Chlorine Contact Tank Dimensions

5'-0" Wide x 7'-0" Long x 5'-0" Deep

Tank to be installed w/pump elevation = 459.25
Finessed Grade = 489.00

Assumptions:
1. ground water elevation = 10" below finished grade
2. Chlorine Contact tank to be buried to subgrade = 484.75

Displaced Volume = 5' x 7' x 4.25' = 148.75 c.f.

Body Force: \( \frac{W}{A} = \frac{62.4 \text{pcf} \times 148.75 \text{c.f.}}{9,282.165} \) = 0.09282.165

Vol Concrete = 2.75 ft x 6" x 5' x 5' = 250 ft
2.75 ft x 6" x 6' x 5' = 300 ft
1.75 ft x 6" x 5' x 6' = 150 ft
1.75 ft x 6" x 5' x 6' = 150 ft
3 Baffle wells x 4" x 35" x 4.25" = 14.98 ft

\( \frac{W \text{Concrete}}{A} = \frac{150 \text{lbs} \times 99.8 \text{c.f.}}{14.981.165} \) = 0.9282165

\( \text{(Final)} \ 9,282.165 - 14,981.165 (\text{Final}) = 5799.165 \)

\( \rightarrow \text{No additional balance is required} \)