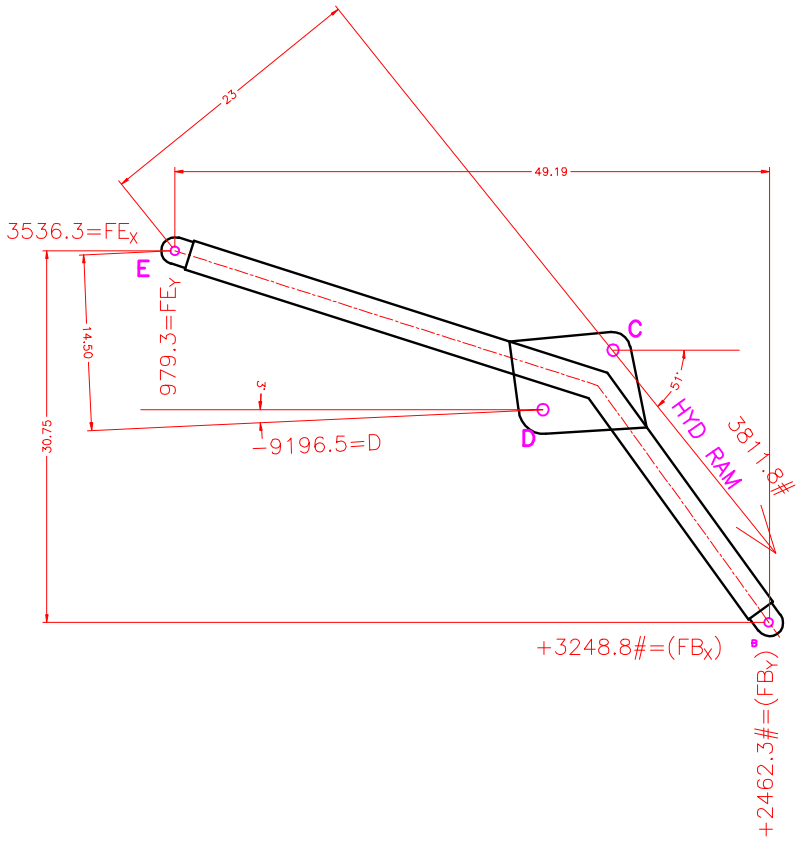

$\Sigma M_B \circlearrowleft + = 0$

$-(30.75'' * 3248.8\#) - (49.19 * 2462.3\#) + (23 * 3811.8) - (14.50 * D) = 0$

$-133349.7 - (14.50 * D) = 0$

$-133349.7 - (14.50 * D) = 0$

$\quad +(14.50 * D) \quad +(14.50 * D)$

$\frac{-133349.7}{(14.50)} = \frac{\cancel{(14.50)} * (D)}{\cancel{(14.50)}}$

$-9196.5 = D$

$\Sigma F_X \overset{\rightarrow}{+} = 0 = E$

$(3248.8) + (3811.8 * \cos 51) - (9196.5 * \cos 3) + (FE_X) = 0$

$(-3536.3) + (FE_X) = 0$

$(-3536.3) + (FE_X) = 0$

$\quad -(FE_X) \quad -(FE_X)$

$3536.3 = FE_X$

$\Sigma F_Y \overset{\uparrow}{+} = 0$

$(2464.3) - (3811.8 * \sin 51) - (9196.5 * \sin 3) + (FE_Y) = 0$

$(-979.3) + (FE_Y) = 0$

$\quad -(FE_Y) \quad -(FE_Y)$

$979.3 = FE_Y$