

### **1.5-million Gallon Underground Concrete Water Tank**

North Table Mountain Water & Sanitation District recently constructed a 1.5 million gallon reservoir located in the Open Space Park on the northwestern side of the mesa known as North Table Mountain. The Open Space Division of Jefferson County was very concerned with the visual and natural resource impacts to the park. The mesa is a very valued and cherished landmark in the Golden area. The District worked closely with Jefferson County Open Space in locating the tank to minimize visual and natural resource impacts to the park. This placed a greater emphasis on planning and construction of the reservoir and related facilities to return the park to its original natural setting. To keep ratepayer costs low and improve communications, the District chose to self-perform all of the engineering. Teamwork was instrumental in the successful completion of the project.

The District self-performed all of the civil engineering for the project, thereby saving approximately \$100,000 overall in project costs. The District's goal was to ensure a cost-effective low-maintenance storage tank in order to keep water rates low and affordable for its customers.

**Achievement:** Because of the local sentiment for the treasured mesa the District felt an obligation to restore the site to its prior state. Several renderings and conceptual drawings were developed to show grading alternatives in order to mitigate the visual and natural resource impacts of the project. Cut, fill and export of the excavation materials was also an important consideration. A total of 23,000 yards were excavated and 15,000 yards were exported to the District's water treatment plant site for future use. By the end of the project, through cooperation between the District, Open Space and the general contractor, the site was blended seamlessly back into the natural beauty of the mesa.

The District set precedence in the water storage project. Self-performing the engineering not only saved money for the rate-payers but led to improved communications with Open Space, the general contractor and community residents.

Cooperation and teamwork were instrumental in the successful completion of the project. Working closely with Open Space staff throughout the project was a central element in guaranteeing the project's success. In addition, a difficult site with harsh winter conditions constrained the general contractor's progress. Through cooperation, the project was completed on time and within budget with minimal disturbances outside the project boundaries.

For more information, go to [www.ntmwater.org/COMMUNITY%20AFFAIRS.htm](http://www.ntmwater.org/COMMUNITY%20AFFAIRS.htm) or contact the North Table Mountain Water And Sanitation District main office at 14806 W. 52nd Ave. Golden, CO 80403, Phone: (303)279-2854 Fax: (303) 279-2865.

