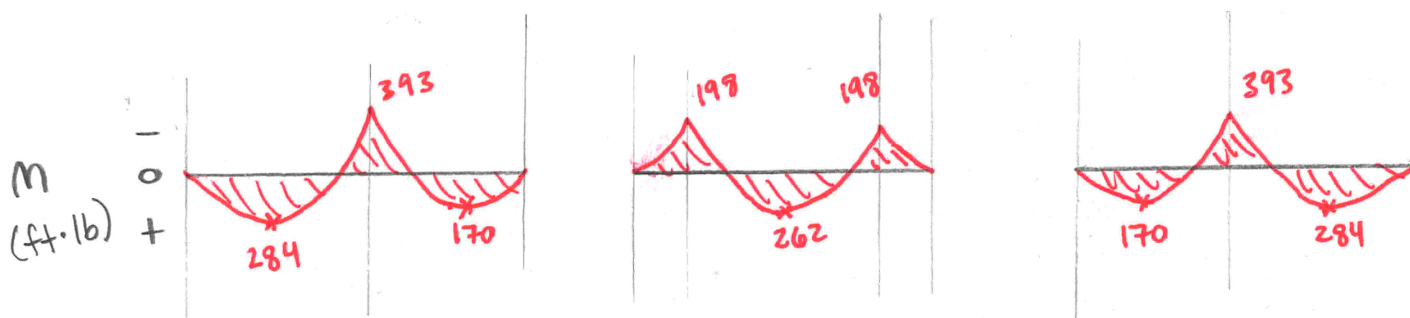
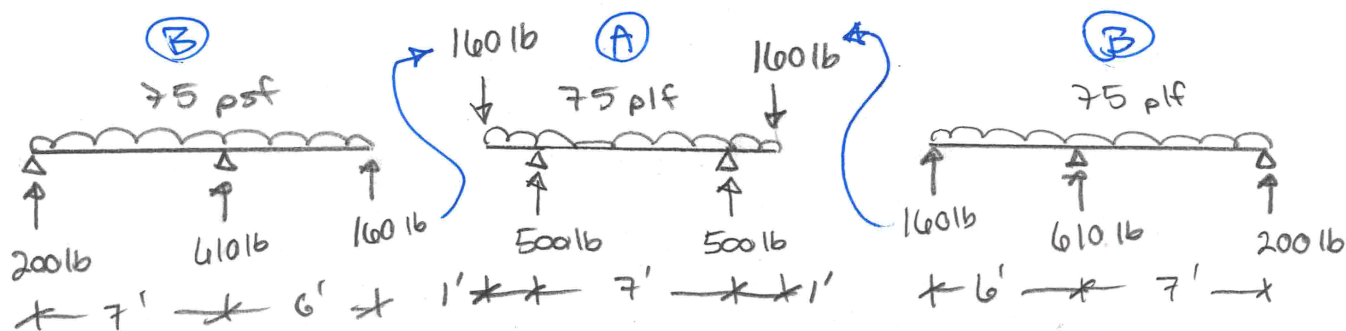


# METAL FORM DECK OVERHANG CONDITION

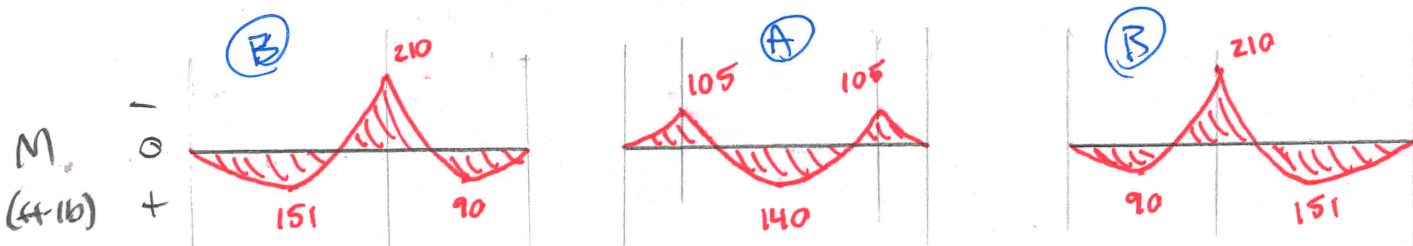
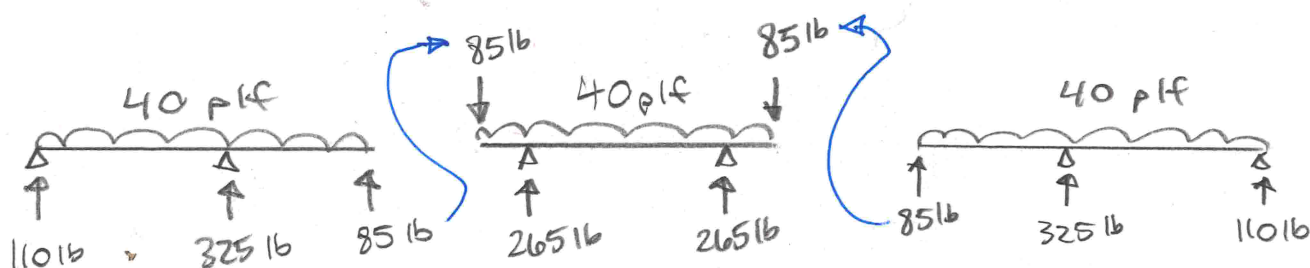
UPDATE LOAD DEMANDS & FIX MIDDLE (A) DECK TO HAVE CORRECT OVERHANG LENGTH OF 1 FT (CONCENTRATED LOAD APPLIED AT THIS LOCATION).

RISA-3D

• DEADLOAD: (1 ft STRIP WIDTH) DL = 75 psf



• LIVE LOAD: (1 ft STRIP WIDTH) LL = 40 psf (CONSTRUCTION)



RESULTS:

(A)  $M_{DL} + M_{LL} = 262 + 140 = M = 402 \text{ ft-lb}$   $\frac{M}{S} = \frac{402 \text{ ft-lb} (12 \text{ in/ft})}{0.229 \text{ in}^3} = \frac{M}{S} = 21 \text{ ksi}$

(B)  $M_{DL} + M_{LL} = 393 + 210 = 603 \text{ ft-lb}$   $\frac{M}{S} = \frac{603 \text{ ft-lb} (12 \text{ in/ft})}{0.229 \text{ in}^3}$

< 30 ksi ALLOW  
∴ OK

$\frac{M}{S} = 31.6 \text{ ksi} > 30 \text{ ksi ALLOW}$  (ASSUMES NO CONNECTION).

• REQUIRE CONNECTION AT 1 FT TO SECURE

