



Merrick & Company designed major water transmission lines for the Arapahoe County Water and Wastewater Authority. The transmission lines include a 24-inch diameter treated-water transmission line, a 16-inch diameter effluent transmission line, and a 12-inch diameter irrigation transmission line. These lines are located within the Arapahoe County Water and Wastewater Authority system. Merrick provided full services including surveying, preliminary engineering, final design, CAD drawings, specifications, cost estimates and construction inspection services.

Elements of the project included the following:

**Water transmission line**

- Bronco Parkway to Chambers Road
- 2205 lf of 24-inch diameter Ductile Iron Pipe (DIP) waterline
- 2 Connections to existing lines
- 5 Butterfly valves
- Crosses, plugs & tees

**Effluent transmission line**

- Bronco Parkway to Chambers Road
- 2150 lf of 16-inch diameter DIP effluent line
- 2 Connections to existing lines
- 3 Butterfly valves
- 2 Blow-off assemblies
- Crosses, plugs

**Irrigation transmission line**

- Bronco Parkway
- 326 lf of 12-inch diameter PVC pipe irrigation transmission line
- 271 lf of 6-inch diameter PVC pipe irrigation transmission line
- Air release valves
- 4 Blow off valves
- 6 inch meter
- Gate valves
- Backflow-prevention assemblies