

Keiper Road Restoration

Design Features: Raising the road profile, installation of underdrains and crosspipes.

Date of Installation: Two separate phases in 2013- 2014.

Location: Keiper Road Bolivar, PA 15923

Client: Fairfield Township

Cost: \$14,250.40

Project Contact:
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Keiper Road before



Keiper Road during construction

Project Specifications

In 2013, a 500-foot-long section of Keiper Road near Bolivar in Fairfield Township was improved under the Dirt, Gravel, and Low Volume Roads Maintenance Program.

The road surface was raised as much as three feet in an effort to improve natural drainage and to eliminate the flowing water that hindered travel on this unpaved road and washed sediment into nearby Tubmill Creek.

Some 840 tons of shale were added to the road

surface, raising it between two and three feet so that it now is level with the surrounding terrain and no longer the low point where water can collect. In 2014, cross pipes and underdrains were added to also help manage the flow of water.

Benefits/Performance Measures

By raising the road profile, installing crosspipes, and underdrains the roads ditches and base can

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dry out and become more stable. The installation of underdrains separated subsurface water from road runoff and saves money by reducing maintenance time and costs associated with perennially wet roadsides. The installation of this project has decreased the amount of sediment and road surface material from entering Tubmill Creek and has assisted Fairfield Township with the long term maintenance cost associated with this road.