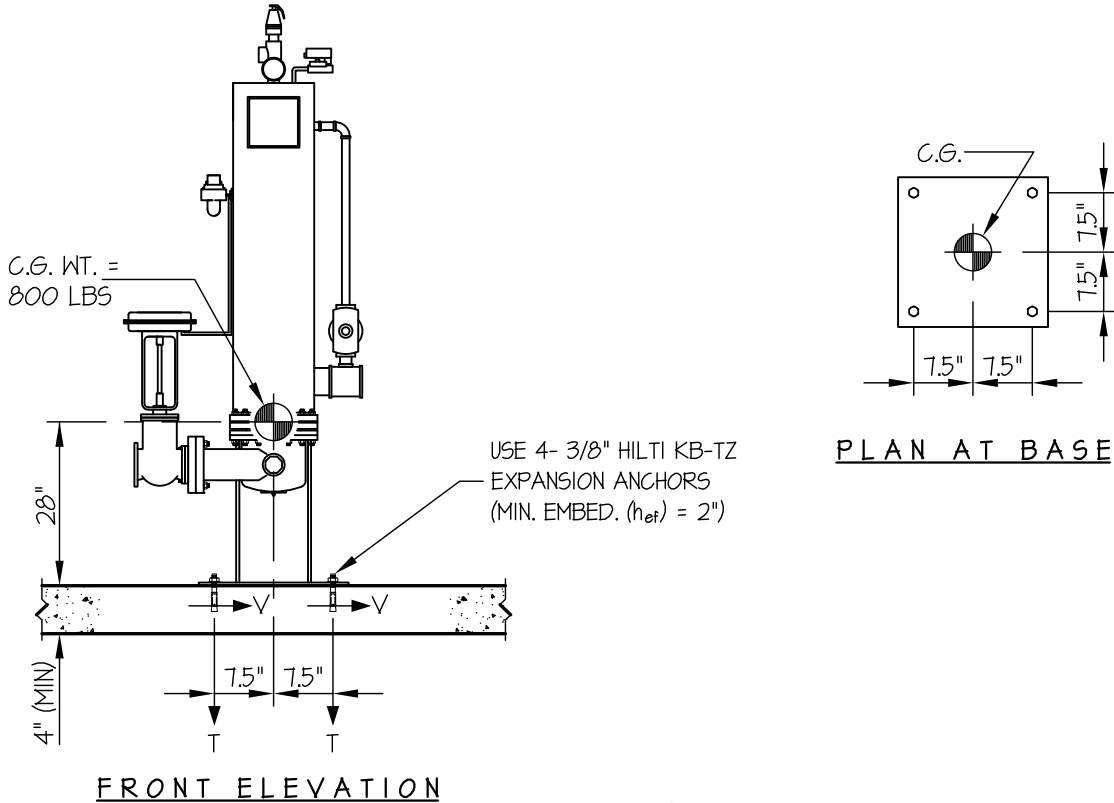


PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
	JOB NO. 11-1166	OF 1 SHEET
	DATE 8/22/11	

SEISMIC ANCHORAGE

SLAB ON GRADE



T_{MAX} = 774 LBS/BOLT
 V_{MAX} = 180 LBS/BOLT

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

WEIGHT = 800 LBS

HORIZONTAL FORCE (E_h) = 0.90W_p = 720 LBS

VERTICAL FORCE (E_v) = 0.40W_p = 320 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[\frac{720\#(28\text{'})}{2\text{BOLTS}(15\text{'})} \times (0.3) \right] + \frac{720\#(28\text{'})}{2\text{BOLTS}(15\text{'})} - \frac{800\#(0.9) - 320\#}{4\text{ BOLTS}} = 774\text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{720\#}{4\text{ BOLTS}} = 180\text{ LBS/BOLT (MAX)}$$

NOTE:

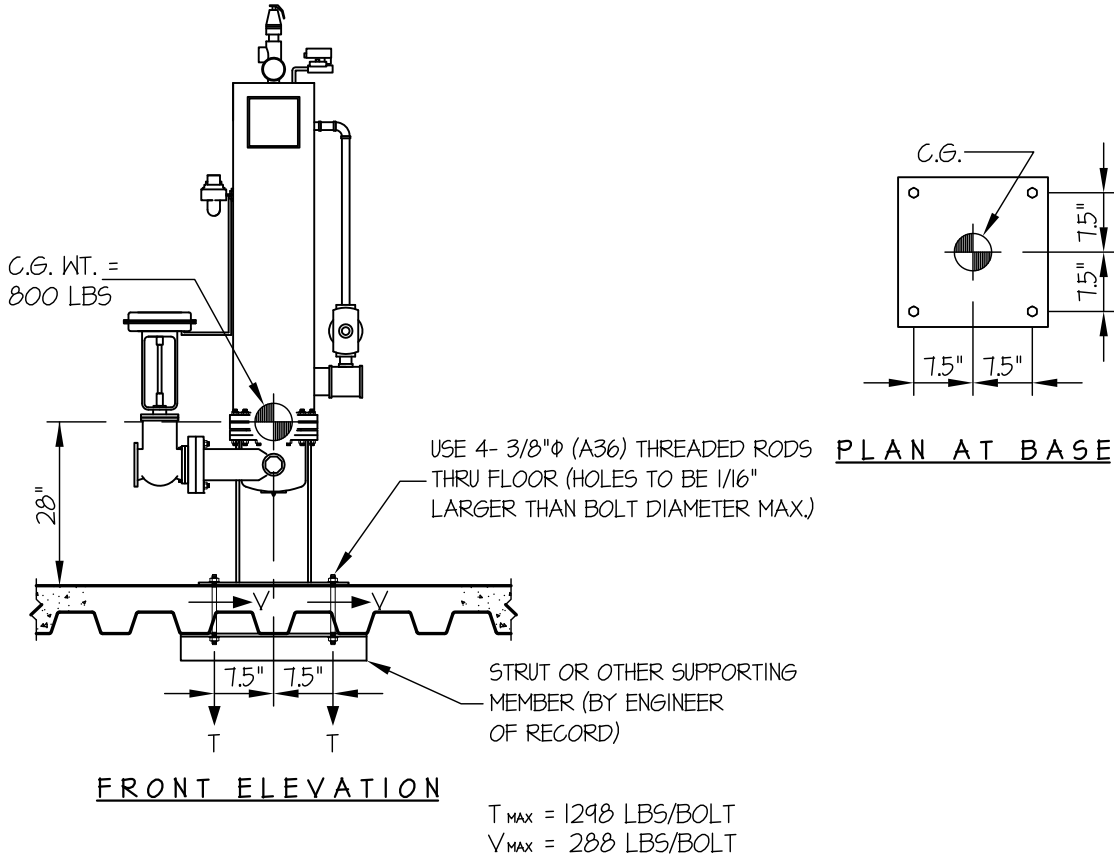
PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
 (BY ENGINEER OF RECORD FOR THE BUILDING)



PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
	JOB NO. 11-1166	OF 1 SHEET
	DATE 8/22/11	
COMPACT WATER HEATER - PK06D		

SEISMIC ANCHORAGE

ELEVATED FLOOR



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

WEIGHT = 800 LBS

HORIZONTAL FORCE (E_h) = $1.44W_p = 1152$ LBS

VERTICAL FORCE (E_v) = $0.40W_p = 320$ LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1152\#(28")}{2BOLTS(15")} \times (0.3) \right] + \frac{1152\#(28")}{2BOLTS(15")} - \frac{800\#(0.9) - 320\#}{4 BOLTS} = 1298 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1152\#}{4 BOLTS} = 288 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

