Project Profile: MICROTUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Dulles Dedicated Fire System
Dulles Airport, VA



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 2,100' of 43" Permalok steel casing for the 18" dedicated fire system. The tunnels were installed by microtunneling through shale beneath active runways, taxiways, and taxi lanes. The microtunneling was completed in four segments, the longest being 585' long under Runway 19L-01R. Bradshaw also installed the 18" DIP in the tunnels once mining was completed. Crews were trained according to Dulles International Airport's safety protocols and vehicle procedures, and passed security screening to access the secure site.





PROJECT INFORMATION - 452

OWNER:
Metropolitan Washington Airports
Airport Authority, Washington, DC
Tom Patti
703.417.8672

ENGINEER:
Burns and McDonnell
8605 Westwood Center Drive #509
Vienna, VA 22182
703.942.5715

CONTRACTOR:
Corinthian Contractors, Inc.

COMPLETION DATE:
5/31/2007

GEOLOGY:
Siltstone, Shale

EXCAVATION METHOD:
Herrenknecht MTBM 43" Ø

MINING DIMENSIONS:
2,100' x 43" Ø

FINAL LINING:
Two Pass Pipe Jacked
Steel Casing 41" Ø DIP 18" Ø

FOR MORE INFORMATION:
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Refer to Project 452