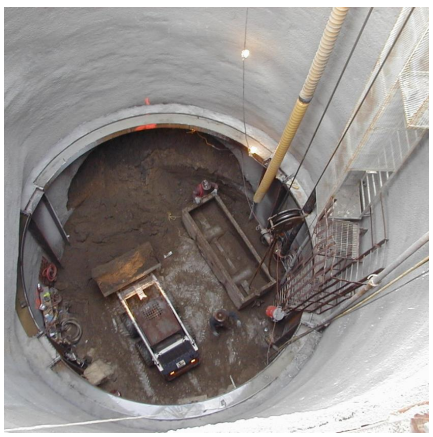
Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Orme Street Combined Trunk Relief Sewer - Phase 3
Atlanta, GA

PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction Corporation built the first ever NATM tunnel that utilized compressed air in North America. The project involved the connection of two existing 7' diameter combined sewers to a new 12' diameter relief sewer. Connections were made at seven locations, along a 2,300' alignment in downtown Atlanta. The alignment was enveloped by adjacent structures and utilities. The project was constructed below the groundwater tablethrough compressible residual soil, rock, and mixed face conditions. Our team employed a myriad of construction techniques, including compressed air, ground water recharge, and jet grouting. Several design and alignment changes and accommodations for existing utilities were made during construction.



PROJECT INFORMATION - 361

OWNER:
City of Atlanta
Ade Abon
404-895-8272
adefuyia@yahoo.com

ENGINEER:
WL Jorden
Ken Denton
678-247-4144
ken.denton@mwhglobal.com

CONTRACTOR:
Bradshaw Construction Company

CONTRACT VALUE:
$22,950,000

COMPLETION DATE:
2/28/2002

GEOLOGY:
Rock, Residual Soils, Partially Weathered Rock

EXCAVATION METHOD:
SEM

MINING DIMENSIONS:
2,300' x 14' x 16'

FINAL LINING:
11' x 12' Cast-in-Place Horseshoe Shaped Pipeline

FOR MORE INFORMATION:
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Refer to Project 361