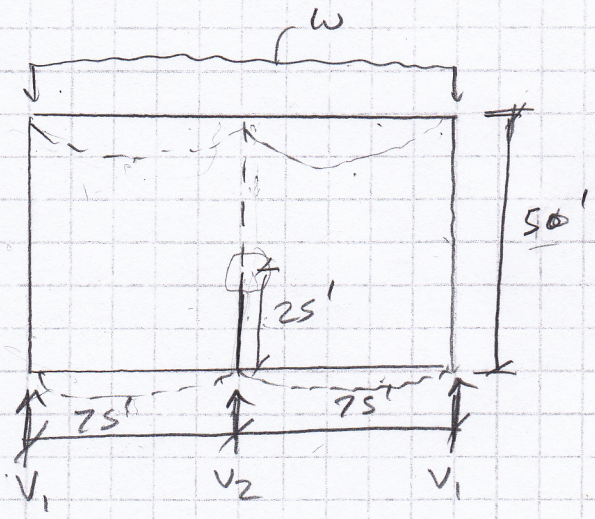
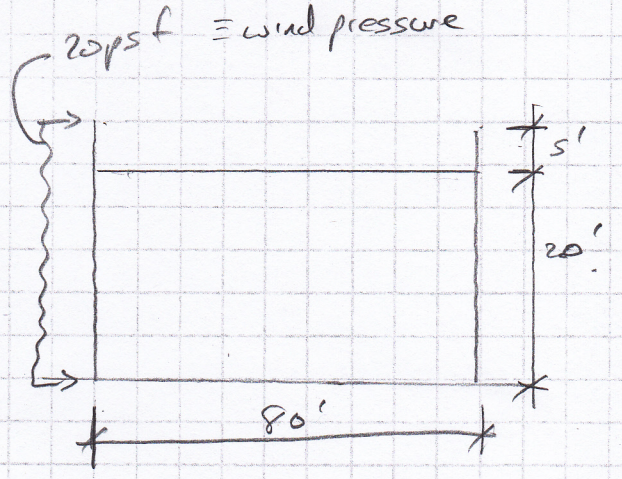
CHECKED BY: _____ DATE: _____

SCALE: _____





Elevation

$w = 20psf \times (5' + 20'/2) = 300plf$

$V_2 = 300plf \times 75' = 22.5^{k}$

$v_{w/drag} = \frac{22.5^{k}}{50'} = 450\,plf$

$v_{w/o\ drag} = \frac{22.5^{k}}{25'} = 900plf$

$M = \frac{wl^2}{8} = \frac{450 \times 75^2}{8} = 316.4^{k\text{-}ft}$

$T = C = \frac{M}{d} = \frac{316.4}{50'} = 6.33^{k}$

$P_{axial\ Axel} = 25' \times 450plf = 11.25^{k}$

Δ = Bending + Shear + slip

$= \frac{5wl^2}{384EI} + \frac{PL \cdot \alpha}{4AG} + slip \Rightarrow$ steel Deck see Vulcraft literature

Wood Deck see NDS 2008 Wind & Seismic