

## Clover Township – Shields Road

This was a Low Volume Road (LVR) Project.



**Problem:** Several roadside springs were depositing water into the ditch causing it to become saturated. The existing crosspipe did not have a headwall or endwall. The banks surrounding the existing crosspipe were eroding. The road base was weakening from the water.

**Solution:** An underdrain was installed. The inlet of the existing crosspipe was stabilized with stone. A headwall and endwall were installed. The banks were stabilized with rip rap.



**Problem:** The ditch along the turn was saturated with water. The road base was wet and was sinking. The tar and chip was breaking up because of the soft road base.

**Solution:** An underdrain was installed to catch the water before going into the road base. The road base was stabilized and built up with fill.