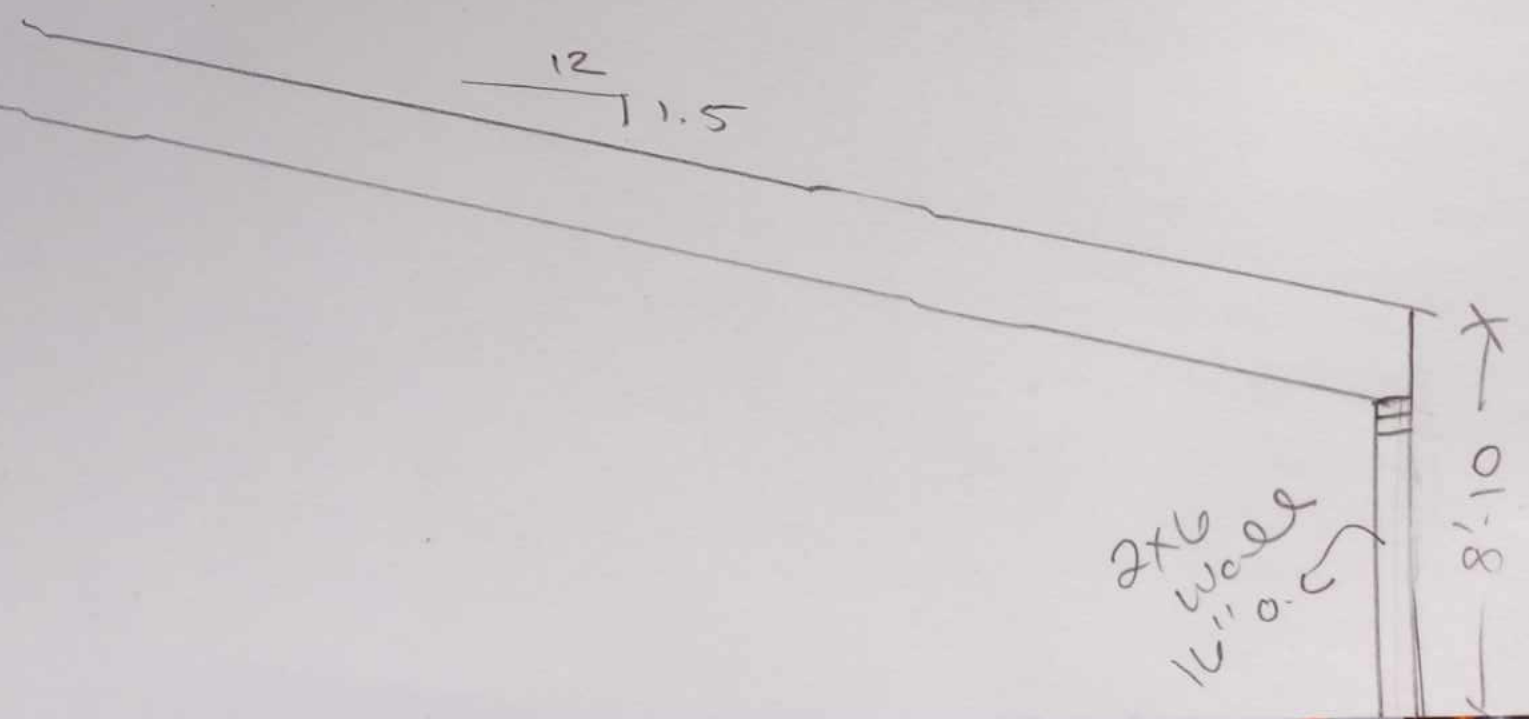
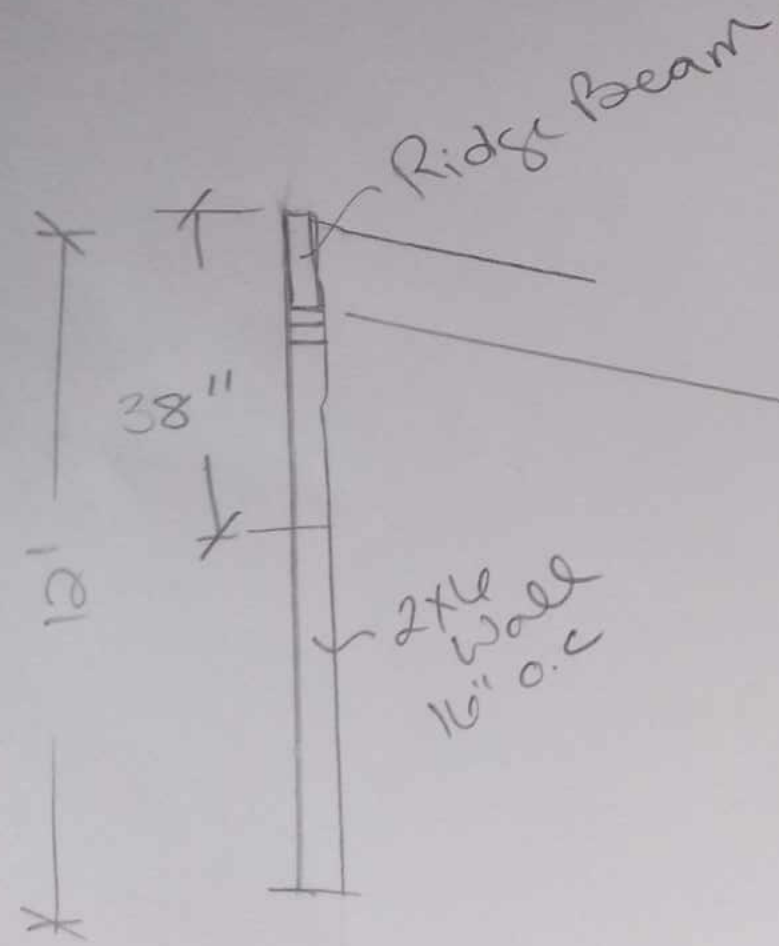


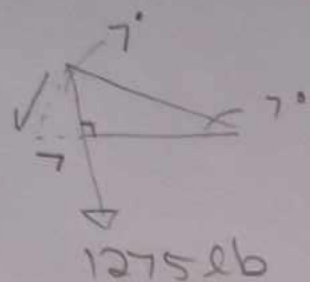
5 1/4" x 9"
Microcollam
24" o.c

$S = 35 \text{ psf}$
 $DL = 15 \text{ psf}$
 $W_{tot} = 50 \text{ psf}$



$$w_{tot} = 50 \text{ psf}$$

$$P = 50 \text{ psf} (2 \text{ ft}) \left(\frac{25.5 \text{ ft}}{2} \right) = 1275 \text{ lb}$$



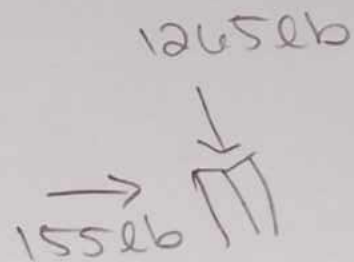
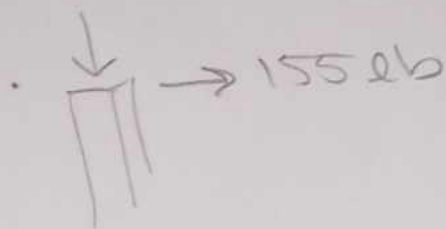
Normal / Bending Component:

$$1275 \text{ lb} (\cos 7^\circ) \\ = 1265 \text{ lb}$$

Horizontal Component

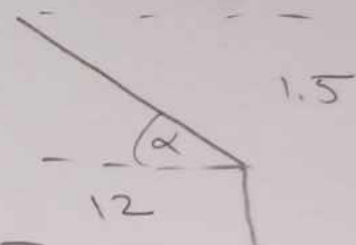
$$1275 \text{ lb} (\sin 7^\circ) \\ = 155 \text{ lb}$$

$$1265 \text{ lb}$$



every 2 ft
 $\hat{=} 155 \times 14$
 $= 2175 \text{ lb TOT}$

Globally - $\sum F_y = 0$ ✓



$$\tan^{-1} \left(\frac{1.5}{12} \right) \approx 7^\circ$$