

# bridge rehabilitation over big fishing creek

<b>Location:</b>	Logan Township, Clinton County, District 2-0
<b>Completion Date:</b>	11.26.2003
<b>Construction Cost:</b>	\$971,789
<b>MPMS #:</b>	3741
<b>Contact Information:</b>	Mark Kucherer, PE 814.765.0440   mkucherer@state.pa.us
<b>Themes:</b>	Leverage and preserve existing investments; Understand the context; plan and design within the context
<b>Project Overview:</b>	<p>The project is to rehabilitate an existing covered bridge originally constructed in 1874. The bridge and its surrounding area were designated part of a Rural Historic District. A modern structure and realignments were initially considered but not included in the final alternatives as this would not be consistent with the bridge's context.</p> <p>The project had to use modern materials and methods with non-conventional (traditional) skills to replace this bridge and maintain its character. Materials included mortise and tenon construction techniques, special details for connecting the floor to the superstructure beams, special details for the connection of the truss (which needed to act independently of the beams), using cedar shakes for siding which were slightly lengthened to shield the appearance of the structural beams, and the use of appropriate paint to match the existing bridge colors. Various existing materials were also re-used including stone, beams and placards.</p> <p>The bridge spans Big Fishing Creek, a highly regarded trout stream. Special abutment foundation details were developed that would prevent impacts to the stream or to the natural underlying karsts aquifers that supply water for the adjacent homes. Materials harmful to the environment (such as creosote-treated timber) were banned from use.</p> <p>The project included input from the PHMC, Sugar Valley Historical Society and the property owner of the adjacent historical buildings.</p>
<b>Lessons Learned:</b>	Early and persistent coordination is a must for construction details and handling of special materials.

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