Project Profile: HAND TUNNELING

BRADSHAW CONSTRUCTION CORPORATION
TUNNELING SPECIALISTS

Route 262 CSX Crossing
Staunton, VA



PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed a 10'Ø Hand Mined Liner Plate tunnel under CSX Railroad in Staunton, Virginia. The tunnel was excavated from a portal through Boulder Fill in the embankment of the railroad. Due to the voids in the fill, a cementitious grout curtain was pumped over the tunnel alignment before mining. In order to mitigate the risks settlement and the danger of mining through boulders, the tunnel heading was bulk-headed, and more grout was pumped ahead of mining upon completion of each mining shift. 84" RCP was installed in the tunnel for storm drainage.





PROJECT INFORMATION - 443

OWNER:
Virginia Department of Transportation
Alan Tucker
(800) 586-8905

ENGINEER:
Virginia Department of Transportation
Alan Tucker
(800) 586-8905

CONTRACTOR:
Fairfield Skanska

COMPLETION DATE:
6/3/2006

GEOLOGY:
Boulder Fill

EXCAVATION METHOD:
Hand Mined Liner Plate

MINING DIMENSIONS:
75' x 120" Ø

FINAL LINING:
84" Reinforced Concrete Pipe

FOR MORE INFORMATION:
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Refer to Project 443