**PROJECT DESCRIPTION:**

Roof replacement and linear notch expansion of 27 railroad tunnels along Norfolk Southern’s Heartland Corridor. The $150 million project utilizes QUIKRETE® Shotcrete MS - Fiber Reinforced for structural tunnel repair and roof expansion, QUIKRETE® Core Fill Grout for void filling and QUIKRETE® Precision Non-Shrink Grout to set 18 foot long roof anchors. QUIKRETE® Shotcrete MS - Fiber Reinforced exceeds 9000 PSI (62 MPa) compressive strength in 28 days with virtually no rebound.

**OWNER:** Norfolk Southern Railroad

**CONTRACTOR:** Johnson Western Gunite  
LRL Construction Co.  
RJ Corman Railroad Co.

**QUIKRETE® PRODUCTS USED:**
- 3000 lbs Shotcrete MS - Fiber Reinforced
- 3000 lbs Non Shrink Precision Grout
- 3000 lbs Core Fill Grout
**TOTAL:** 16,950 BULK BAGS