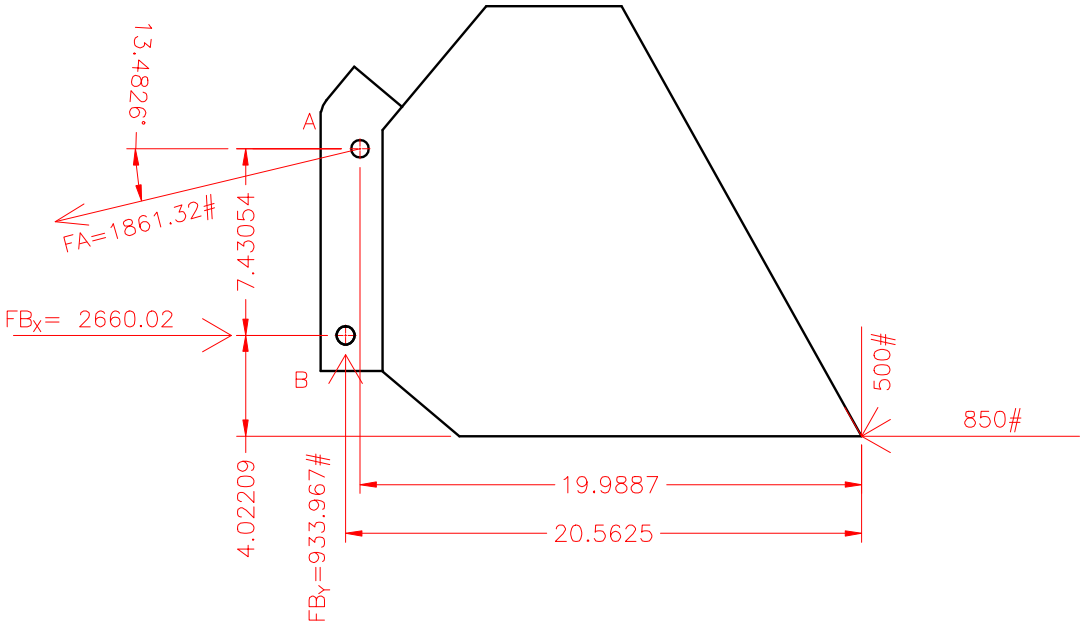

$\Sigma M_B^{\circlearrowleft}=(20.5625"*500\#) + (4.02209"*850\#)-(FA*COS13.4826^\circ)*(7.43054")- ((FA*SIN13.4826^\circ)*(0.573800))=0$

$13700.0"\# -((FA*COS\ 13.4826^\circ)*(7.43054"))-((FA*SIN13.4826^\circ)*(0.573800")=0$

$13700.0"\# -(FA*7.22576) - (FA*0.134614)=0$

$13700.0"\# = FA*7.22576 + FA*0.134614$

$13700.0"\# =FA*7.34268=0$

$\frac{13700.0"\#}{7.36037} = \frac{FA*7.\cancel{36037}}{7.\cancel{36037}}$

$1861.32\# = FA$

$FA_X=1861.32*COS\ 13.4826^\circ$

$FA_Y=1861.32*SIN\ 13.4826^\circ$

$\Sigma F_X^{\rightarrow}=-850\# - (1861.32\#*COS\ 13.4826^\circ) + FB_x=0$

$-2660.02\# + FB_x= 0$

$-FB_x\ -FB_x$

$2660.02\# = FB_x$

$\Sigma F_Y^{\uparrow}=-500\# - (1861.32\#*SIN\ 13.4826^\circ) + FB_Y=0$

$-933.967 + FB_Y= 0$

$933.967\#=FB_Y$