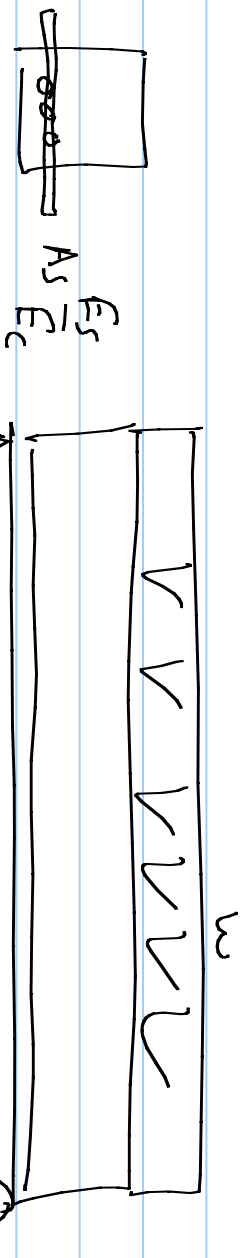


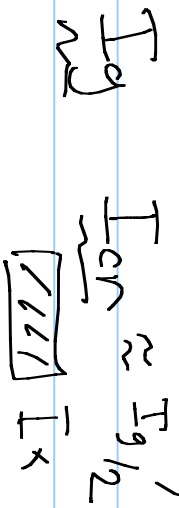
5.10.07

5.10.07

Deflections - Concrete $\Delta \leq \frac{L}{\#}$



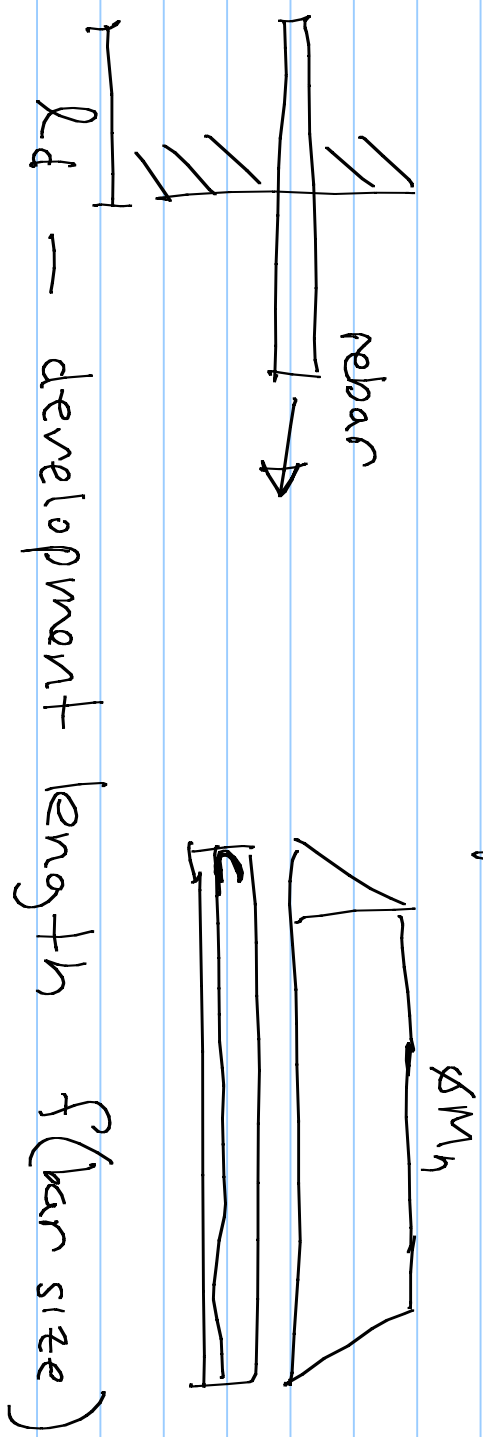
$$\Delta = \frac{5wL^4}{384EI}$$

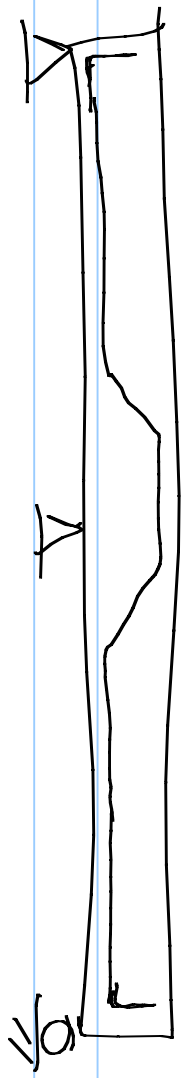


$$n = \frac{E_s}{E_c} \approx 9$$

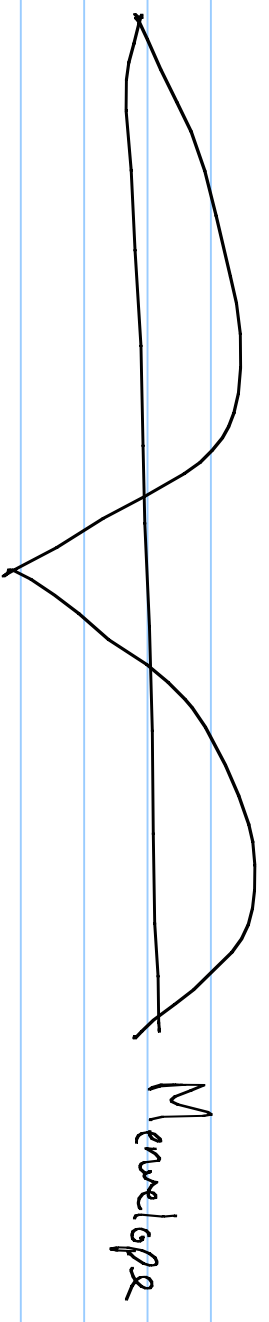
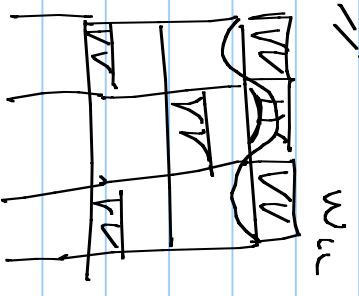
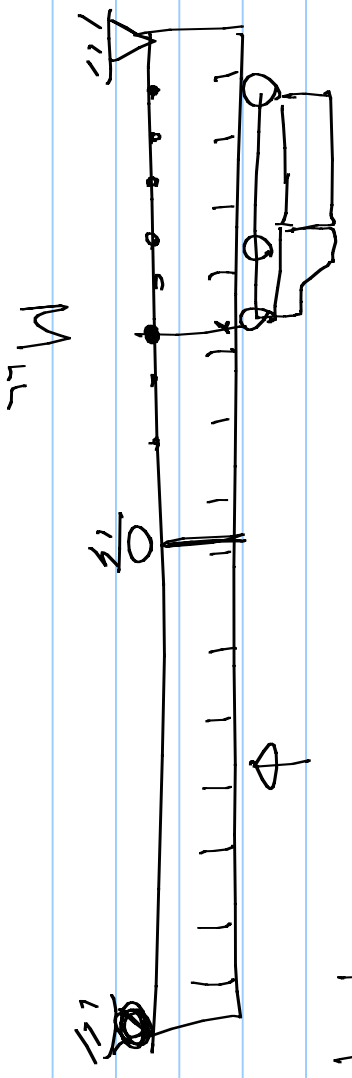
$I_g < I_e < I_{cn}$

Force transfer + development





Loading (LL)



Interaction Diagrams

P Design Beam-Columns

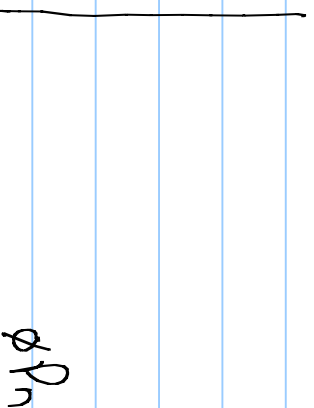


100k

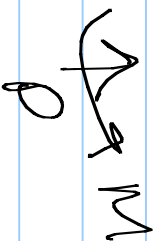
$$\phi P_n \geq P_u$$

$$\phi M_n \geq M_u$$

100 ft-k



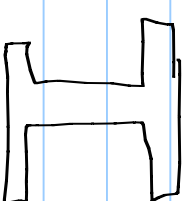
ϕP_n



$P_u = 80$
 $M_u = 0$

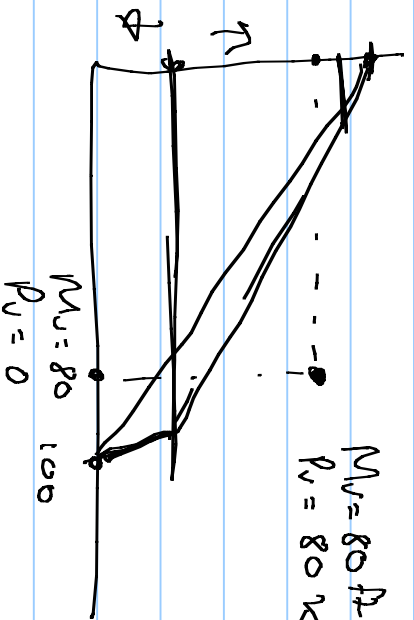
100

$M_u = 80$ ft-k
 $P_u = 80$ k



Steel

Interaction
Diagram



ϕM_n

