EASE

EQUIPMENT **ANCHORAGE** & SEISMIC ENGINEERING
www.EquipmentAnchorage.com

FOLLETT PRODUCTS, LLC

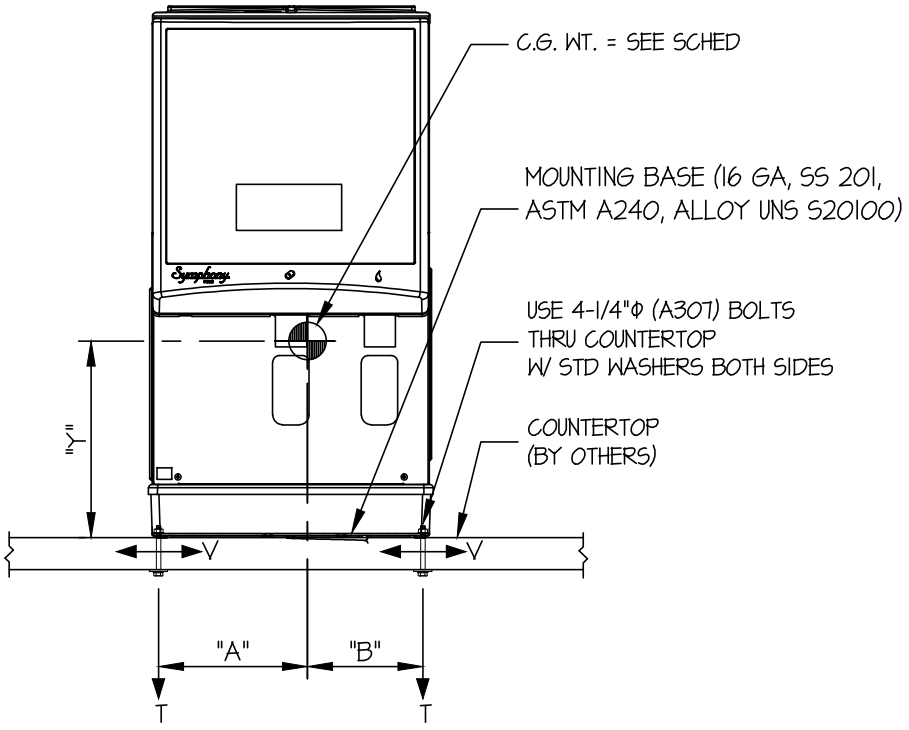
[25,50] CI414 [A,W]-XX-XX DISPENSERS

DES.	J. ROBERSON
JOB NO.	11-2504
DATE	4/16/25

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



FRONT ELEVATION

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS} = 2.30, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.66 W_p
   VERTICAL FORCE (E_v) = 0.46 W_p

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL CG POSITIONS UP TO THE VALUES SHOWN.

3. THIS PREAPPROVAL 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.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
4/16/25
STRUCTURAL
STATE OF CALIFORNIA

FOLLETT PRODUCTS, LLC

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DES. J. ROBERSON | JOB NO. 11-2504 | DATE 4/16/25 | SHEET 2 OF 2 SHEETS

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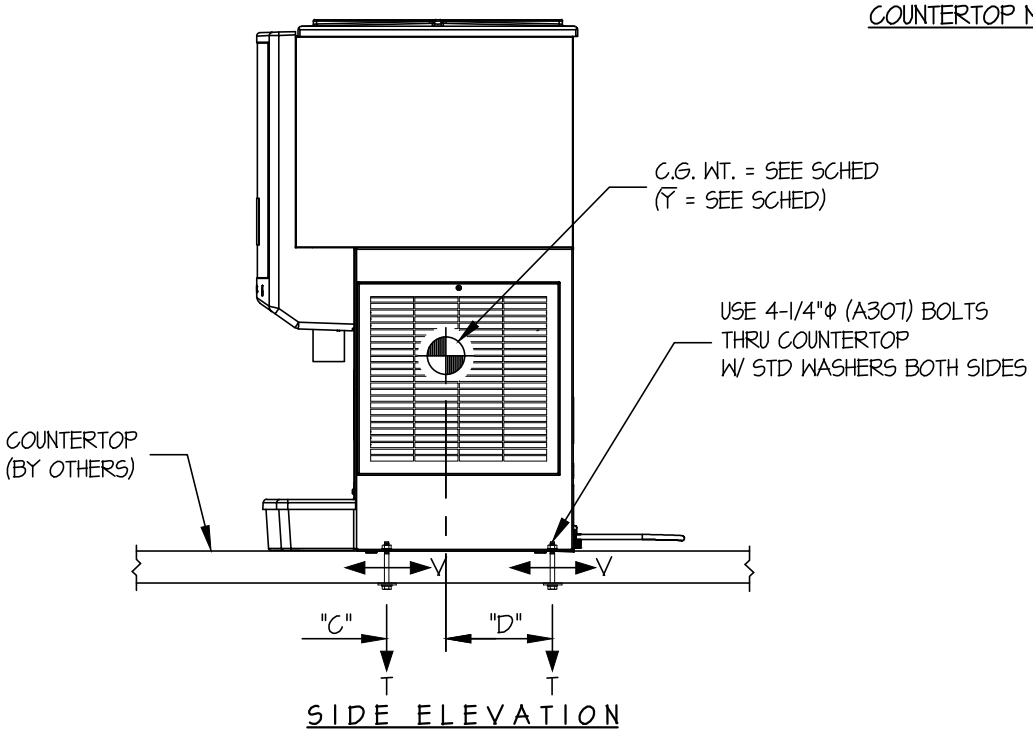

SIDE ELEVATION

	MODEL	MAX W.T	$\bar{Y}$ (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	Tu (lb.)	Vu (lb.)
*	50CI414W	245	16.1	10.42	9.71	3.72	8.78	301	174
	50CI414A	240	14.75	7.85	12.27	4.04	8.46	302	171
	25CI414W	215	15.35	10.42	9.70	3.87	8.63	250	151
	25CI414A	210	14.25	7.78	12.35	4.18	8.32	255	148

* THIS UNIT USED IN THE CALCULATION BELOW.

LOADS:

WEIGHT (W_p) = 245 LB
HORIZONTAL FORCE (E_h) = 1.66 W_p = 407 LB
VERTICAL FORCE (E_v) = 0.46 W_p = 113 LB

BOLT SPEC: 1/4"ϕ (A307) BOLTS

ϕT= 1491 LB/BOLT
ϕV= 766 LB/BOLT

ANCHOR FORCES:

TENSION (T)

$$T_U \text{ MAXIMUM} = \left[\frac{407\#(16.1'')(8.78'')}{1 \text{ BOLT } (20.13'')(12.5'')} \times (0.3)\right] + \frac{407\#(16.1'')(10.42'')}{1 \text{ BOLT } (12.5'')(20.13'')} - \frac{(245\#(0.9) - 113\#)(10.42'')(8.78'')}{1 \text{ BOLT } (20.13'')(12.5'')} = 301 \text{ LB/BOLT (MAX)}$$

(HORIZ. - SIDE TO SIDE) (HORIZ. - FRONT TO BACK) (WEIGHT(0.9) - E_v)

SHEAR (V)

$$V_U \text{ MAXIMUM} = \left[\frac{407\#(10.42'')}{2 \text{ BOLTS } (20.13'')} \times (0.3)\right] + \frac{407\#(8.78'')}{2 \text{ BOLTS } (12.5'')} = 174 \text{ LB/BOLT (MAX)}$$

INTERACTION:

$$\left(\frac{T_u}{\phi T}\right) + \left(\frac{V_u}{\phi V}\right) \leq 1.0 \quad \left(\frac{301}{1491}\right) + \left(\frac{174}{766}\right) = 0.43 \leq 1.0 \quad \therefore \text{ O.K.}$$