

# **A Poster-Child for Tank Abuse**

**And the Herculean Effort to save it  
from a Wrecker's Hammer**

# A 2,500,000-gallon GST

- Originally built in **1952**
- No one had been into it but a dive inspector for decades
- Was renovated within a master-plan to do all of the owner's water storage reservoirs
- This critter was in trouble when we entered...

# Roof plates and support members



# Corroded out roof Hatch



**Been a while since it was cleaned!**



# Floor was a leaking disaster



**Tank wouldn't drain properly because  
the valves were shot**



# Columns needed replacement



# Interior ladder needed to be removed



# We put the pencil to this one!

- Rebuild or replace? It was cheaper to rebuild!
- It was quicker to rebuild too
- It was more PC on this site to rebuild and not disturb the immediate community for 18 months of construction
- We rebuilt it in five months and made it a new tank with an eight-year warranty

# We tore the roof off the tank



**We removed the support steel**



**We cut the old ladder out and ground the welds flush**



# We rebuilt the weir-box for the overflow system



**We cut four inches off the top of the shell wall to get to good metal**



**We put a new steel roof and support steel on it**



# We added 2 new roof hatches & OSHA Approved Handrails



**A new OSHA approved exterior access ladder and climbing cage were added**



**A new 36" stainless steel roof vent  
was added**



**After welding was done we blasted and coated the interior**



**A 3.5 mil steel profile was developed on the floor and 24" up the shell wall**



**Some steel patches were applied to seal the floor**



**A synthetic floor was applied to the old to bolster it and keep leaks away**



**100 mils of Polybrid 705 made a new floor – right on top of the old one**



**Bases of new columns were smothered by the floor augmentation system**



# New monolithic polyurethane floor for 1/3 the cost of a new steel floor



**Outside was power-washed, power-tooled, spot primed and over-coated**



**When completed tank qualified under GASB 34 for depreciation as a new tank**



# Summary

- Project was well researched
- Numbers were crunched to make it work
- Quality assurance was conducted daily throughout the renovation
- Top quality equipment, labor and materials were employed
- For much less cost than a new tank - the owner got a new tank and an 8-year warranty