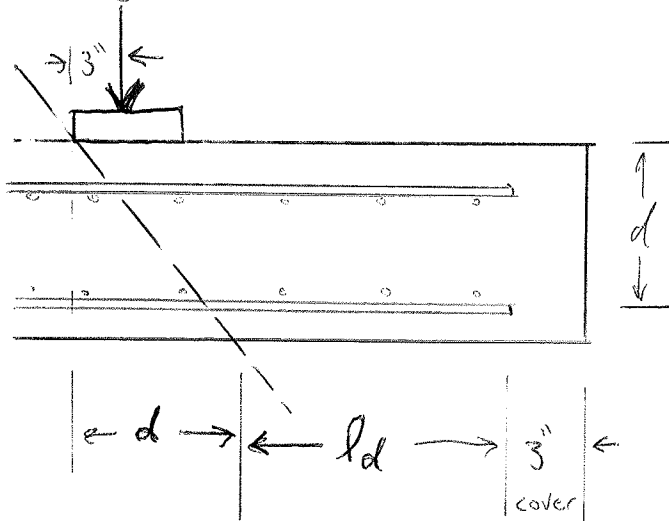


$F_y = 60 \text{ ksi}$
 $F_c = 41000 \text{ psi}$
 normal weight concrete
 non epoxy
 $d_b = 0.75 \text{ in}$

$d = 14''$

Failure Plane @ 45°

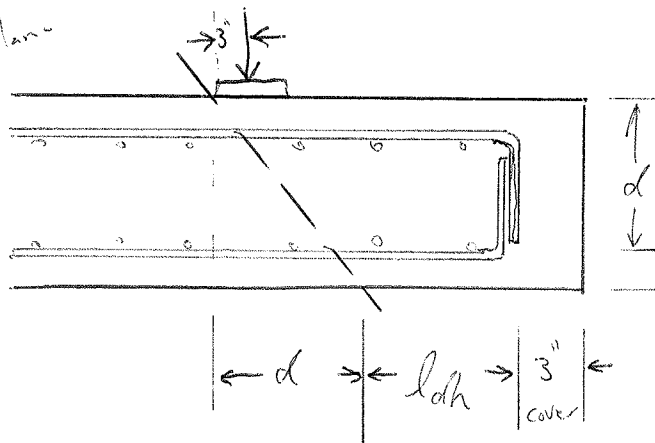


$$l_d = \max \left(12 \text{ in}, \frac{F_y}{25 \sqrt{F_c}} d_b \right)$$

$= 28.5 \text{ in}$

minimum distance eds. to center bearing plate = $42.5''$

Failure Plane @ 45°



$$l_{dh} = \max \left(8 d_b, 6 \text{ in}, \frac{0.02 F_y}{\sqrt{F_c}} d_b \right)$$

$= 14.2 \text{ in}$

minimum distance eds. to center bearing plate = 28.2 in

$$V_n = A_{vs} F_y (\mu \sin \alpha + \cos \alpha)$$