HistoricBridges.org - National Bridge Inventory Data Sheet

2013 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

West Virginia [54]	Preston County [077]	Unknown [00000]	2.10 MI EAST CO RT 21	03-93-54.11 = 4.565031	079-44-53.77 = -79.748269

00000000039A039 | Highway agency district: 4 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 1404 | | PRESTON CO RT 14/4 | Toll: On free road [3] | Features intersected: CHEAT RIVER

Design - main	Steel [3]	Design - approach	
1	Truss - Thru [10]	0	Other [00]

Kilometerpoint: 337.9 km = 209.5 mi

Year built: 1912 | Year reconstructed: N/A [0000]

Skew angle: 0 | Structure Flared:

Historical significance: Historical significance is not determinable at this time. [4]

Total length: 68.4 m = 224.4 ft | Length of maximum span: 67.1 m = 220.2 ft | Deck width, out-to-out: 4.9 m = 16.1 ft | Bridge roadway width, curb-to-curb: 4.7 m = 15.4 ft

Inventory Route, Total Horizontal Clearance: 4.7 m = 15.4 ft | Curb or sidewalk width - left: 0 m = 0.0 ft | Curb or sidewalk width - right: 0 m = 0.0 ft

Deck structure type: Wood or Timber [8]

Type of wearing surface:

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 3.7 km = 2.3 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 10.9 metric ton = 12.0 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 18.1 metric ton = 19.9 tons

Bridge posting: | Design Load:

Functional Details

Average Daily Traffic	10	Average daily truck traffi	0 %	Year	2011	Future average daily traffic	12	Year	2031

Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	3 m = 9.8 ft
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A		
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.93 m = 16.2 ft		
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]				
Minimum lateral underclearance on right	99.9 = Unlimited	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]		
Appraisal ratings - underclearances	N/A [N]				

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	4854000	Roadway improvement cost	653000
Length of structure improvement	77.1 m = 253.0 ft	Total project cost	5783000
Year of improvement cost estimate	2012		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Better than present minimum criteria [7]
Condition ratings - deck	Very Good [8]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]

Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	30.9

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	June 2012 [0612]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	June 2012 [0612]
Other special inspection	Every year [Y12]	Other special inspection date	June 2012 [0612]