

# Rafferty Road Culvert Replacement

Bridgewater Township

Susquehanna County

**Bassett Engineering, Inc.**

Replaced an existing culvert with a new 45' long x 14' wide x 9' high aluminum pipe arch culvert. The road was raised above the FEMA 100-Year Flood Plain. The design storm flow is 760 cubic feet/second.

**CONSTRUCTION  
COST:  
\$71,500**

**COMPLETION:  
September 2011**

Project Team:  
Project Manager  
Bill Scott, PE, CME

#### Construction:

- minor stream channel improvements
- gravel roadway
- bedding
- backfill
- gabion wingwalls
- rip-rap bank stabilization

**Downstream Elevation**



**Near Approach**



#### Engineering services included:

- calculations
  - stream hydrology
  - culvert hydraulic capacity
- DEP General Permit GP-11
- Prepare Contract Drawings and Specifications
- assist with bidding
- construction phase engineering

#### **Bassett Engineering Inc.**

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