HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Kossuth County [109]	Unknown [00000]	942936	42-55-20 = 42.922222	094-13-30 = -94.225000

214040	Highway agency district: 2	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		

Route: 0		LOC 100TH ST	Toll: On free road [3]	Features intersected: E FORK DES MOINES RIVER	

Design - main: Steel [3]	Design - approach: Steel [3]	Kilometerpoint: 0 km = 0.0 mi			
1	Truss - Thru [10]	4	Stringer/Multi-beam or girder [02]	Year built: 1895	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is possibly eligible for the NRHP. [3]	

Total length: 59.5 m = 195.2 ft	Length of maximum span: 30.5 m = 100.1 ft	Deck width, out-to-out: 5.2 m = 17.1 ft	Bridge roadway width, curb-to-curb: 4.7 m = 15.4 ft		
Inventory Route, Total Horizontal Clearance: 4.6 m = 15.1 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	Wood or Timber [7]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length: 0.5 km = 0.3 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 2.7 metric ton = 3.0 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 2.8 metric ton = 3.1 tons			
	Bridge posting:	Design Load:			

Functional Details

Average Daily Traffic	35	Average daily truck traffi	2 %	Year	2007	Future average daily traffic	42	Year	2029

Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	7.9 m = 25.9 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	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	4.42 m = 14.5 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

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	230000	Roadway improvement cost	23000
Length of structure improvement	70.1 m = 230.0 ft	Total project cost	345000
Year of improvement cost estimate			
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 replacement [2]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Equal to present minimum criteria [6]
Condition ratings - deck	Fair [5]		
Scour	Bridge with "unknown" foundation that has not been evaluated for scour. [U]		
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	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	21.9
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	January 2009 [0109]	Designated inspection frequency	12	Months	
Underwater inspection	Unknown [N00]			Underwater inspection date	
Fracture critical inspection	Every year [Y12]			Fracture critical inspection date	January 2009 [0109]
Other special inspection	Unknown [N00]			Other special inspection date	