

PROJECT _____

SUBJECT _____

BY _____

DATE _____

PAGE _____

of _____

$$T_u = 29 \text{ K}$$

$$l_1 = 4.2''$$

$$l_1 + l_2 = l_d$$

$$l_3 = 25 - l_1 = 20.8''$$

$$h_{ef} = 25''$$

$$l_{dh} = 0.02 \phi_c d \sqrt{F_y / f'_c} \geq d_b$$

$$A_{CI} = 12.5.2$$

$$f'_c = 4000$$

$$\phi_c = 1$$

$$n = 1$$

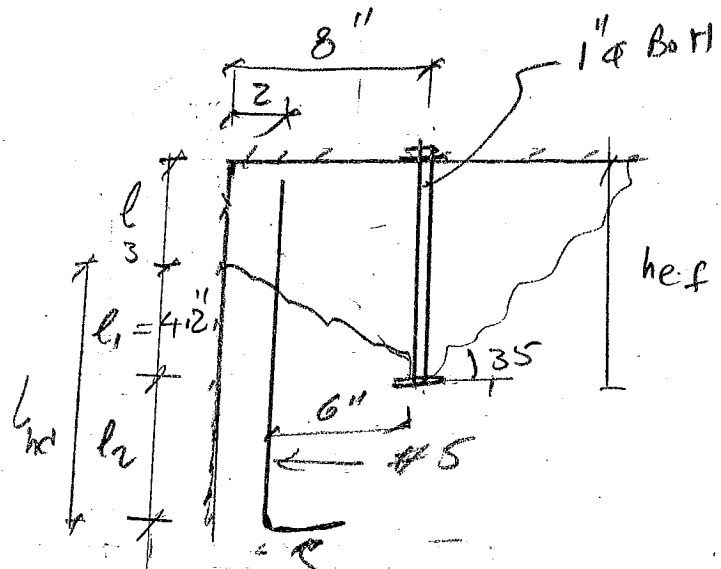
$$d_b = 1'' \phi$$

$$l_{dh} = (0.02 \times 1 \times 60 / \sqrt{4000 \times 1}) \times 1000 =$$

$$l_{dh} = 19'' \Rightarrow \underline{l_2} = l_d - l_1 = 19 - 4.2 = 14.8 \leq 15''$$

$$\text{and also } l_3 \text{ must } l_{dh} = 15 \text{ o.k.}$$

$$l_3 = 20.8 > 15'' \text{ o.k.}$$



$$T = 0.9 F_y A$$

$$T = 0.9 \times 60 \times 4 \times 0.3 = 64.8$$

Strength

Design

(2) #5

$$64.8 > 29 \text{ K}$$

o.k.