



BEAM SUPPORTS FLOOR, ONLY
 TRIP. AREA $6 \times 12 = 12$
 C 40 psl = 480 pft
 $+ 5$ pft pl. = 540 pft
 $\left[\frac{540}{12} \right]$ pft
 LINE LOAD
 $+ 250$ pft
 $\left[\frac{540}{12} + 250 \right] = 3510$ lb
 $\left[\frac{3510}{4} \right] = 878$ lb/ft²
 $M = \frac{WL}{8} = \frac{540 \times 16 \text{ ft} (12 \text{ ft})}{8} = \frac{7020 \text{ lb ft}^2}{8} = 878 \text{ lb ft}^2$
 = MAX. SHEAR

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