

# Denver Botanic Gardens

Denver, CO

## Project Purpose

The Denver Botanic Gardens' 34-year-old irrigation system needed renovating to minimize water use and cost, while maximizing current and future flexibility. The project would serve as a water conservation example to the community.



## Unusual Challenges

Denver Botanic Gardens is a community landmark and one of Denver's most visible water users. Antiquated irrigation equipment and daytime watering practices were affecting visitor experiences while consuming valuable resources.

## Role of Irrigation Consultant

- Develop irrigation system master plan, including material selection.
- Replace asbestos-cement mainline with HDPE pipe to minimize site damage.
- Develop specialized valve manifolds to enhance system performance.
- Design dual-use system throughout for future recycled water use.
- Integrate weather station to provide ET data and serve as educational tool.

## Special Factors

- Decoder-style centralized control system automated all zones.
- Specialized manifold developed offsite lowered installation costs.
- New system mainline installed with other utilities minimized site disruption.
- Separate mainline selectively installed to reduce potable water use.

