

## 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:**

Eric Eisold, Vice President  
(410) 970-8300  
eeisold@bradshawcc.com  
Refer to Project 432