Historic Bridge Survey and Comprehensive Mitigation



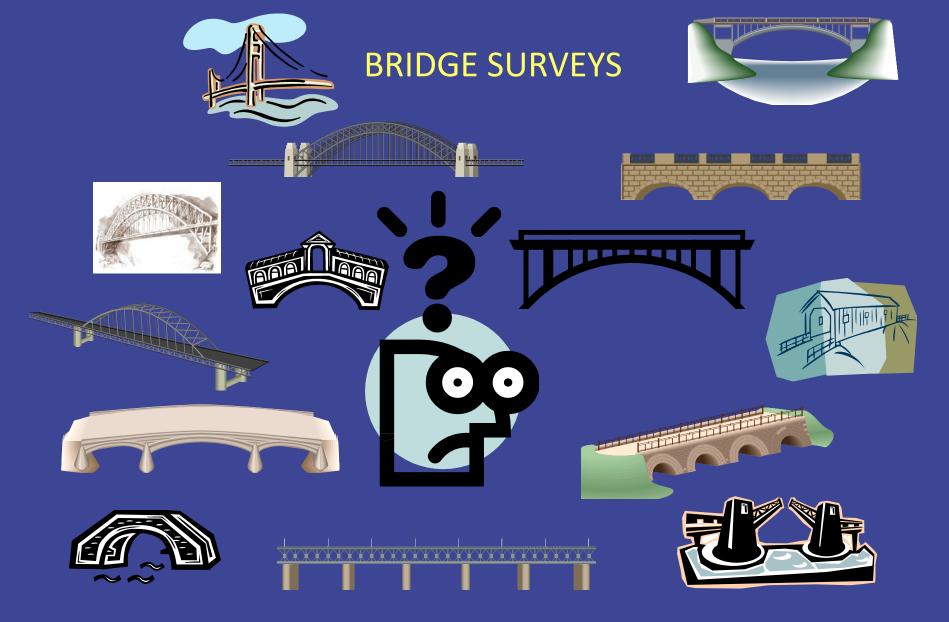
WVDOT/MPO/FHWA
PLANNING CONFERENCE

GLADE SPRINGS, WEST VIRGINIA September 20-22, 2011

PRESENTATION OUTLINE

- The West Virginia Statewide Historic Bridge Survey
- Comprehensive Mitigation
 - Bridge Management Plan
 - Other mitigation measures





ASPECTS OF THE SURVEY

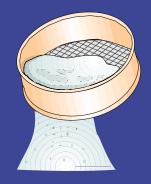


Research and Write Historic Context

Develop evaluation system



Perform field survey of bridges and evaluate



Narrow down the field using historic context, public comment.



DRAFT EVALUATION SYSTEM

Criterion A – Association with Significant Events

Early Roads and Turnpikes

Growth of Industries

Transportation Improvements

Railroads

Early Twentieth Century Transportation Improvements

Commemorative/Memorial Bridge

City Beautiful Movement

Federal Aid and State Legislation for Roads

CCC/WPA

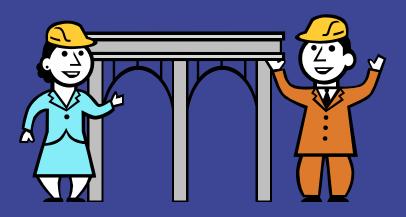
World War II

DRAFT EVALUATION SYSTEM

- Criterion C Design and Construction
- Distinctive type, period, or method of construction
 - + Heavy timber covered bridges
 - + Stone arches
 - + Wrought iron trusses
 - + Patented truss design
- Work of a master
 - + Locally, regionally, or nationally known bridge companies.

BRIDGE SURVEY OUTCOMES

- A "big picture" of our state's historic assets
- An agreed-upon list of historic bridges to aid in project planning and execution
- A method to evaluate bridges in the future
- A comprehensive bridge management plan



HISTORY OF THE WV BRIDGE SURVEY





- •Transportation Enhancement Grant (co-sponsors WVDOH & WVSHPO) awarded on 10/18/2004
- KCI awarded the Historic Bridge Survey in 2004
- List of bridges recommended not eligible to the SHPO in 2008.
- •February 2008, Letter to Historic Groups about the bridge survey
- 5 Public Meetings held in March 2008
- Revised survey forms in 2009
- Field work begins in 2009
- Results of the field work starting in March 2011

Surveyed and Eligible Bridges





WV DOH

The Culture Center 1900 Kanawha Blvd., E. Charleston, WV 25305-0300

Randall Reid-Smith, Commissioner Phone 304.558.0220 • www.wvculture.org Fax 304.558.2779 • TDD 304.558.3562

August 8, 2011

Mr. Ben L. Hark, Environmental Section Head WV Department of Transportation Division of Highways Building Five, Room 110 1900 Kanawha Blvd., East Charleston, WV 25305-0430

Re: Statewide Historic Bridge Survey S699-HIS/BR-1.00 BR-2004(029) E

Dear Mr. Hark:

We have received the preliminary eligibility results for the following bridge types for the Statewide Historic Bridge Survey:

concrete slab concrete girder/floorbeam prestressed concrete stringer/multi-beam/girder concrete tee beam concrete stringer/multi-beam/girder timber stringer/multibeam/girder

We have completed our review and agree with the National Register eligibility determination for each documented bridge under Criterion C: Engineering. Please know that we did not review the bridges for their eligibility under Criterion A. We understand that eligibility determinations under Criterion A are occurring separately.

Should you have any questions regarding our review, please let us know. We can be reached at 304.558.0240.

Susan

Deputy State Historic Preservation Officer

SMP/EMR

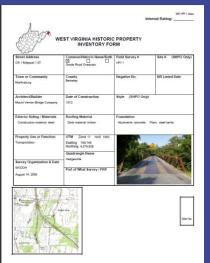
- •2,777 bridges were evaluated as part of the bridge survey
- •803 were field surveyed ...eligibility of the bridges is still ongoing. Current numbers look to have approximately 300 eligible bridges.
- •In early 2011 began the webinars with consultants (KCI, Mead & Hunt) on the eligibility results of the bridges
- August 2011 cleared the following bridge types:
- 1. concrete slab,
- concrete girder/floorbeam, prestressed concrete stringer/multi-beam/girder
- concrete t-beam
- 4. concrete stringer/multi-beam/girder
- 5. timber/multi-beam/girder bridges with a concurrence letter from the SHPO.

TYPICAL MITIGATION



Donating bridge plates





Documentation on paper

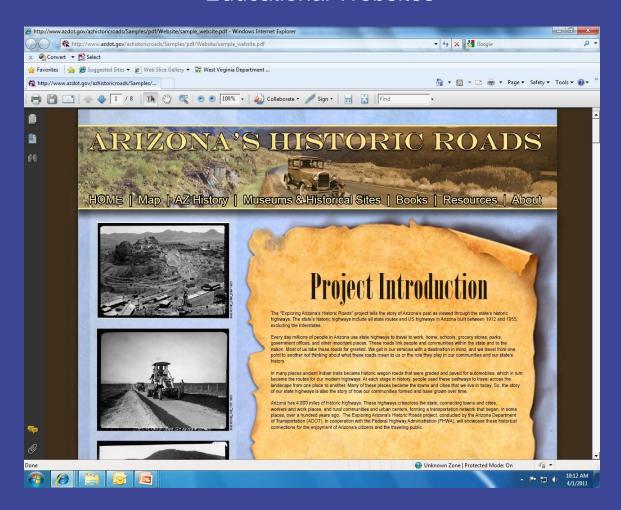


Funds for preservation projects

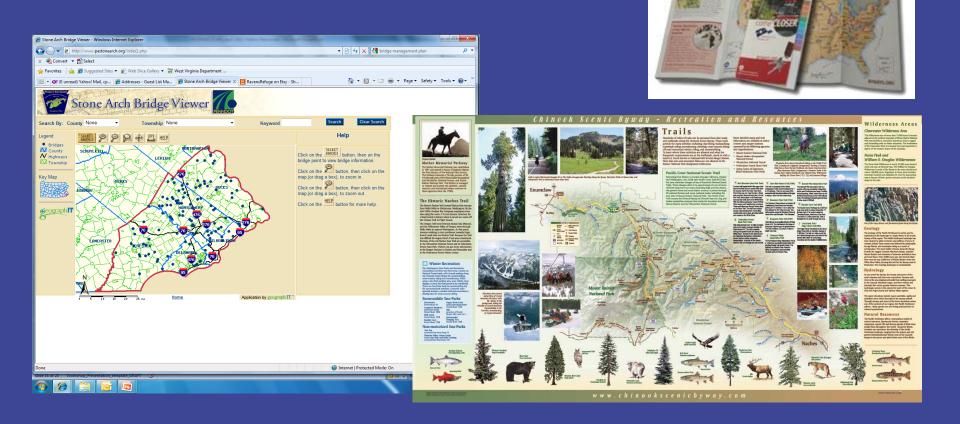


Roadside signs or monuments

Educational Websites



Maps



Other Ideas

Training in transportation and cultural resources for personnel, consultants and others.



Outreach to public schools, museums, libraries and others, e.g. traveling exhibits.

Publications (electronic and paper) of research results, documentation, photographs and other materials.

Grant program for preservation projects.





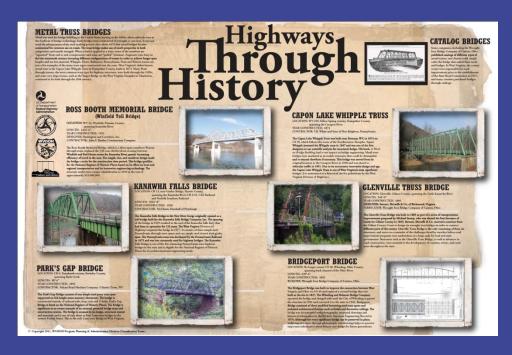




Toolkit: Branded Brochures, Posters, Signs, Kiosks, Postcards



Combining mitigation funds and resources for multiple projects means better quality and greater benefit to the public.



Eligibility known up front for planning purposes.

Additional review may be necessary, but framework is in place.

Input from many different experts and others make the plan feasible.

Some bridges are actually preserved.

Others can be replaced with less argument.