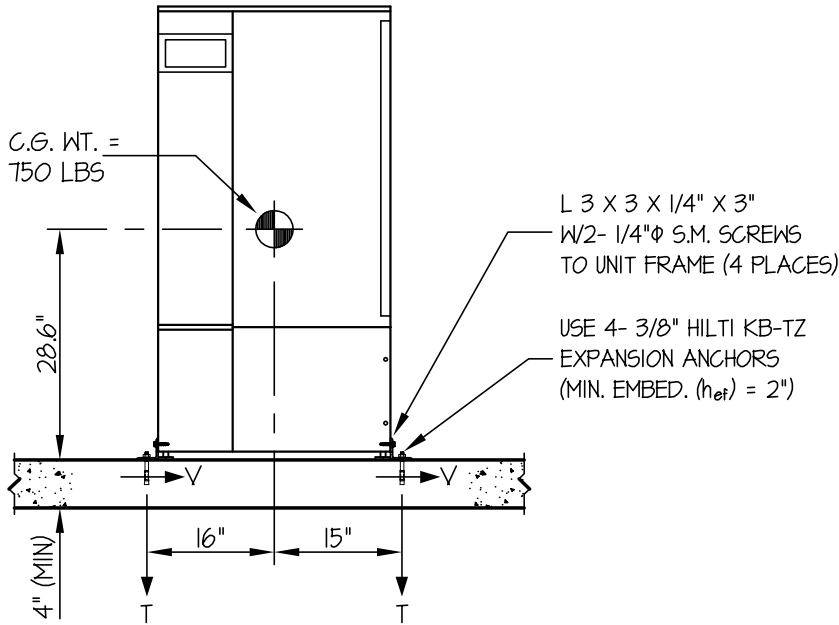


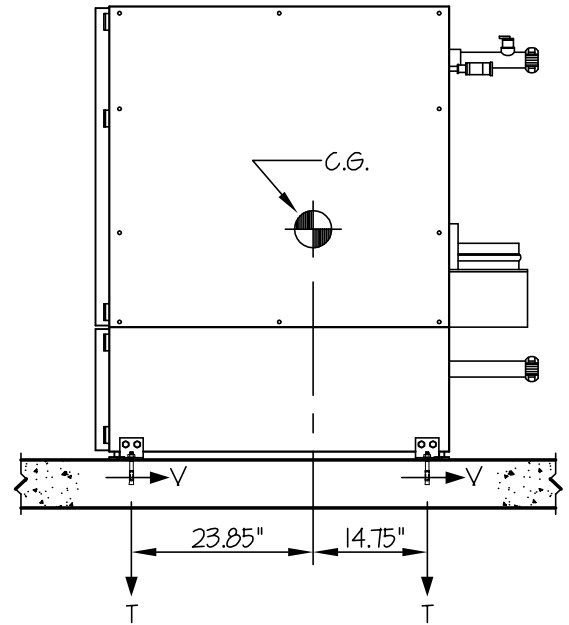
<b>PATTERSON-KELLEY CO.</b>  <b>P-K MACH SERIES C-1050 BOILER</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	

SEISMIC ANCHORAGE

SLAB ON GRADE



**FRONT ELEVATION**



**SIDE ELEVATION**

T<sub>MAX</sub> = 346 LBS/BOLT  
 V<sub>MAX</sub> = 209 LBS/BOLT

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

WEIGHT = 750 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 0.90W<sub>p</sub> = 675 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 300 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{675\#(28.6'')(15'')}{38.6''(31'')} \times (0.3) \right] + \frac{675\#(28.6'')(23.85'')}{31''(38.6'')} - \frac{(750\#(0.9) - 300\#)(15'')(23.85'')}{31''(38.6'')} = 346 \text{ LBS/BOLT (MAX)}$$

( HORIZ - FRONT TO BACK )                      ( HORIZ - SIDE TO SIDE )                      ( WEIGHT (0.9) - E<sub>v</sub> )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{675\#(23.85'')}{2\text{BOLTS}(38.6'')} = 209 \text{ LBS/BOLT (MAX)}$$

NOTE:

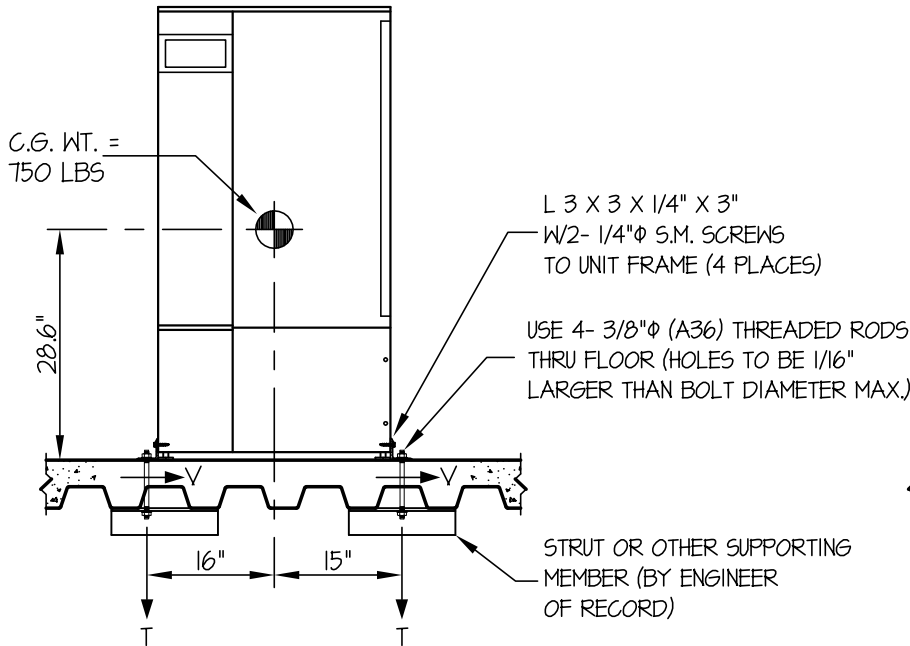
ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.



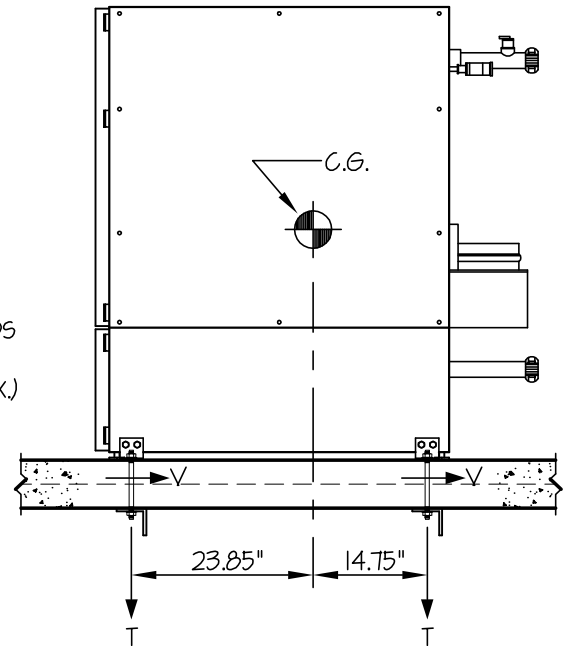
<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	

SEISMIC ANCHORAGE

ELEVATED FLOOR



**FRONT ELEVATION**



**SIDE ELEVATION**

T<sub>MAX</sub> = 620 LBS/BOLT  
 V<sub>MAX</sub> = 334 LBS/BOLT

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

WEIGHT = 750 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 1.44W<sub>p</sub> = 1080 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 300 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{1080 \# (28.6") (15")}{38.6" (31")} \times (0.3) \right] + \frac{1080 \# (28.6") (23.85")}{31" (38.6")} - \frac{(750 \# (0.9) - 300 \#) (15") (23.85")}{31" (38.6")} = 620 \text{ LBS/BOLT (MAX)}$$

( HORIZ - FRONT TO BACK )                      ( HORIZ - SIDE TO SIDE )                      ( WEIGHT (0.9) - E<sub>v</sub> )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{1080 \# (23.85")}{2 \text{ BOLTS} (38.6")} = 334 \text{ LBS/BOLT (MAX)}$$

NOTE:

ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.

