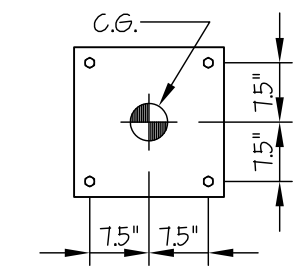
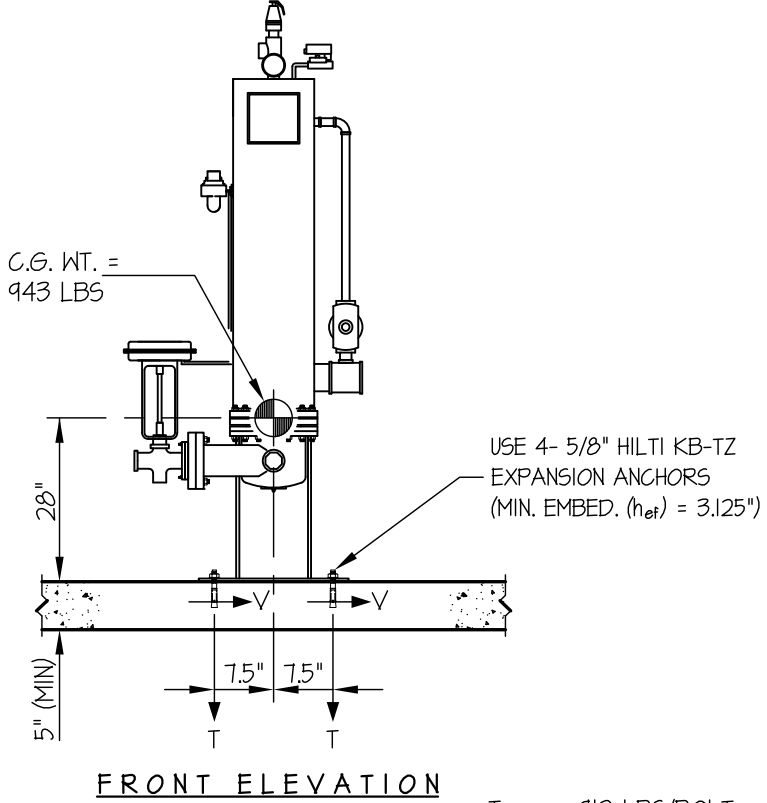


PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
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	DATE 8/22/11	

SEISMIC ANCHORAGE

SLAB ON GRADE



PLAN AT BASE

USE 4- 5/8" HILTI KB-TZ
 EXPANSION ANCHORS
 (MIN. EMBED. (h_{ef}) = 3.125")

T_{MAX} = 912 LBS/BOLT
 V_{MAX} = 212 LBS/BOLT

LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.

WEIGHT = 943 LBS
 HORIZONTAL FORCE (E_h) = 0.90W_p = 849 LBS
 VERTICAL FORCE (E_v) = 0.40W_p = 377 LBS

BOLT FORCES:

TENSION (T)

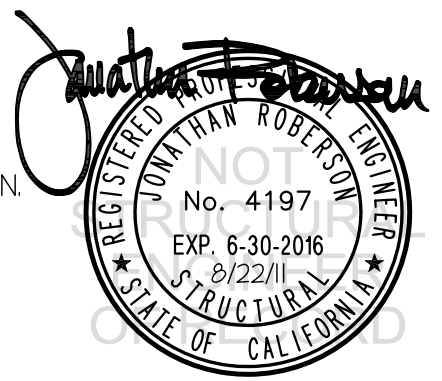
$$T_{\text{MAXIMUM}} = \left[\frac{849\#(28\prime)}{2\text{BOLTS}(15\prime)} \times (0.3) \right] + \frac{849\#(28\prime)}{2\text{BOLTS}(15\prime)} - \frac{943\#(0.9) - 377\#}{4\text{ BOLTS}} = 912 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{849\#}{4\text{ BOLTS}} = 212 \text{ LBS/BOLT (MAX)}$$

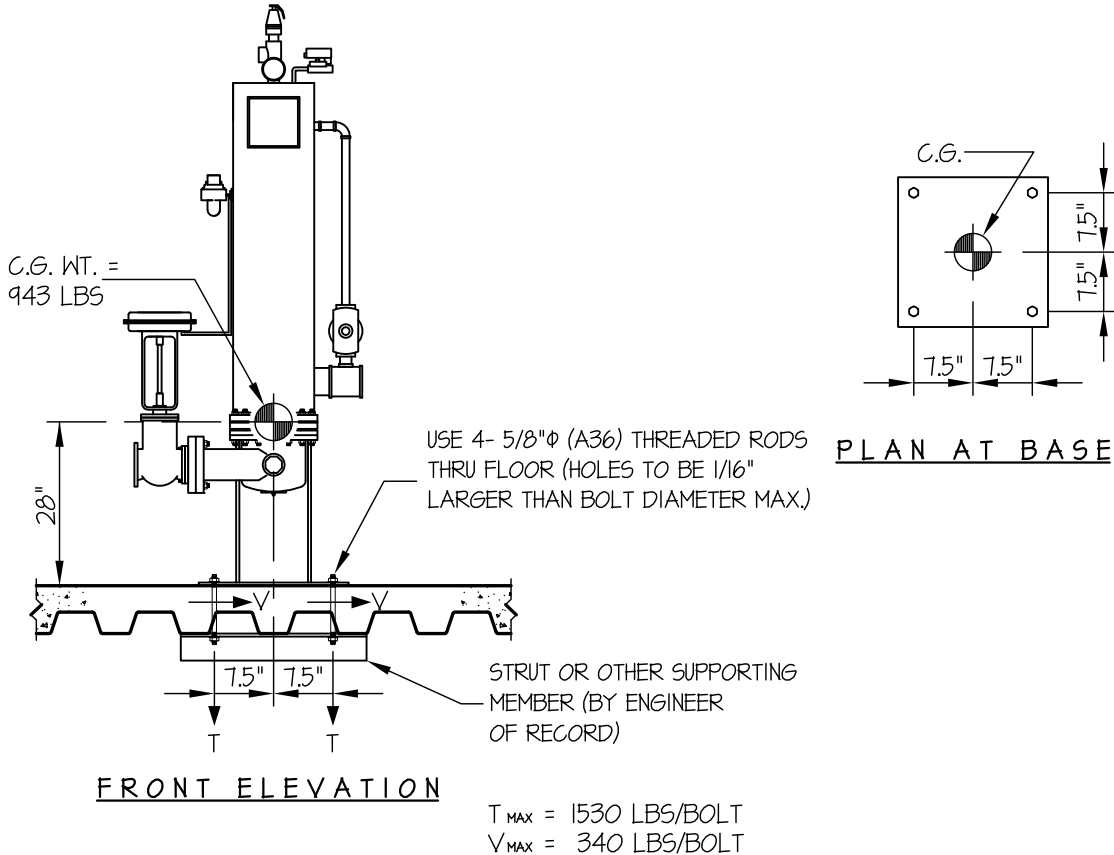
NOTE:
 PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
 (BY ENGINEER OF RECORD FOR THE BUILDING)



PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
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SEISMIC ANCHORAGE

ELEVATED FLOOR



LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.

WEIGHT = 943 LBS

HORIZONTAL FORCE (E_h) = $1.44W_p = 1358 \text{ LBS}$

VERTICAL FORCE (E_v) = $0.40W_p = 377 \text{ LBS}$

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1358\#(28")}{2\text{BOLTS}(15")} \times (0.3) \right] + \frac{1358\#(28")}{2\text{BOLTS}(15")} - \frac{943\#(0.9) - 377\#}{4 \text{ BOLTS}} = 1530 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1358\#}{4 \text{ BOLTS}} = 340 \text{ LBS/BOLT (MAX)}$$

NOTE:

PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
 (BY ENGINEER OF RECORD FOR THE BUILDING)

