

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

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NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY -- NOMINATION FORM

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

1 NAME

HISTORIC

9. Staats Mill Covered Bridge

AND/OR COMMON

Tug Fork Covered Bridge

2 LOCATION

STREET & NUMBER

Route 40 Relocated at Cedar Lakes FFA FHA CAMP NOT FOR PUBLICATION

CITY, TOWN

Staats Mill

VICINITY OF

CONGRESSIONAL DISTRICT

Third

STATE

West Virginia

CODE

54

COUNTY

Jackson

CODE

035

3 CLASSIFICATION

CATEGORY	OWNERSHIP	STATUS	PRESENT USE
<input type="checkbox"/> DISTRICT	<input checked="" type="checkbox"/> PUBLIC	<input type="checkbox"/> OCCUPIED	<input type="checkbox"/> AGRICULTURE <input type="checkbox"/> MUSEUM
<input type="checkbox"/> BUILDING(S)	<input type="checkbox"/> PRIVATE	<input type="checkbox"/> UNOCCUPIED	<input type="checkbox"/> COMMERCIAL <input type="checkbox"/> PARK
<input checked="" type="checkbox"/> STRUCTURE	<input type="checkbox"/> BOTH	<input type="checkbox"/> WORK IN PROGRESS	<input type="checkbox"/> EDUCATIONAL <input type="checkbox"/> PRIVATE RESIDEN
<input type="checkbox"/> SITE	<input type="checkbox"/> PUBLIC ACQUISITION	<input type="checkbox"/> ACCESSIBLE	<input type="checkbox"/> ENTERTAINMENT <input type="checkbox"/> RELIGIOUS
<input type="checkbox"/> OBJECT	<input type="checkbox"/> IN PROCESS	<input type="checkbox"/> YES RESTRICTED	<input type="checkbox"/> GOVERNMENT <input type="checkbox"/> SCIENTIFIC
	<input type="checkbox"/> BEING CONSIDERED	<input checked="" type="checkbox"/> YES UNRESTRICTED	<input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> TRANSPORTATION
		<input type="checkbox"/> NO	<input type="checkbox"/> MILITARY <input type="checkbox"/> OTHER:

4 OWNER OF PROPERTY

NAME

West Virginia Department of Highways

STREET & NUMBER

1900 Washington Street, East

CITY, TOWN

Charleston

VICINITY OF

STATE

West Virginia

5 LOCATION OF LEGAL DESCRIPTION

COURTHOUSE,
REGISTRY OF DEEDS, ETC.

Jackson County Courthouse

STREET & NUMBER

Court Street

CITY, TOWN

Ripley

STATE

West Virginia

6 REPRESENTATION IN EXISTING SURVEYS

TITLE

DATE

FEDERAL STATE COUNTY LOCAL

DEPOSITORY FOR
SURVEY RECORDS

CITY, TOWN

STATE

DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> DETERIORATED	<input type="checkbox"/> UNALTERED	<input checked="" type="checkbox"/> ORIGINAL SITE
<input checked="" type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input checked="" type="checkbox"/> ALTERED	<input type="checkbox"/> MOVED DATE _____
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Staats Mill Covered Bridge, constructed in 1887 across the Tug Fork of Big Mill Creek in Jackson County, West Virginia, is an impressive and historically significant example of a late 19th century timber covered bridge constructed on the patented Long truss system.

Constructed by H. T. Hartley, a prominent local builder of the era, the Staats Mill Covered Bridge has a total length of 97 feet, excluding the overhang of the eaves, and has a clear span between abutments of 85 feet 11 inches. The main structure of the Covered Bridge consists of two large timber trusses framed on the system patented by Stephen Long in 1830. The distinctive feature of Long trusses are the "X" braced diagonals in each of the panels. In the case of this covered bridge, there are 11 such panels; each 8 feet 7 inches long and 14 feet 3 inches deep. The timber work on the trusses is beautifully executed and is probably the most noteworthy part of the entire structure.

The bridge floor was originally framed with transverse timber floor beams supported at the panel points of the truss. These beams carries longitudinal timber stringers surmounted by a timber deck. Throughout the years the bridge has undergone a number of modifications. The latest, and most extensive, was carried out in 1971 when the entire deck was cut away and a new three span steel girder bridge was constructed inside the original truss work. During this modification two steel bents were also added in mid-stream to support the three span steel girders. A laminated 2 by 4 inch timber deck was installed on the steel floor beams and provided with an asphalt overlay as a wearing course.

Like most 19th century timber bridges, the Staats Mill bridge is, of course, covered. Vertical siding covers the entire truss work on both sides of the bridge except for a space under the eaves which acts as a clerestory to provide light to the inside of the bridge. The bridge was apparently painted, until recently, a traditional barn red. The Staats Mill Bridge is covered with a simple pitched roof sheathed with a standing seam metal surface supported on timber girders and rafters. Because of the large exposed side area, a horizontal truss was usually incorporated in the roof structure of covered bridges to resist lateral wind loads. These trusses traditionally consisted of transverse timbers and diagonal cross bracing firmly secured by wooden pegs, called "treennails," and wedges. It is practically certain that such a bracing was part of the original Staats Mill Covered Bridge structure. However, all that remains today are loosely fastened diagonals that serve little purpose for resisting lateral loads. This lack of horizontal stiffness at the level of the eaves has caused the main trusses to lean somewhat out of the vertical.

The abutments consist of full height cut stone, done locally, which supports both the original trusses and the new steel girders. This masonry work is a handsome adjunct to the timber trusses, vertical siding and pitched roof of the bridge.

The Staats Mill Covered Bridge is an excellent example of 19th century covered bridges, planned and executed locally to serve the transportation needed of a growing agricultural area.

SIGNIFICANCE

PERIOD	AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW			
<input type="checkbox"/> PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE
<input type="checkbox"/> 1600-1699	<input checked="" type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input checked="" type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER
<input checked="" type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input checked="" type="checkbox"/> TRANSPORTATION
<input type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input type="checkbox"/> OTHER (SPECIFY)
		<input type="checkbox"/> INVENTION		

SPECIFIC DATES 1887 BUILDER/ARCHITECT H. T. Hartley, Builder

STATEMENT OF SIGNIFICANCE

The Staats Mill Covered Bridge is an excellent example of that unique American development, one of the great American contributions to structural engineering; the covered timber bridge.

When the Staats Mill Covered Bridge was constructed in Jackson County, West Virginia in 1887, it was only the latest of many such wooden structures to dot the countryside of West Virginia and the United States. Today, however, the Staats Mill Bridge, indeed, covered bridges in general, are rapidly becoming an "endangered species." In the past 25 years West Virginia has witnessed the disappearance of more than 40 covered timber bridges. Of this once plentiful, even common, genre of structures, only 18 remain in this state.

The Staats Mill community of Jackson County, West Virginia, was founded by the Staats family. Abraham Staats (1750-1826) and his wife Ann King Staats (1755-1811) were the progenitors of the Staats family in Jackson County. Abraham served in the Revolutionary War. Their son Cornelius served in the War of 1812 and married Ann Carne. They were the parents of Issac Staats, who built the first water powered mill on Tug Fork of Big Mill Creek at the site that came to be known as Staats Mill. The present covered bridge was built adjacent to the mill and near the store, both owned by Enoch Staats, the son of Issac Staats. Thus, the bridge site has played an important role in the history and development of Jackson County since the 18th century.

In 1887 the Jackson County Court, under the presidency of George W. Shinn, appointed Shinn, George I. Walker, and S.M. Rader to select a site for the proposed bridge over Tug Fork of Big Mill Creek. The bridge at Hardesty's Mill over Tug Fork was adopted as a model and the stone work was built by Quincy and Grim, local mason at a cost of \$710.40. The wood superstructure was constructed by local builder H. T. Hartley for \$903.95, and Enoch Staats made the dirt fills for the approaches for the sum of \$110.00. The total cost of the Staats Mill Covered Bridge was \$1,788.35.

The bridge was constructed according to the Long System, patented by Stephen Long in 1830. For spans up to 100 feet Queen, King and multiple King Post trusses were popular in the Virginias. For longer spans the familiar Burr arch-truss system was the usual solution employed by the craft-trained bridge builders of the 19th century. However, several notable bridges were constructed with Long trusses and for spans over 100 feet these trusses were often combined with an arch to reduce deflections caused by loads, creep and shrinkage of the wood and movement of the joints.

It is not known why H. T. Hartley selected the Long system for the Staats Mill

Form No 10-300a
(Rev 10-74)

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STAATS MILL COVERED BRIDGE, STAATS MILL, JACKSON COUNTY

CONTINUATION SHEET

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Bridge. In addition, he framed the bridge without the use of stiffening arches, despite the fact that the span was nearly 100 feet. The result was and is an outstanding example of a pure Long Truss covered bridge of notable span, executed by craftsmen of considerable skill. It's architectural beauty, as well as it's utility in providing transportation for the region, made the Staats Mill Covered Bridge a source of pride for the people of Jackson County and West Virginia.

MAJOR BIBLIOGRAPHICAL REFERENCES

Allan, Richard S., Covered Bridges of the Northeast, Stephen Greene Press, Brattleboro, Vt. 1957.

Allan, Richard S., Covered Bridges of the Middle Atlantic States, Stephen Greene Press, Brattleboro, Vt., 1959

"American Wooden Bridges." History and Heritage Committee, ASCE, 1974

GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 1/2 acre

QUADRANGLE NAME Kenna

QUADRANGLE SCALE 1:24000

UTM REFERENCES

A	1,7	4,4,5,5,8,0	4,2,8,8,2,2,0
	ZONE	EASTING	NORTHING
C			
E			
G			

B			
	ZONE	EASTING	NORTHING
D			
F			
H			

VERBAL BOUNDARY DESCRIPTION

The Staats Mill Covered Bridge is located 8.7 miles southeast of Ripley, Jackson County, West Virginia, on Route 40 at Tug Fork of Big Mill Creek. The coordinates of the bridge are: Latitude 38° 44'6 and Longitude 81° 37'5.

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
STATE	CODE	COUNTY	CODE

FORM PREPARED BY

NAME / TITLE

ORGANIZATION	<u>Michael J. Pauley, Historian</u>	DATE
	<u>Historic Preservation Unit</u>	
	<u>West Virginia Department of Culture & History</u>	
STREET & NUMBER		TELEPHONE
	<u>Capitol Complex</u>	<u>(304) 348-0240</u>
CITY OR TOWN		STATE
	<u>Charleston</u>	<u>West Virginia</u>

STATE HISTORIC PRESERVATION OFFICER CERTIFICATION

THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:

NATIONAL

STATE

LOCAL

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

Clarence Morrow

3/26/79

TITLE

DATE

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I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

DATE

ATTEST:

KEEPER OF THE NATIONAL REGISTER

DATE

CHIEF OF REGISTRATION

10-300a
10-741

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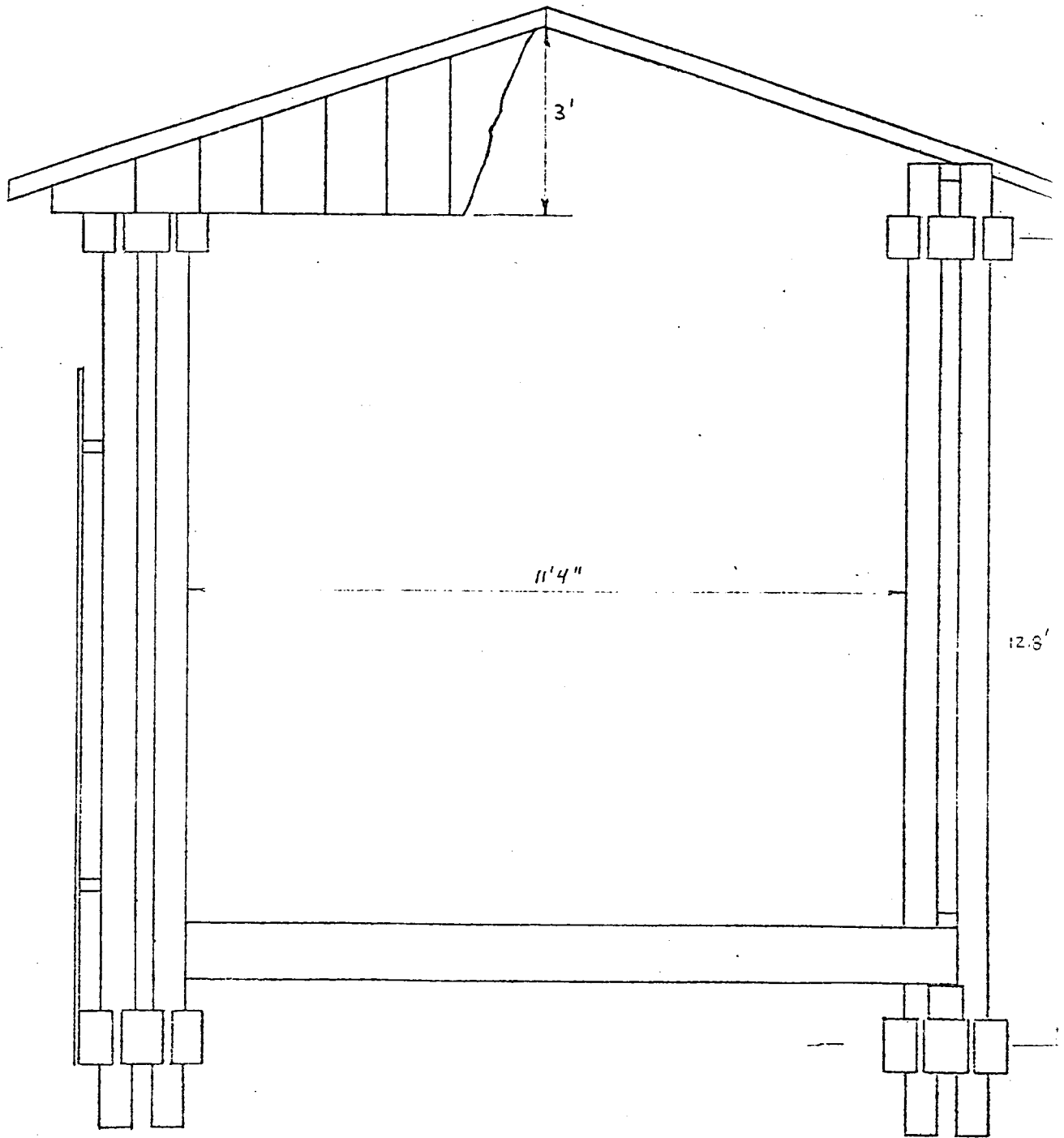
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PAGE

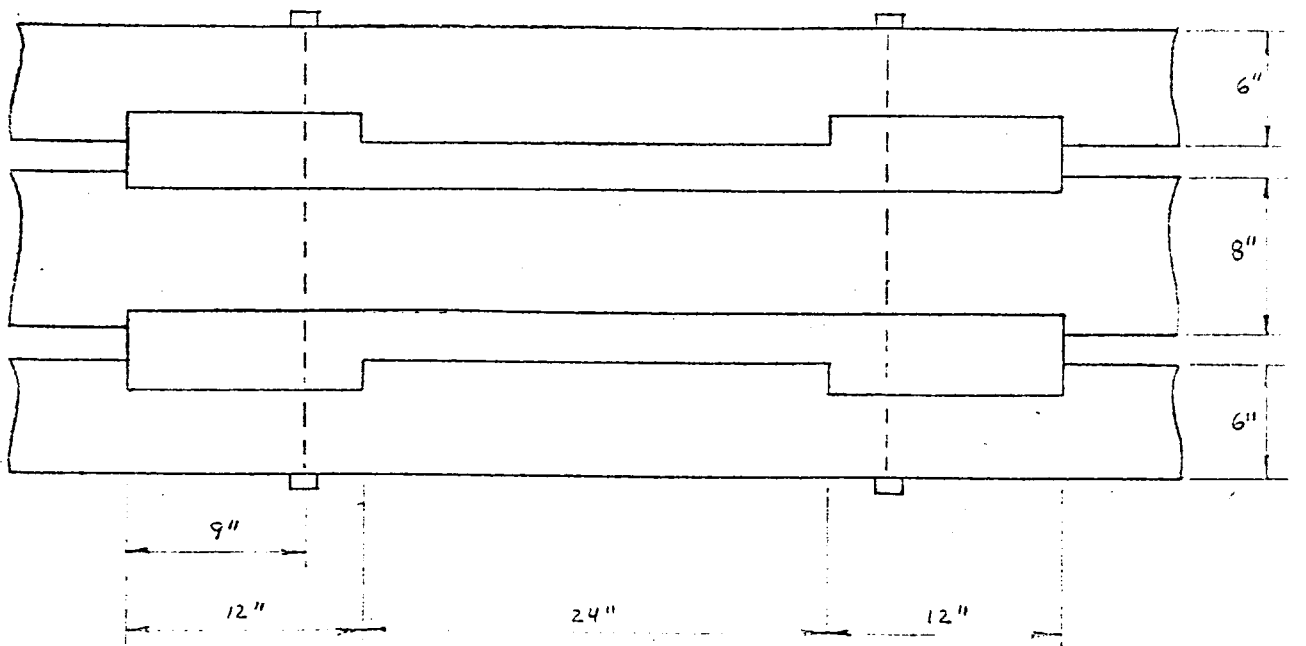
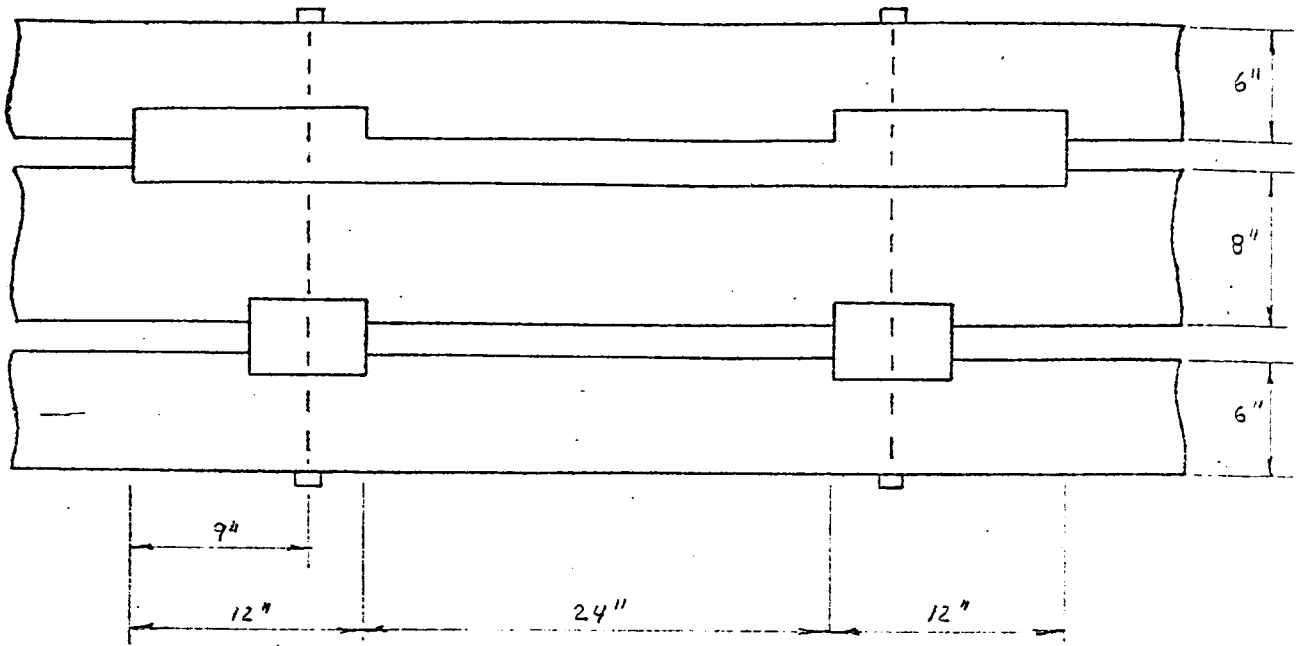
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Maintaince Reports, Staats Mill Bridge, West Virginia Department of Highways.

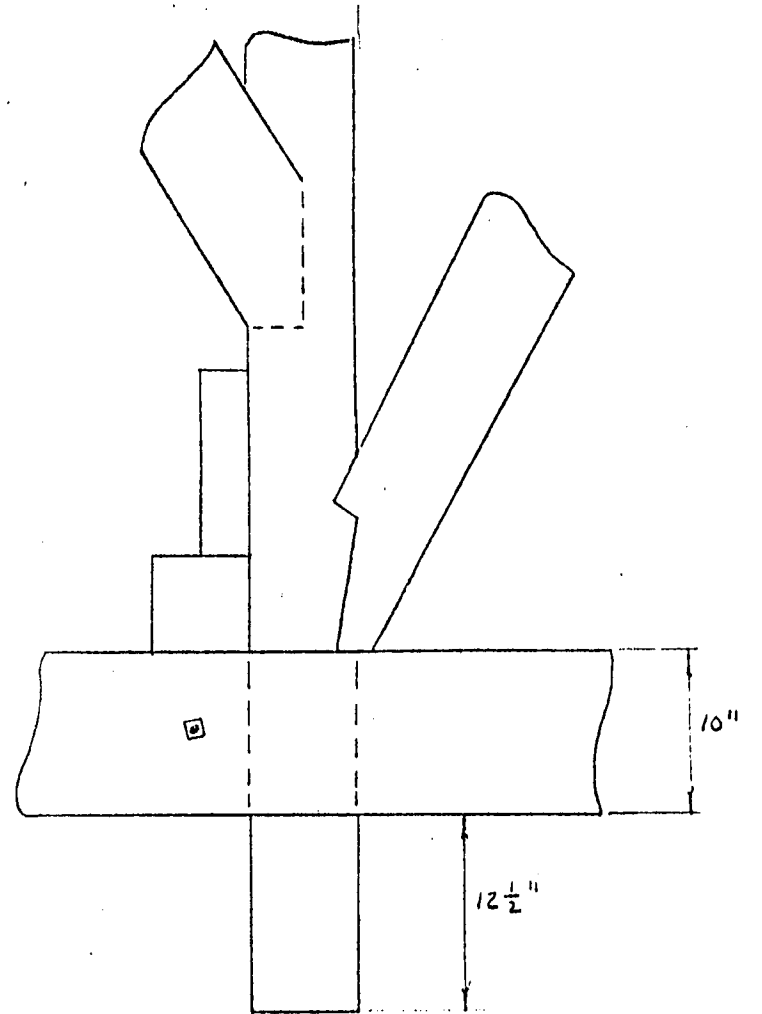
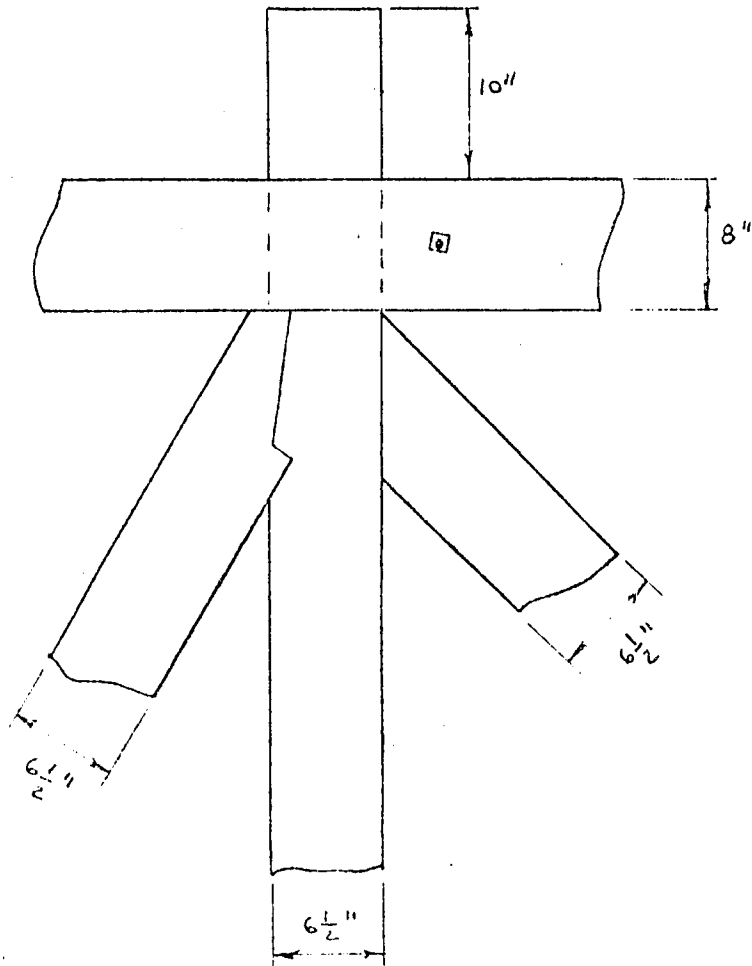
Report on Staats Mill Covered Bridge, U.S. Soil Conservation Service, 1978



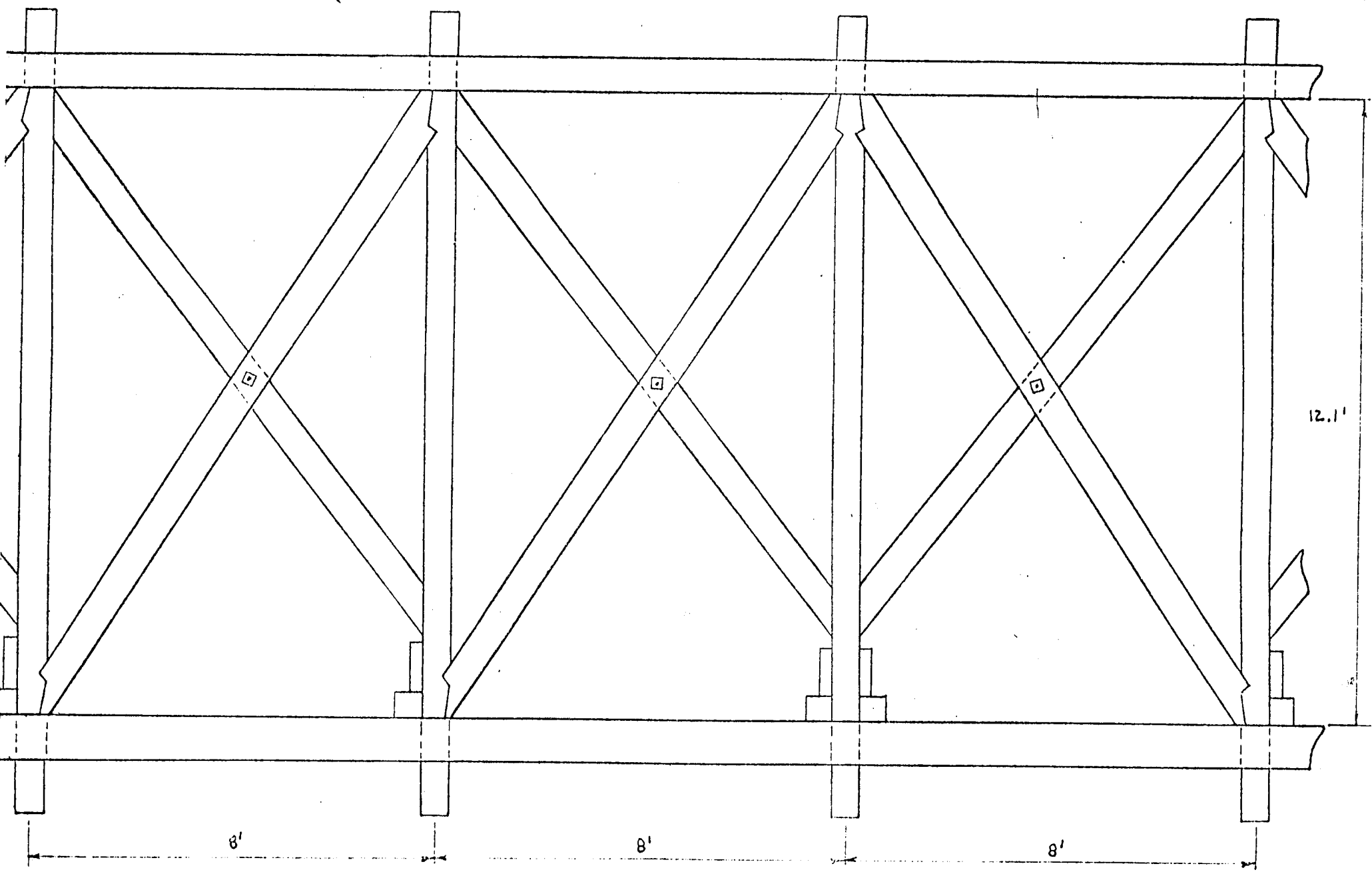
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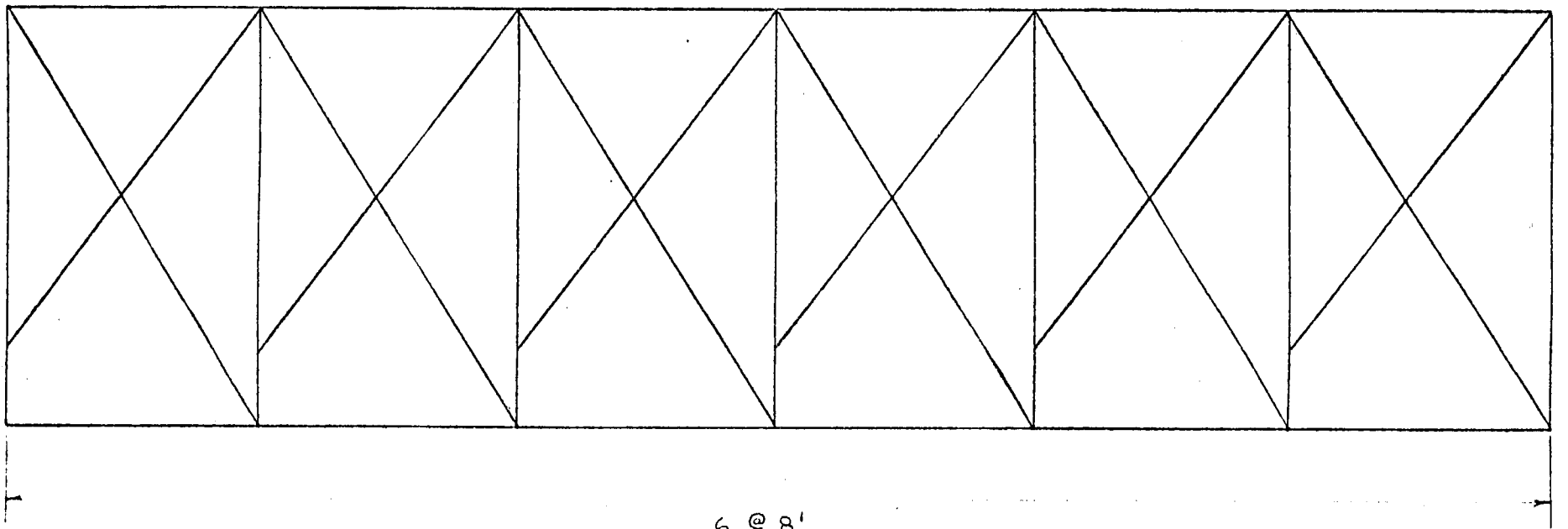
11. STAATS MILL COVERED BRIDGE



11. STAATS MILL COVERED BRIDGE



11. STAATS MILL COVERED BRIDGE



6 @ 8'
(1/2 span)

11. STAATS MILL COVERED BRIDGE

KENNA QUADRANGLE
WEST VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 KENNA 15' QUADRANGLE

(RIPLEY 1:62 500)

1 820 000 FEET

81° 37' 30"
38° 45'

STATS MILL COVERED
BRIDGE, STATS MILL,
JACKSON COUNTY,
WEST VIRGINIA

UTM

17/445 580/4288220

630 000
FEET

