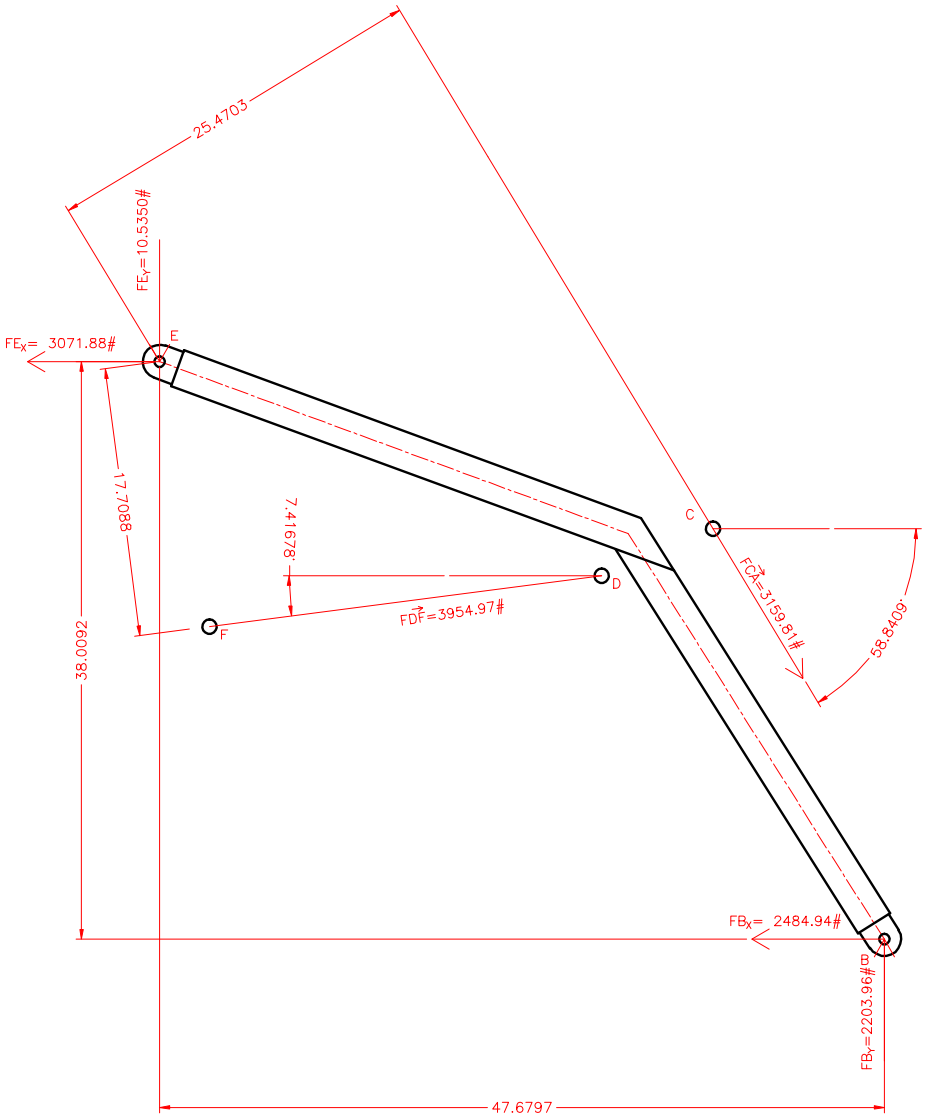

$\Sigma M_E^{\circlearrowleft}=(FB_Y*47.6797") + (FB_X*38.0092") +(\vec{FCA}*25.4703") - (\vec{FDF}*17.7088")=0$

$(-2203.96\#*47.6797") + (2484.94\#*38.0092") +(3159.81\#*25.4703) - (\vec{FDF}\#*17.7088")=0$

$70037.8"\# - (\vec{FDF}\#*17.7088")=0$

$$\frac{70037.8"\#}{17.7088"} = \frac{\vec{FDF}\#*\cancel{17.7088"}}{\cancel{17.7088"}}$$

$3954.97\# = \vec{FDF}\#$

$\Sigma\vec{F_X}=FB_X + \vec{FCA}_X + \vec{FDF}_X + FE_X=0$

$-2484.94\# + (3159.81\#* \cos 58.8409°) + (3954.97\#*\cos 7.41678°) - FE_X=0$

$3071.88"\# - (FE_X)=0$

$3071.88"\# = FE_X$

$\Sigma\vec{F_Y}=FB_Y + FCA_Y + FDF_Y + FE_Y=0$

$2203.96\# - (3159.81\#*\sin 58.8409) + (3954.97\#*\sin 7.41678°) + FE_Y=0$

$10.5350\# + FE_Y= 0$

$10.5350\# = FE_Y$