRACKET DETAIL ©
DATE: 04/29/2021

