

Reservoirs

Helping Rapidly-Growing Clovis Meet its Water Needs

Like most of California's Central Valley cities, the City of Clovis (population 66,500) extracts its water supply from groundwater aquifers via a series of groundwater wells scattered within its water service area. Clovis' water supply facilities include 32 wells and three storage reservoirs: elevated Reservoir I, with a capacity of 65,000 gallons; elevated Reservoir II, with a capacity of 0.5 million gallons; and ground-level Reservoir III, with a capacity of 2 million gallons.

Carollo provided engineering design and construction services that integrated Reservoir III with the City of Clovis water system. Constructed in 1992, Reservoir III is the largest water storage facility serving Clovis.

Supporting Rapid Growth

In the early 1990s, northern Clovis experienced one of the highest growth rates in California, triggering the need for new water supply and storage facilities. Construction of Reservoir III provided the rapidly-growing northern area with needed storage to meet its increasing water requirements.

Enhanced System Operation

Reservoir III provides storage capacity to meet the water demands during peak hour use, and for fire fighting capabilities. Equally important, Reservoir III provides more stable water pressures in the higher elevations, resulting in enhanced water system operations.



Carollo provided design and construction services for the City of Clovis' largest water storage reservoir.



Aesthetic concerns were key in designing this 2-million-gallon ground-level tank, which is close to mixed-use development.

Design Considerations

During design, Carollo addressed several key factors, including construction schedule, tank cost, tank construction, water quality, and environmental and aesthetics considerations. Since the property is surrounded with commercial, mixed, and some residential land uses, special design considerations addressed the aesthetic concerns posed by the 20-foot-high, 130-foot-diameter circular concrete tank. Effective siting and landscaping techniques contributed to minimizing the visual impact on adjacent land uses.

Highlights

- ▼ 2-million-gallon conventionally-reinforced concrete reservoir.
- ▼ Provides more stable water pressures and enhanced water system operations.
- ▼ Located adjacent to commercial, mixed, and residential development.
- ▼ Effective siting, architectural, and landscaping techniques mitigate community impacts.

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