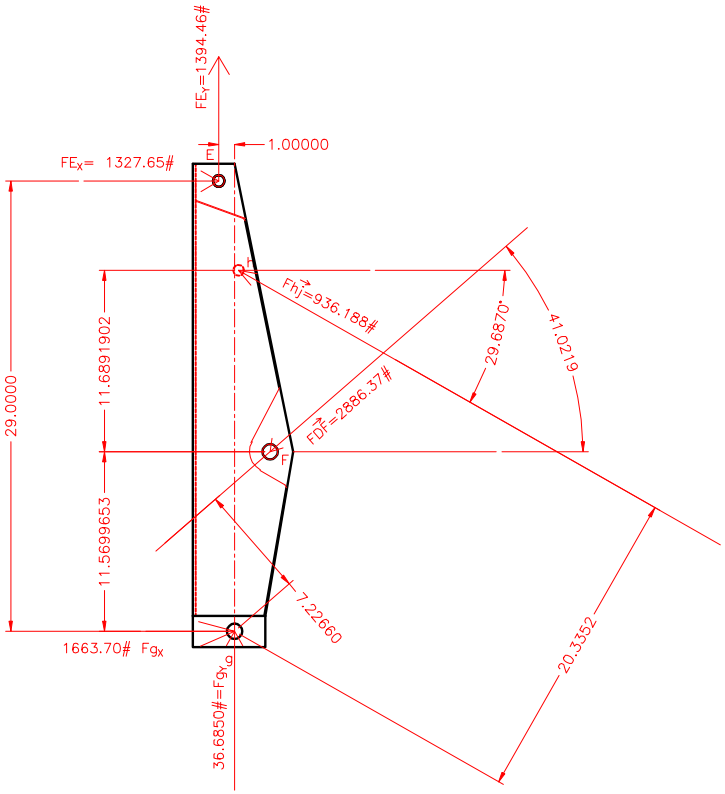

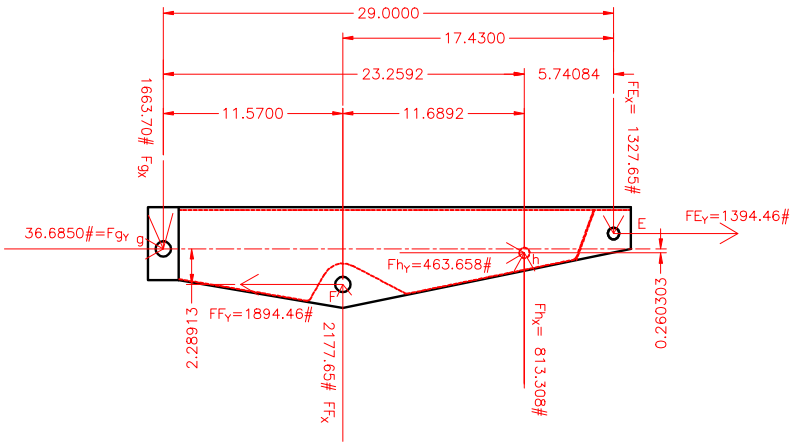

SHEAR DIAGRAM CALCULATIONS

$Fg_X+FF_X+Fh_X+FE_X=0$

$-1663.70\#+2177.68\#+813.308\#-1327.65\#=0$

$M_{29.0000}=-1663.70\#*29.0000"+(1894.46\#*2.28913")+2177.65\#*17.4300"-(463.658\#*0.260303")+813.308\#*5.74084"=-1405.81"\#$

$\Sigma M_g^{\circlearrowleft}= +(FE_X*29.0000") + FE_Y*1.00000- (FFD"*11.1777"\#) + (Fjh*20.3352") = 0$

$M_g^{+}= +(1327.65*29.0000") +1394.36*1.00000"- (2886.37\#*7.22660") - (Fjh*20.3352") = 0$

$936.188=Fhj$

$\Sigma F_X^{\rightarrow}=+FE_X - FDF\ COS7.4168^{\circ} + hj\ COS29.6870^{\circ} - Fg_X=0$

$+1327.65\# - 2886.89\# * COS41.0219^{\circ} - 936.188\# * COS29.6870^{\circ} + Fg_X=0$

$1663.70\# =Fg_X$

$\Sigma F_Y^{\uparrow}=+FE_Y - FDF\ SIN7.41678^{\circ} + hj\ SIN29.6870^{\circ} - Fg_Y=0$

$+1394.46\# - 2886.89\# * SIN41.0219^{\circ} + 936.188\# * SIN29.6870^{\circ} + Fg_Y=0$

$36.6850\# =Fg_Y$