



Consultants, LLC

Greater Cincinnati Water Works Madison Road 48 - Inch

Project Highlights

- RA Consultants provided GCWW with a 48-inch transmission main alignment to replace an older 36-inch main.
- RA ensured continued reliable water services by considering the needs of the client and the project area's surrounding communities.

Services Provided

- Collaboration
- Schematic drawings
- Project Management Skills
- Data analysis
- Engineering Design

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When Greater Cincinnati Water Works wanted to install a dual-service and a primary transmission main in their Eastern Hills pressure gradient along a major arterial roadway, they chose RA Consultants to perform an alignment study and engineering design. The challenge of constructing a 48-inch transmission main through well-established urban business district with limited utility corridors available made the route selection critical for success. Adding to the complexity of the project was a combined sewer and connecting laterals that could drive the water main to a depth of 20 feet.

To offset the high cost of constructing the 48-inch main to this extreme depth, RA devised a plan that called for a parallel sewer for 1,500 feet of the project length that allowed for the water main to be installed at a standard 6 feet of cover, **saving over \$200,000 in project costs.**

RA was also faced with coordinating this project with a street rehabilitation project that had funding deadlines necessitating a shortened design phase period. The project design was completed on schedule to meet the street contract bid deadline and was set up so as to phase the water main work in a manner that allowed the street work to commence under favorable construction conditions.

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