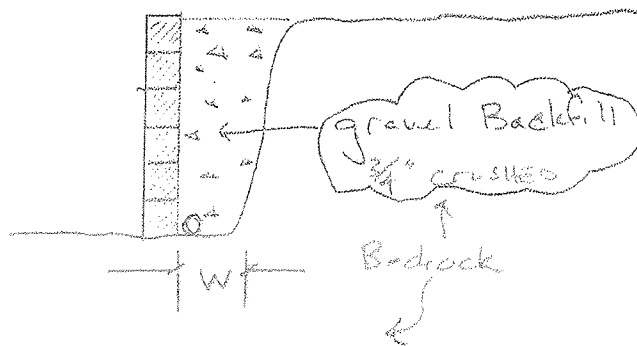


$$H \leq 6'$$



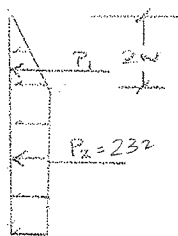
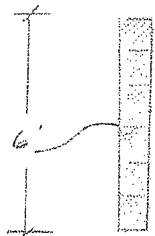
granular Backfill

$$\phi = 36^\circ \rightarrow \text{crushed gravel}$$

$$K_a = \tan^2(45 - \phi/2) = 0.26$$

$$\gamma = 0.26(110) = 29 \text{ pcf}$$

$$W = 1402' \text{ (depends on footing width)}$$



$$(h_1 + h_2)W$$

$$P = \frac{1}{2} (2W)^2 (K_a) (29 \text{ pcf})$$

$$(6 + (6 - 2(1))) (1/2) (29) (H - 2W) (2W) (29) =$$

$$P_2 = (H - 2W)^2 (K_a) (29 \text{ pcf})$$

WALL

$$P_1 = \frac{1}{2} (2(1))^2 (29) = 58$$

$$P_T = 783$$

$$P_2 = (7 - 2(1))^2 (29) = 725$$

STEM

$$P_1 = \frac{1}{2} (2(1))^2 (29) = 58$$

$$P_{T \text{ STEM}} = 522$$

$$P_2 = (6 - 2(1))^2 (29) = 464$$

