



# Project: Sterling Road Bridge

Project Completed: 2004

Overview: Complete restoration of the truss parts for this bridge which was relocated to Morenci, Michigan for pedestrian use. The extensive deterioration on the bridge required hot metal riveting, and replication of deteriorated sections of truss members, and welding plate to address areas of section loss. Eyebars with section loss were pad welded to repair them. Bach also did selected repairs to the existing floor beams and installed new rivets where needed.



The restored bridge in Morenci, Michigan.



The restored bridge in Morenci, Michigan.



The restored bridge in Morenci, Michigan.

# Severely Deteriorated End Post



**Before Restoration**



**After Restoration**

These photos show the horrible condition of the end posts before restoration, and after we replicated the deteriorated portion. Hot metal riveting was used to assemble the replicated parts.

# Section Loss Inside Built-up Beam At A Corner Repaired By Pad Welding



**Before Repair**

**After Repair**

Section loss hidden on the inside of a built-up beam was repaired with pad welding.



Newly riveted lateral bracing attachment on top chord.



Restored vertical member. The left half is replicated, while the right half is original material.





Restored end post showing newly driven rivets by Bach Steel.



Condition of end post before restoration showing severe deterioration.



Pad welding repair in progress for deteriorated eyebar.



Repair in progress of a vertical member. Work included replication (including rivets) of a section of deteriorated vertical member which was welded on to the remaining original portion.



Pad welding repair in progress for section loss hidden inside a built-up beam at a corner.



Section loss on floor beam, cleaned and ready for pad weld repair.



Using a locator punch to mark holes for drilling.



Repair of floor beam. The shiny rivets in the middle and on the lower portion of the photo are new rivets driven by Bach Steel.





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