



Conservation Resource Alliance

Telephone: 231-946-6817

www.rivercare.org

Email: info@rivercare.org



Project Cost:

\$55,856 incl. match

Contributors:

- Environmental Protection Agency – Great Lakes Restoration Initiative
- Benzie County Road Commission
- CRA River Care

Partners involved:

Conservation Resource Alliance, Benzie County Road Commission, Michigan Department of Environmental Quality, Michigan Department of Natural Resources Fisheries Division, Grand Traverse Band of Ottawa & Chippewa Indians, KPM Engineering, Benzie Conservation District, and Team Elmers

Kinney Creek & Stanley Road Crossing Replacement Platte River Watershed 2012

The Platte River is a State designated Blue Ribbon Trout Stream and flows into Lake Michigan in the Sleeping Bear National Lakeshore. Kinney Creek is a tributary that flows mostly through forested State lands, and has pockets of gravel beds making the stream a haven for trout escape cover and spawning habitat. The Platte River Watershed has 98 road/stream crossings and site #I-17 is where Stanley Road crosses Kinney Creek. With the replacement of the aging, undersized 2' diameter concrete and 1.5' diameter corrugated culverts, a bottomless arch now spans Kinney Creek providing full passage of aquatic life and a natural stream bottom under the road.

Location

Section 18 Inland Twp.
Benzie County, MI
N44.65205 degrees
W85.92111 degrees



Best Management Practices:

- Replaced 1.5' & 2' diameter culverts with a bottomless aluminum arch 10' 11" span x 4' 3" rise, 27' long
- Road grading & 2 spillways
- Fieldstone placement
- Grading embankments & revegetation

Project Benefits:

- Improved fish passage to 4 miles of Kinney Creek & tributaries upstream
- Natural movement of woody debris, substrate, aquatic insects
- Reduce scouring of streambed
- Provide natural stream bottom under road
- Halt annual input of approximately 64.7 tons of sediment from road runoff from entering Kinney Creek

#I-17 Kinney Creek and Stanley Road – August/September 2012 Construction

“Before” - concrete 2' diameter & corrugated 1.5" diameter culverts

Inlet

Outlet



“After” – bottomless arch 10” 11” span, 27’ long, 4’ 3” rise installed



“Before” - evidence of pooling & draining into stream.

“After” - 2 spillways & grading work of road

