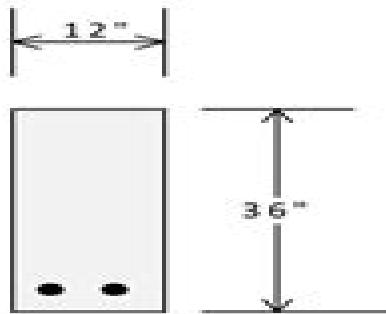


4.2 Compare the cracking moment based on the gross section properties and the transformed section properties with 2-No. 10 (No. 32) bars in Figure P4.1b based on a concrete tensile capacity of  $7.5\sqrt{f_c}$ .



$$f_c := 5000 \text{ psi} \quad E_c := 57000\sqrt{f_c \cdot \text{psi}} = 4.031 \times 10^6 \text{ psi} \\ E_s := 29000000 \text{ psi}$$

$$b := 12 \text{ in} \quad h := 36 \text{ in} \\ I_g := \frac{b \cdot h^3}{12} = 46656 \text{ in}^4$$

$$M_{cr} := \frac{7.5\sqrt{f_c \cdot \text{psi}} \cdot I_g}{\frac{h}{2}} = 1375 \text{ in-kip}$$

**E** Reinforcement details

Calculate transformed section properties:

$$n := \frac{E_s}{E_c} = 7.2 \quad A_s := 2 \cdot A_{\text{bar}} = 2.54 \text{ in}^2 \quad n \cdot A_s = 18.3 \text{ in}^2 \quad y_s := 2.5 \text{ in}$$

$$y_b := \frac{\frac{b \cdot h^2}{2} + n \cdot A_s \cdot y_s}{b \cdot h + n \cdot A_s} = 17.37 \text{ in}$$

$$I_g := \frac{b \cdot h^3}{12} + b \cdot h \cdot \left(\frac{h}{2} - y_b\right)^2 + n \cdot A_s \cdot (y_b - y_s)^2 = 50869 \text{ in}^4$$

$$M_{crt} := \frac{7.5\sqrt{f_c \cdot \text{psi}} \cdot I_g}{y_b} = 1553 \text{ in-kip}$$

$$\frac{M_{crt}}{M_{cr}} = 1.13$$

$$\frac{A_s}{b \cdot h} = 0.0059$$

Comment:

Including 0.6% reinforcement increased the cracking moment by 13%.

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**Xiaolong Qi**

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