

HistoricBridges.org - National Bridge Inventory Data Sheet

2015 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

Kansas [20]	Wyandotte County [209]	Kansas City [36000]	0.55 MILES N I-35	39-04-31.00 = 39.075278	094-37-28.00 = -94.624444
999916901050721	Highway agency district: 13	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 169	US-169 HIGHWAY NB	Toll On free road [3]	Features intersected KS RIVER,RR YARD,3 STR		
Design - main Steel continuous [4]	Design - approach Prestressed concrete continuous [6]	Kilometerpoint 27218.2 km = 16875.3 mi	Year built 1933	Year reconstructed 1993	
3	Truss - Deck [09]	16	Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared
		Historical significance Bridge is not eligible for the NRHP. [5]			
Total length 615.1 m = 2018.1 ft	Length of maximum span 101.8 m = 334.0 ft	Deck width, out-to-out 11.8 m = 38.7 ft	Bridge roadway width, curb-to-curb 9.1 m = 29.9 ft		
Inventory Route, Total Horizontal Clearance 9.1 m = 29.9 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	Not applicable [N]				
Type of wearing surface	Low slump Concrete [4]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi	Method to determine inventory rating Load Factor(LF) [1]	Inventory rating 25.9 metric ton = 28.5 tons
	Method to determine operating rating Load Factor(LF) [1]	Operating rating 44 metric ton = 48.4 tons
Bridge posting Equal to or above legal loads [5]	Design Load MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	11350	Average daily truck traffi	6	%	Year	2014	Future average daily traffic	12541	Year	2034
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	2	Approach roadway width	9.1 m = 29.9 ft				
Type of service on bridge	Highway [1]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The right structure of parallel bridges carrying the roadway in the direction of the inventory. [R]									
Type of service under bridge	Highway-waterway-railroad [8]		Lanes under structure	6	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	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.3 m = 1.0 ft				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	6.76 m = 22.2 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]								
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost	1392000	Roadway improvement cost	139000						
	Length of structure improvement	615.1 m = 2018.1 ft		Total project cost	2089000					
	Year of improvement cost estimate	2015								
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

Inspection and Sufficiency

Structure status	Posted for other load-capacity restriction [R]	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	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		
Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]		
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 minimum criteria [6]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	56.9
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	May 2014 [0514]	Designated inspection frequency	23 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2010 [0910]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2013 [0513]
Other special inspection	Every two years [Y24]	Other special inspection date	October 2013 [1013]