

1, + Add x V from  $M_{welds} = \text{TOTAL SHEAR}$

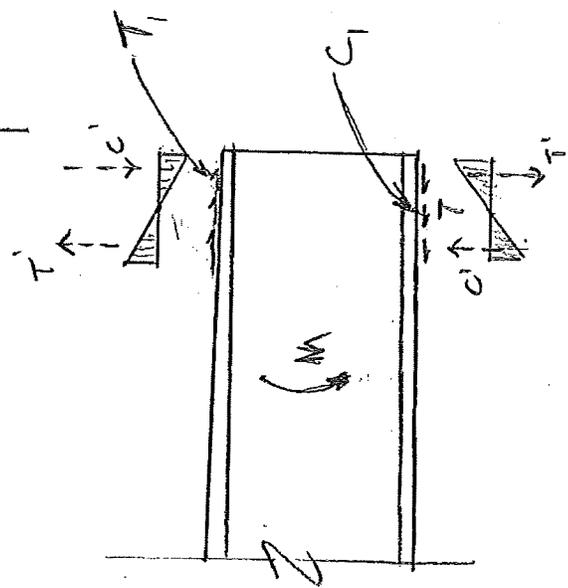
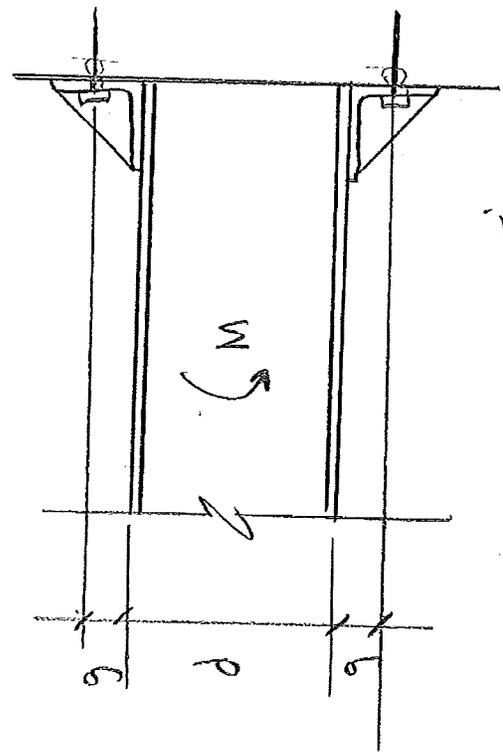
Add  $V$  from  $M_{welds} = \frac{[T']\alpha}{d}$

$T_1 = \frac{M}{d+2g} \therefore \text{Total } V = \frac{M}{d+2g} + \frac{\partial T' \alpha}{d} \Rightarrow T' = \frac{T_1 g}{\alpha}$

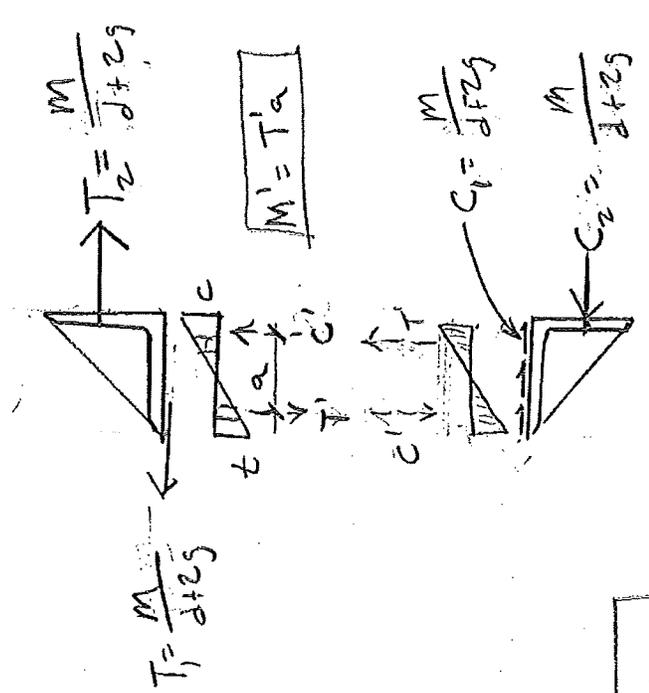
$V = \frac{M}{d+2g} + \frac{\partial(T_1 g)}{\alpha} \left(\frac{\alpha}{d}\right) = \frac{M}{d+2g} + \frac{\partial(M)}{\partial(d+2g)} \frac{g}{d}$

$V = \frac{M}{d+2g} + \frac{\partial M g}{\partial(d+2g)} = \frac{M d + 2 \partial M g}{d(d+2g)} = \frac{M(d+2g)}{d(d+2g)}$

$V = \frac{M}{d}$



$T_{1g} = M' = T' \alpha$



$M' = T' \alpha$