

Water Treatment Reservoir Cover

Location: Angelica, New York

Industry: Water Treatment

Building Series: TITAN®

Building Size: 90' x 230'

Dealer: Cover-All Building Systems of New York



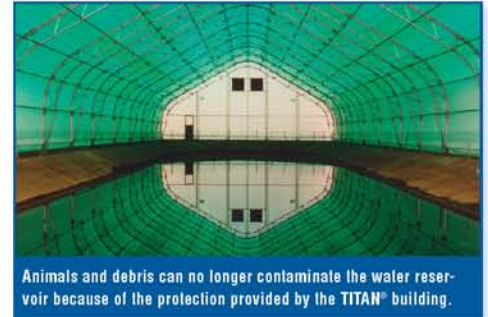
Cover-All Helps Community Keep Drinking Water Safe

When local engineers in Angelica, N.Y. began to search for a cover for an existing water reservoir because current systems were failing, it didn't take them long to discover a Cover-All® TITAN® building was the perfect solution. "The wide clear-span space and how the building is engineered and designed really impressed me. Somebody at Cover-All obviously did their homework," says Phil Davis, construction inspector, Hunt Engineers, Architects and Land Surveyors, P.C. "There is nowhere for snow or rain to collect and leak into the manufactured water supply."

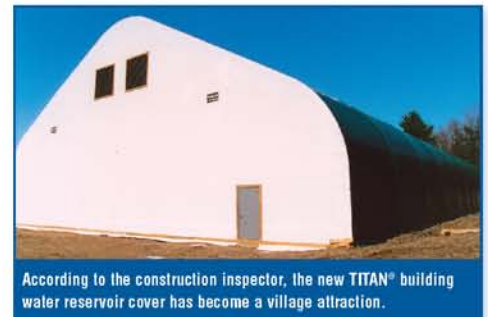
Hunt Engineers, Architects and Land Surveyors, P.C. were commissioned by Angelica to design a \$2.5 million water improvement development, which included covering the existing one million gallon water reservoir. A 90 x 230 foot Cover-All® TITAN® was the logical choice. "Budget and maintenance costs were major considerations in the planning stages," says Davis. "A concrete tank was completely beyond our financial means. This building met the fiscal responsibilities of our tax base and is almost maintenance free."

The water reservoir had been protected by a floating canvas cover that required ongoing maintenance and repair. Because of recent new state department of health regulations and the continual threat of contamination from wildlife and debris, the floating cover was no longer suitable. "We now have a structure that was efficient to install and able to withstand heavy snow loads and winds that are close to hurricane levels," says Davis. Cover-All® TITAN® buildings are rated for wind and snow loads across North America and are available in widths from 30 to 160 feet, to any length.

The local Dealer, Cover-All Building Systems of New York, worked in conjunction with the client to ensure the building suited their needs and Davis agrees. "The new improvements meet the community's expectations and the building has become a landmark for Angelica," says Davis.



Animals and debris can no longer contaminate the water reservoir because of the protection provided by the TITAN® building.



According to the construction inspector, the new TITAN® building water reservoir cover has become a village attraction.



A crane lifted the building's steel trusses over the existing water reservoir onto the foundation.



An 18 inch concrete beam was constructed along the bottom of the TITAN® for added support and ground insulation.

Building Highlights

Foundation

- Building base plates are mounted on three foot round caissons that were driven 10 feet into the ground, as designed by the foundation engineer for this site
- An 18 inch grade beam was added along the bottom of the Cover-All® TITAN® for added support and ground insulation

Installation

- The Cover-All® TITAN® was installed over an existing one million gallon water reservoir
- The building's steel trusses were connected on the ground and lifted with cranes onto the base plates

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Phil Davis, Construction Inspector
Hunt Engineers, Architects and Land Surveyors, P.C.
Angelica, New York