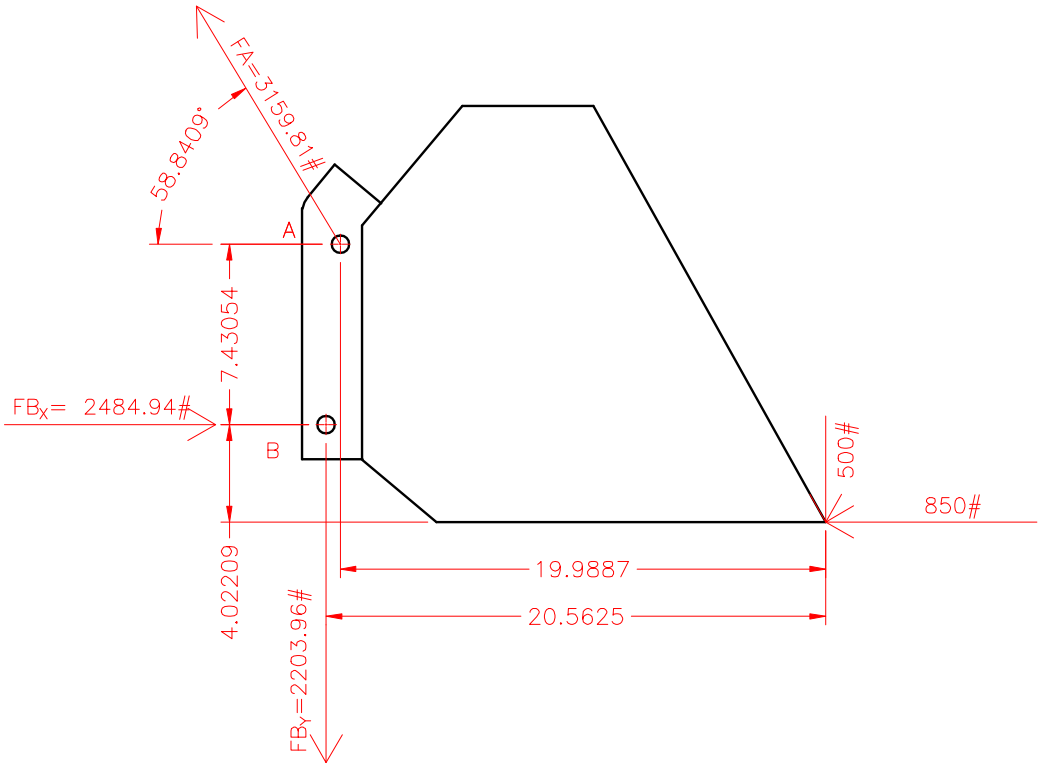

$\Sigma M_B^{\oplus}=(20.5625"*500\#) + (4.02209"*850\#)-(FA*COS\ 58.8409^\circ)*(7.43054")+ ((FA*SIN58.841)*(0.573800))=0$

$13700.0"\# -((FA*COS\ 58.8409^\circ)*(7.43054"))-((FA*SIN58.8409)*(0.573800")=0$

$13700.0"\# -((FA*COS\ 58.8409^\circ)*(7.43054"))-((FA*SIN58.8409)*(0.573800")=0$

$13700.0"\# -(FA*3.84468) - (FA*0.491020)=0$

$13700.0"\# -FA*3.84468 - FA*0.491020=0$

$13700.0"\# -FA*4.33570=0$

$$\frac{13700.0"\#}{4.33570} = \frac{-FA*\cancel{4.33570}0}{\cancel{4.33570}}$$

$3159.81\# = FA$

$FA_X=3159.81*COS\ 58.8409^\circ$

$FA_Y=3159.81*SIN\ 58.8409^\circ$

$\Sigma F_X^{\rightarrow}=-850\# - (3159.81\#*COS\ 58.8409^\circ) + FB_x=0$

$$-2484.94\# \frac{+\ FB_x=\ 0}{-FB_x\ -FB_x}$$

$2484.94\# = FB_x$

$\Sigma F_Y^{\uparrow}=-500\# + (3159.81\#*SIN\ 58.8409^\circ) - FB_Y=0$

$$2203.96 - FB_Y= 0$$
$$+FB_Y\ +FB_Y$$

$2203.96\#=FB_Y$