HistoricBridges.org - National Bridge Inventory Data Sheet

2015 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

Missouri [29]	St. Louis city [510]	St. Louis [65000]	S 00 T 00N R 0E	38-37-45.20 = 38.629222	090-10-55.88 = -90.182189

12992	Highway agency district: 5	Owner: Other Local Agencies [25]	Maintenance responsibility: City or Municipal Highway Agency [04]		
Route: 0		EADS BRIDGE	Toll: On free road [3]	Features intersected: MISSISSIPPI RVR, METROL	
Design - main: Steel [3]		Design - approach: Steel [3]		Kilometerpoint: 112.7 km = 69.9 mi	
3	Arch - Deck [11]	84	Girder and floorbeam system [03]	Year built: 1874	Year reconstructed: 2003
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is on the NRHP. [1]	

Total length	1221.3 m = 4007.1 ft	Length of maximum span	168.4 m = 552.5 ft	Deck width, out-to-out	15.2 m = 49.9 ft	Bridge roadway width, curb-to-curb	14 m = 45.9 ft
Inventory Route, Total Horizontal Clearance	14 m = 45.9 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	1.5 m = 4.9 ft		

Deck structure type	Closed Grating [4]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	32.4 metric ton = 35.6 tons	
0.5 km = 0.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	52.2 metric ton = 57.4 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	2000	Average daily truck traffi	5 %	Year	2014	Future average daily traffic	2700	Year	2034

Road classification	Minor Arterial (Urban) [16]	Lanes on structure	4	Approach roadway width	14 m = 45.9 ft
Type of service on bridge	Highway-railroad [4]	Direction of traffic	2 - way traffic [2]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Highway-waterway-railroad [8	Lanes under structure	4	Navigation control	Navigation control on waterway (bridge permit required). [1]
Navigation vertical clearanc	16.7 m = 54.8 ft	Navigation horizontal clearance	168.4 m = 552.5 ft		
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

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	46939000	Roadway improvement cost	4693000
Length of structure improvement	122.1 m = 400.6 ft	Total project cost	70409000
Year of improvement cost estimate	2015		
Border bridge - state	Unknown [175]	Border bridge - percent responsibility of other state	1
Border bridge - structure number	82992918170		

Inspection and Sufficiency

Structure status	Posted for load [P]	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 minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		

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	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	53

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	April 2014 [0414]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2014 [0914]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2014 [1114]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

Illinois [17]	St. Clair County [163]	Applegate [01660]	E ST LOUIS	38-37-44.09 = 3	090-10-43.26 = -9

82992900000000 | Highway agency district: 8 | Owner: Private (other than railroad) [26] | Maintenance responsibility: Private (other than railroad) [26]

Route: 0 | FAU 9187A & MET LI | Toll: On free road [3] | Features intersected: MISS RIV/RR/MSS6000

Design - main	Steel [3]	Design - approach	
4	Other [00]	41	Other [00]

Kilometerpoint: 1.6 km = 1.0 mi

Year built: 1874 | Year reconstructed: 2003

Skew angle: 0 | Structure Flared:

Historical significance: Bridge is on the NRHP. [1]

Total length: 1112.8 m = 3651.1 ft | Length of maximum span: 158.5 m = 520.0 ft | Deck width, out-to-out: 15.4 m = 50.5 ft | Bridge roadway width, curb-to-curb: 12.2 m = 40.0 ft

Inventory Route, Total Horizontal Clearance: 15.2 m = 49.9 ft | Curb or sidewalk width - left: 1.8 m = 5.9 ft | Curb or sidewalk width - right: 1.8 m = 5.9 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi

Method to determine inventory rating: Allowable Stress (AS) rating reported b | Inventory rating: 89.1 metric ton = 98.0 tons

Method to determine operating rating: Allowable Stress (AS) rating reported b | Operating rating: 89.1 metric ton = 98.0 tons

Bridge posting: Equal to or above legal loads [5] | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	7100	Average daily truck traffi	1 %	Year	2014	Future average daily traffic	11820
Year	2032						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	4	Approach roadway width	12.5 m = 41.0 ft		
Type of service on bridge	Highway-railroad [4]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Highway-waterway-railroad [8	Lanes under structure	2	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	9.8 m = 32.2 ft	Navigation horizontal clearance	157.6 m = 517.1 ft				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	30.4 m = 99.7 ft	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	99.99 m = 328.1 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Superior to present desirable criteria [9]						

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	8850000	Roadway improvement cost	885000
Length of structure improvement	1112.8 m = 3651.1 ft	Total project cost	9735000
Year of improvement cost estimate			
Border bridge - state	Unknown [297]	Border bridge - percent responsibility of other state	99
Border bridge - structure number	#Num!		

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
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	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	68.5
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	May 2010 [0510]	Designated inspection frequency	24	Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	December 2009 [1209]	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date		
Other special inspection	Not needed [N]	Other special inspection date		