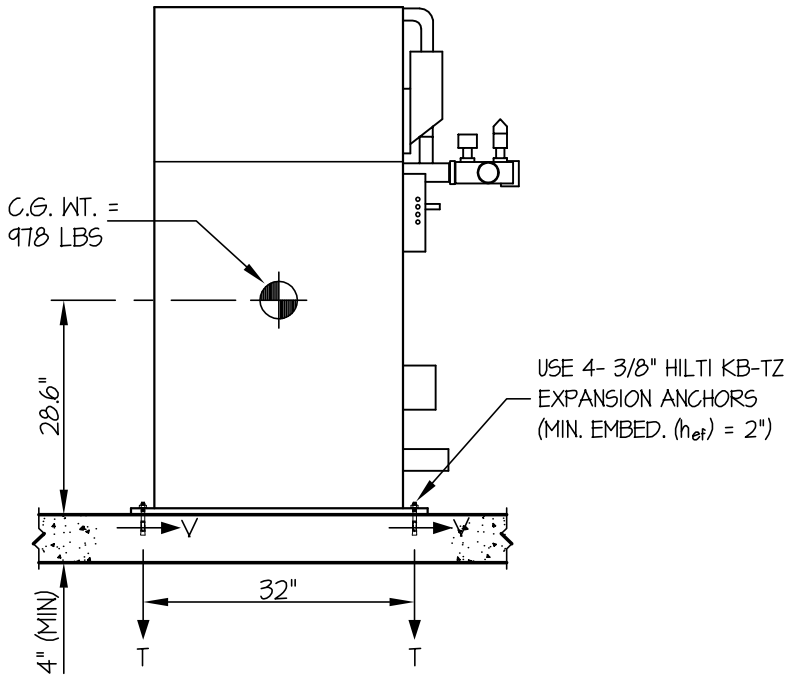


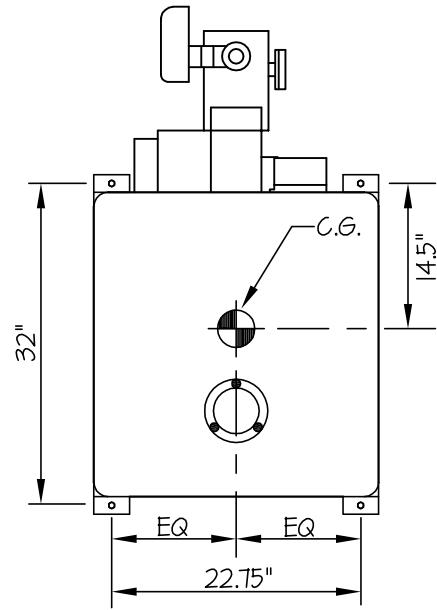
<b>PATTERSON-KELLEY CO.</b>  <b>FD MOD UNIT</b> <b>(N1500 MFD &amp; N2000 MFD)</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	

SEISMIC ANCHORAGE

SLAB ON GRADE



**SIDE ELEVATION**



**PLAN VIEW**

T<sub>MAX</sub> = 589 LBS/BOLT  
V<sub>MAX</sub> = 241 LBS/BOLT

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

WEIGHT = 978 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 0.90W<sub>p</sub> = 880 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 391 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{880\#(28.6\#)}{2\text{BOLTS}(32\#)} \times (0.3) \right] + \frac{880\#(28.6\#)(17.5\#)}{22.75\#(32\#)} - \frac{(978\#(0.9) - 391\#)(17.5\#)}{2\text{BOLTS}(32\#)} = 589 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{880\#(17.5\#)}{2\text{BOLTS}(32\#)} = 241 \text{ LBS/BOLT (MAX)}$$

NOTE:

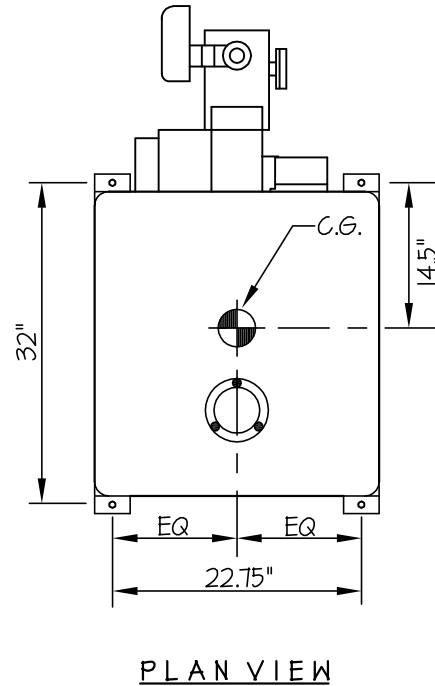
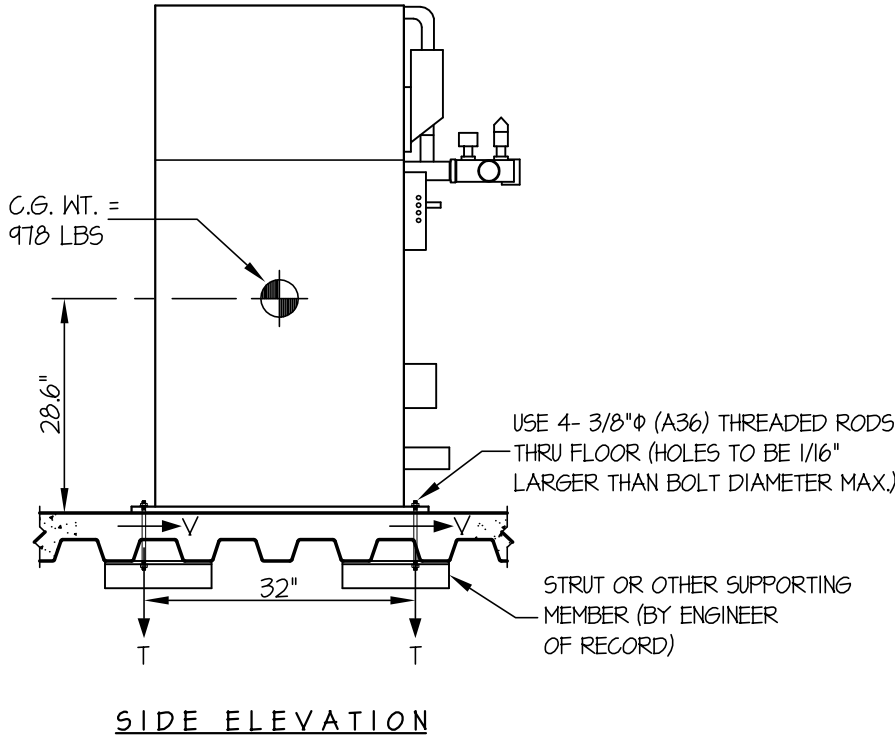
ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.



<b>PATTERSON-KELLEY CO.</b>  <b>FD MOD UNIT</b> <b>(N1500 MFD &amp; N2000 MFD)</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>	

SEISMIC ANCHORAGE

ELEVATED FLOOR



$T_{MAX} = 1023 \text{ LBS/BOLT}$   
 $V_{MAX} = 385 \text{ LBS/BOLT}$

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

WEIGHT = 978 LBS

HORIZONTAL FORCE ( $E_h$ ) =  $1.44W_p = 1408 \text{ LBS}$

VERTICAL FORCE ( $E_v$ ) =  $0.40W_p = 391 \text{ LBS}$

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[ \frac{1408 \# (28.6")}{2 \text{ BOLTS} (32")} \times (0.3) \right] + \frac{1408 \# (28.6") (17.5")}{22.75" (32")} - \frac{(978 \# (0.9) - 391 \#) (17.5")}{2 \text{ BOLTS} (32")} = 1023 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1408 \# (17.5")}{2 \text{ BOLTS} (32")} = 385 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

