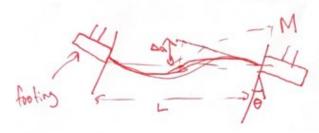
Tie beam stiffness



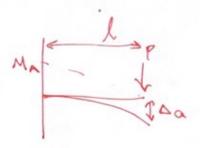
$$\Delta a = \Delta 2$$

$$0 = \Delta 2$$

$$0 = 2\Delta a$$

$$D = 2\Delta a$$

$$\Theta = 2\Delta_a$$



$$\Delta_{A} = \frac{Pl^{3}}{3 \in I}$$

$$\Delta_{A} = \frac{M_{A}l^{2}}{3 \in I}$$