

FOLLETT CORPORATION

STACKING REFRIGERATORS AND FREEZERS

DES. **J. ROBERSON**

SHEET

1

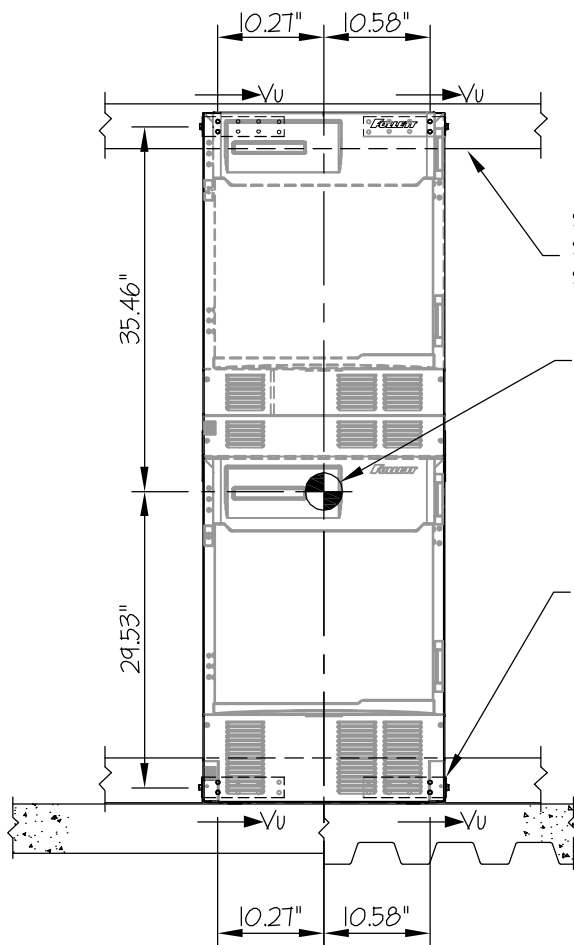
JOB NO. **11-1420**

DATE **4/23/14**

OF **1** SHEETS

SEISMIC ANCHORAGE

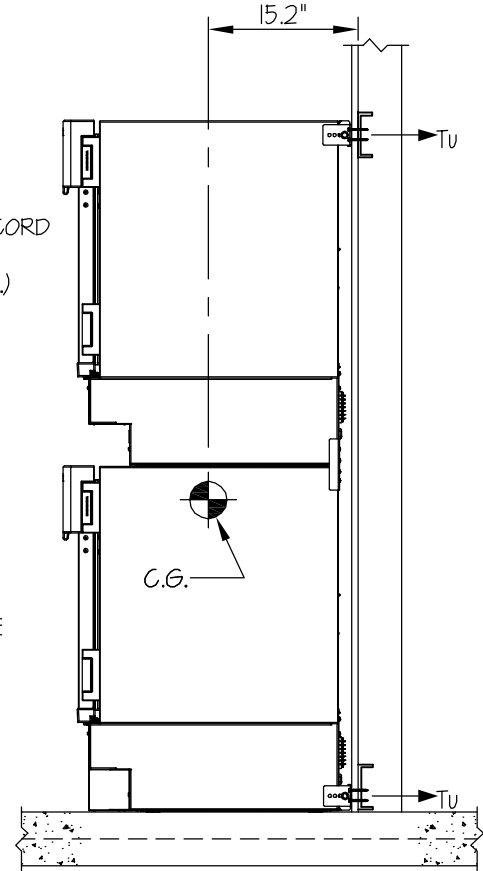
SLAB ON GRADE/UPPER FLOOR



STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE WALL STRUCTURE (16 GA., 50 KSI MIN.)

C.G. WT. = 490 LB (INCLUDES CONTENTS)

PRE-MANUFACTURED MOUNTING BRACKET (BY FOLLETT) W/ 2- 1/4"φ TEK SCREWS AT STEEL STUD WALL (16 GA., 50 KSI MIN.) OR WHERE STUDS DO NOT LINE UP WITH SCREWS PROVIDE WALL BACKING (16 GA., 50 KSI MIN.) (BY S.E.O.R.) (2 TOP & 2 BOTTOM)



T_u = 212 LB/SCREW (MAX)
V_u = 120 LB/SCREW (MAX)

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 = 490 LB (INCLUDES CONTENTS)

HORIZONTAL FORCE (E_h) = 1.80 W_p = 882 LB

VERTICAL FORCE (E_v) = 0.50 W_p = 245 LB

SCREW FORCES:

TENSION (T)

$$T_{u \text{ PARALLEL}} = \frac{882\#(35.46'')(15.2'')}{2 \text{ SCREWS}(64.99'')(20.85'')} = 176 \text{ LB/SCREW}$$

$$T_{u \text{ PERP.}} = \frac{882\#(35.46'')}{4 \text{ SCREWS}(64.99'')} = 120 \text{ LB/SCREW}$$

$$T_{u \text{ MAX}} = 120\#(0.3) + 176 = 212 \text{ LB/SCREW (MAX)}$$

SHEAR (V)

$$V_{u \text{ MAX}} = \frac{882\#(35.46'')}{4 \text{ SCREWS}(64.99'')} = 120 \text{ LB/SCREW (MAX)}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SLAB OR OTHER SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

1/4"φ TEK SCREWS TO 16 GAGE, 50 KSI

φT = 418 LB/SCREW (TENSION)

φV = 362 LB/SCREW (SHEAR)

