

### Mansville Road Restoration

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

**Date of Installation:** Two separate phases in 2010 and 2011.

**Location:** Mansville Road, Ligonier, PA 15658

**Client:** Cook Township

**Cost:** \$37,879.20

**Project Contact:** Rob Cronauer,  
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*During construction: Raising the road profile and installation of underdrain on right and left side of road.*

### Project Specifications

In 2010, Mansville Road in Cook Township was the first ever project to receive the full allotment of Westmoreland County's Dirt and Gravel Road allocation for a single year. The project was funded in this manner because the Quality Assurance Board realized the road was severely degraded, and a top priority for the program. Cook Township received \$23,762 to complete the first phase of work on Mansville Road.

Prior to construction, Mansville Road was severely entrenched and when it would rain the surrounding drainage area became trapped in the road corridor (the road is lower than the surrounding topography and concentrates runoff), which was directed towards an un-named tributary to Keefer Run. Since the Dirt and Gravel Road Program is based on improving water quality, Cook Township installed the following environmentally sensitive practice to address this problem: the road profile was raised 3 feet to more

closely resemble the natural topography, more than 1000' of underdrain was installed to collect and transport subsurface water, and cross-pipe(s) were also installed to direct the water off of the road surface.

In 2011, \$14,117.20 was awarded to Cook Township to complete an additional 1500 foot section of Mansville Road. The second phase of this project included raising the road profile, installing underdrains, and a broad based dip to brake-up the flow of water and divert it off of the road surface before it could reach an installed catch basin.



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