Project Profile: TBM TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Irwin Creek Relief Sewers Phase 2
Charlotte, NC



PROJECT OVERVIEW AND CHALLENGES

Bradshaw constructed 24 shafts that were 20 to 50 feet in depth of soldier pile and wood lagging. Rib and board was used above the water table and liner plate for below. 4700 linear feet of 60-102 inch tunnels for 36 inch and 54 inch ductile iron pipe. 900-1300 linear feet included curves by tunnel boring machine with liner plate under NSR Railroad. Drill & Blast.





PROJECT INFORMATION - 432

OWNER:
Charlotte-Mecklenburg
Utility Department
Julie McLelland
(704) 391-5126

ENGINEER:
CDM
Leslie Samal
(704) 342-4546

CONTRACTOR:
Rockdale Pipeline, Inc.

COMPLETION DATE:
5/31/2007

GEOLOGY:
Clay, Sand, Silt, Rock

EXCAVATION METHOD:
Lovat M99RL-1170 TBM
Akkerman WM-540 & WM720 TBM

MINING DIMENSIONS:
4,700' x 60"-102" Ø

FINAL LINING:
36" & 54" Ductile Iron Pipe
60" Reinforced Concrete Pipe

FOR MORE INFORMATION:
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Refer to Project 432