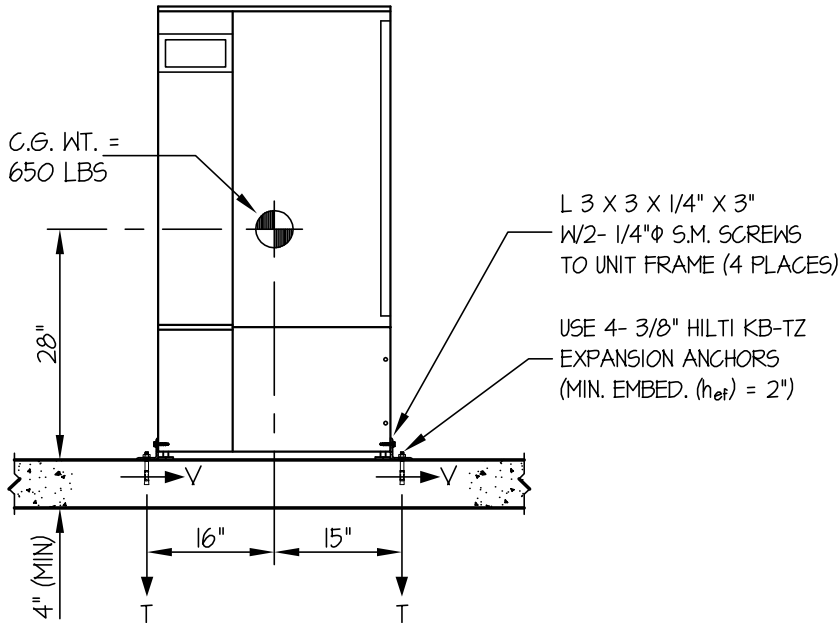


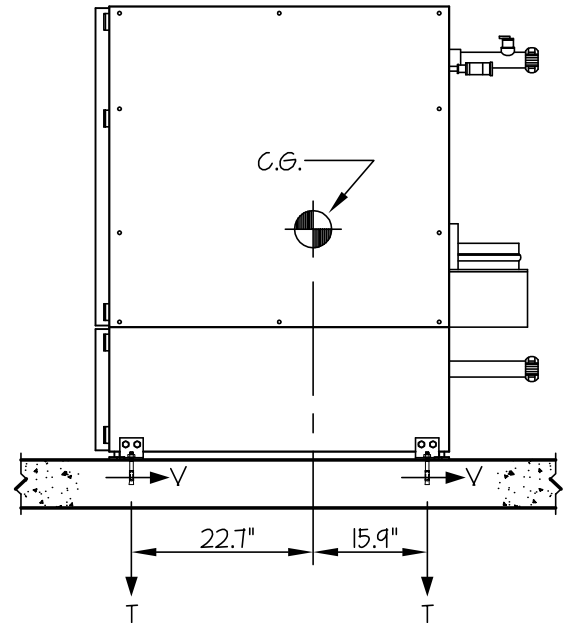
<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	
<b>P-K MACH SERIES C-750 BOILER</b>		

SEISMIC ANCHORAGE

SLAB ON GRADE



**FRONT ELEVATION**



**SIDE ELEVATION**

T<sub>MAX</sub> = 281 LBS/BOLT  
V<sub>MAX</sub> = 172 LBS/BOLT

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

WEIGHT = 650 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 0.90W<sub>p</sub> = 585 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 260 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{585\#(28\")(15\"){}}{38.6\")(31\")} \times (0.3) \right] + \frac{585\#(28\")(22.7\"){}}{31\")(38.6\")} - \frac{(650\#(0.9) - 260\#)(15\")(22.7\"){}}{31\")(38.6\")} = 281 \text{ LBS/BOLT (MAX)}$$

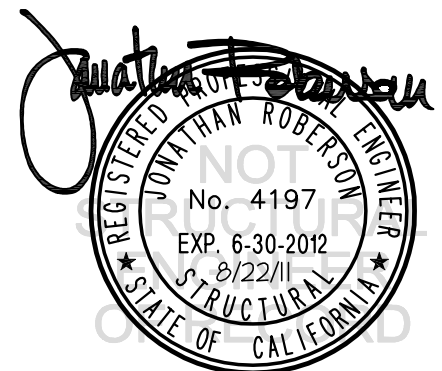
( HORIZ - FRONT TO BACK )                      ( HORIZ - SIDE TO SIDE )                      ( WEIGHT (0.9) - E<sub>v</sub> )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{585\#(22.7\"){}}{2\text{BOLTS}(38.6\")} = 172 \text{ LBS/BOLT (MAX)}$$

NOTE:

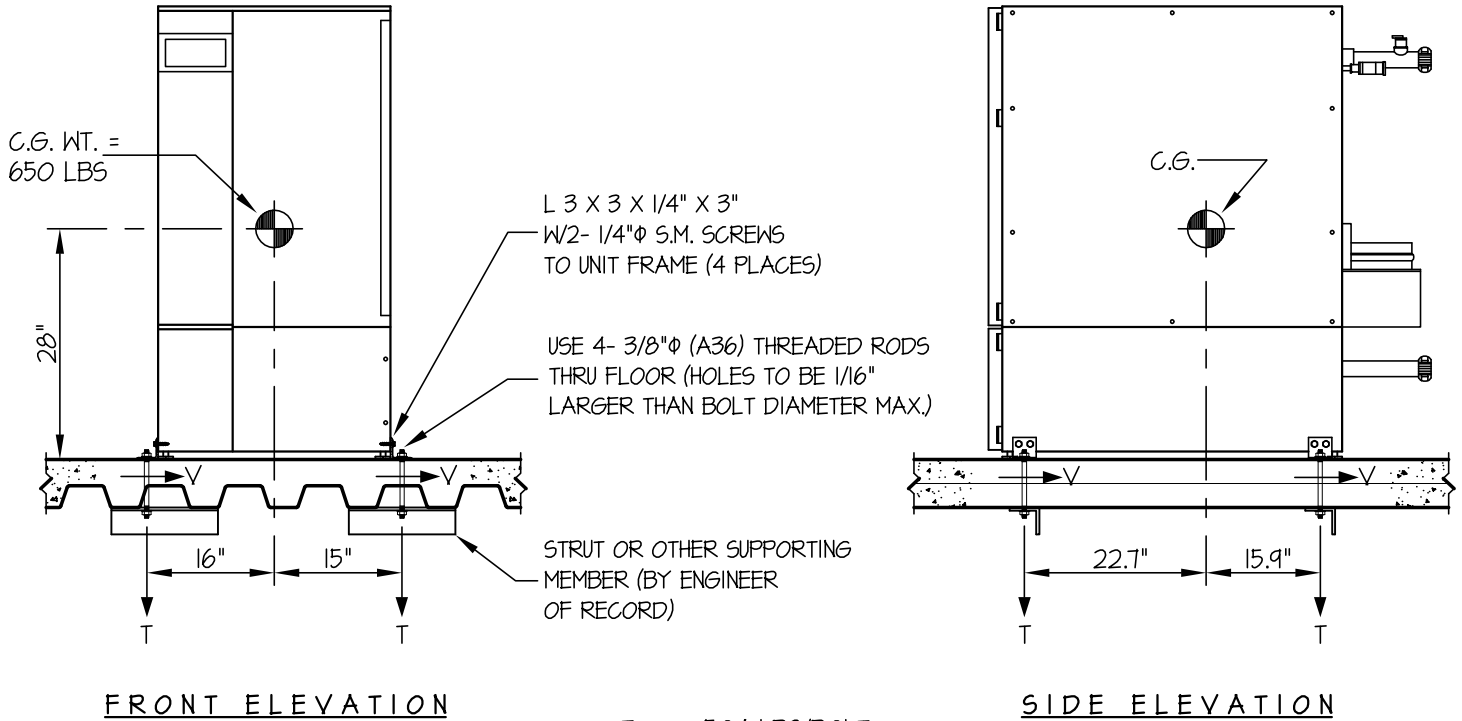
ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.



<b>PATTERSON-KELLEY CO.</b>	<b>DES. 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-750 BOILER</b>		

SEISMIC ANCHORAGE

ELEVATED FLOOR



T<sub>MAX</sub> = 504 LBS/BOLT  
V<sub>MAX</sub> = 275 LBS/BOLT

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

WEIGHT = 650 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 1.44W<sub>p</sub> = 936 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 260 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{936\#(28\")(15\"){}}{38.6\">(31\"){}} \times (0.3) \right] + \frac{936\#(28\")(22.7\"){}}{31\">(38.6\"){}} - \frac{(650\#(0.9) - 260\#)(15\")(22.7\"){}}{31\">(38.6\"){}} = 504 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{936\#(22.7\"){}}{2\text{BOLTS}(38.6\"){}} = 275 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

