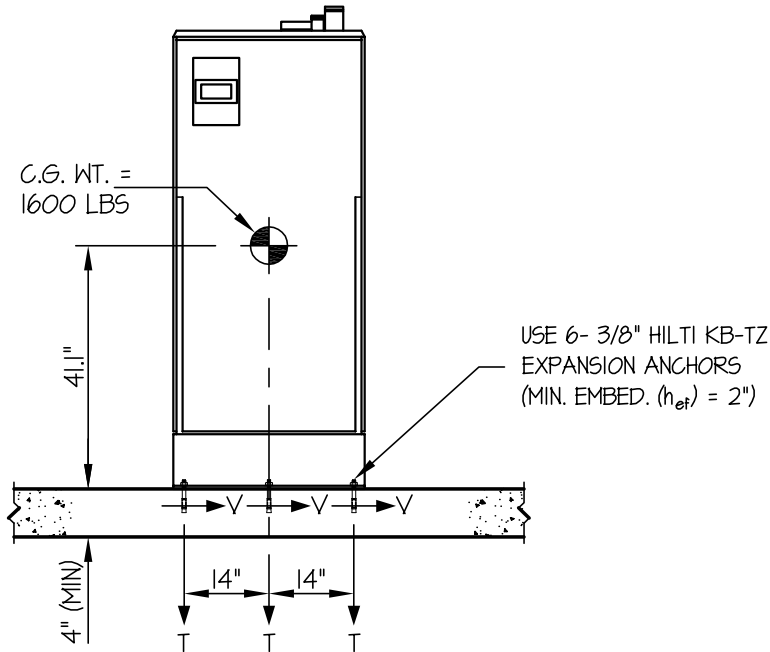


PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
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P-K MACH SERIES C-3000 BOILER

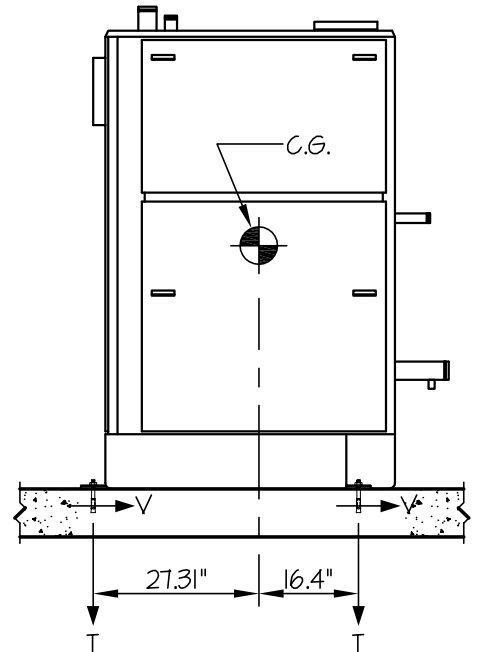
SEISMIC ANCHORAGE

SLAB ON GRADE



FRONT ELEVATION

$T_{MAX} = 628 \text{ LBS/BOLT}$
 $V_{MAX} = 300 \text{ LBS/BOLT}$



SIDE ELEVATION

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

WEIGHT = 1600 LBS

HORIZONTAL FORCE (E_H) = $0.90 W_p = 1440 \text{ LBS}$

VERTICAL FORCE (E_v) = $0.40 W_p = 640 \text{ LBS}$

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1440\#(41.1'')}{3 \text{ BOLTS } (43.7'')} \times (0.3) \right] + \frac{1440\#(41.1'')(27.31'')}{2 \text{ BOLTS } (28'')(43.7'')} - \frac{(1600\#(0.9) - 640\#)(27.3'')}{3 \text{ BOLTS } (43.7'')} = 628 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1440\#(27.3'')}{3 \text{ BOLTS } (43.7'')} = 300 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

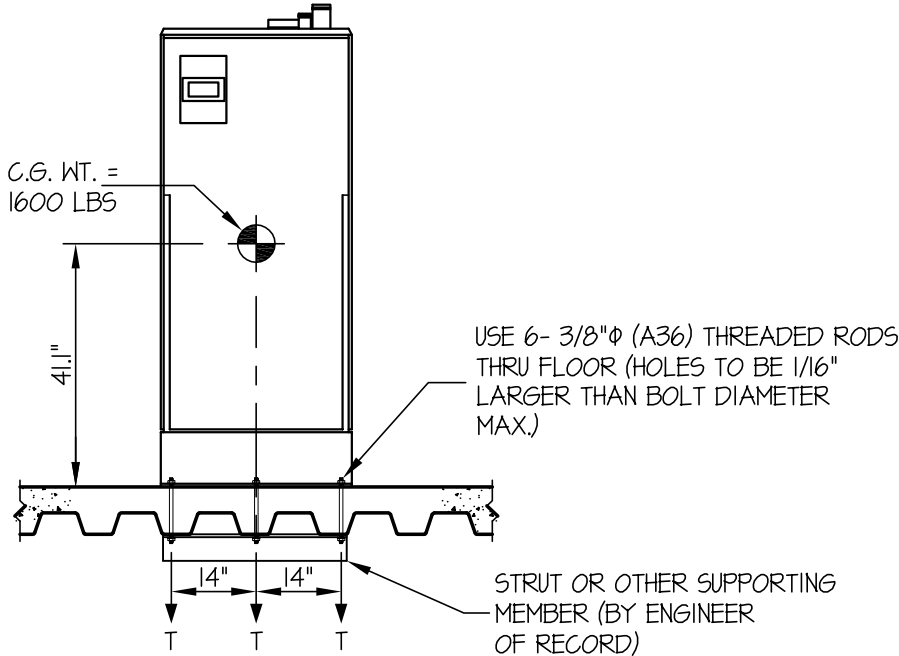


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P-K MACH SERIES C-3000 BOILER

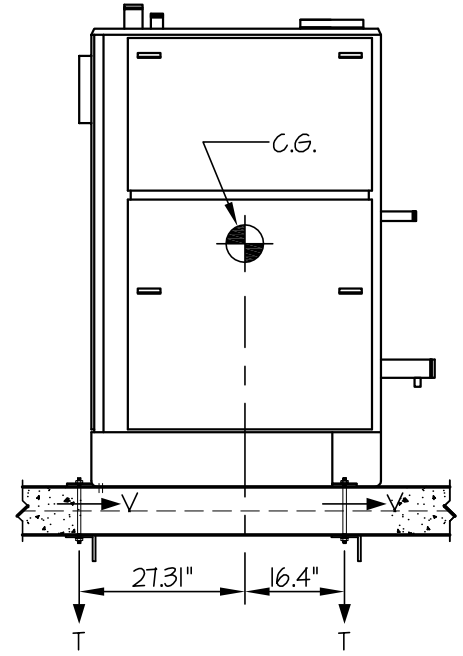
SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION

T_{MAX} = 1215 LBS/BOLT
 V_{MAX} = 480 LBS/BOLT



SIDE ELEVATION

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

WEIGHT = 1600 LBS

HORIZONTAL FORCE (E_h) = 144 W_p = 2304 LBS

VERTICAL FORCE (E_v) = 0.40 W_p = 640 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{2304\#(41.1'')}{2 \text{ BOLTS } (43.7'')} \times (0.3) \right] + \frac{2304\#(41.1'')(27.31'')}{2 \text{ BOLTS } (28'')(43.7'')} - \frac{(1600\#(0.9) - 640\#)(27.3'')}{3 \text{ BOLTS } (43.7'')} = 1215 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{2304\#(27.3'')}{3 \text{ BOLTS } (43.7'')} = 480 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

