

$$d_w := 7 \text{ m}$$

$$z := 7 \text{ m}$$

$$\gamma_{sat} := 19.5 \frac{kN}{m^3}$$

$$\gamma_w := 9.8 \frac{kN}{m^3}$$

$$\sigma := \gamma_w \cdot d_w + \gamma_{sat} \cdot z = 205.1 \frac{kN}{m^2}$$

$$u := (d_w + z) \cdot \gamma_w = 137.2 \frac{kN}{m^2}$$

$$\sigma' := \sigma - u = 67.9 \frac{kN}{m^2}$$

$$\gamma_w := 62.4 \frac{kN}{m^3}$$

$$\gamma_{sat} := 121 \frac{kN}{m^3}$$

$$h := 20 \quad ft$$

$$\sigma_A(H) := (30 - H) \cdot \gamma_{sat}$$

$$u_A := h \cdot \gamma_w$$

$$\sigma'_A(H) := \sigma_A(H) - u_A$$

$$\sigma'_A = 0$$

$$H := 19.7 \quad ft$$