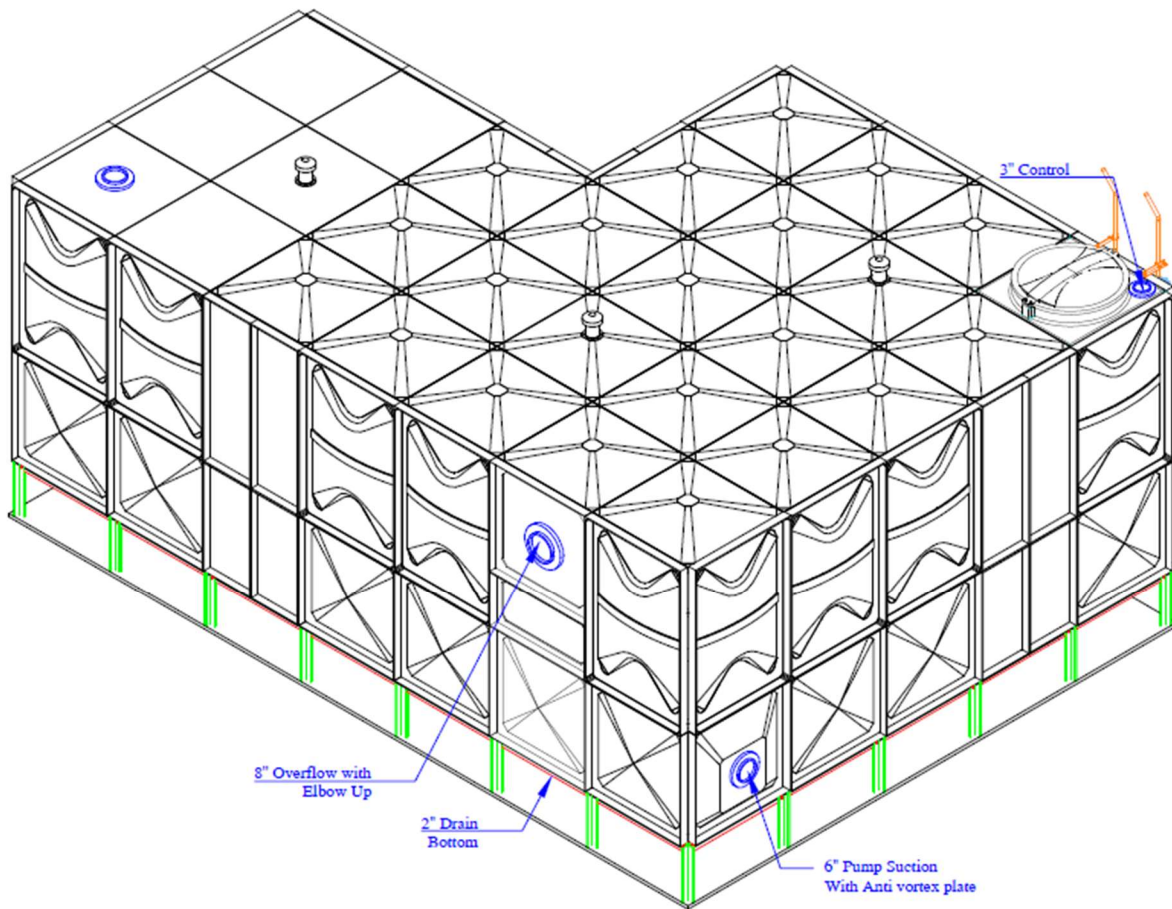


Maximizing Space for Emergency Water Storage at Memorial Hermann Katy with FTC Tanks



Introduction

The **Memorial Hermann Katy** facility, located in Texas, required a solution for emergency water storage that could be integrated into a confined mechanical room at ground level. As a critical healthcare facility, the client needed to optimize every square foot of space to ensure they had sufficient emergency water capacity without sacrificing valuable room for other essential equipment. **FTC Tanks** provided an innovative **L-shaped tank** to meet this challenge, maximizing the available space while providing reliable emergency water storage.

THE CHALLENGE

Memorial Hermann Katy faced several challenges when it came to installing a water storage tank:

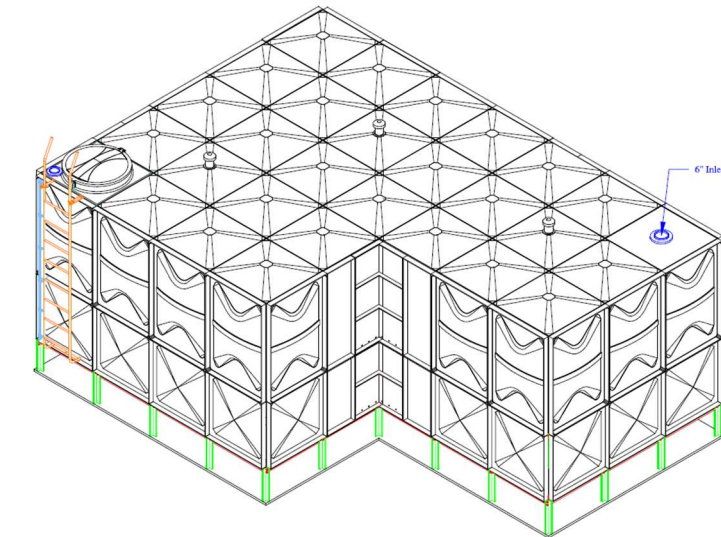
Confined Mechanical Room: The available space in the mechanical room was limited, and every square foot needed to be utilized efficiently.

Maximized Storage Capacity: The client wanted to store as much emergency water as possible in the confined space, requiring a **custom-shaped tank** design that fit the room's layout.

Beam Interference

After Shipment:

After the tank was shipped to the site, a previously unaccounted-for beam crossing the room required immediate adjustments to the tank's design.



Emergency-Only Usage: The water stored in the tank would be reserved for use during emergencies, making it critical for the tank to be reliable and provide easy access to clean water when needed.

THE SOLUTION

FTC Tanks delivered a custom L-shaped, modular tank designed specifically for the mechanical room's layout, maximizing space and meeting the client's emergency water needs:

L-Shaped Design for Space Efficiency:

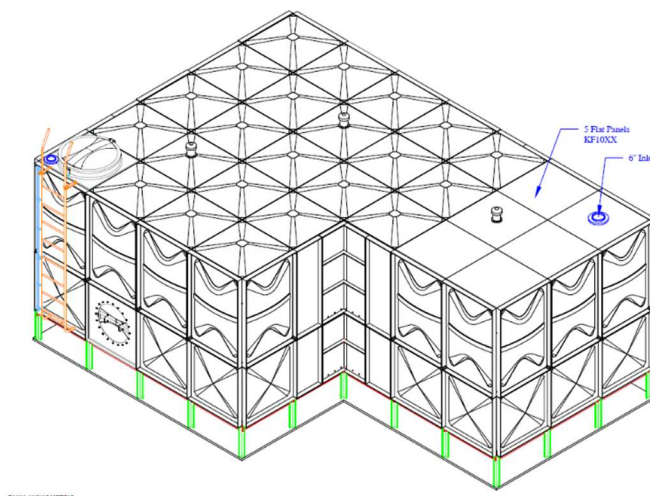
By designing the tank in an L-shape, FTC Tanks was able to maximize the use of the mechanical room, fitting the tank into tight corners and irregular spaces. The tank dimensions are **[(7 x 3) + (4 x 2)] x 2.5 meters or [(22.96 x 9.84) + (13.12 x 6.56)] x 8.2 feet**, allowing it to fit seamlessly into the room and provide ample storage without compromising other essential equipment space.

Modular Panel Construction:

FTC's lightweight, modular fiberglass panels allowed for easy assembly within the confined space of the mechanical room. The modular construction also made it possible to adapt the tank's shape to fit the irregular layout, providing flexibility without compromising storage capacity.

Adjustment for Beam Interference:

After the tank had been shipped to the site, it was discovered that a beam was crossing the mechanical room, creating an obstruction for the convex-shaped roof of the tank. FTC Tanks responded quickly by supplying five new flat roof panels the next day,



allowing the tank to be adjusted on-site and ensuring that the installation was not delayed.

16,000 Gallon Emergency Water Storage Capacity:

The **L-shaped** tank provided **16,000 gallons** of emergency water storage, ensuring that Memorial Hermann Katy would have a reliable source of clean water during national disasters. This capacity meets the hospital's emergency water needs without taking up excessive space.

Full Drainage for Easy Maintenance:

Although the tank is designed for emergency use only, FTC Tanks incorporated a full drainage system that allows for easy cleaning and maintenance, ensuring that the water stored remains clean and ready for use when needed.

Custom Fit for Maximum Usability:

The custom-designed tank fits seamlessly into the mechanical room, utilizing every available inch of space while leaving enough room for other essential machinery and systems.

BROADER APPLICATION

FTC Tanks' modular, **custom-designed solutions** can be applied to a wide range of critical facilities where space constraints and water storage needs are a priority. Hospitals, government buildings, and commercial facilities can benefit from similar emergency water storage systems designed to maximize space and ensure continuous access to clean water during emergencies. Whether it's a confined mechanical room or a rooftop installation, FTC Tanks provides tailored solutions for any space.

RESULTS

FTC Tanks successfully delivered an **L-shaped emergency water storage tank** that fit seamlessly into the mechanical room and provided **16,000 gallons** of clean water storage. The installation allowed the hospital to maximize the use of its

mechanical room space while ensuring that it had a reliable water supply for emergencies. The modular design, custom shape, and large capacity of the tank ensure the hospital remains operational during disasters, safeguarding critical healthcare services.

CONCLUSION

The installation of an **L-shaped, modular tank at Memorial Hermann Katy** demonstrates FTC Tanks' ability to provide custom, space-efficient solutions for emergency water storage. By leveraging our modular panel technology, we were able to fit a reliable, high-capacity tank into a confined mechanical room, ensuring the hospital is prepared for any emergency. FTC Tanks continues to offer versatile, reliable water storage solutions for critical facilities across the country, ensuring access to clean water in times of crisis.