

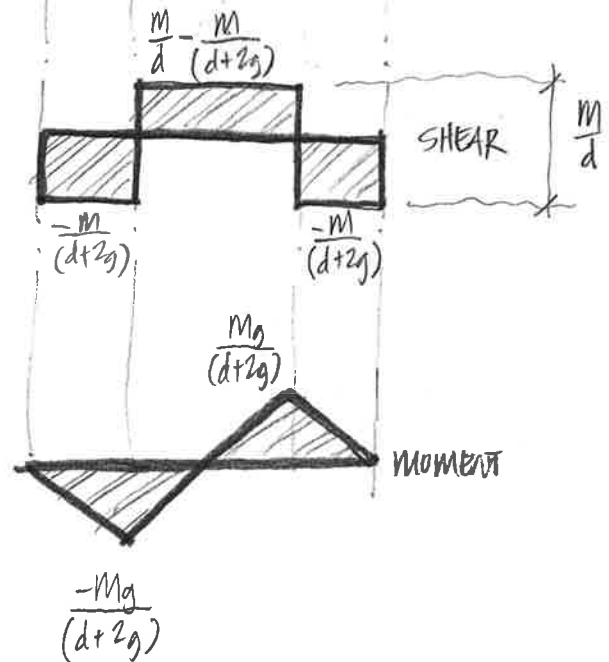
$$\sum M_A = 0 \quad -\left(\frac{M}{d}\right)(g) + \left(\frac{M}{d}\right)(d+g) - (R_B)(d+2g) = 0$$

$$-\frac{Mg}{d} - M + \frac{Mg}{d} = R_B(d+2g)$$

$$M = R_B(d+2g) \quad R_B = \frac{M}{(d+2g)}$$

$$\sum F_y = 0 \quad \frac{M}{d} - \frac{M}{d} + R_A + \frac{M}{(d+2g)} = 0$$

$$R_A = -\frac{M}{(d+2g)}$$



THE WELD IS DESIGNED FOR SHEAR OF $\frac{M}{(d+2g)}$ AND MOMENT OF $\frac{Mg}{(d+2g)}$