

***Rocksdale Bridge
Roane County
State Project # S344-11-9.29
Federal Project # ACST-0011(152)D
FR#: 14-1172-RO***

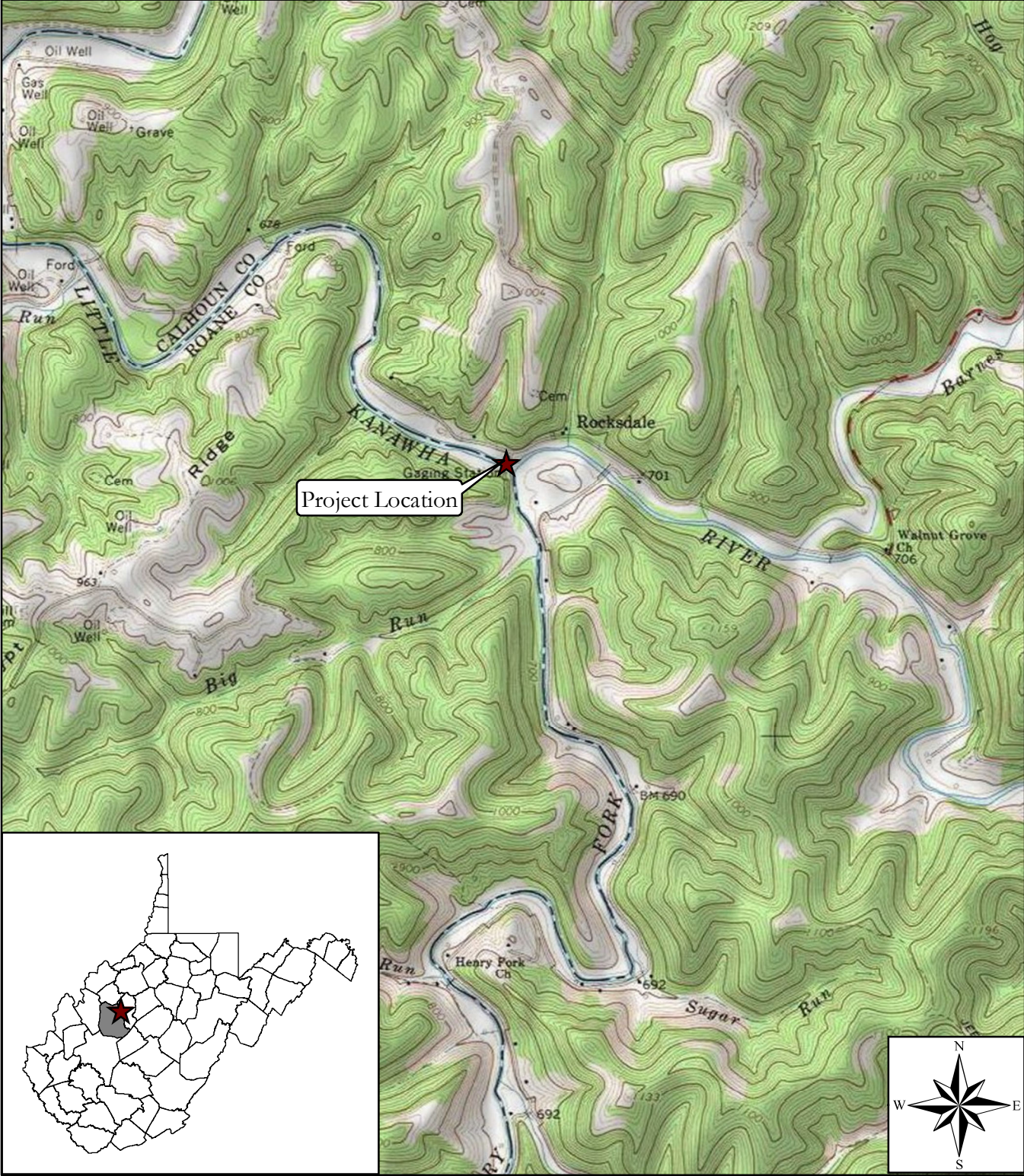


STATE LEVEL OF HISTORIC DOCUMENTATION

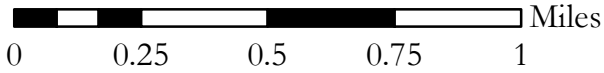
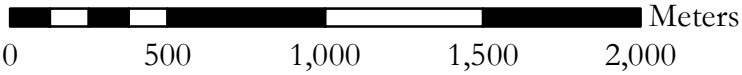
April 2015

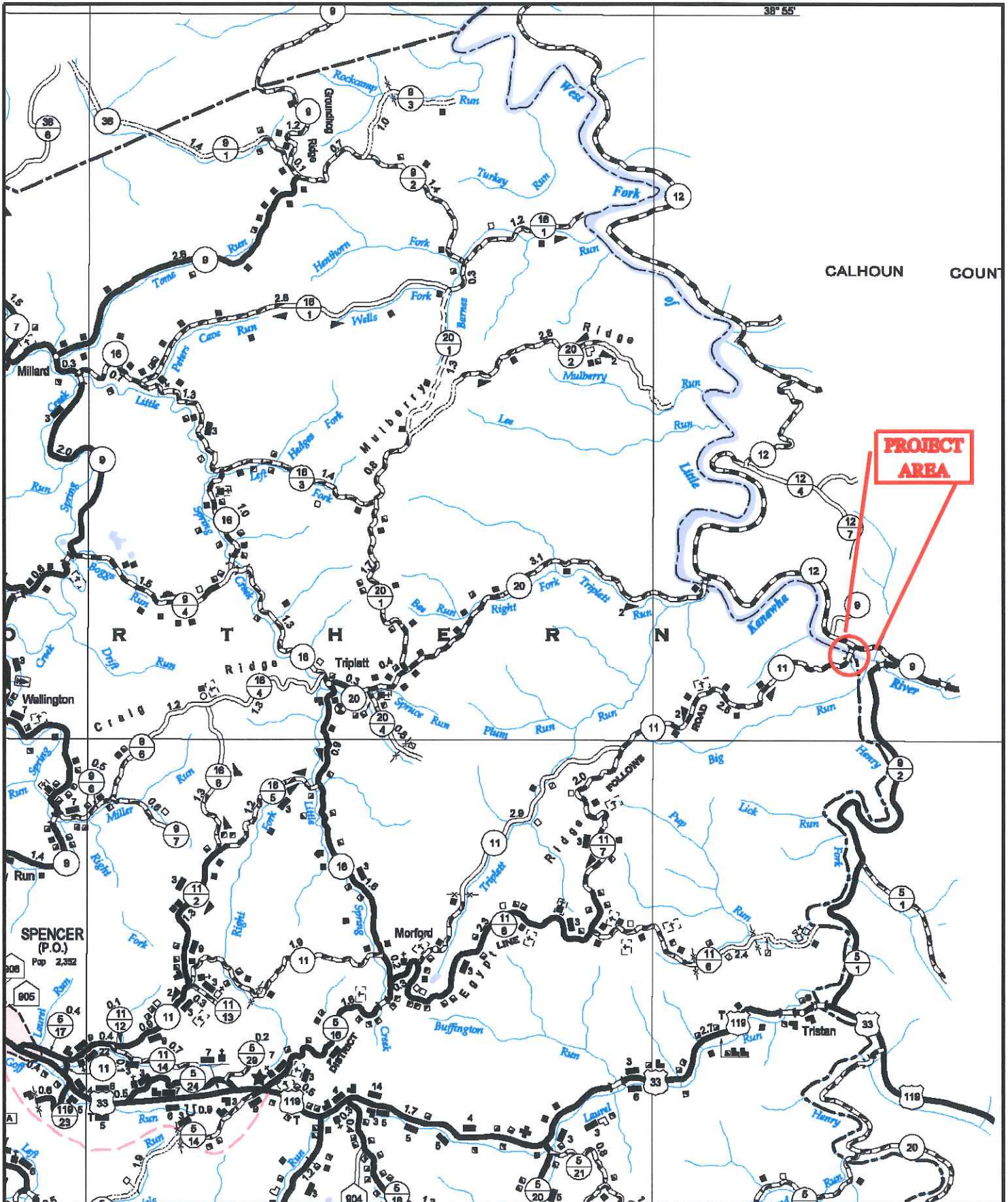
***West Virginia
Department of Transportation
Division of Highways
Engineering Division
Environmental Section
(304) 558-2885***

Rocksdale Bridge Replacement Project S344-11-9.29



Roane County
 Arnoldsburg
 7.5' Topographic Quadrangle



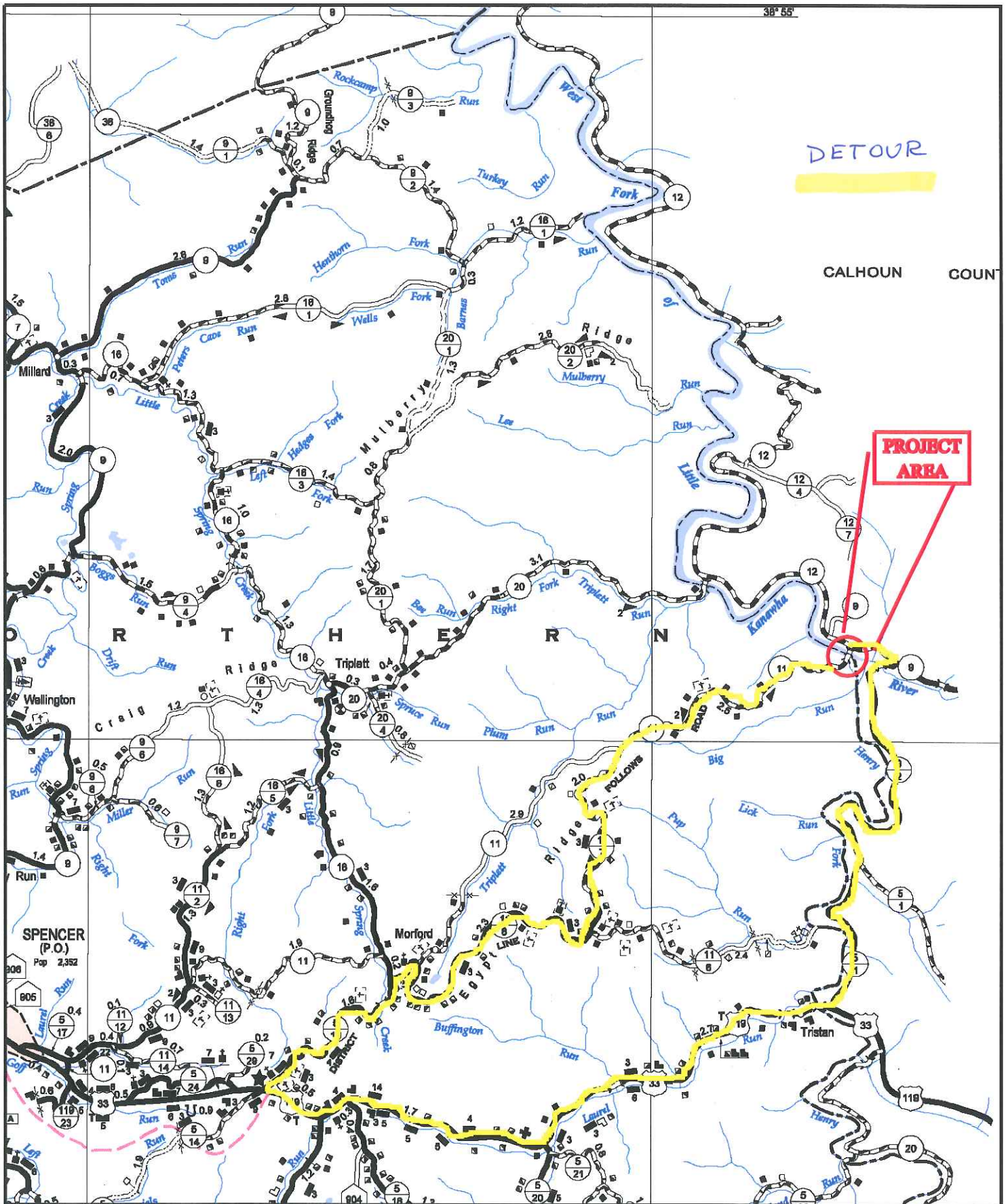


CALHOUN COUNTY

**PROJECT
AREA**

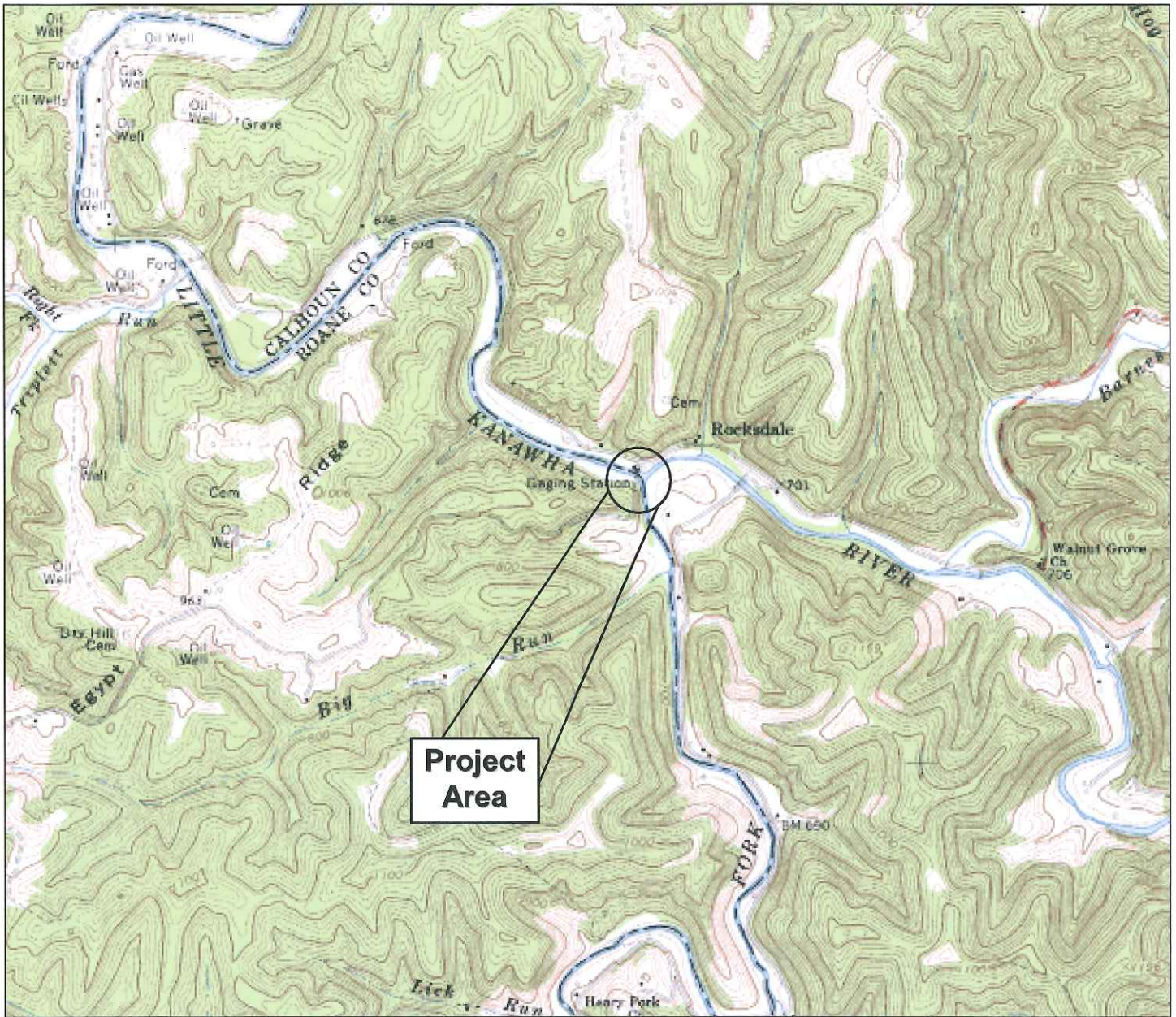
**BRIDGE REPLACEMENT STUDY
ROCKSDALE BRIDGE #44-11-9.29
PROJECT NO. S344-11-9.29
ROANE COUNTY
38° 50'37"N, 81° 13'16"W**

**WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT THREE BRIDGE DEPARTMENT**



BRIDGE REPLACEMENT STUDY
ROCKSDALE BRIDGE #44-11-9-29
PROJECT NO. S344-11-9-29
ROANE COUNTY
38° 50' 37"N, 81° 13' 16"W

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT THREE BRIDGE DEPARTMENT

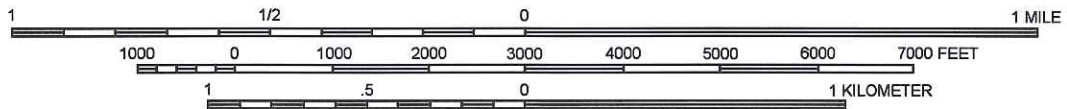


Project Area

Site Plan

Rocksdale Bridge #44-11-9.29

SCALE 1:24000



CONTOUR INTERVAL 20 FEET

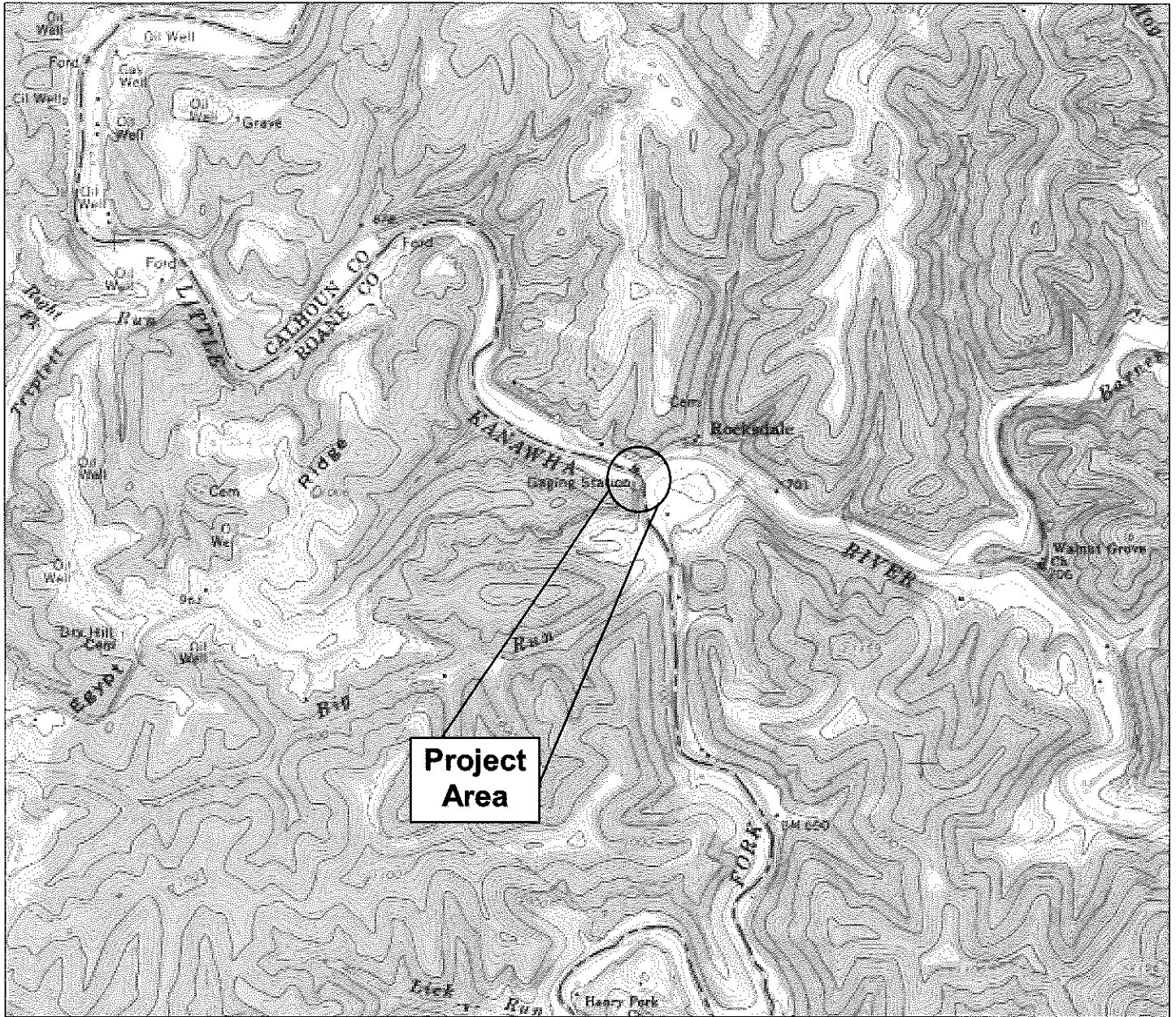
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

- | | | | |
|------------------|------------|------------------|--|
| Heavy-duty | | Light-duty | |
| Medium-duty | | Unimproved Route | |
| Interstate Route | U.S. Route | State Route | |



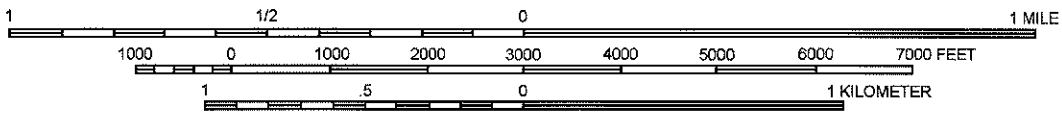
QUADRANGLE LOCATION



Project Area

**Site Plan
Rockdale Bridge #44-11-9.29**

SCALE 1:24000



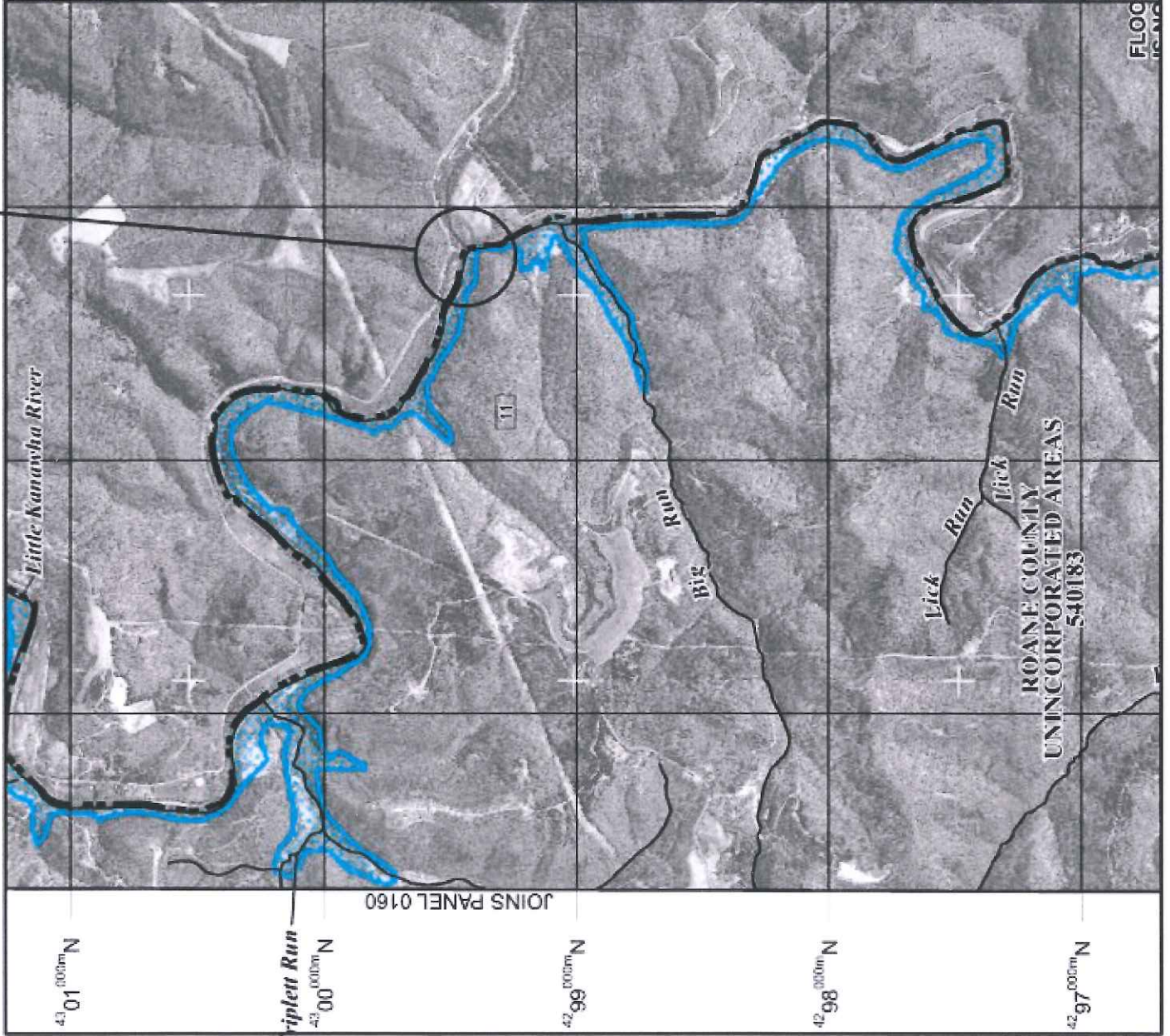
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION

- Heavy-duty
- Light-duty
- Medium-duty
- Unimproved Route
- Interstate Route
- U.S. Route
- State Route



Rocksdale Bridge
44-11-9.29



43° 01' 00.00m N

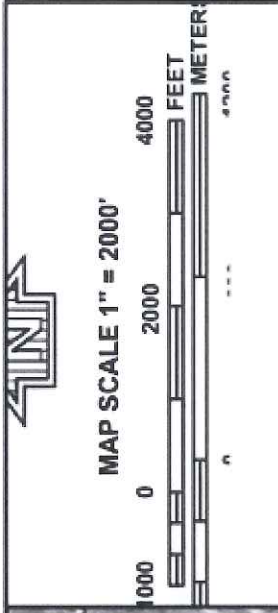
Triplet Run
43° 00' 00.00m N

JOINS PANEL 0160

42° 59' 00.00m N

42° 58' 00.00m N

42° 57' 00.00m N



NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0200D

FIRM
FLOOD INSURANCE RATE MAP
ROANE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 200 OF 430
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY NUMBER 540183
FIRM NUMBER 0200
FIRM EFFECTIVE DATE 03/02/12

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
54087C0200D
EFFECTIVE DATE
MARCH 2, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.msc.fema.gov

Rocksdale Bridge
44-11-9.29



STATE LEVEL HISTORIC DOCUMENTATION
ROCKSDALE BRIDGE

Location: West Virginia County Route 11, over West Fork of Little Kanawha River
Near Rocksedale
Roane County
West Virginia

USGS Arnoldsburg Quadrangle

Date of Construction: 1889

Builder: Unknown

Present Owner: West Virginia Department of Transportation
Division of Highways
1900 Kanawha Boulevard, Building 5, Room A-110
Charleston, WV 25305

Present Use: Vehicular Bridge

Significance: The Rocksedale Bridge is significant for its engineering design and technology

Project Information: The project has been undertaken due to the poor condition of the bridge. Any future deterioration of the bridge would result in its closure, the existing bridge warrants replacement. The documentation was undertaken in March 2015 in accordance with a Memorandum of Agreement among the West Virginia Department of Transportation and West Virginia State Historic Preservation Office. These measures are required prior to replacement of this National Register eligible structure.

Sondra L. Mullins, Structural Historian
West Virginia Division of Highways
Charleston, WV 25301
March 31, 2015

The Rocksdale Bridge is located in a rural area of Roane County on County Route 11, located 0.01 mile west of Calhoun County Route 9, over the West Fork of the Little Kanawha River. The bridge is a 14' x 164' single lane bridge built in 1889 by an unknown contractor and renovated in 1979 by State Forces. It consists of a camelback simple span riveted steel through truss (SSTT) supported by full height reinforced concrete abutments. The bridge railing is constructed of two 4" channel beams, which are either bolted or welded to the verticals. The existing road alignment is fair, with the bridge located in a curved section of roadway and not skewed. Roadway clearance is 13'8" and the vertical clearance is 12'2". The existing tar and chip approaches are 10'0" wide, with no defined stone shoulders. The average daily traffic (ADT) for this crossing is 10 (2013). Traffic consists of local residents and mail carriers.



During the bridge renovation in 1979 several main members were replaced and several new members were added. Over the years the bridge has been repaired several times. The bridge is listed as fracture critical and in need of replacement.

The Rocksdale Bridge is eligible for the National Register of Historic Places under Criterion C for its engineering significance as a Camelback through truss (innovation in design) and an early example of the use of metal as a significant technological advancement.

BIBLIOGRAPHY

KCI and Mead & Hunt. West Virginia Statewide Historic Bridge Survey: Final Survey Report. May 2014.

West Virginia Division of Highways, Bridge Files, Maintenance Division, Building 5, Capitol Complex, Charleston, West Virginia.

West Virginia Division of Highways, *Phase 1 Cultural Resources Management Report – Rocksdale Bridge*, Engineering Division, Building 5, Capitol Complex, Charleston, West Virginia, September 2014.

STATE LEVEL HISTORIC DOCUMENTATION
INDEX TO PHOTOGRAPHS

Rocksdale Bridge
Roane County Route 11
Near Rocksdales
Roane County, West Virginia

Photographer: Sondra Mullins

September 2014

| | |
|-----------|--|
| ROCKS -1 | Elevation view looking downstream |
| ROCKS -2 | End view looking east |
| ROCKS -3 | Deck of bridge and dome head bolts |
| ROCKS -4 | Vertical and diagonal bracing |
| ROCKS -5 | End view looking west |
| ROCKS -6 | Bridge railing |
| ROCKS -7 | Upper chord connection |
| ROCKS -8 | Vertical bracing |
| ROCKS -9 | Diagonal bracing |
| ROCKS -10 | Portal bracing |
| ROCKS -11 | Underneath the bridge |
| ROCKS -12 | Underneath deck of bridge on the upstream side |
| ROCKS -13 | Connection |
| ROCKS -14 | Underneath deck of bridge on the downstream side |
| ROCKS -15 | Graffiti on Abutment #1 |

No original plans exist for this bridge.

NATIONAL REGISTER EVALUATION INFORMATION

National Register Determination

Reason Not Evaluated

National Register Determination Date

This bridge displays an important design innovation or construction technique that represents a variation, evolution, or transition in bridge construction. This bridge exhibits an important technological advancement, demonstrating important engineering design or technology as a variation within its class. Although this bridge has undergone alterations, it still retains the historic integrity necessary to convey its engineering significance and, therefore, is eligible for the National Register under Criterion C.



West Virginia Historic Bridge Inventory Form
Form Prepared By Mead & Hunt and KCI
Form Preparation Date 2011



End view looking west



Bridge railing



Deck of bridge with dome head bolts



Upper chord connection



Milepost on bridge



End view looking east



Portal bracing



Underside of deck



Connection



Vertical bracing



Diagonal bracing



Abutment #2

**MEMORANDUM OF AGREEMENT
BY AND AMONG
THE FEDERAL HIGHWAY ADMINISTRATION,
THE WEST VIRGINIA STATE HISTORIC PRESERVATION OFFICER
AND THE WEST VIRGINIA DIVISION OF HIGHWAYS
REGARDING IMPLEMENTATION OF THE ROCKSDALE BRIDGE
REPLACEMENT PROJECT
STATE PROJECT #S344-11-9.29
FEDERAL PROJECT # ACST-0011(152)D
ROANE COUNTY, WEST VIRGINIA
FEBRUARY 2015**

WHEREAS, the Federal Highway Administration (FHWA), in cooperation with the West Virginia Division of Highways (WVDOH), proposes to replace Rocksdale Bridge which spans West Fork of the Little Kanawha River in Roane County, hereinafter referred to as the Project. The improvements involve the construction of a new bridge at the existing location and the removal of the existing bridge; and

WHEREAS, the FHWA has determined that the Project will have an adverse effect upon the Rocksdale Bridge, a property eligible for the National Register of Historic Places (NRHP); and

WHEREAS, the FHWA has consulted with the West Virginia State Historic Preservation Officer (WVSHPO) pursuant to 36 CFR Part 800 Implementing Section 106 of the National Historic Preservation Act; (16 U.S.C., 470f); and

WHEREAS, the FHWA has determined that the Project will not affect archaeological properties; and

WHEREAS, The WVDOH has contacted the Preservation Alliance of West Virginia, Calhoun County WV Gen Web, and the Roane County Historical Society; and

WHEREAS, in accordance with 36 CFR 800.6 (a) (1), the FHWA has notified the Advisory Council on Historic Preservation (ACHP) of its adverse effect determination providing the specified documentation, and the ACHP has chosen not to participate in the consultation pursuant to 36 CFR 800.6 (a) (1) (iii);

NOW, THEREFORE, the FHWA, the WVSHPO, and the WVDOH agree that the undertaking will be implemented in accordance with the following stipulations in order to take into account the effects of the undertaking on historic properties.

STIPULATIONS

The FHWA shall ensure that the following stipulations are carried out:

Rocksdale Bridge

- I. Rocksdale Bridge will be documented in its present historic setting. The documentation package will include 5"x7" black and white digital prints in accordance with the National Register of Historic Places and National Historic Landmarks Survey Photo Policy Expansion of May 2013.
- II. A brief history of the structure will be included along with fully completed West Virginia Historic Property Inventory forms and a copy will be provided to the Roane County Library in Spencer.
- III. 100 color brochures of the Rocksdale Bridge will be developed by WVDOH and distributed to the Roane County Public Library in Spencer. The WVSHPO will be given the opportunity to review all educational materials developed for this stipulation. A CD containing the brochure will also be given to the library to print brochures when the original total has been exhausted.
- IV. The Rocksdale Bridge will be featured on a future website listing historic bridges.

V. Duration

This MOA will expire if its stipulations are not carried out within five (5) years from the date of its execution. At such time, and prior to work continuing on the undertaking, the FHWA shall either (a) execute an MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. Prior to such time, FHWA may consult with other signatories to reconsider the terms of the MOA and amend it in accordance with Stipulation IX below. FHWA shall notify the signatories as to the course of action it will pursue.

VI. Post-Review Discoveries

If any unanticipated discoveries of historic properties or archaeological sites, including human burial sites and/or skeletal remains, are encountered during the implementation of this undertaking, work shall be suspended in the area of the discovery until the WVDOH has developed and implemented an appropriate treatment plan in consultation with the WVSHPO pursuant to 36 CFR 800.13 (b).

VII. Monitoring and Reporting

Each year following the execution of this MOA until it expires or is terminated, FHWA shall provide all parties to this MOA a summary report detailing work carried out pursuant to its terms. Such report shall include any scheduling changes proposed, any problems encountered, and any disputes and objections received in FHWA's efforts to carry out the terms of this MOA.

VIII. Dispute Resolution

Should any signatory or concurring party to this MOA object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, FHWA shall consult with such party to resolve the objection. If FHWA determines that such objection cannot be resolved, FHWA will:

- A. Forward all documentation relevant to the dispute, including the FHWA's proposed resolution, to the ACHP. The ACHP shall provide FHWA with its advice on the resolution of the objection within thirty (30) days of receiving adequate documentation. Prior to reaching a final decision on the dispute, FHWA shall prepare a written response that takes into account any timely advice or comments regarding the dispute from the ACHP, signatories and concurring parties, and provide them with a copy of this written response. FHWA will then proceed according to its final decision.
- B. If the ACHP does not provide its advice regarding the dispute within the thirty (30) day time period, FHWA may make a final decision on the dispute and proceed accordingly. Prior to reaching such a final decision, FHWA shall prepare a written response that takes into account any timely comments regarding the dispute from the signatories and concurring parties to the MOA, and provide them and the ACHP with a copy of such written response.
- C. FHWA's responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged.

IX. Amendments

This MOA may be amended when such an amendment is agreed to in writing by all signatories. The amendment will be effective on the date a copy signed by all of the signatories is filed with the SHPO.

X. Termination

If any signatory to this MOA determines that its terms will not or cannot be carried out, that party shall immediately consult with the other parties to attempt to develop an amendment per Stipulation VIII, above. If within thirty (30) days (or another time period agreed to by all signatories) an amendment cannot be reached, any signatory may terminate the MOA upon written notification to the other signatories.

Once the MOA is terminated, and prior to work continuing on the undertaking, FHWA must either (a) execute a MOA pursuant to 36 CFR 800.6, or (b) request, take into account, and respond to the comments of the ACHP under 36 CFR 800.7. FHWA shall notify the signatories as to the course of action it will pursue.

EXECUTION of the Memorandum of Agreement by the FHWA, WWSHPO, the WVDOT and the Council, and implementation of its terms evidence that the FHWA has afforded the Council an opportunity to comment on the Rocksdale Bridge Replacement project and its effects on historic properties, and that the FHWA has taken into account the effects of the undertaking on the historic properties.

Signatories Page

Federal Highway Administration

Date

Susan M. Pierce

2-24-15

West Virginia Deputy State Historic Preservation Officer

Date

APPROVED:

Advisory Council on Historic Preservation

Date

CONCUR:

Paul A. Mattox, Jr.

3/12/15

West Virginia Division of Highways

Date