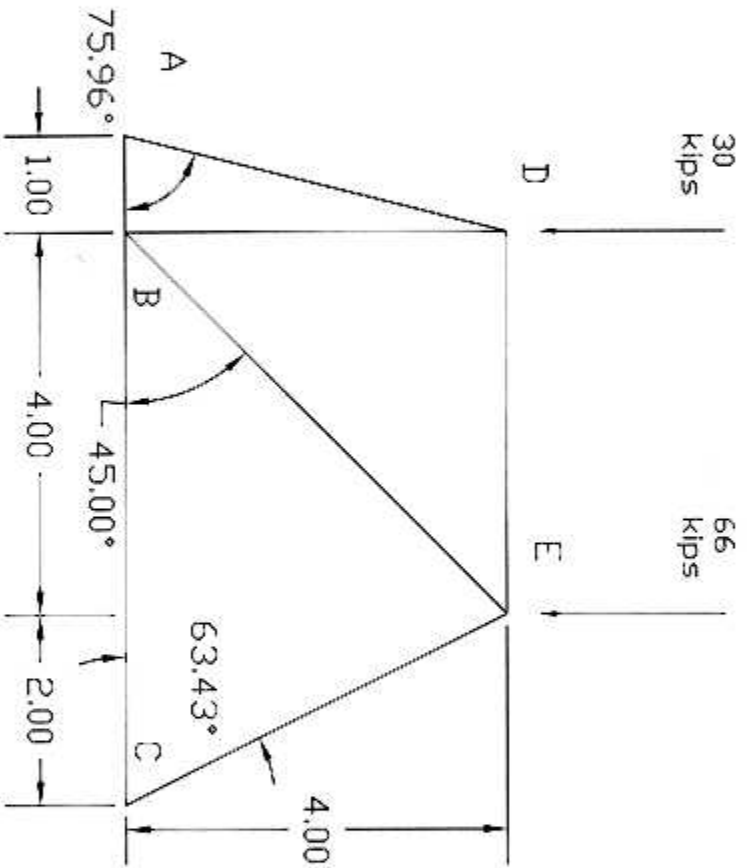


2X 5-2



6

BY: DC EDWARDS

EGR 194--01

DATE: 061808

TITLE: 94 LAYOUT

DE_C4EX

SCALE: NTS

$$\sum M_A = 0 \quad \text{kip} \cdot \text{ft}$$

$$0 = -30(1) + -66(5) + C_y(7)$$

$$C_y = \frac{360}{7}$$

$$C_y = \underline{\underline{51.43 \text{ kips}}}$$

$$\sum M_C = 0 \quad \text{kip} \cdot \text{ft}$$

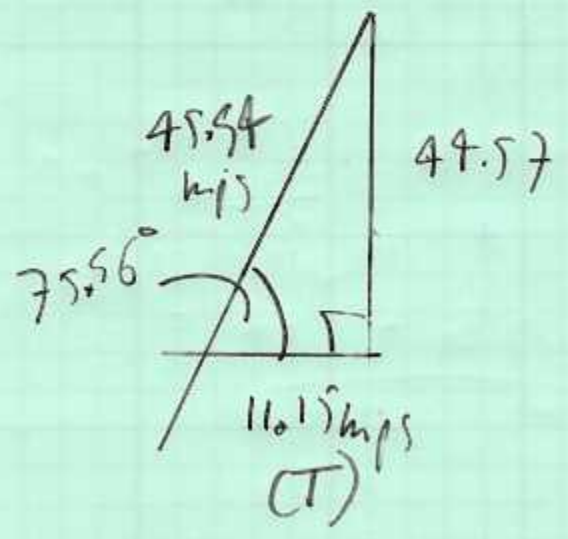
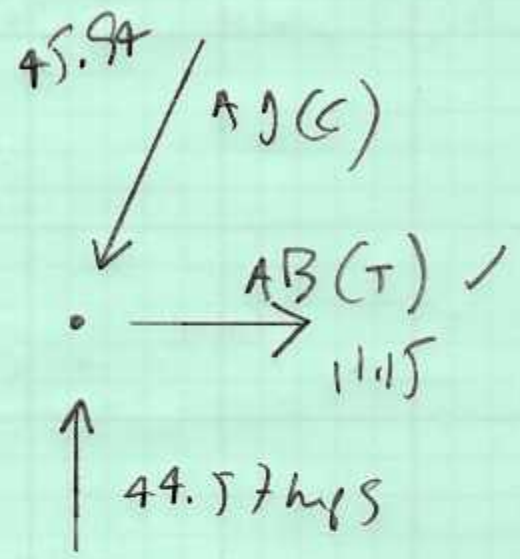
$$0 = -A_y(7) + 30(6) + 66(2)$$

$$A_y = \frac{312}{7}$$

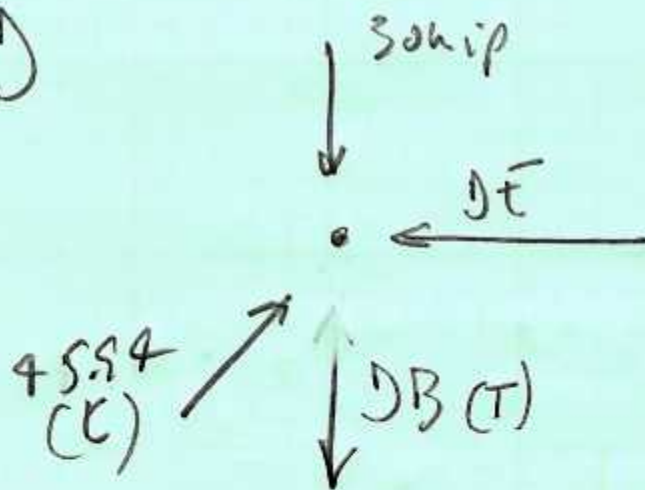
$$A_y = \underline{\underline{44.57 \text{ kips}}}$$

$$A_x = 0 \quad (\text{WSH})$$

@ A



@ J



ΔE:

$$\sum F_x = 0 \Rightarrow 0 = -\Delta E + 45.54(\cos 75.96)$$

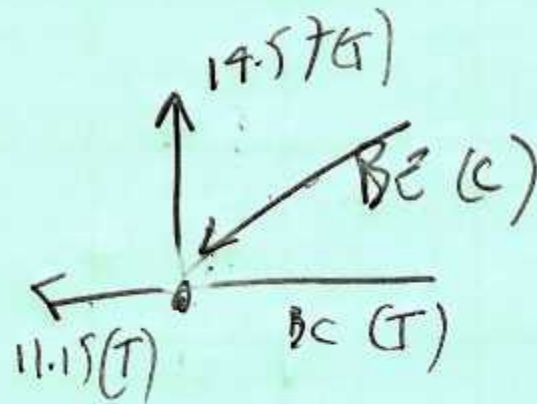
$$\Delta E = 11.15$$

$$\sum F_y = 0$$

$$0 = +44.57 - 30 + \Delta B$$

$$\Delta B = -14.57 \text{ (corr) (T)}$$

@ B



$$\sum \mathcal{M}_y = 0$$

$$0 = +14.57 - BE \sin 45$$

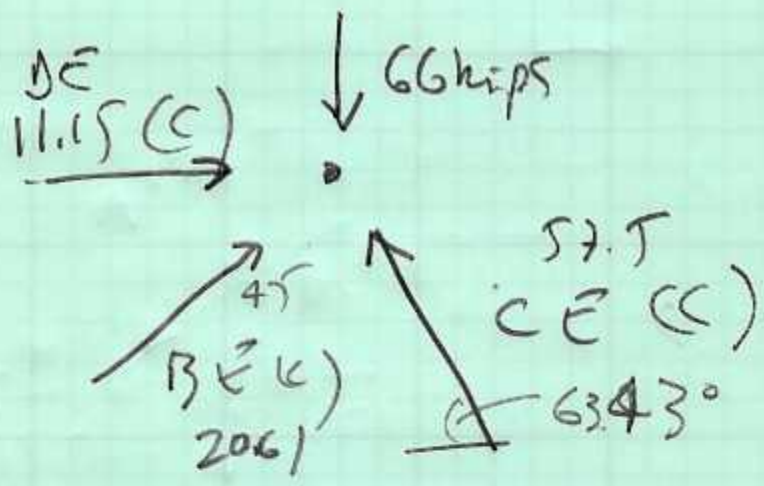
$$BE = 20.61 \text{ kips}$$

$$\sum \mathcal{F}_x = 0$$

$$0 = -11.15 - BE \cos 45 + BC$$

$$BC = \underline{25.72} \text{ kips}$$

@ E

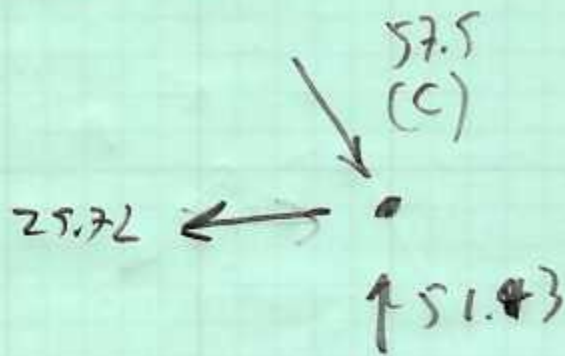


$$\sum f_y = 0$$

$$0 = -66 + 14.57 + CE \sin 63.43$$

$$CE = \underline{\underline{57.5 \text{ kips (k)}}}$$

all @ c



$$\sum F_x = 0$$

$$0 = -25.72 + 57.5 \cos 63.43$$

$$0 = 0 \quad \checkmark$$

$$\sum F_y = 0$$

$$0 = -57.5 \sin 63.43 + 51.43$$

$$0 = 0 \quad \checkmark$$