HistoricBridges.org - National Bridge Inventory Data Sheet

2012 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

Iowa [19]	Buchanan County [019]	Unknown [03665]	#Num!	42-27-33 = 42.459167	091-53-27 = -91.890833

15950	Highway agency district	6	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]

Route	150	IA 150	Toll	On free road [3]	Features intersected	WAPSIPINICON RIVER

Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint	1784.5 km = 1106.4 mi
4	Arch - Deck [11]	0	Other [00]	Year built	1927	Year reconstructed	1999
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]		

Total length	103.9 m = 340.9 ft	Length of maximum span	26.5 m = 86.9 ft	Deck width, out-to-out	13.2 m = 43.3 ft	Bridge roadway width, curb-to-curb	9.8 m = 32.2 ft

Inventory Route, Total Horizontal Clearance	9.8 m = 32.2 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	8 m = 26.2 ft

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	32.7 metric ton = 36.0 tons
0.5 km = 0.3 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	44.4 metric ton = 48.8 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	10800	Average daily truck traffi	6 %	Year	2011	Future average daily traffic	13848
Year	2030						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	2	Approach roadway width	12.2 m = 40.0 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	99.99 m = 328.1 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

Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	0 m = 0.0 ft	Total project cost	
Year of improvement cost estimate			
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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	
Pier or abutment protection		Sufficiency rating	89.2

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 2010 [0610]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2009 [0809]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	