



**District 5 Road Bridge**  
 October 31<sup>st</sup>, 2000 - December 31<sup>st</sup>, 2004

The Pine Creek Watershed is approximately 47,350 acres. It is located in south central Dickinson County and is a sub-watershed of the Menominee River. The watershed consists of 73% forested areas, 18% urban areas, non forested lands, water, wetlands, and barrens, and 9% agricultural lands. The Pine Creek Watershed Management Plan identifies sediment as the primary pollutant for the watershed. District 5 Road is identified in the plan as a direct source of sediment and as an indirect source due to load limits, requiring trucks to use an alternate crossing which also contributes sediment into the creek. This project resulted in the repair of one road stream crossing at District 5 Road Bridge. Bank stabilization and culvert replacement resulted in the reduction of sediment inputs to the Pine Creek

 **Grant Amount: \$ 10,500**  
**Match Funds: \$ 4,350**

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**Total Amount: \$ 14,850**



**Best Management Practices:**

- 1 road stream crossing
- 316.5 sq. yards of rock riprap
- 1 culvert installation with related stabilization



**Annual Load Reductions:**

- 10 tons of sediment reduced annually
- 9 lbs. of phosphorus reduced annually
- 17 lbs. of nitrogen reduced annually

**Partners involved:**

- Dickinson Conservation District
- Pine Creek Steering Committee
- Dickinson County Road Commission
- Michigan Department of Natural Resources





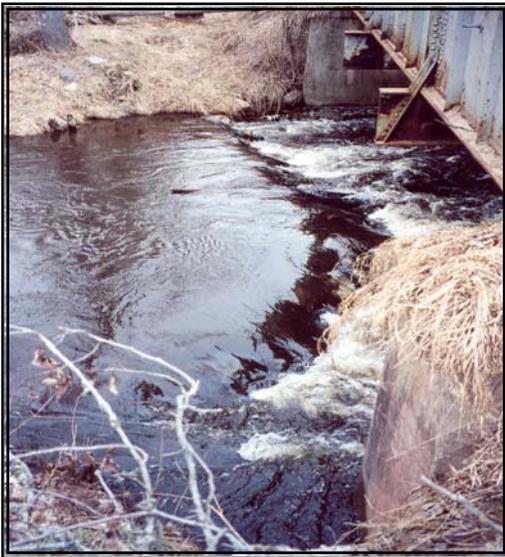
**Streambank along bridge before:**

This area is home to a rope swing, which local residents use to access the river. Excessive foot traffic had caused a large amount of erosion and sedimentation.



**Streambank along bridge after:**

The permanent bridge has been replaced and now includes rock stabilization up-stream and down-stream.



**Abutments before:**

Soil erosion at the Southwest corner of the bridge prior to bank stabilization.



**Abutments after:**

The stabilized road drainage reduced the flow of runoff and prevents bank erosion.