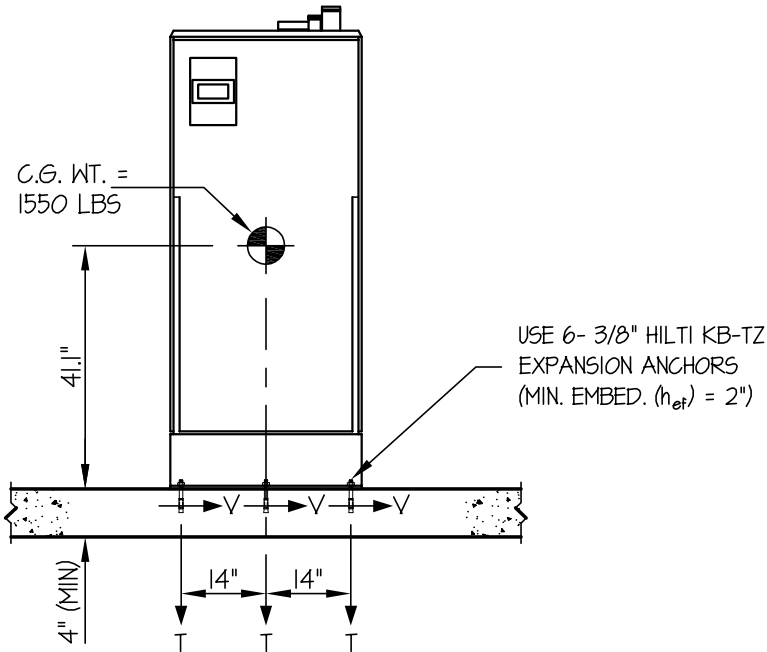


<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	
<b>P-K MACH SERIES C-2500 BOILER</b>		

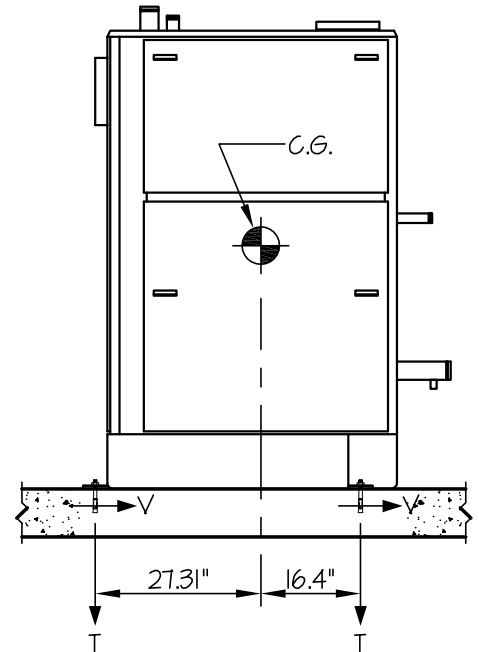
SEISMIC ANCHORAGE

SLAB ON GRADE



FRONT ELEVATION

$T_{MAX} = 610 \text{ LBS/BOLT}$   
 $V_{MAX} = 290 \text{ LBS/BOLT}$



SIDE ELEVATION

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

WEIGHT = 1550 LBS

HORIZONTAL FORCE ( $E_H$ ) =  $0.90 W_p = 1395 \text{ LBS}$

VERTICAL FORCE ( $E_v$ ) =  $0.40 W_p = 620 \text{ LBS}$

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[ \frac{1395\#(41.1'')}{3 \text{ BOLTS } (43.7'')} \times (0.3) \right] + \frac{1395\#(41.1'')(27.31'')}{2 \text{ BOLTS } (28'')(43.7'')} - \frac{(1550\#(0.9) - 620\#)(27.3'')}{3 \text{ BOLTS } (43.7'')} = 610 \text{ LBS/BOLT (MAX)}$$

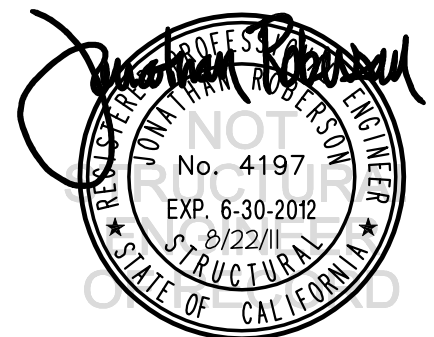
(HORIZ - FRONT TO BACK)                      (HORIZ - SIDE TO SIDE)                      (WEIGHT (0.9) -  $E_v$ )

SHEAR (V)

$$V_{MAXIMUM} = \frac{1395\#(27.3'')}{3 \text{ BOLTS } (43.7'')} = 290 \text{ LBS/BOLT (MAX)}$$

NOTE:

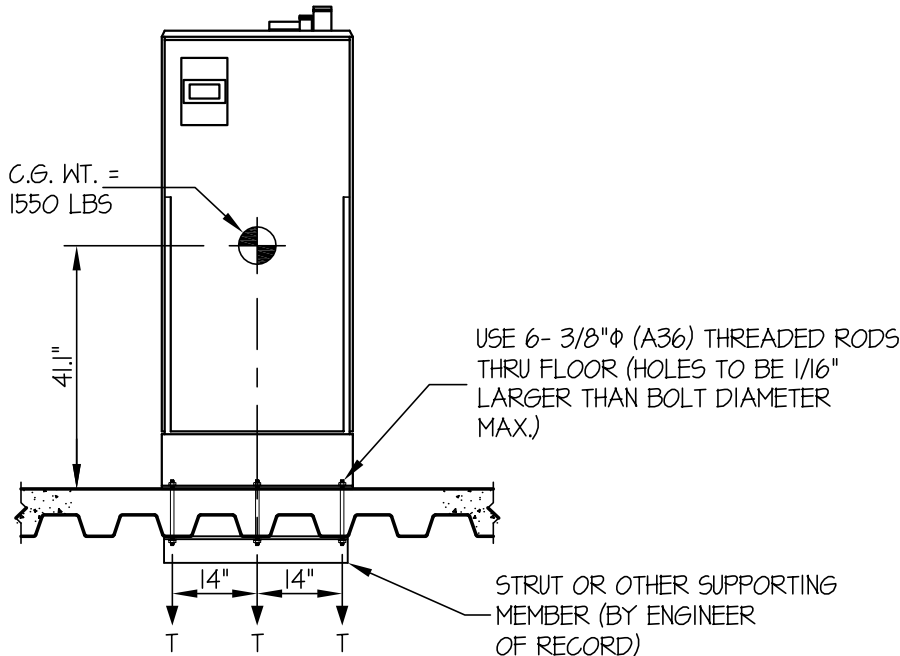
ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	

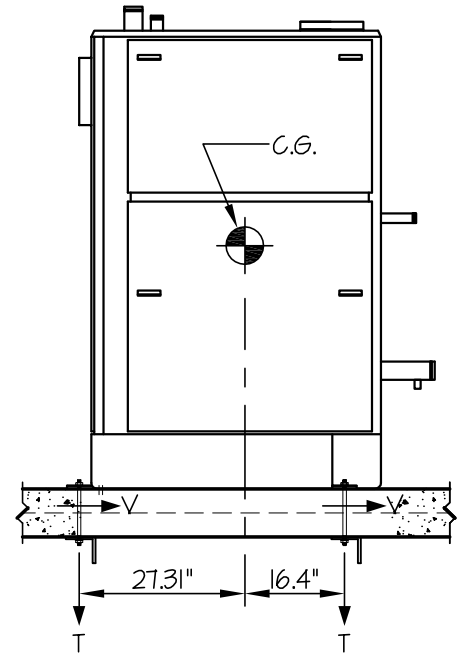
SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION

$T_{MAX} = 1178 \text{ LBS/BOLT}$   
 $V_{MAX} = 313 \text{ LBS/BOLT}$



SIDE ELEVATION

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

WEIGHT = 1550 LBS

HORIZONTAL FORCE ( $E_h$ ) = 144  $W_p$  = 2232 LBS

VERTICAL FORCE ( $E_v$ ) = 0.40  $W_p$  = 620 LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[ \frac{2232\#(41.1'')}{2 \text{ BOLTS } (43.7'')} \times (0.3) \right] + \frac{2232\#(41.1'')(27.31'')}{2 \text{ BOLTS } (28'')(43.7'')} - \frac{(1550\#(0.9) - 620\#)(27.3'')}{3 \text{ BOLTS } (43.7'')} = 1178 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{2232\#(27.3'')}{3 \text{ BOLTS } (43.7'')} = 465 \text{ LBS/BOLT (MAX)}$$

NOTE:

ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

