# Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

## R.M. Clayton WRC Plant Expansion - Phase 3

Atlanta, GA



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction Corporation drilled and blasted 1000' of rock, and partially weathered rock, in order to install a 12' diameter wastewater pipeline for the City of Atlanta. In order to complete this project in the most expedient manner, a "no blasting" clause in the contract was waived. With the utilization of blasting, we successfully mined through ground conditions that included coming within 8' of a dozen dated, large diameter pipelineswhich included a 72" pipeline that had previously ruptured. Chemical grout stabilization was utilized in the construction of the shotcrete shaft, as well as the shotcrete tunnel. Despite all of the challenges presented by this unique project, settlements were kept at less than .5", and the job was completed on schedule.





### PROJECT INFORMATION - 348

**OWNER:**
City of Atlanta
Atlanta Department of Watershed Management
George Barnes, Project Manager
404.330.6788

**ENGINEER:**
Jordan, Jones, and Goulding, Inc.
Refik Elibay
770.455.8555

**CONTRACTOR:**
Western Summit / Pizzagalli Joint Venture

**COMPLETION DATE:**
8/31/2000

**GEOLOGY:**
Rock, Partially Weathered Rock, Mixed Face

**EXCAVATION METHOD:**
SEM, Drill and Blast

**MINING DIMENSIONS:**
1000' x 16 ' x 16 ' Horseshoe
Shotcrete

**FINAL LINING:**
12ft Ø Cast-in-Place Finish Pipeline

**FOR MORE INFORMATION:**
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Refer to Project 348