SHILOH BRIDGE TYLER COUNTY, WEST VIRGINIA STATE PROJECT S348-14/4-0.27 FEDERAL PROJECT BR-0144(003)D



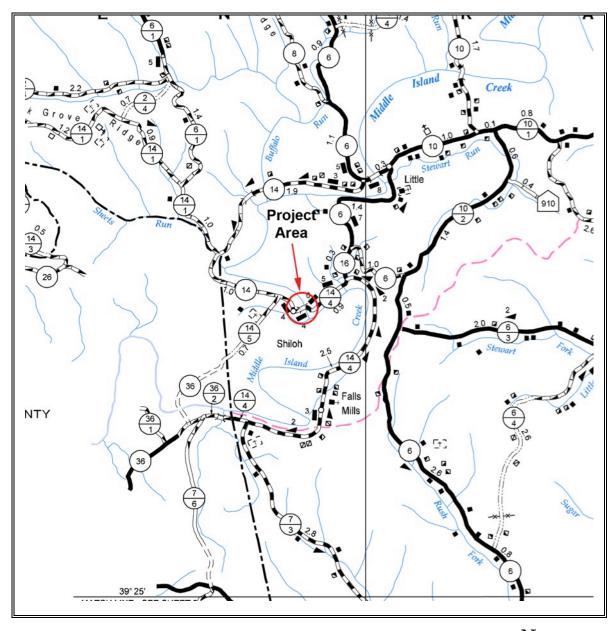
STATE LEVEL HISTORIC DOCUMENTATION

MAY 2014



West Virginia Department of Transportation Division of Highways Engineering Division Environmental Section (304) 558-3236

HIGHWAY MAP



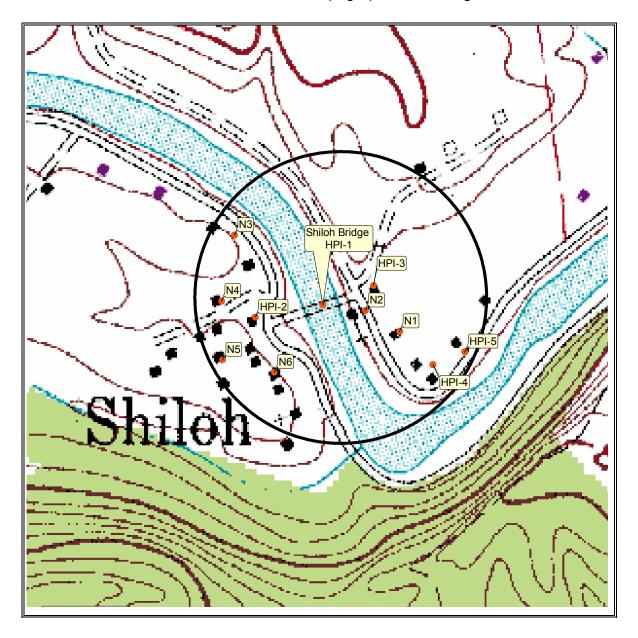
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Shiloh Bridge Replacement Tyler County State Project S248-14/4-0.27 Federal Project BR-0144(008)E

TOPOGRAPHIC MAP

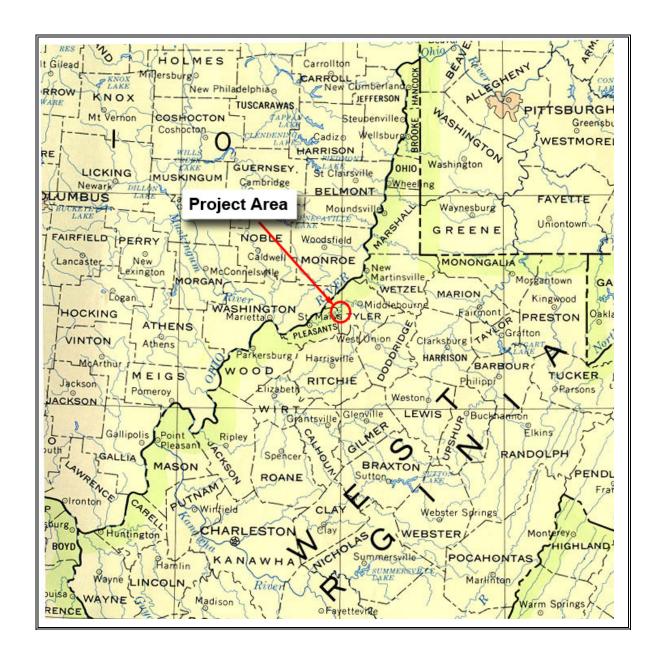
Ben's Run USGS 71/2' Topographic Quadrangle



Shiloh Bridge Replacement Tyler County

Tyler County
State Project S248-14/4-0.27
Federal Project BR-0144(008)E

STATE MAP



Shiloh Bridge Replacement Tyler County

State Project S248-14/4-0.27 Federal Project BR-0144(008)E

STATE LEVEL HISTORIC DOCUMENTATION SHILOH BRIDGE

Location: Tyler County Route 14/4 over Middle Island Creek

Tyler County West Virginia

USGS Ben's Run Quadrangle

Date of Construction: 1898

Builder: Benjamin Pipes

<u>Present Owner:</u> West Virginia Department of Transportation

Division of Highways

1900 Kanawha Boulevard, Building 5, Room A-110

Charleston, WV 25305

<u>Present Use</u>: Transportation

Significance: Shiloh Bridge is eligible for the National Register of Historic

Places under Criterion C for design. The bridge is locally significant as an example of a wrought iron Pratt through-truss. Although the bridge is heavily corroded and the condition is poor, the integrity of materials and design still conveys the design

concepts employed in construction of the bridge.

Project Information: This bridge is being replaced in order to provide a bridge crossing

over Middle Island Creek at this location that meets current condition rating and design standards. The existing structure is rated in poor condition due to significant deterioration and has a posted weight limit of 3 tons. The documentation was undertaken in May 2014 in accordance with a Memorandum of Agreement between the West Virginia Department of Transportation and West Virginia State Historic Preservation Office. These measures are required prior to removal of this National Register-eligible

structure.

Courtney Fint Zimmerman, Architectural Historian

Aurora Research Associates, LLC

1436 Graham Road, Silver Lake, OH 44224

on behalf of:

West Virginia Division of Highways

Charleston, WV

May 2014

HISTORY OF SHILOH BRIDGE AND THE COMMUNITY OF SHILOH

The Shiloh Truss was built in 1898 according to WVDOH records and is a two-span wrought iron pin-connected Pratt through-truss. The bridge is supported by two cut stone full-height abutments and one solid cut stone pier. The overall length of the structure is 244'-06" and the roadway width is 15'-02". The bridge has a wooden deck and no curbs or sidewalks.

Tyler County is located along the Ohio River just south of the northern panhandle of West Virginia. It was formed in 1814 from Ohio County and named for John Tyler, father of president John Tyler. The county's largest towns are Middlebourne, the county seat, and Sistersville on the Ohio River.

The first settlers of European descent arrived in the area in 1792. Henry Jolley established a ferry by 1800 across the Ohio River at what is now Sistersville. Charles Wells founded the town of Wells Landing at this location in 1802 and the Wells family became a prominent local family, opening the Wells Hotel in 1895. Wells Landing was later named Sistersville after Charles Wells' two daughters. The town was an economic center for the surrounding area due to its location on the river; other early businesses included a tannery, mills and general store.

Development in Tyler County and surrounding northwestern West Virginia was greatly stimulated in the 1890s with the discovery of oil and gas. Drillers and others associated with the industry rushed to the area; the population of Sistersville increased from 1,000 to 7,000 between 1890 and 1900.³ The county's first weekly paper, which had been established in 1885 as the *Tyler Democrat*, became the *Daily Oil Review* in 1895, illustrating just how important the industry had become. The oil and gas industry was tapering off by 1910 and the population never quite recovered. Today Tyler County is largely rural, but the economic development effects of the recent second shale oil and gas boom can be seen in the increased traffic and hotel business from gas workers.

The community of Shiloh is located about 8 miles southeast of the town of Friendly and the Ohio River, and about 10 miles west of Middlebourne, the county seat. Shiloh was a

2

¹ Ken Sullivan, West Virginia Encyclopedia, 722.

² History of Tyler County, Vol. 1, 11.

³ Sullivan.

small community of early settlers on Middle Island Creek and included a gristmill prior to 1850. Shiloh was a busy little town in the late 19th century with a number of businesses including several mills, a blacksmith, and general stores. There was also a four-story woolen mill constructed in 1865 that operated until about 1904, when it closed due to lack of transportation to get the products to market. Other local institutions included a school, several churches, a doctor, a town newspaper, a community brass band and the Odd Fellows and Grand Army of the Republic fraternal organizations.⁴

The current Shiloh truss bridge was built in 1898, according to WVDOH bridge inspection report estimates, and replaced a wooden pontoon pedestrian bridge that had been built in 1894. According to county histories, Ben Pipes built the current bridge in 1900. The 1900 and 1910 Censuses list a Benjamin Pipes born in 1870 living in Meade District, just south of Union District and Shiloh, with an occupation of merchant.⁵ Pipes had moved to Canton, Ohio by 1920 and had the occupation of bus driver in the 1920 U.S. Census. He died in 1927. His obituary noted that he was a county commissioner for three years and built a number of bridges and culverts with George F. Watson and later T.O. Johnson.6

George F. Watson was born in Tyler County in 1872. According to his World War I draft registration card, Watson worked as a contractor in stone, cement and brick work. U.S. Census data also lists occupations of stone cutter and bridge/road contractor for Watson. Theodore O. Johnson was born in 1883 and was a carpenter. Based on the date of construction of Shiloh Bridge, if Pipes worked with a partner it would have been Watson, as Johnson was only 17 years old in 1900.

No further information could be found regarding Benjamin Pipes. It is not known how he became involved in the bridge construction industry. A substantial number of wrought iron and steel truss bridges built in the late 19th century were available through catalog

History of Tyler County, Vol. 2, 12.

⁵ Ancestry.com. 1910 United States Federal Census [database on-line]. Provo, UT, USA: Ancestry.com Operations Inc, 2006.

Connie Maxwell Taylor, "My Family Genealogy: Pipes Obituaries," http://www.angelfire.com/in/cjt/pipesobits.html

Ancestry.com. U.S., World War I Draft Registration Cards, 1917-1918 [database on-line]. Provo, UT, USA: Ancestry.com Operations Inc, 2005.

8 Ancestry.com. *U.S., World War I Draft Registration Cards, 1917-1918* [database on-line]. Provo, UT, USA:

Ancestry.com Operations Inc, 2005.

order and shipped as kits all over the country. It is possible that Pipes became skilled at erecting these types of bridges. No markings or plaques of any kind are found on the bridge.

Shiloh became known after a children's book of the same name was written in 1991 by Phyllis Reynolds Naylor. The book tells the fictional story of a boy named Marty Preston who finds an abused beagle in Shiloh, whom he names after the town. The book won the Newbery Medal for children's literature and mentions the Shiloh truss bridge and other places in the community.

BIBLIOGRAPHY

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- United States Geological Survey. Ben's Run 7.5' Minute Series Topographic Quadrangle, Washington, D.C. 1976.
- West Virginia Division of Culture and History. Archaeological and County Inventory files. State Historic Preservation Office, WV Division of Culture and History, Charleston.

STATE LEVEL HISTORIC DOCUMENTATION INDEX TO PHOTOGRAPHS

Shiloh Bridge Tyler County Route 14/4 Middle Island Creek Tyler County, West Virginia

Photographer: Courtney Fint Zimmerman

Date: May 25, 2013

Filename prefix: WV_TylerCounty_ShilohBridge_00xx

Photo	Description
1	Overall view of bridge from east bank, downstream side
2	Eastern span, downstream side
3	Western portal
4	Eastern portal
5	Western approach and general setting
6	Western abutment
7	Pier and deck substructure of western span
8	Deck substructure of western span
9	Bridge railing detail
10	Detail of pin connection on lower chord near western end
11	Detail of connection of upper chord to end post at western portal
12	Detail of connection of lower chord and vertical post
13	Upstream side of pier
14	Downstream side of pier
15	Detail of V-lacing on vertical post
16	Detail of riveting on end post at eastern portal
17	Detail of buckling on vertical post
18	Pin connected bearing at eastern abutment
19	Detail of connection at lower chord and vertical post with tension rods
20	Detail of threaded tension rods
21	Detail of V-lacing on end post at western portal
22	Overall view through truss from eastern portal
23	View of eastern span from east bank, upstream side

Internal Rating	g:
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WEST VIRGINIA HISTORIC PROPERTY INVENTORY FORM

Street Address Tyler County Route 14/4 Milepost 0.27	Common/Historic Name/Both ☐ Common ☒ Historic ☐ Both Shiloh Truss Bridge	Field Survey #	Site # (SHPO Only)	
Town or Community	County	Negative No. NR Listed Date		
Shiloh	Tyler			
			NR No.	
Architect/Builder	Date of Construction	Style (SHPO Only)		
Ben Pipes	1898			
	☐ Circa			
Exterior Siding / Materials	Roofing Material	Foundation		
Metal		Stone - Ashlar		
Property Use or Function Transportation	UTM Zone 17N NAD 1983 Easting 499077 Northing 4367427 Quadrangle Name			
	_			
Survey Organization & Date Aurora Research Associates	Ben's Run			
LLC WVDOH	Part of What Survey / FR#			
05/25/2013	WVDOH Shiloh Bridge Replacement			



Site No.

Name: Shiloh Truss Bridge

Survey #: TY

Survey/FR#: WVDOH Shiloh Bridge

Present Owners		Owners' Mailing Address					
West Virginia Divisi	on of Highways	Building 5 Room 110 1900 Kanawha Blvd East					
		Charleston, WV 25305					
Describe Setting		Agrag					
Describe Setting		Acres ☐ Artifacts Present					
		_					
Shiloh Bridge crosses Middle Island Creek in the rural community of Shiloh. There are scattered residences in the area. The surrounding landscape is mountainous and forested.							
Description of Buildings or Site (Original and Present) Stories Front Bays Shiloh Bridge is a simple two-span wrought iron pin-connected Pratt through truss supported by two full height stone ashlar abutments and one solid stone ashlar pier. The overall length of the structure is 244'-6" and the roadway width is 15'-2".							
Alterations Yes	s 🗷 No						
Additions Yes	X No						
Describe all Outbui	ldings						
	-						
Statement of Signif See continuation she							
See continuation she	eet.						
Bibliographical Ref	aranaa						
See continuation she							
Form Prepared By:		Date : 05/25/2013					
Name/Organization:	Courtney Fint Zimmerman	Aurora Research Associates, LLC					
Address:	1436 Graham Road Silver Lake, OH 44224						
Phone #:	304-685-7410						

WEST VIRGINIA HISTORIC PROPERTY FORM CONTINUATION SHEET

Name: Shiloh Truss Bridge

Survey #: TY

Survey/FR#: WVDOH Shiloh Bridge

Statement of Significance

The community of Shiloh is located about 8 miles southeast of the town of Friendly and the Ohio River, and about 10 miles west of Middlebourne, the county seat. Shiloh was a small community of early settlers on Middle Island Creek and included a gristmill prior to 1850. Shiloh was a busy little town in the late 19th century with a number of businesses including several mills, a blacksmith, and general stores. There was also a four-story woolen mill constructed in 1865 that operated until about 1904, when it closed due to lack of transportation to get the products to market. Other local institutions included a school, several churches, a doctor, a town newspaper, a community brass band and the Odd Fellows and Grand Army of the Republic fraternal organizations.

The current Shiloh truss bridge was built in 1898 and replaced a wooden pontoon pedestrian bridge that had been built in 1894. According to county histories, the current bridge was built by Ben Pipes. The 1900 and 1910 Censuses list a Benjamin Pipes born in 1870 living in Meade District, just south of Union District and Shiloh, with an occupation of merchant. Pipes had moved to Canton, Ohio by 1920 and had the occupation of bus driver in the 1920 U.S. Census. He died in 1927. His obituary noted that he was a county commissioner for three years and built a number of bridges and culverts with George F. Watson and later T.O. Johnson.

George F. Watson was born in Tyler County in 1872. According to his World War I draft registration card, Watson worked as a contractor in stone, cement and brick work. U.S. Census data also lists occupations of stone cutter and bridge/road contractor for Watson. Theodore O. Johnson was born in 1883 and was a carpenter. Based on the date of construction of Shiloh Bridge, if Pipes worked with a partner it would have been Watson, as Johnson was only 15 years old.

No further information could be found regarding Benjamin Pipes. It is not known how he became involved in the bridge construction industry. A substantial number of wrought iron and steel truss bridges built in the late 19th century were available through catalog order and shipped as kits all over the country. It is possible that Pipes became skilled at erecting these types of bridges.

Shiloh became known after a children's book of the same name was written in 1991 by Phyllis Reynolds Naylor. The book tells the fictional story of a boy named Marty Preston who finds an abused beagle in Shiloh, whom he names after the town. The book won the Newbery Medal for children's literature and mentions the Shiloh truss bridge and other real places in the community.

Shiloh Bridge is eligible for the National Register of Historic Places under Criterion C for design. The bridge is locally significant as an example of a wrought iron Pratt through-truss. Although the bridge is heavily corroded and the condition is poor, the integrity of materials and design still conveys the design concepts employed in construction of the bridge. No significant links were found to historical events or persons, and the bridge does not have potential to yield important historical information. The bridge is not eligible under Criterion A, B or D.

Bibliography

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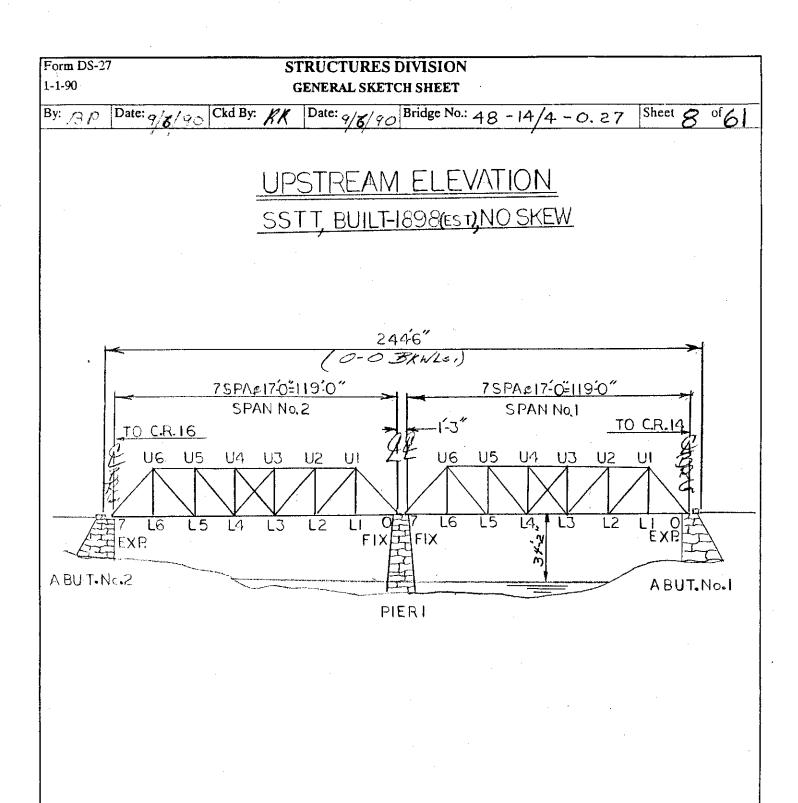
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http://www.angelfire.com/in/cjt/pipesobits.html. Accessed June 24, 2013.

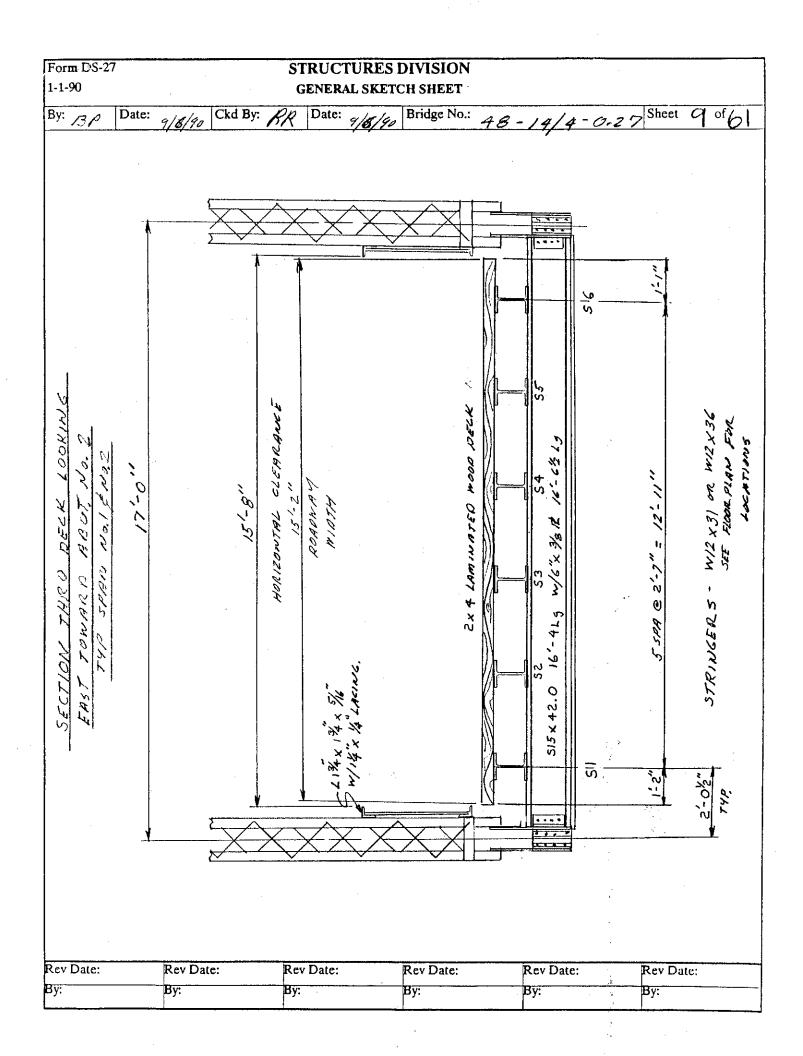
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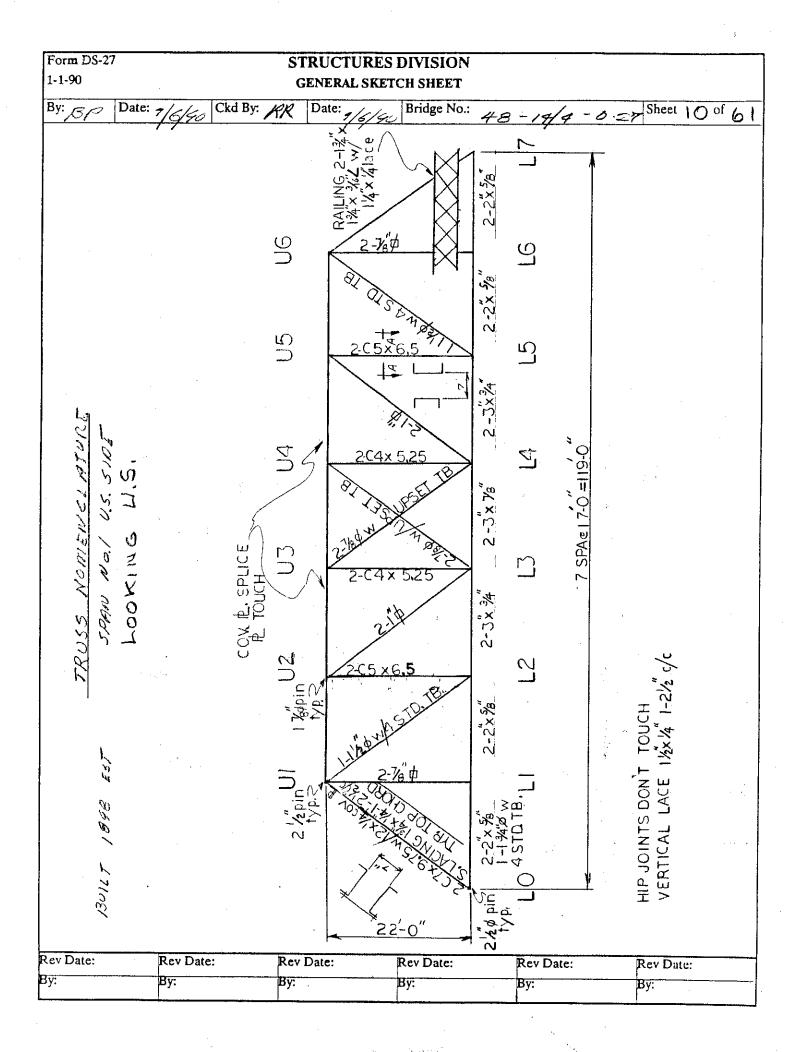
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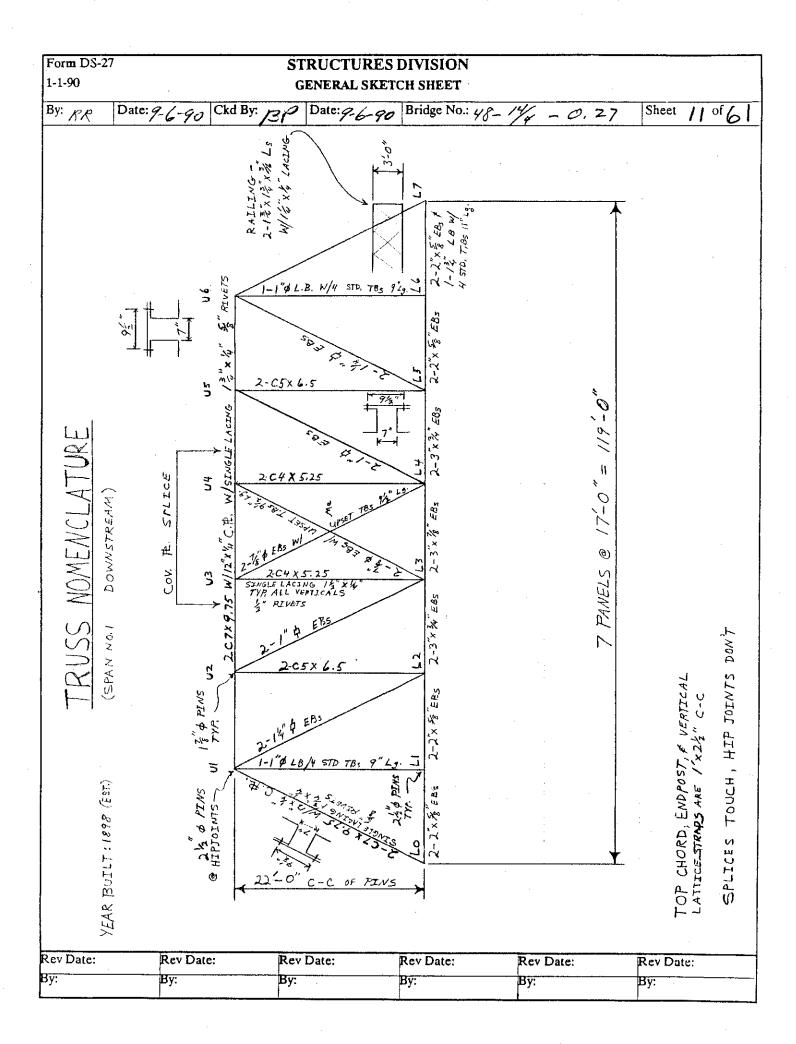
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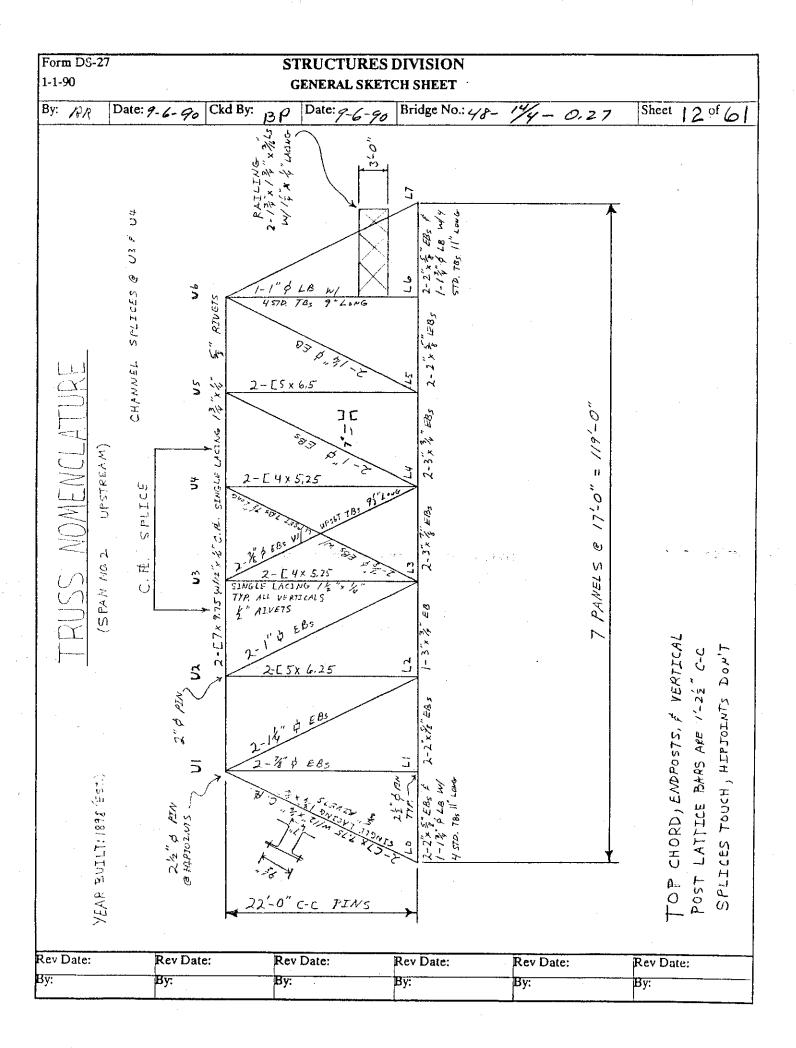


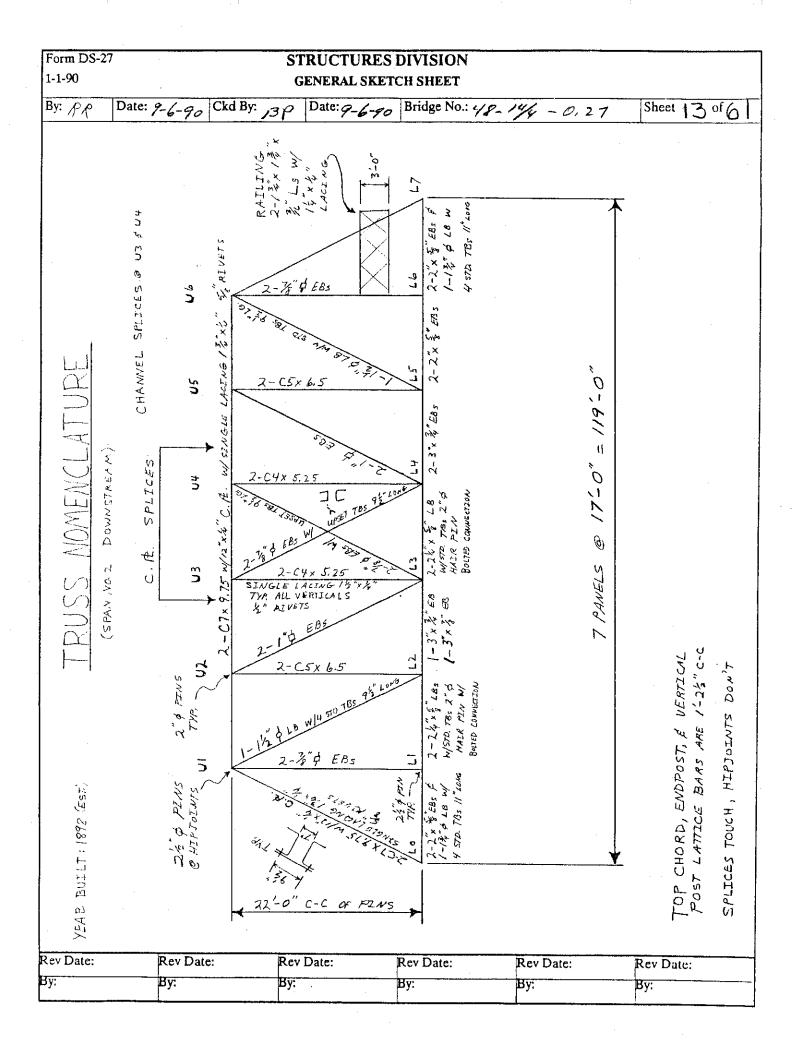
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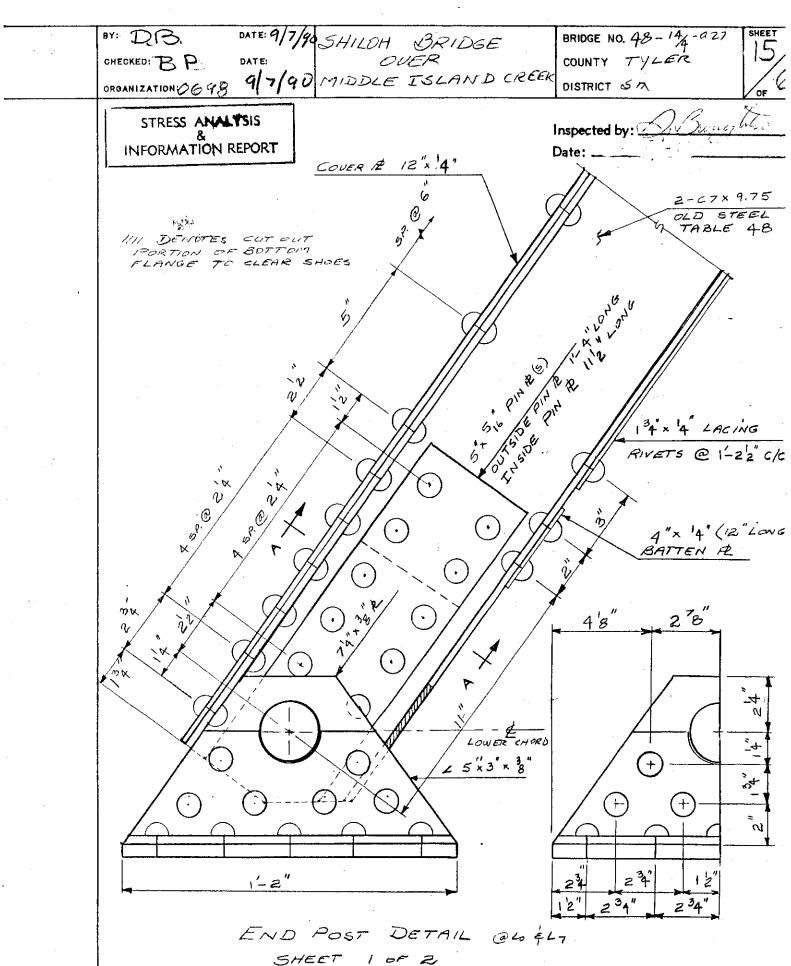


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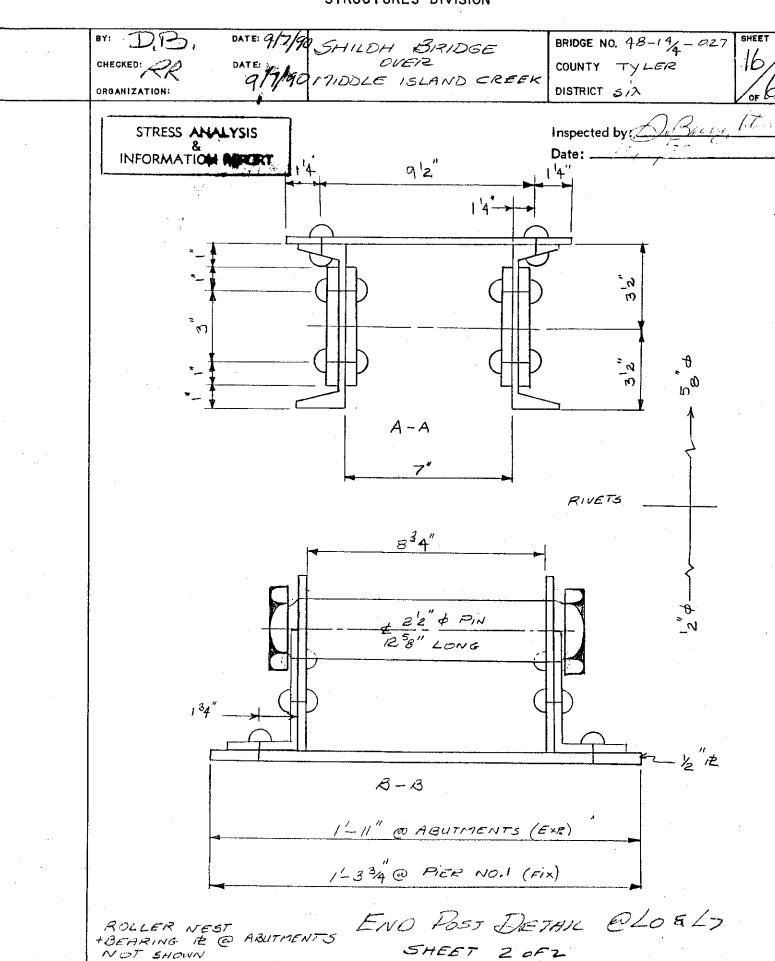
BY: RR BRIDGE NO. 48-14-0,27 DATE: 9/7/90 SHILOH BRIDGE CHECKED! DB. DATE: 9-7-90 COUNTY TYLER MIDDLE ISLAND CREEK DISTRICT 5/2 ORGANIZATION: 06-98 STRESS ANALYSIS INFORMATION 18'-0" 0-0 or TRUSS Inspected by REPORT Date: _ -12/2"x 2"x4" x181-0" U2, U3, U4, EU5 3/4" Roos-1 2-L22 X 2" x 5 x 16-0" W/LATTIES - 10" X 1 74@10"C/C BOTTOM EDGE OF 1U, & U6 ANGLES Z ROADWAY SURFACE

PORTAL & TOP CHORD BRACING SPAN NO.1 & No.2

THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS

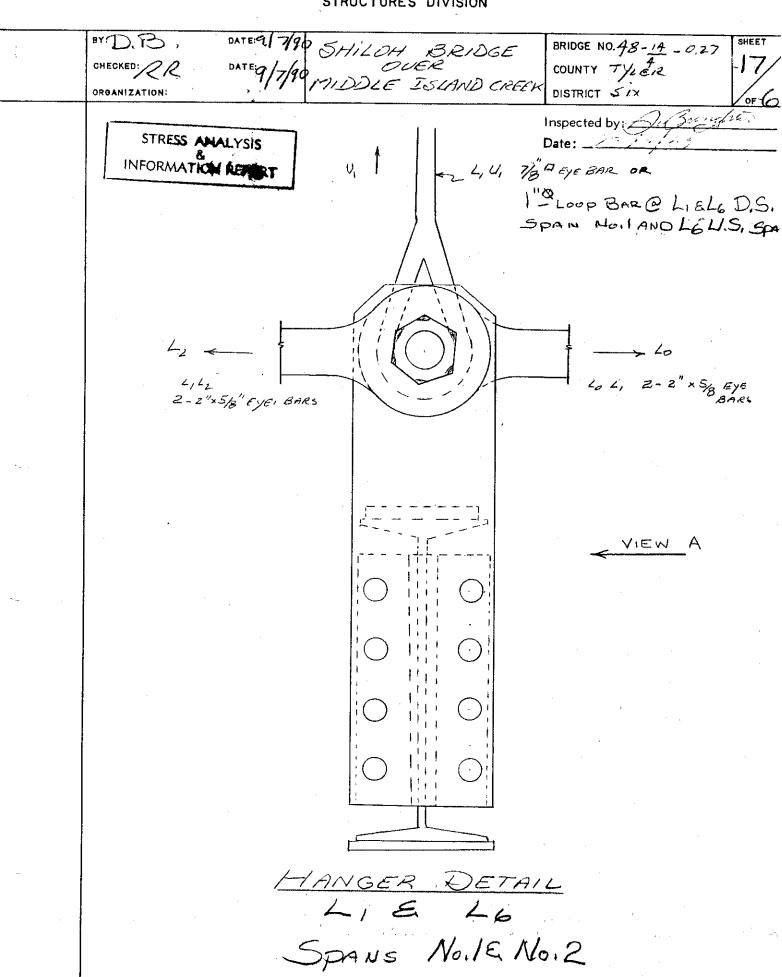


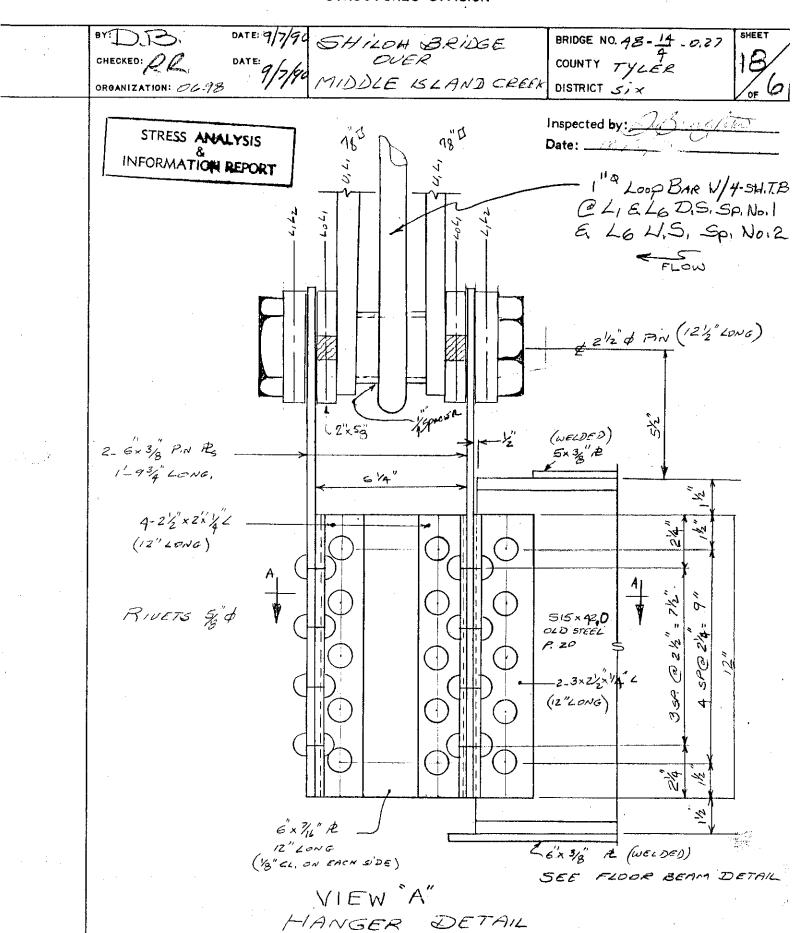
THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS



FORM MT-28

THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS





THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS

STRUCTURES DIVISION

ORGANIZATION:

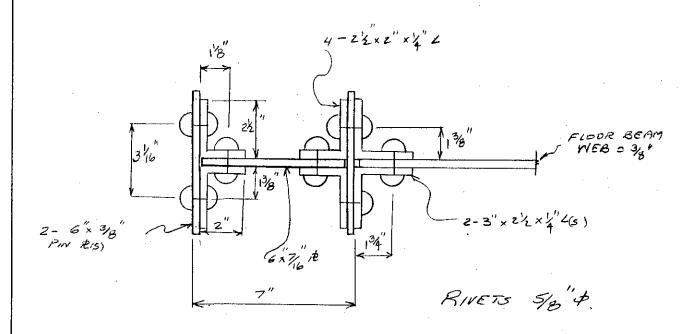
DATE: 1/90 SHILOH BRIDGE OVER BRIDGE NO. 48-14-0.27 SHEET

CHECKED: RR DATE: 9/7/90 MIDDLE ISLAND CREEK COUNTY TYLER

OF 60/

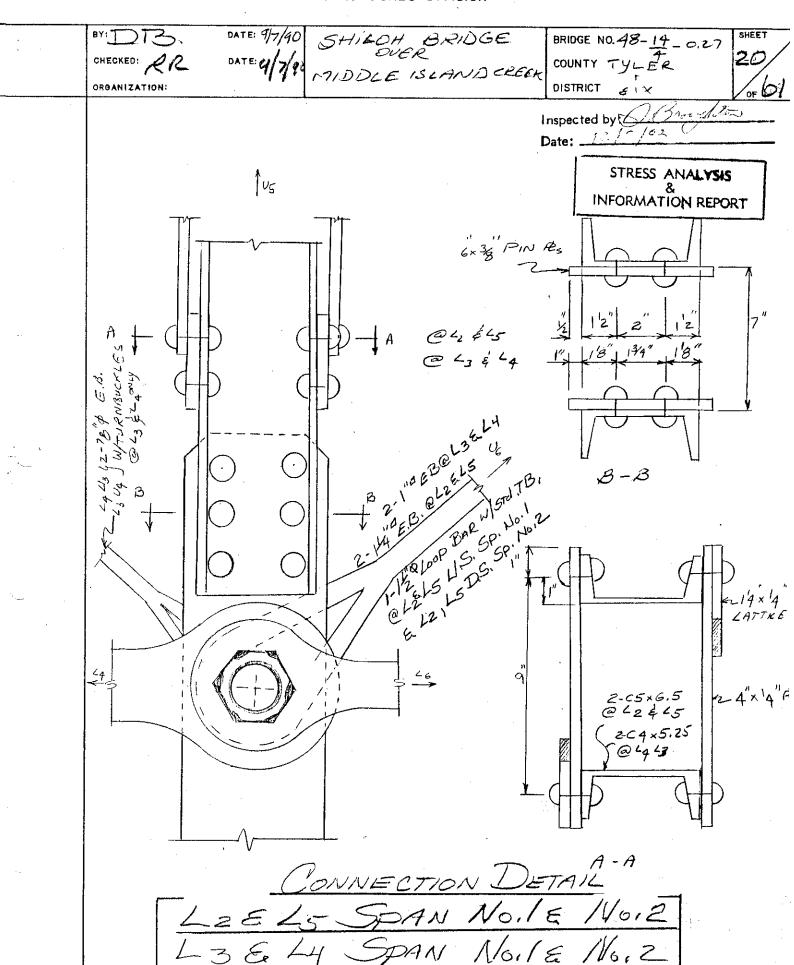
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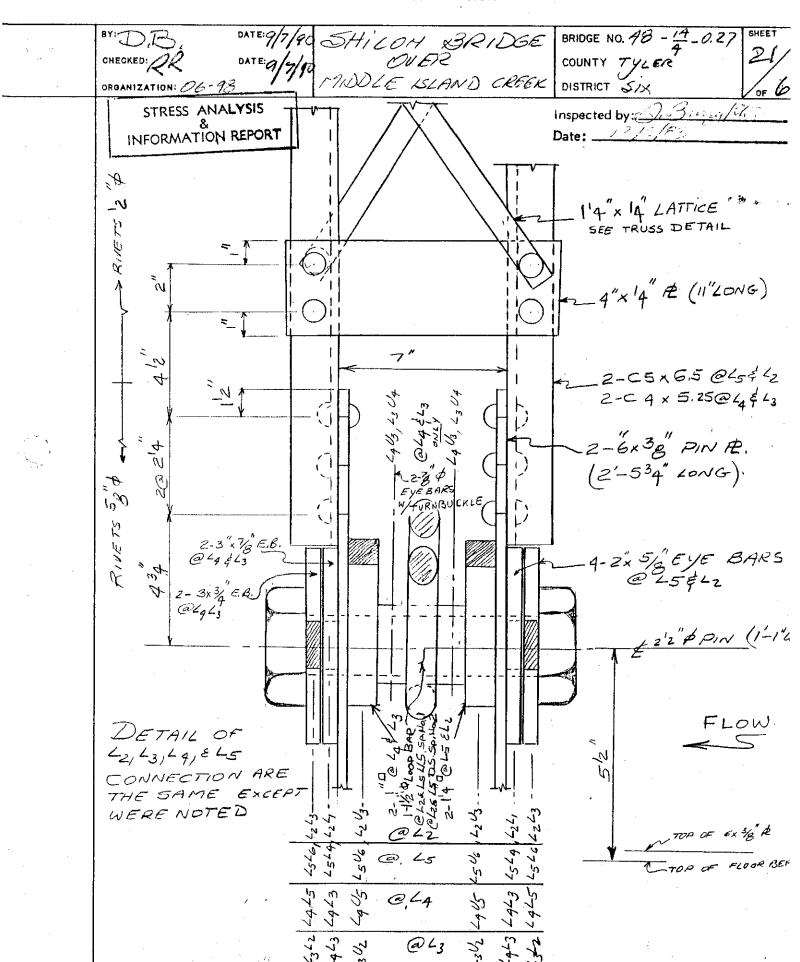
STRESS ANALYSIS &
INFORMATION REPORT



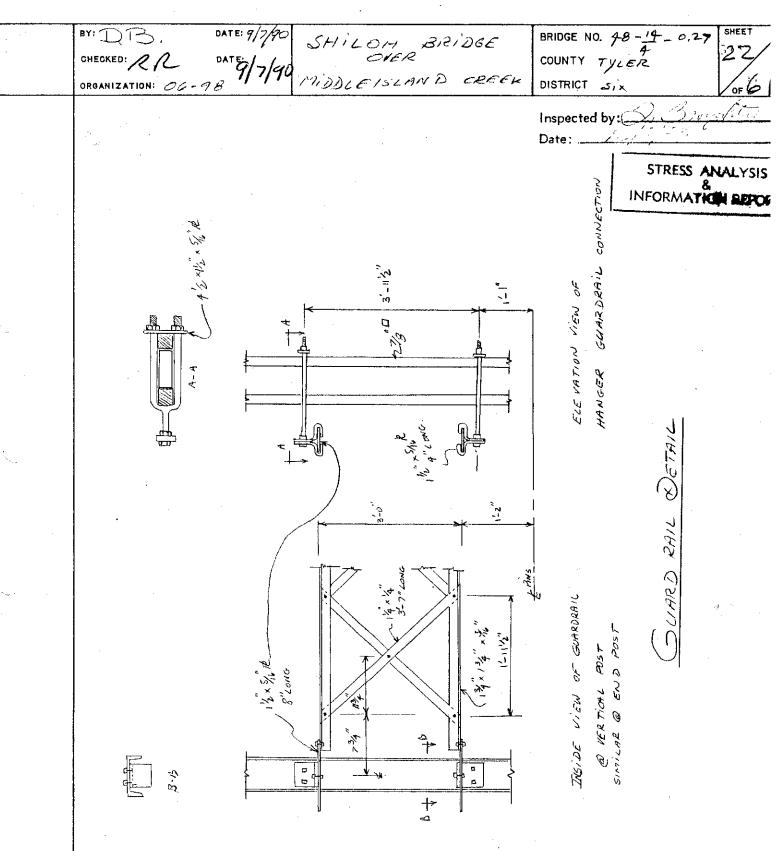
A-A. FLOORBEAM DETAIL

THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS

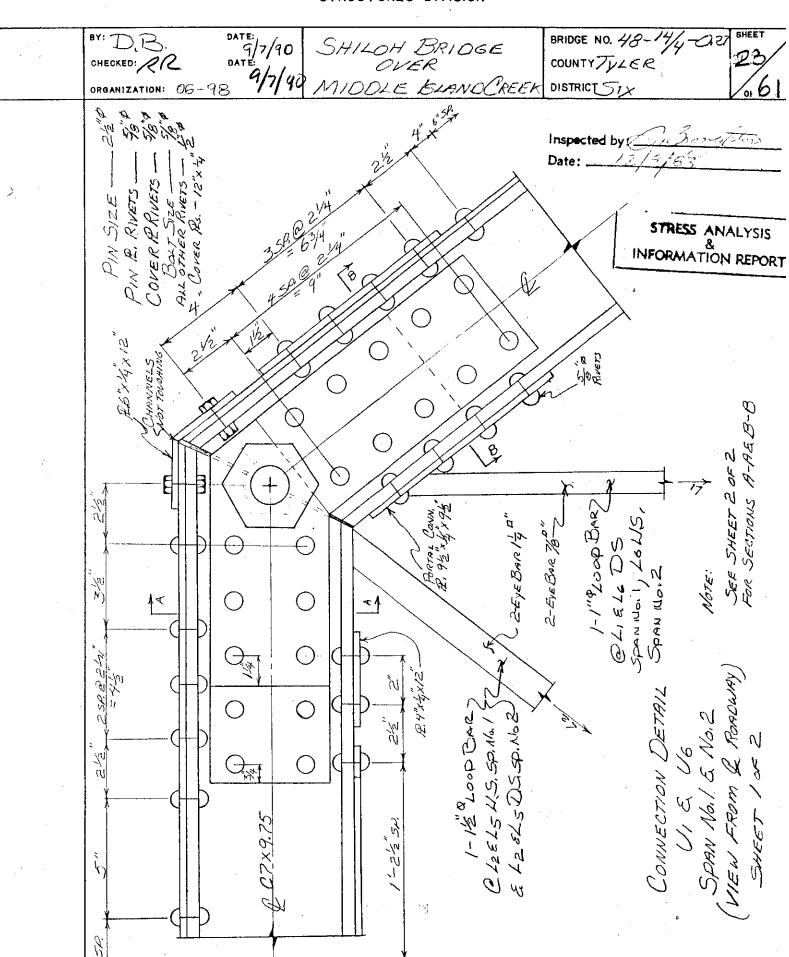




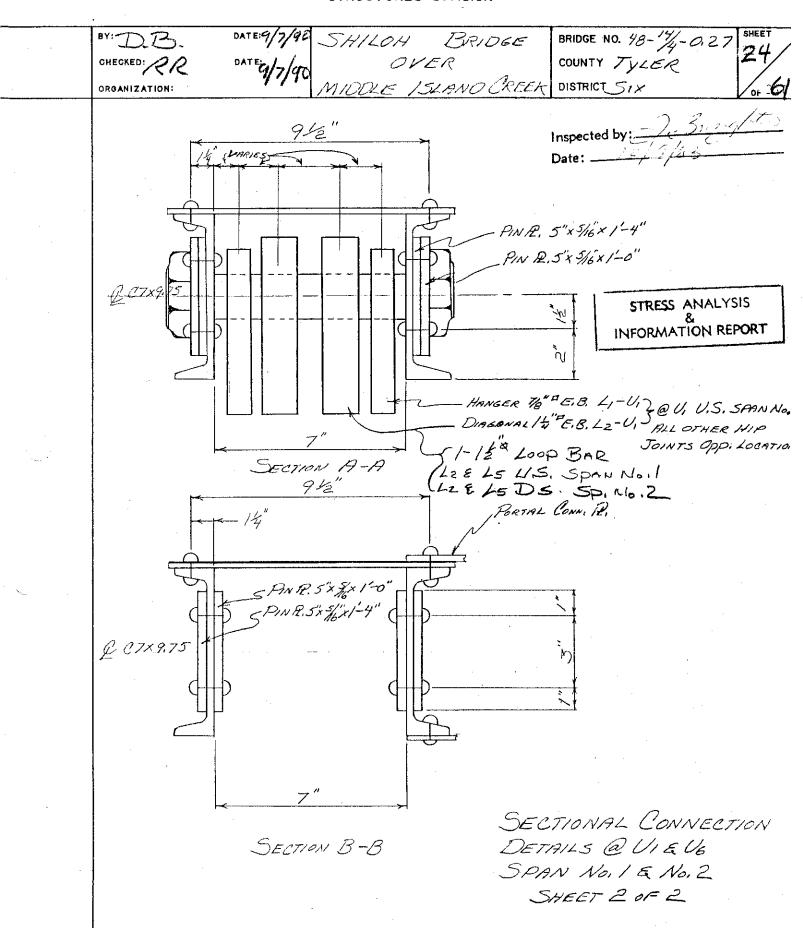
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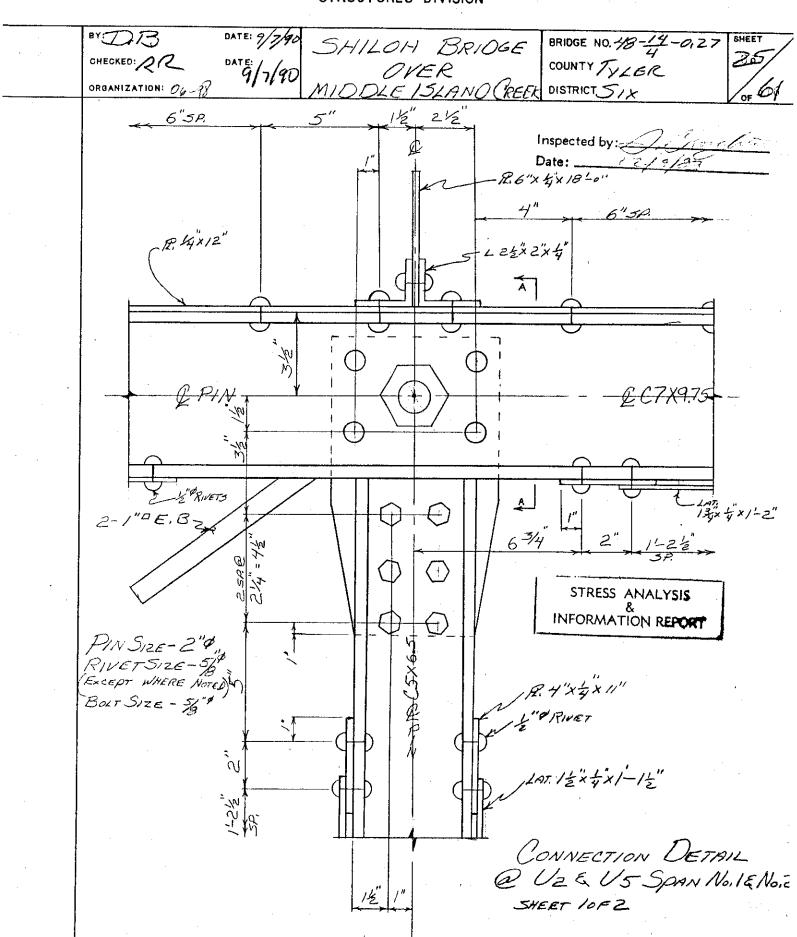


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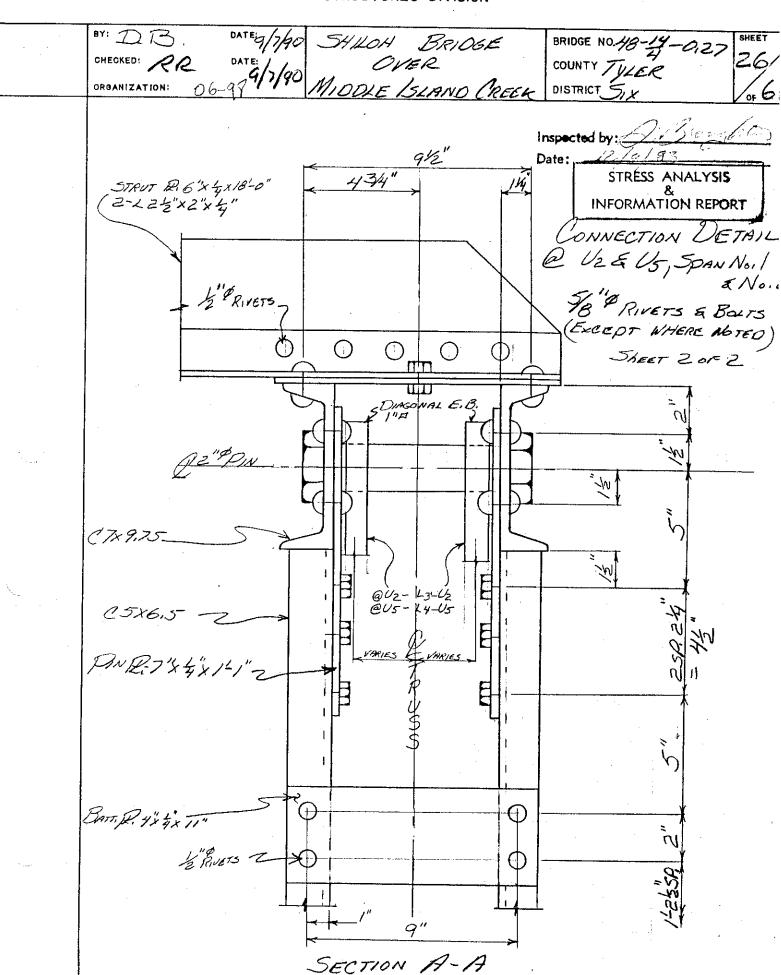
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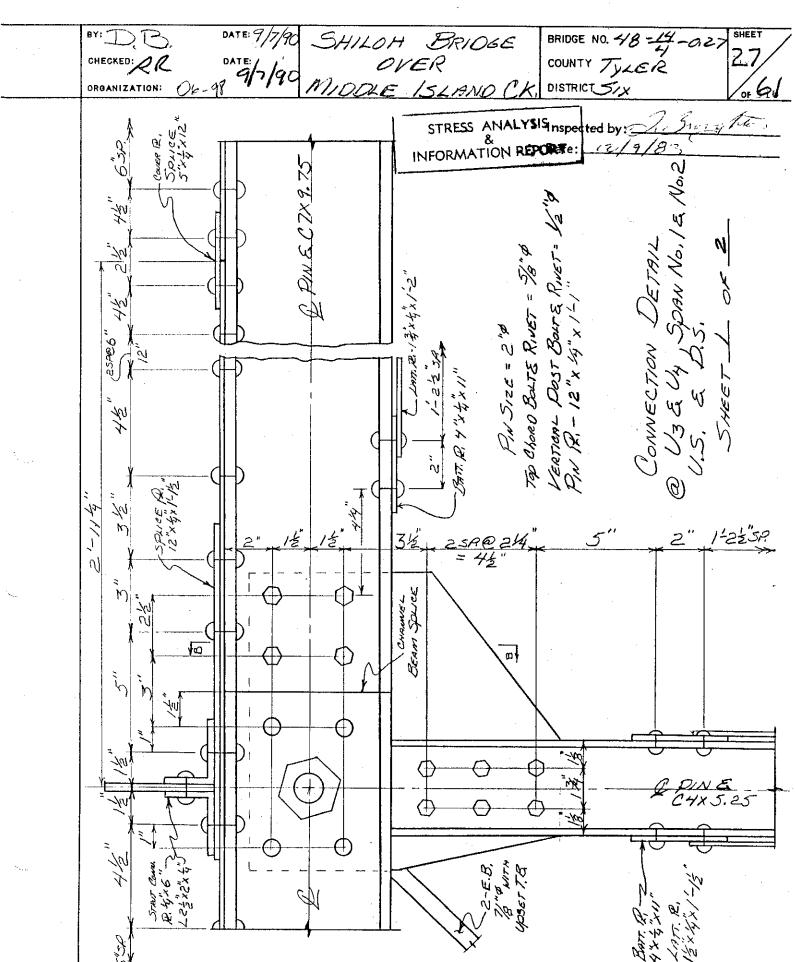


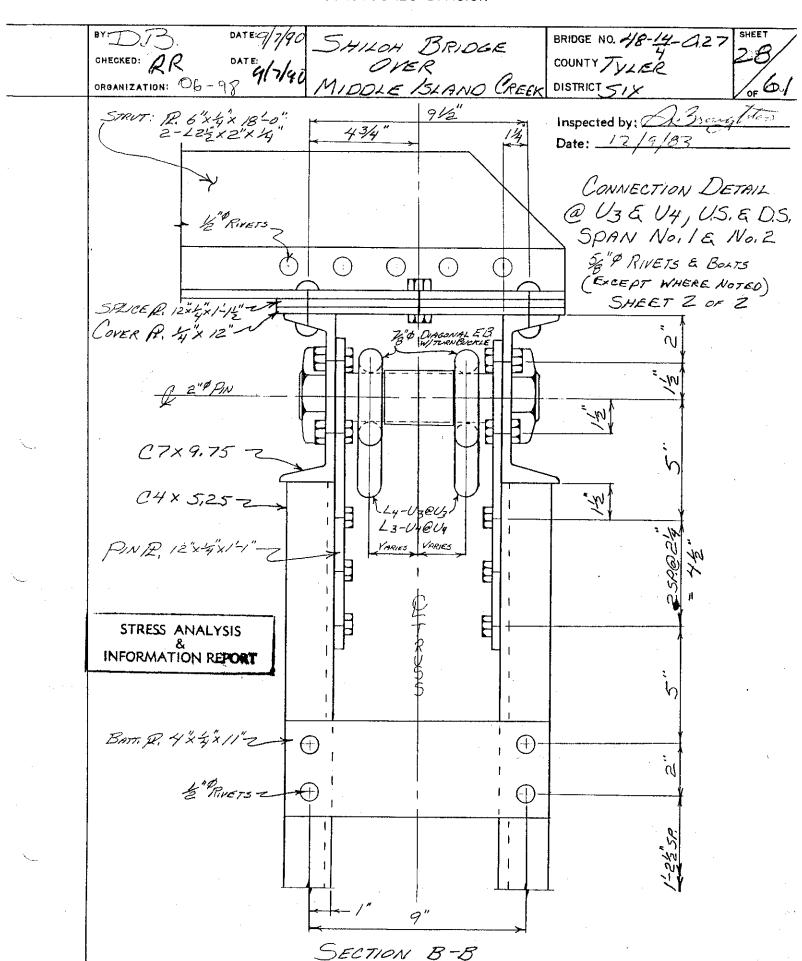


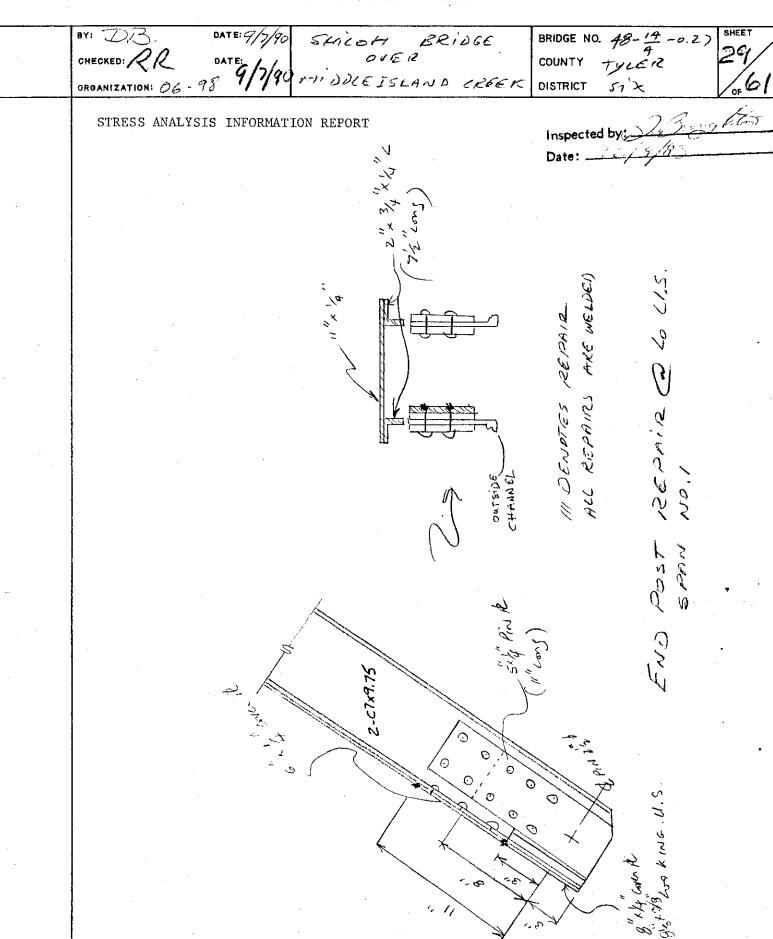
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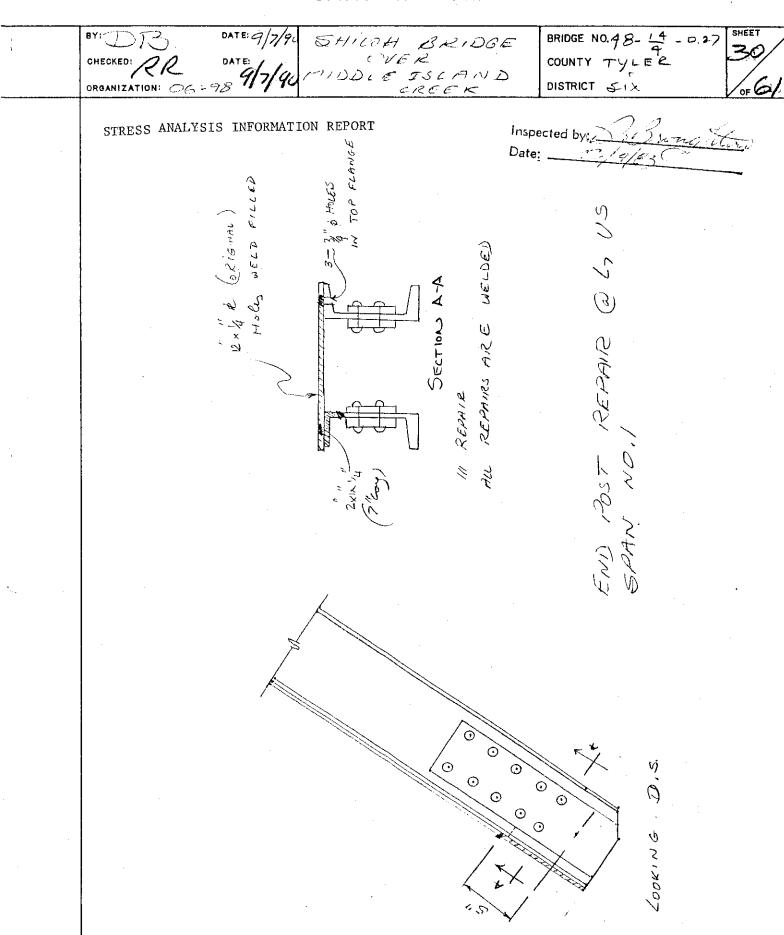
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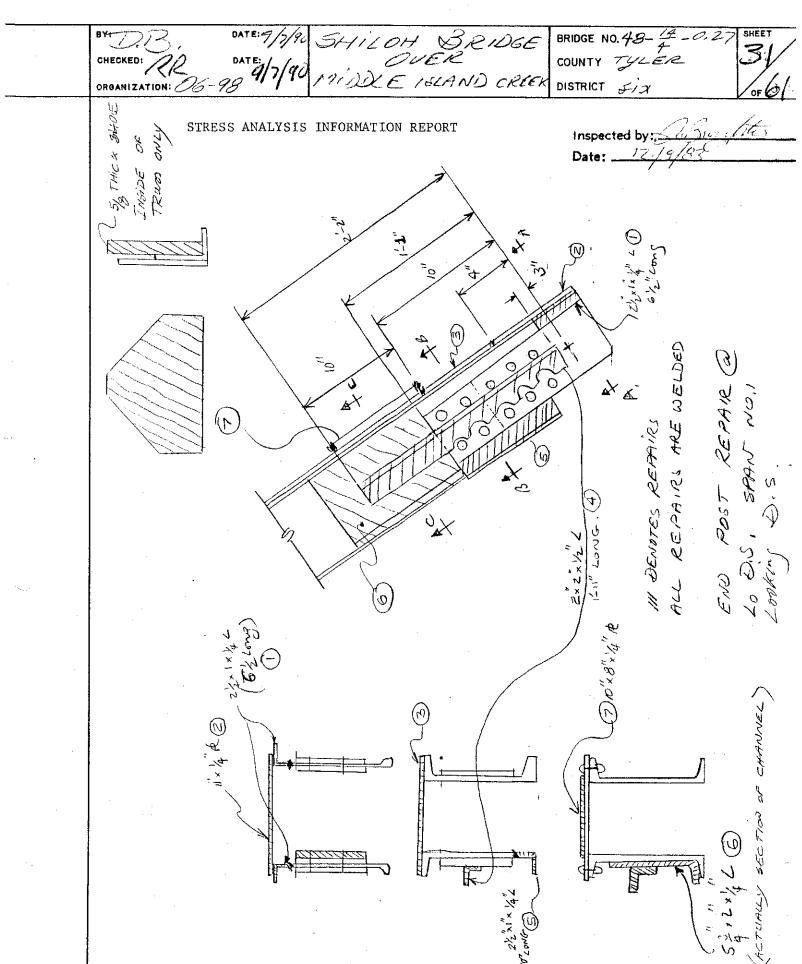






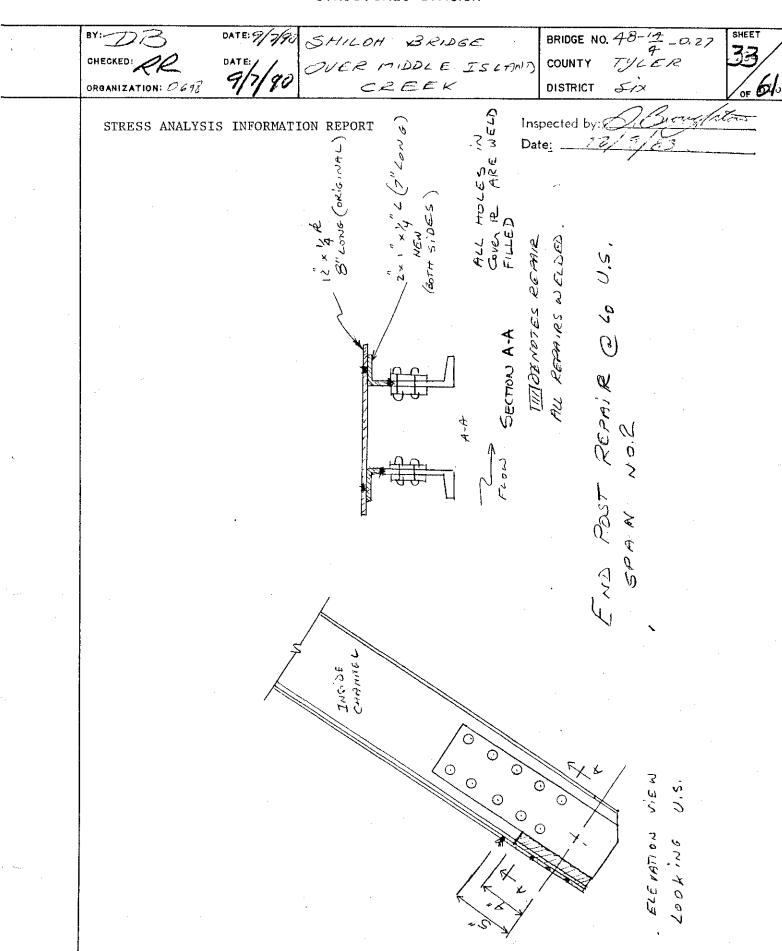
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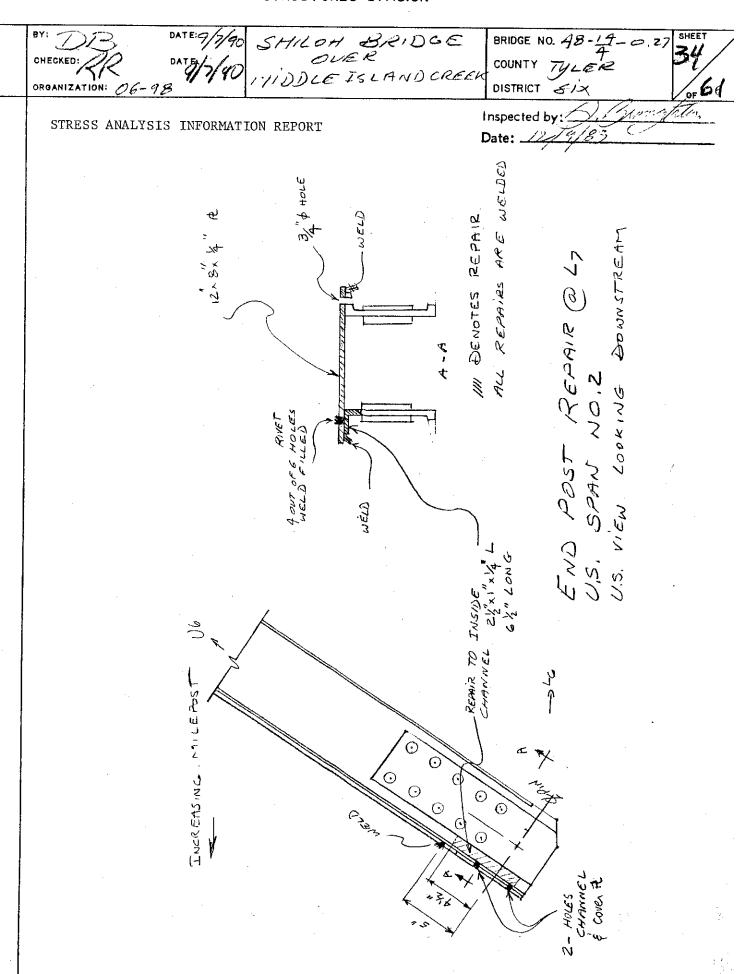
THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS



STRUCTURES DIVISION

BRIDGE NO. 48-14-0,27
COUNTY TYCER BRIDGE SHILOH ISLAND CREEK DISTRICT STRESS ANALYSIS INFORMATION REPORT NEW STEEL Section A-A @ WELDED DENOTE ELEVATION





FORM MT-26 2-1-79

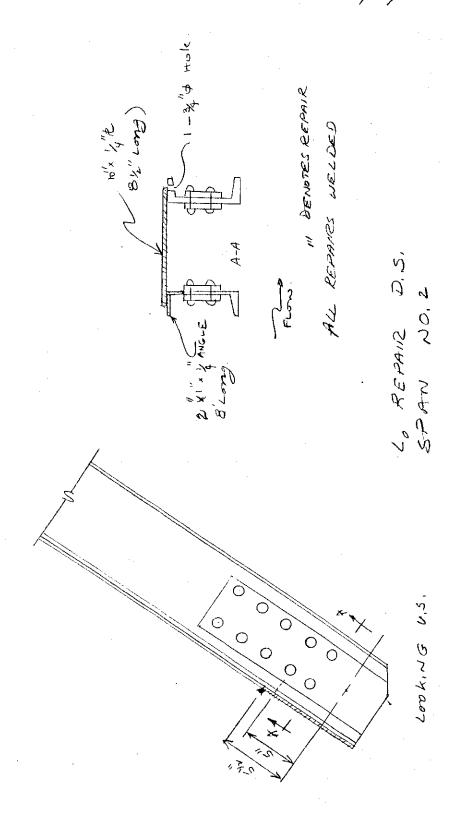
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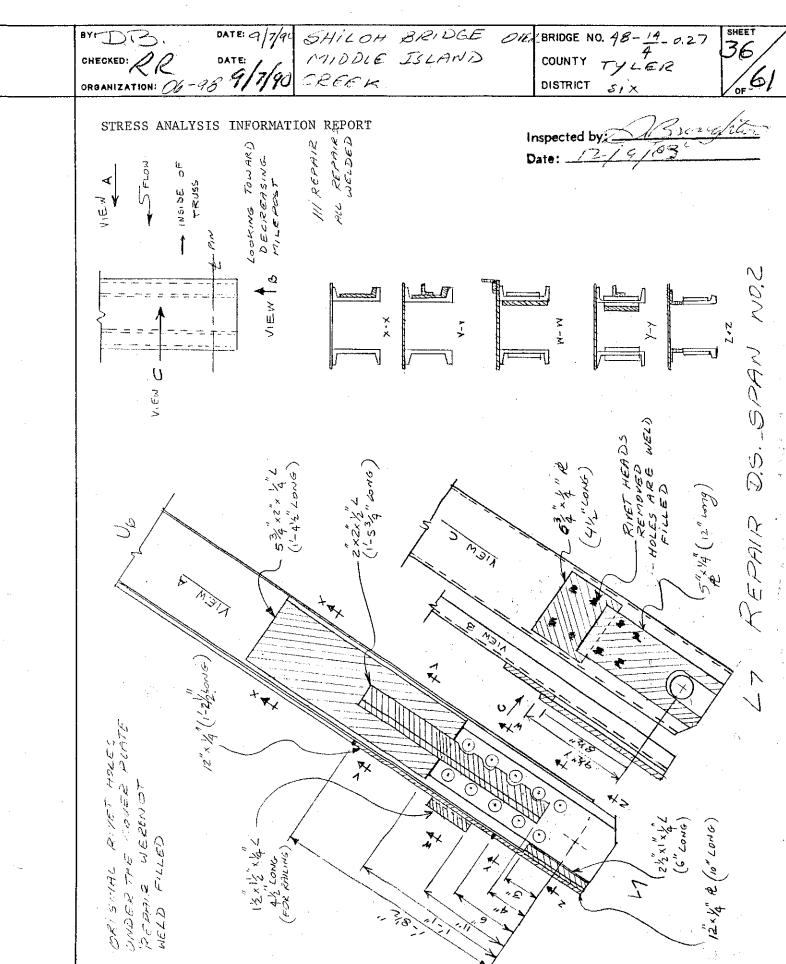
STRUCTURES DIVISION

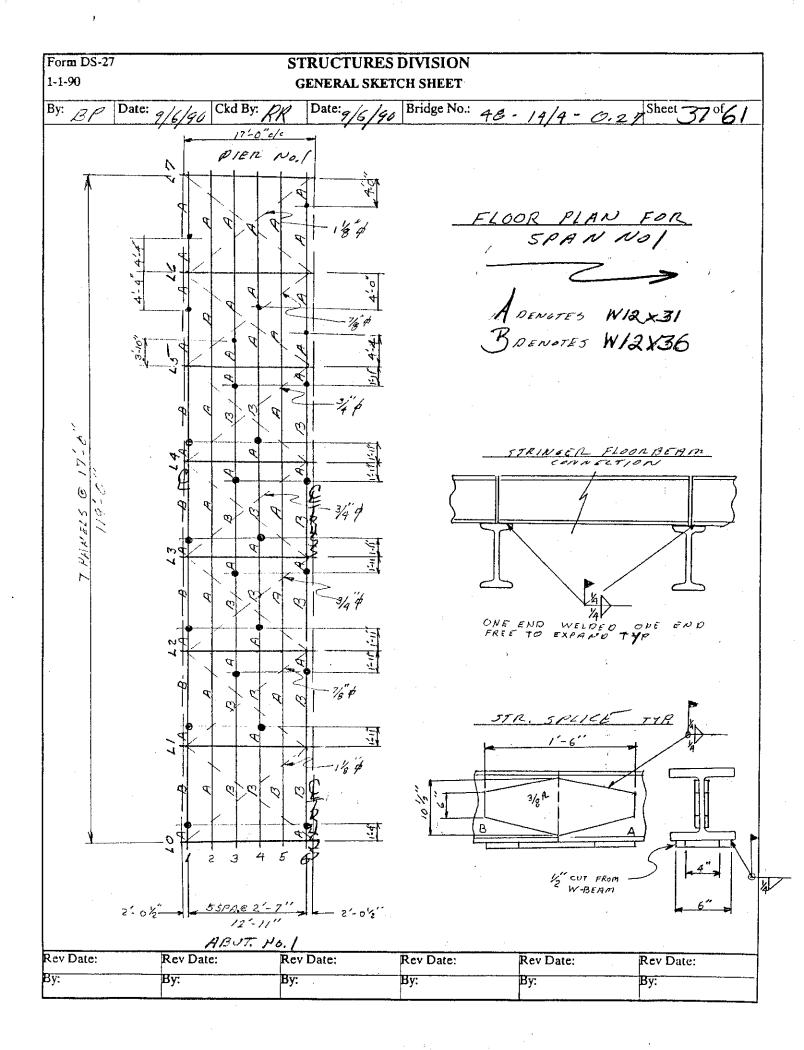
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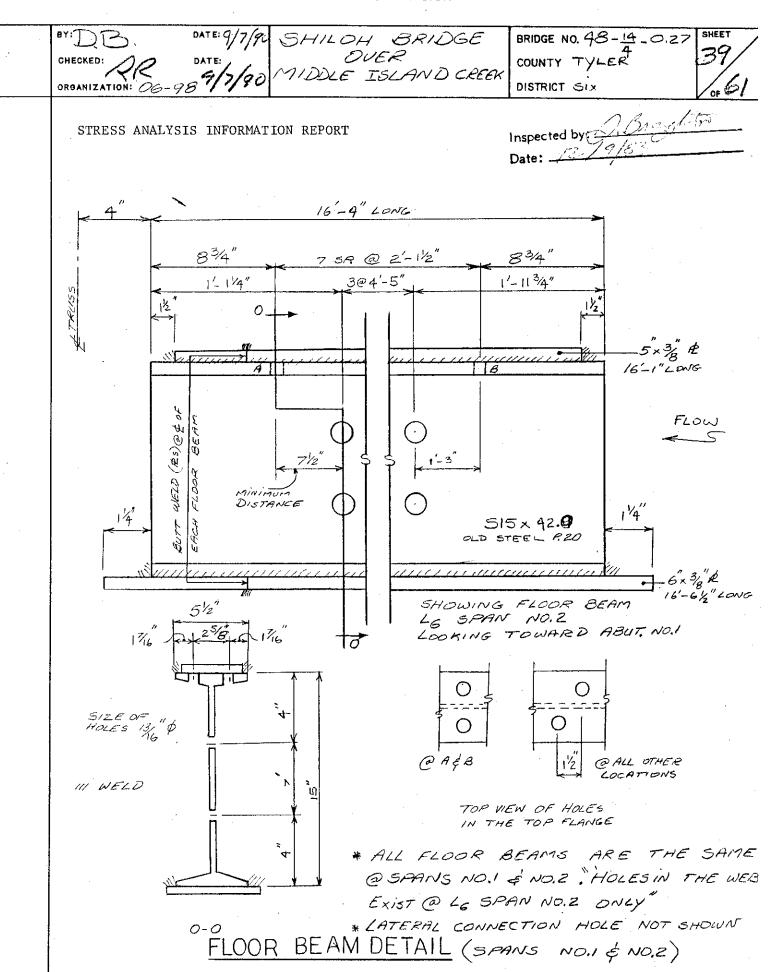
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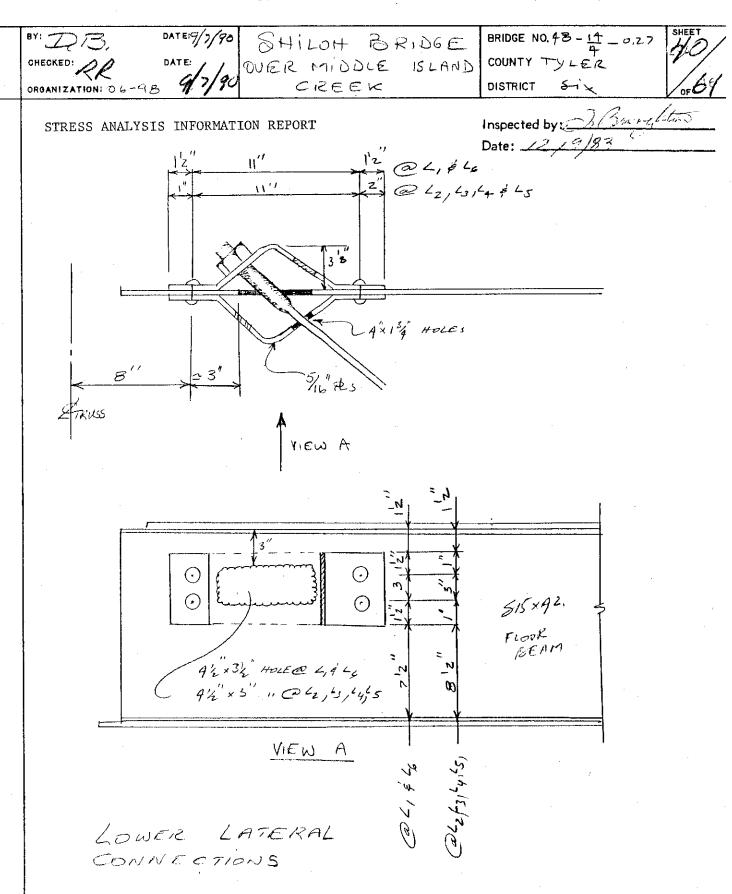


Form DS-27	S-27 STRUCTURES DĮVISION						
1-1-90	GENERAL SKETCH SHEET						
By: /3 /2 I	Date: 9/6/01	Ckd By: PR	Date: 9/8/01	Bridge No.:	18-14/4-0-27	Sheet 38061	
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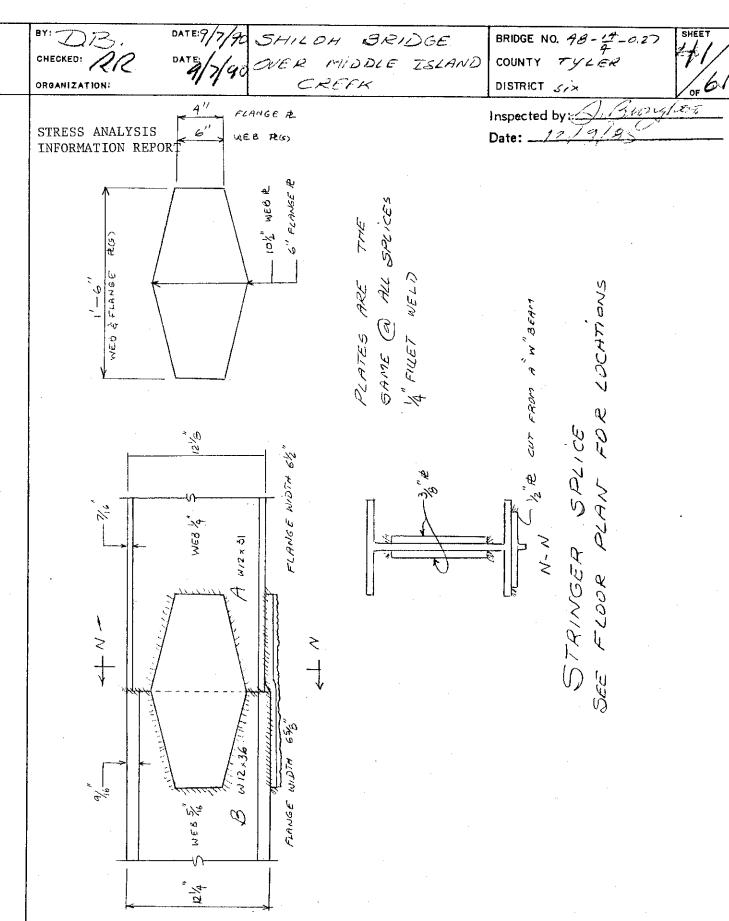
FORM MT-26 2-1-79

THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS



FORM MT-26 2-1-79

THE WEST VIRGINIA DEPARTMENT OF HIGHWAYS



STRUCTURES DIVISION

BY: DB, DATE: 9/7/90 SHICON BRIDGE NO. 98-14-0,2) SHEET

CHECKED: RR DATE: 1/90 NER MIDDLE IS LAW COUNTY TYLER

ORGANIZATION: 06-98 ORECE DISTRICT SIX OF 61

STRESS ANALYSIS INFORMATION REPORT

Inspected by:

