EASE

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

FOLLETT CORPORATION

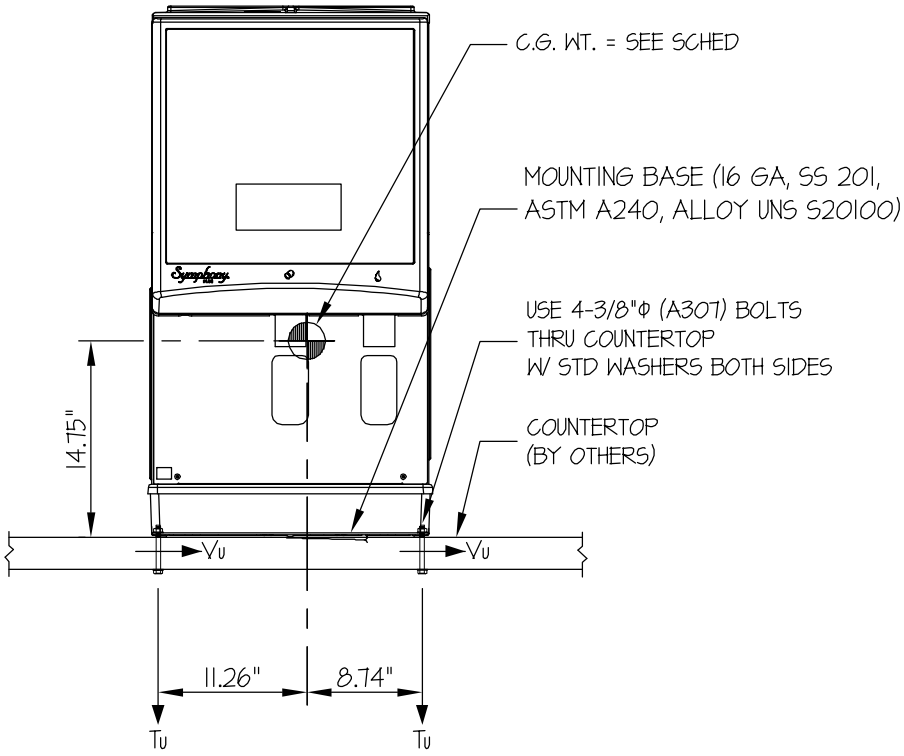
25/50 CI/CR 425 A/W DISPENSERS

DES.	J. ROBERSON
JOB NO.	11-1420
DATE	5/27/14

SHEET 1 OF 2 SHEETS

SEISMIC ANCHORAGE

COUNTERTOP MOUNTED



FRONT ELEVATION

NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10
   STRENGTH DESIGN IS USED. (S_{DS} = 2.5, a_p = 1.0, I_p = 1.5, R_p = 2.5, $z/h \leq 1$)

   HORIZONTAL FORCE (E_h) = 1.80 W_p
   VERTICAL FORCE (E_v) = 0.50 W_p
2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS 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.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2014
STRUCTURAL
STATE OF CALIFORNIA
5/27/14

NOT STRUCTURE APPROVED

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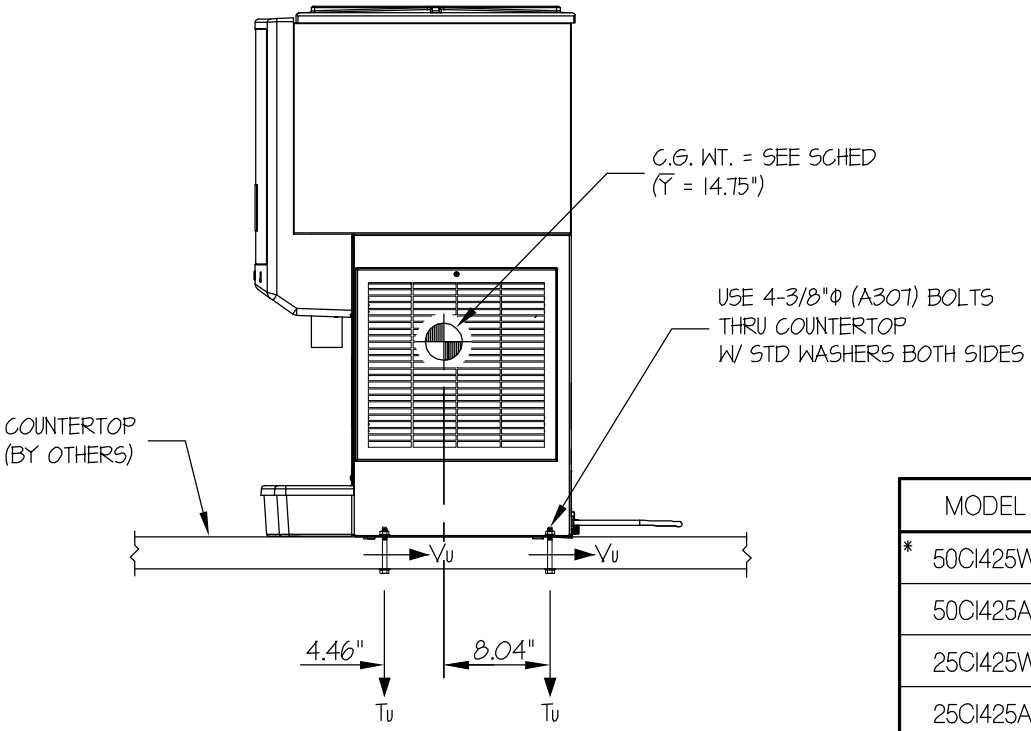

SIDE ELEVATION

MODEL	MAX WT	Tu	Vu
* 50CI425W	241	315	140
50CI425A	236	308	137
25CI425W	214	280	124
25CI425A	209	273	121
50CR425	150	196	87
25CR425	123	161	71

* USED IN CALCULATION

LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.
(STRENGTH DESIGN IS USED) (S_{DS} = 2.5, a_p = 1.0, I_p = 1.5, R_p = 2.5, z/h ≤ 1)
WEIGHT = 241 LB
HORIZONTAL FORCE (E_h) = 1.80 W_p = 434 LB
VERTICAL FORCE (E_v) = 0.50 W_p = 121 LB

BOLT SPEC: 3/8"ϕ (A307) BOLTS
ϕT= 3589 LB/BOLT
ϕV= 1914 LB/BOLT

BOLT FORCES:

TENSION (T)

$$T_{u\ MAXIMUM} = \left[\frac{272\#(14.75'')(8.04'')}{1\ BOLT\ (20'')(12.5'')} \times (0.3)\right] + \frac{272\#(14.75'')(11.26'')}{1\ BOLT\ (12.5'')(20'')} - \frac{(241\#(0.9) - 121\#)(11.26'')(8.04'')}{1\ BOLT\ (20'')(12.5)} = 315\ LB/BOLT\ (MAX)$$

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

SHEAR (V)

$$V_{u\ MAXIMUM} = \frac{272\#(8.04'')}{2\ BOLTS(12.5'')} = 140\ LB/BOLT\ (MAX)$$