

HISTORIC AMERICAN ENGINEERING RECORD

ACHMUN CREEK BRIDGE

HAER NO. AR-37

**LOCATION:** Spanning Achmun Creek on Yell County Road #222 approximately 0.5 miles east of State Highway 10, near the town of Ola, Yell County, Arkansas.

UTM: 15/3879995/475380

Quad: Danville Mountain

**DATE OF CONSTRUCTION:** ca. 1920

**MAJOR ALTERATIONS AND ADDITIONS:** In the recent past, the center floor beam has been shored-up on both ends with vertical steel beams.

**PRESENT CONDITION AND USE:** This bridge is in very poor condition. Excessive loads have warped and damaged the trusses.

**STYLE:** Single span, pony double intersection Warren steel bridge.

**BUILDER:** Unknown. It is assumed that Yell County officials contracted with an unidentified bridge company for the construction of this bridge.

**ADDITIONAL INFORMATION:** AHTD Bridge No. 17743, AHPP Resource No. YE0040.

**SIGNIFICANCE:** According to the Arkansas Historic Bridge Inventory, the Achmun Creek Bridge is the only surviving example of a Double Intersection Warren steel truss bridge in Arkansas.

**HISTORIAN:** Michael Swanda  
Survey Coordinator  
Arkansas Historic Preservation Program

**DATE:** August 26, 1988.

## STRUCTURAL SYSTEMS

The Achmun Creek Bridge uses Double Intersection Warren steel trusses. Each truss contains two panels. A single panel contains four sets of diagonals. The top chord is built from two angles, flanges turned outward. In between these two angles are riveted plates used to attach the diagonals and center vertical to the top chord. Diagonals and the center vertical are angles. The end posts and bottom chord are channels. A web member used as a strut runs horizontally at the mid-panel and is made from rectangular bar. The floor girder and stringers are I-beams and support a timber planked road deck. An outrigger supports the truss at the panel point. Square bar laterals cross diagonally between panel points. All connections are made with rivets.

## DIMENSIONS

The Achmun Creek Bridge is 35 feet long.

## SOURCES OF INFORMATION

Bridge Division Files, Arkansas Highway and Transportation Department, Little Rock.

Historic Bridge File, Arkansas Historic Preservation Program, Little Rock.

McClurkan, Burney B. Arkansas' Historic Bridge Inventory, Evaluation Procedures 1987 and Preservation Plan. Manuscript of file, Environmental Division, Arkansas Highway and Transportation Department, Little Rock.