

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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