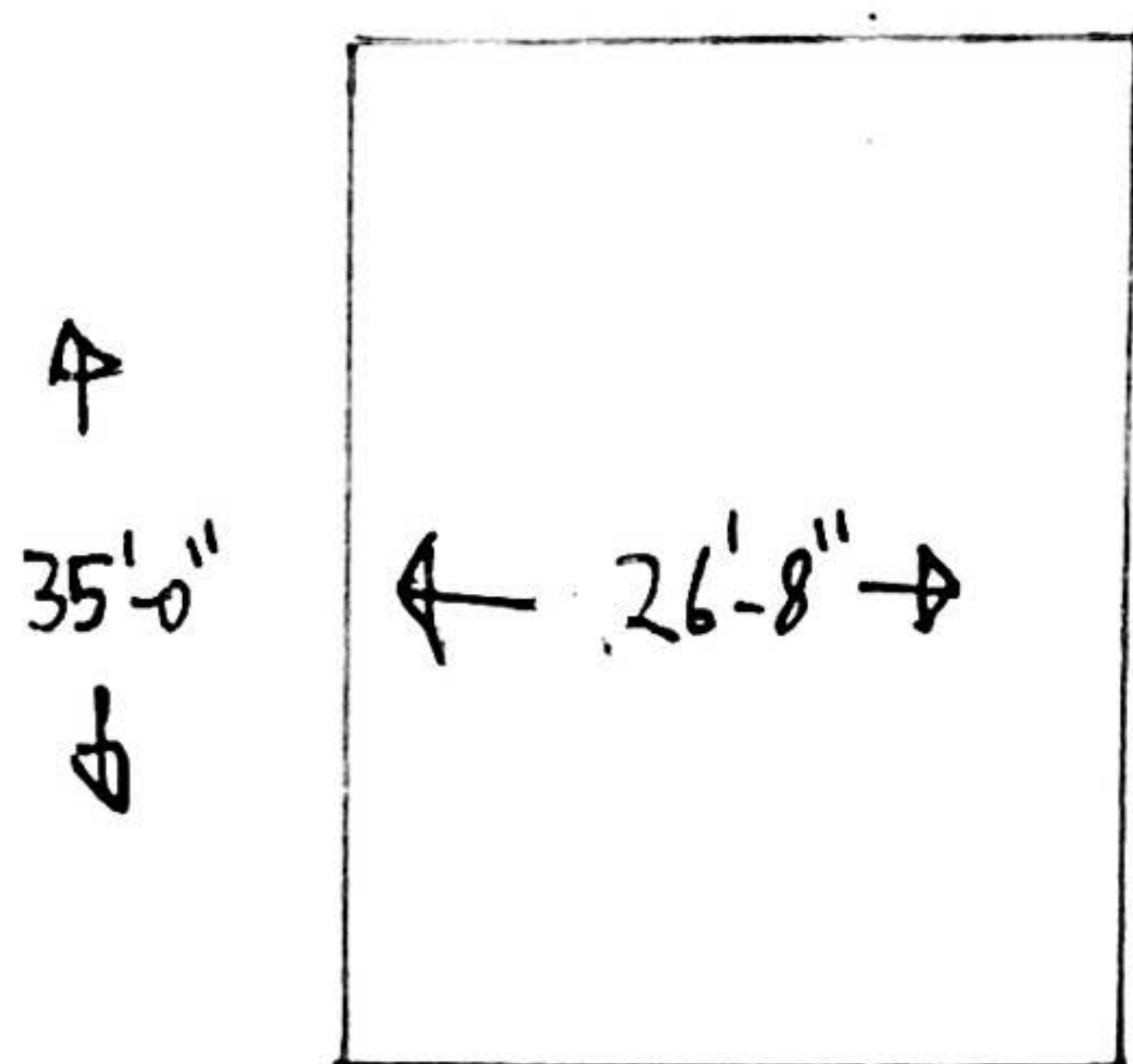
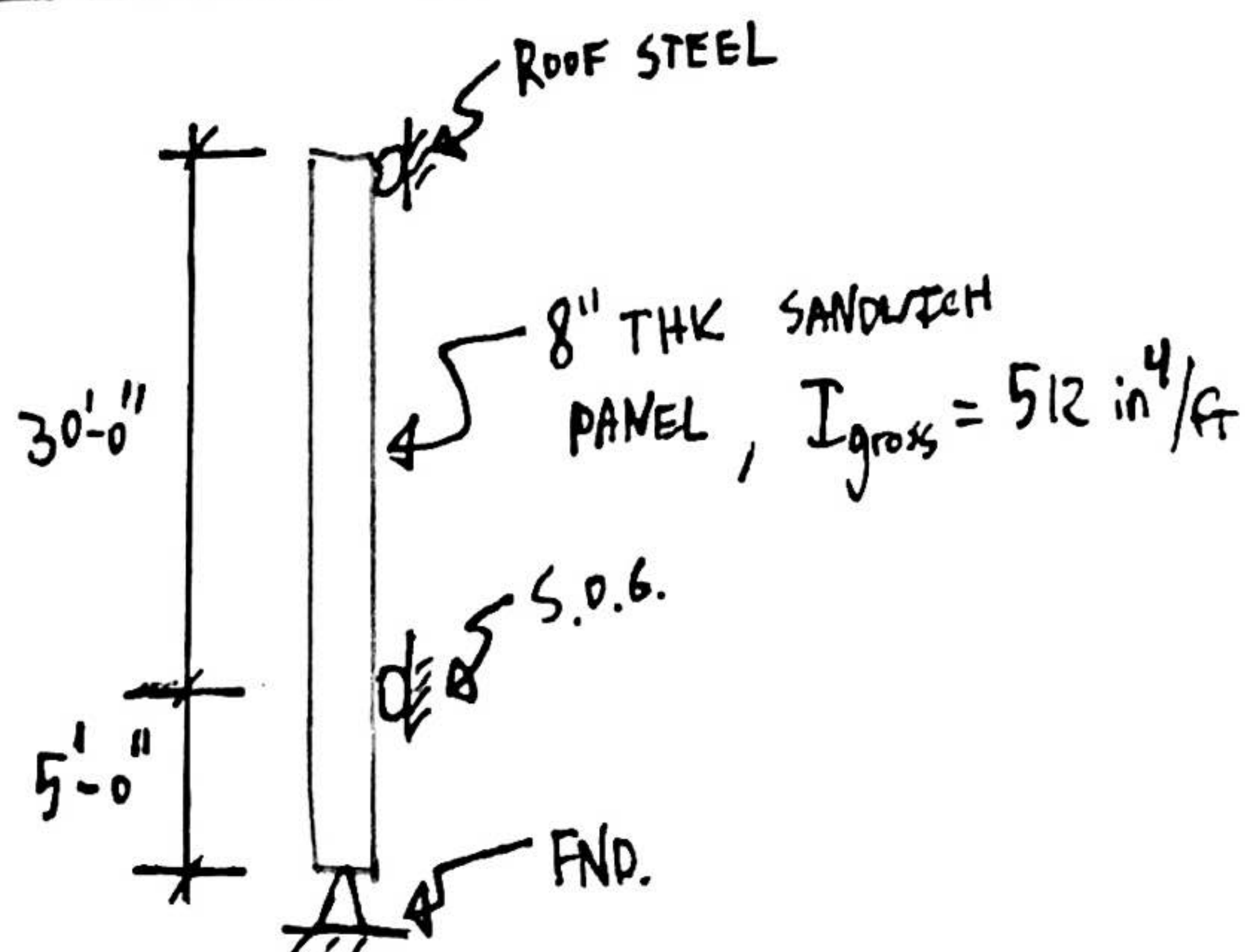


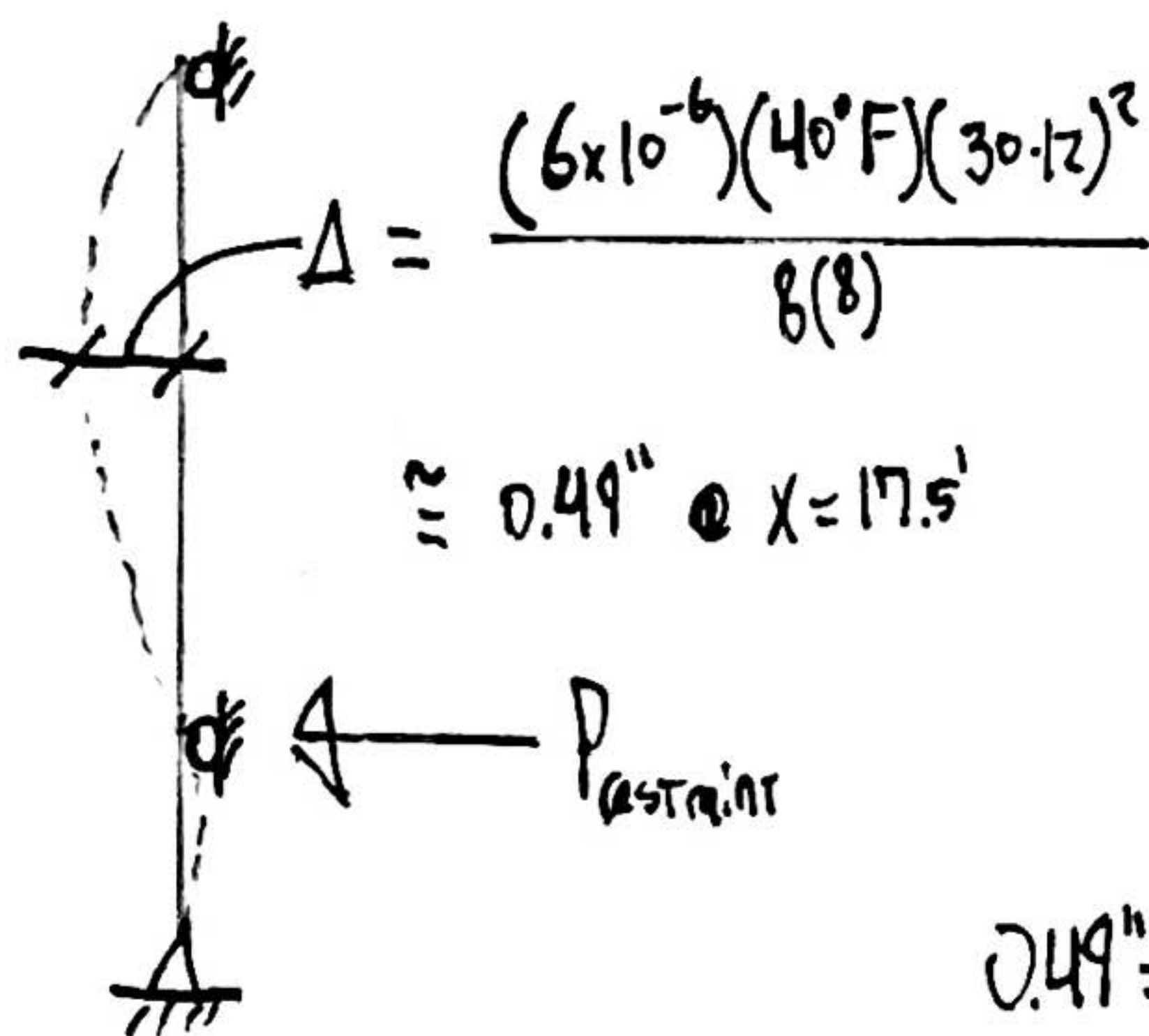
① PANEL ELEVATION



② PANEL SECTION



③ Δ DUE TO THERMAL BOW



④ RESTRAINING FORCE @ S.O.B.

* Back calc. equation for Δ on simple beam w/ point load @ any pt.

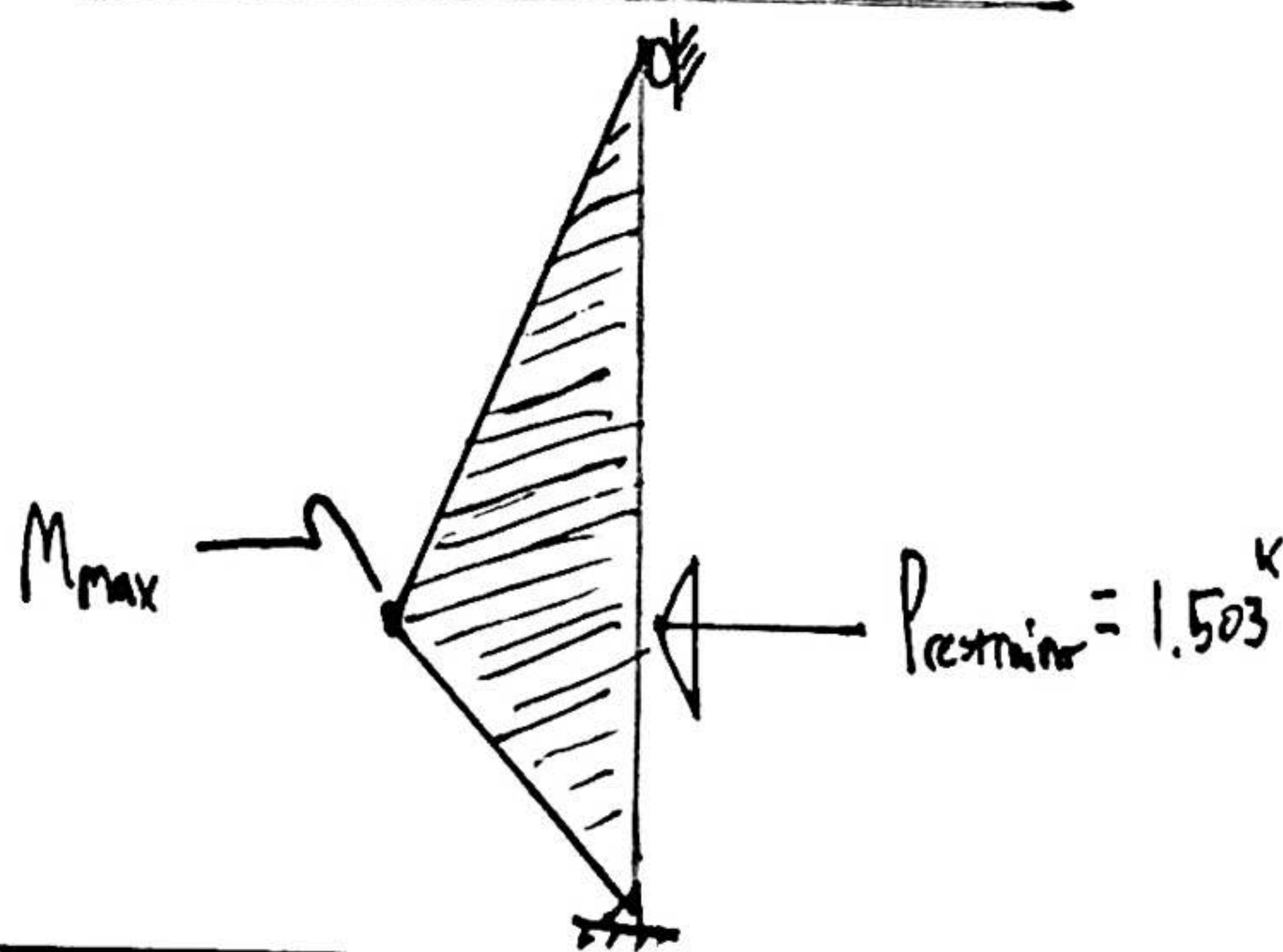
* Per AISC formulas...

$$\Delta_x (x > a) = \frac{Pa(1-x)}{6EI} (2ax - x^2 - a^2)$$

$$0.49" = \frac{P(5.12)[(35.12) - (17.5.12)]}{6(55000\sqrt{5000})(35.12)(512\text{ in}^4)} [(2)(35.12)(17.5.12) - (17.5.12)^2 - (5.12)^2]$$

Solve for P... $P = 1503 \text{ lbs}$

⑤ Moment due to restraint



$$M_{max} = \frac{(1.503)(5.12)(30.12)}{(35.12)}$$

$$= 77.3 \text{ in} \cdot \text{kip}/\text{ft}$$

TOTAL PANEL MOMENT

$$= 77.3 \text{ in} \cdot \text{kip}/\text{ft} \cdot 26.666' = 2061 \text{ in} \cdot \text{kip}$$