



# CASE STUDY



## PILE DRIVER, EXCAVATOR AND ROTARY DUMP STABILIZE BANK AT BRIDGE HEADWALL

### Scope

A significant erosion issue was causing the railroad to lose track profile adjacent to the headwall at one corner of a bridge. They needed an experienced railroad contractor to build up and stabilize the bank around the headwall.

### Solution

Hulcher deployed an excavator and vibratory hammer for the first phase of the project, to drive sheet pile around the headwall. The railroad chose to use Hulcher's hi-rail grapple truck to assist the pile driver, which expedited this process by maintaining a ready supply of sheet pile at the jobsite.

Hulcher then brought in an excavator, a wheel loader and a rotary dump truck for the second phase. The rotary dump truck's hi-rail gear allowed it to deliver fill dirt and rip rap from across the bridge and swivel its bed to drop the materials precisely and quickly, without having to leave the track. Once the materials were dumped, the excavator worked them into place to backfill the ground around the headwall behind the sheet pile. The rotary dump truck crossed back over the bridge to be reloaded with more material by the wheel loader.

### Outcome

The bridge's erosion issue has been solved. The rip rap will improve water run-off and the sheet pile has stabilized the ground around the headwall.

During this project the railroad asked Hulcher to provide the same service for two more corners of the bridge, gaining additional value for their fixed project costs and improving the stability of the entire bridge. Hulcher's experienced operators and hi-rail equipment completed the project successfully and in the allotted timeframe, even with the expanded scope.



## KEY FACTS

**PROJECT SUMMARY:** Hulcher stabilizes the bank around a bridge's headwall.

**HI-RAIL HELPS:** Hi-rail gear allows equipment to deliver materials quickly to jobsite with no off-track access.

**ROTARY MEANS SPEED:** Rotary dump truck's swiveling bed dumps materials quickly and precisely without leaving the track.

**RESULTS:** Bank stabilized with erosion control.

