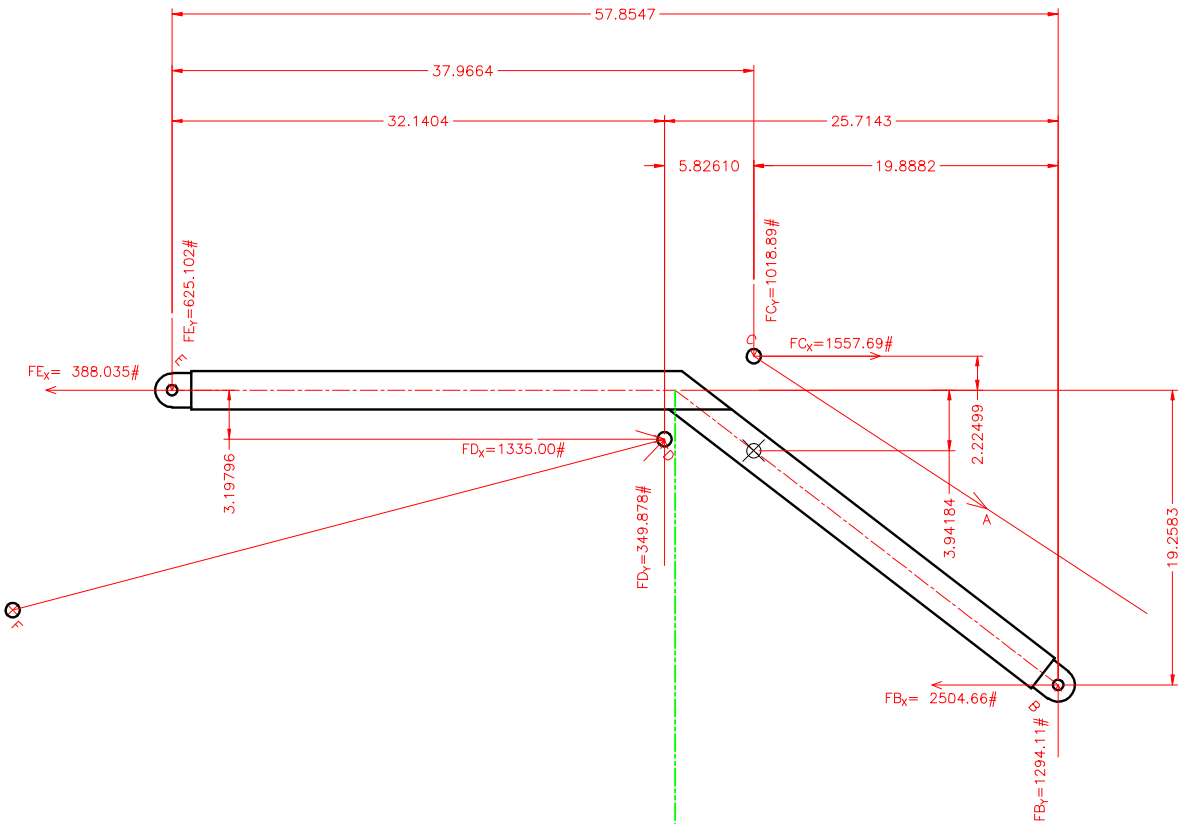
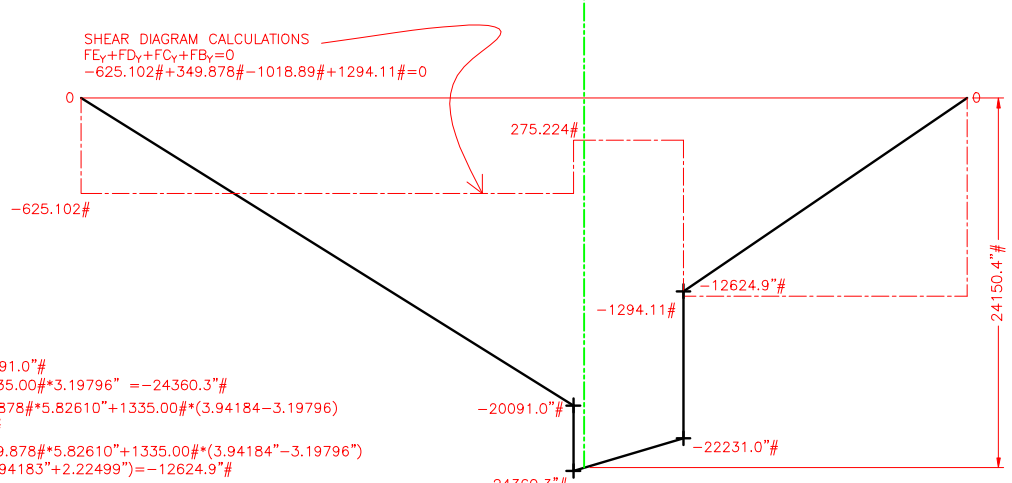


SHEAR DIAGRAM CALCULATIONS

$FE_Y+FD_Y+FC_Y+FB_Y=0$

$-625.102\#+349.878\#-1018.89\#+1294.11\#=0$



MOMENT CALCULATIONS

$M_{32.1404}=-625.102\#*32.1404=-20091.0"\#$

$M_{32.1404}+=-625.102\#*32.1404"-1335.00\#*3.19796" =-24360.3"\#$

$M_{37.9665}=-625.102\#*37.9664"+349.878\#*5.82610"+1335.00\#*(3.94184-3.19796)$
$- 388.035*3.94184 = -22231.0"\#$

$M_{37.9665}+=-625.102\#*37.9664"+349.878\#*5.82610"+1335.00\#*(3.94184"-3.19796")$
$-388.035\#*3.94183"+1557.69\#*(3.94183"+2.22499")=-12624.9"\#$

$M_{57.8547}=-625.102\#*57.8547" + 349.878\#*25.7143" - 1018.89*19.8882 - 388.035\#*19.2583")$
$+ 1335.00*(19.2583"-3.19796") + 1557.69*(19.2583"+2.22499") =-0.143462=\sim 0$