



## Cottageville T-Beam Bridge Design Build

### Jackson County, West Virginia

Client: Triton Construction Inc.

Contact: John Farly, PE, (304) 272-5791

#### Key Personnel:

Faheem Ahmad, PE (PM)  
 Cecil Strickland  
 James Gwinn  
 Nasser Al-Zoubi  
 Randall Lackey  
 Fred Blackwell

#### E.L. Robinson's Role:

*Prime Consultant*  
 Roadway Design  
 Bridge Design  
 Hydraulic Design

E.L. Robinson Engineering (ELR) teamed with Triton Construction on this 203-foot three (3) span four (4) prestressed concrete beam bridge set on piling and poured foundations over Little Mill Creek in Jackson, West Virginia. This project consisted of installation and maintenance of temporary traffic control features to maintain safe traffic flow around the closed work area, installation of sediment control features and the maintenance of all existing storm water drainage systems. Demolition included demolition of the original structure, off-site removal of the material as well as removal of all the temporary signage. Key points during excavation and construction:

1. Rock and structure excavation work was done to allow the drilling and driving of H piling for pier and abutment foundations.
2. Over 104 thousand pounds of coated and non-coated reinforcing steel bars were installed throughout the bridge's entirety.
3. Over 450 cubic yards of concrete was poured between abutments, piers, deck, and parapet walls.
4. Any required compaction testing was handled by the proof roll method and nuclear density testing, all concrete was sampled and tested as per the WVDOH specifications.
5. Installation of a concrete sill wall as well as placement of the crushed rock slope protection.