

Bacardi Water Tower **Rosemount, MN**

The City of Rosemount's recent increase in water demand created a need for a number of water system improvements, including a new water storage facility. WSB worked closely with the City during the planning stage of the project to obtain a site and create an overall site layout. WSB assisted with an overall future plan for the site to include a fire station, water treatment plant, well house, and elevated water storage tank.

Following the siting of the tower, different tank options were evaluated. Both composite and fluted column towers were evaluated. The City decided to construct a fluted column to match other existing towers.

During final design, the City's water demands were increasing at a faster rate than what was originally expected. Therefore, it was decided to design and bid both a 1 million gallon and a 1.5 million gallon tank. Once bids were received, the City decided to construct a 1.5 million gallon tank to accommodate the increased water demand.

Also designed for this project were:

- Special electrical systems for cellular communication
- A mezzanine
- An integral valve vault
- Facilities for future maintenance
- A curved stairway to the mezzanine level to conserve space

Special considerations were taken with the new water SCADA system including provisions at three existing water storage tanks for SCADA, temperature sensing, recirculation pumps, security and related alarm points.

Client: City of Rosemount

Total project cost: \$2.3 million

Completion: 2006

