



Project: Charlotte Highway Bridge

Overview: This project involved the non-destructive removal from abutments and disassembly of a 177 foot long (173 foot span) pin-connected Whipple through truss bridge with 14.4 foot roadway, built in 1886. Photos Courtesy Vern Mesler.



Bridge during deck removal.



Using two cranes to lift the bridge from its abutments.



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Placing one end of the bridge on a dolly which will roll the bridge back.



For this particular bridge, a barge was used on the other end for a portion of the removal process.



Detail showing the dolly system used to roll the bridge away from the abutments.



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Dismantling the bridge. Note the temporary beams under the top chord and beside the truss added for stability.



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Dismantling the bridge. Detail showing a pin nut removed, as well as the associated eye bars.



Dismantling the bridge. Bridge completely on the ground, with temporary beams ready to be removed. Photo Courtesy Vern Mesler



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