Project MAH-680-07.37 Calc By MA Date 7/18/23
Desc VES-LMC Chk By ____ Date ____
PID/PROJ ____

MAH-680-0791E

Deck width = 36'

$$\left[(1' \times 0.33' \times 36') + (1' \times 1.25' \times 36')\right] \times \frac{CY}{27\ CF} \times 2\ \text{joints} = [11.88 + 45] \times \frac{2}{27}$$
(deck: 1' × 0.33' × 36'; abutment: 1' × 1.25' × 36')

$$= 4.21 \approx \boxed{5\ CY}$$

MAH-680-0794

Deck width = 123.25'

$$\left[(1' \times 0.33' \times 123.25') + (1' \times 1.25' \times 123.25')\right] \times \frac{CY}{27\ CF} \times 2\ \text{joints} = [40.67 + 154.06] \times \frac{2}{27}$$
(deck: 1' × 0.33' × 123.25'; abutment: 1' × 1.25' × 123.25')

$$= 14.42 \approx \boxed{15\ CY}$$

MAH-680-1073R

Deck width ≈ 56.92'

$$\left[(1' \times 0.33' \times 56.92') + (1' \times 1.25' \times 56.92')\right] \times \frac{CY}{27\ CF} \times 2\ \text{joints} = [18.78 + 71.15] \times \frac{2}{27}$$
(deck: 1' × 0.33' × 56.92')

$$= 6.66 \approx \boxed{7\ CY}$$

MAH-680-1073L

see MAH-680-1073R calcs