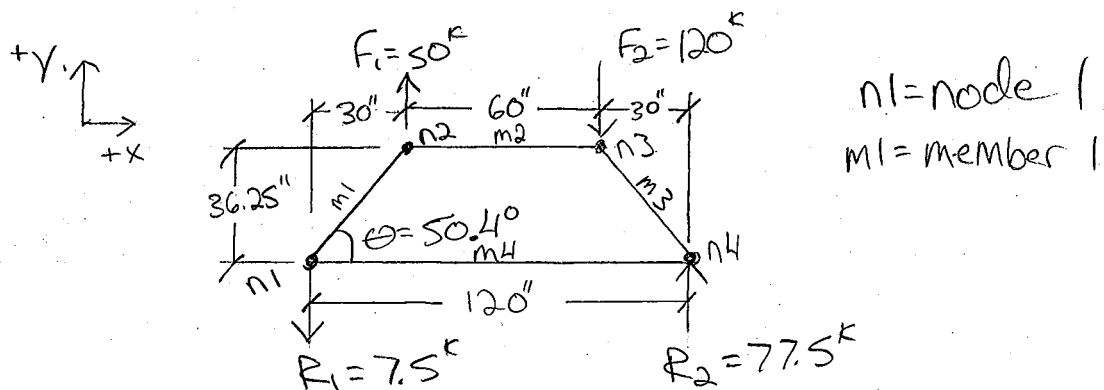
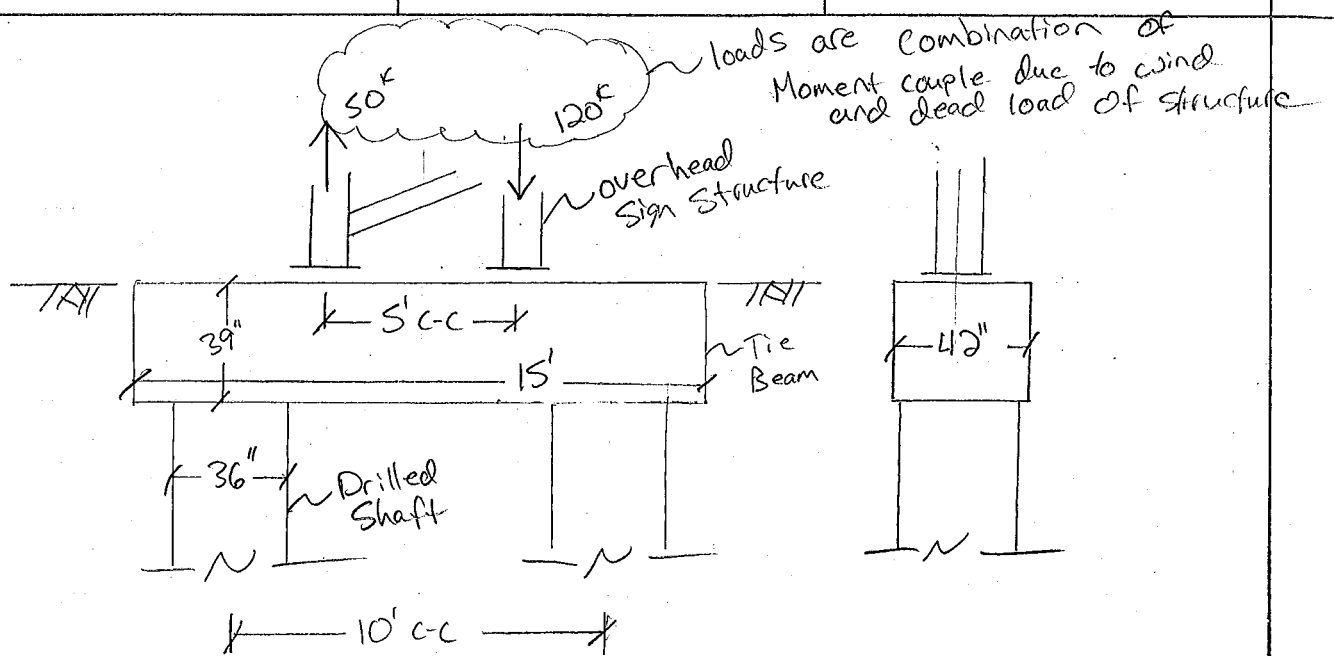




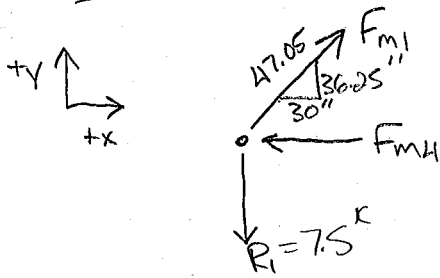
$$\sum M_{R_1} = (-50^k)(30'') + (120^k)(90'') - (R_2)(120'') = 0$$

$$R_2 = 77.5^k \uparrow$$

$$+\uparrow \sum F_y = 50^k - 120^k + 77.5^k - R_1 = 0$$

$$R_1 = 7.5^k \downarrow$$

At Node n1



$$+\uparrow \Sigma F_y = \left(\frac{36.25''}{47.05''} \right) (F_{m1}) - R_1 = 0$$

$$\left(\frac{36.25''}{47.05''} \right) (F_{m1}) - 7.5^k = 0$$

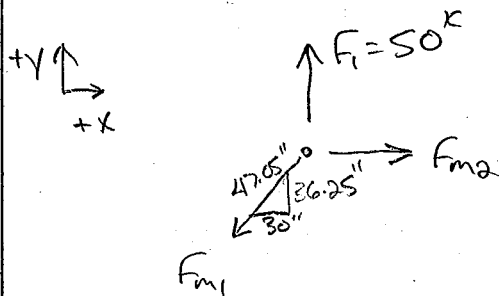
$$F_{m1} = 9.7^k \nearrow$$

$$\rightarrow \Sigma F_x = \left(\frac{30''}{47.05''} \right) (F_{m1}) - F_{mH} = 0$$

$$\left(\frac{30''}{47.05''} \right) (9.7^k) - F_{mH} = 0$$

$$F_{mH} = 6.2^k \leftarrow$$

At Node n2



$$+\uparrow \Sigma F_y = F_1 - \left(\frac{36.25''}{47.05''} \right) (F_{m1}) = 0$$

$$50^k - \left(\frac{36.25''}{47.05''} \right) (F_{m1}) = 0$$

$$F_{m1} = 64.9^k$$

$$\rightarrow \Sigma F_x = F_{m2} - \left(\frac{30''}{47.05''} \right) (F_{m1}) = 0$$

$$F_{m2} - \left(\frac{30''}{47.05''} \right) (64.9^k) = 0$$

$$F_{m2} = 41.4^k$$

$F_{m1} = 9.7^k$ when calculated at n1

$F_{m1} = 64.9^k$ when calculated at n2