

HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportation 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

Missouri [29]	Cooper County [053]	Blackwater [06166]	S 12 T 48 N R 19 W	38-56-18 = 38.938333	092-56-36 = - 92.943333
4610	Highway agency district 5	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route #Num!		RT M S	Toll On free road [3]	Features intersected LAMINE RVR	
Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	418.8 km = 259.7 mi
1	Truss - Thru [10]	2	Truss - Thru [10]	Year built	1924
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length	105.8 m = 347.1 ft	Length of maximum span	55.3 m = 181.4 ft	Deck width, out-to-out	6.4 m = 21.0 ft
Inventory Route, Total Horizontal Clearance	6.1 m = 20.0 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	18 metric ton = 19.8 tons
3.5 km = 2.2 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	27 metric ton = 29.7 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	396	Average daily truck traffi	12	%	Year	2009	Future average daily traffic	534	Year	2030
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	6.1 m = 20.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		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	4.37 m = 14.3 ft			
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A					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	Work done by	Work to be done by contract [1]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	1502000	Roadway improvement cost	150000
	Length of structure improvement	11.5 m = 37.7 ft	Total project cost	2254000
	Year of improvement cost estimate	2010		
	Border bridge - state		Border bridge - percent responsibility of other state	
	Border bridge - structure number			

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]		
Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	31.4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	October 2010 [1010]	Designated inspection frequency	12 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	April 2010 [0410]
Other special inspection	Not needed [N]	Other special inspection date	