

# 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](http://www.historicbridges.org). Data Conversion Assistance By [www.bridgehunter.com](http://www.bridgehunter.com). None of the involved parties make any guarantee of accuracy.

## Basic Information

Missouri [29]	Clay County [047]	Kansas City [38000]	S 31 T 50 N R 33 W	39-06-42.34 = 39.111761	094-35-21.70 = -94.589361
3807	Highway agency district: 3	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 169		US 169 S	Toll On free road [3]	Features intersected MISSOURI RVR, CST FOURTH	
Design - main	Steel [3]	Design - approach	Steel continuous [4]	Kilometerpoint	20150.3 km = 12493.2 mi
3	Arch - Thru [12]	13	Stringer/Multi-beam or girder [02]	Year built	1955
				Year reconstructed	1988
				Skew angle	5
				Structure Flared	Yes, flared [1]
				Historical significance	Historical significance is not determinable at this time. [4]
Total length	842.5 m = 2764.2 ft	Length of maximum span	164.6 m = 540.1 ft	Deck width, out-to-out	16.9 m = 55.4 ft
Inventory Route, Total Horizontal Clearance	14.6 m = 47.9 ft	Curb or sidewalk width - left	0.8 m = 2.6 ft	Curb or sidewalk width - right	0.8 m = 2.6 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Low slump Concrete [4]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	22.5 metric ton = 24.8 tons
0.1 km = 0.1 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	37.8 metric ton = 41.6 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

## Functional Details

Average Daily Traffic	32584	Average daily truck traffi	10	%	Year	2014	Future average daily traffic	58651	Year	2035
Road classification	Principal Arterial - Other Freeways or Exp		Lanes on structure	4		Approach roadway width	14.6 m = 47.9 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		Bridge median	Closed median (no barriers) [2]			
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	15.8 m = 51.8 ft		Navigation horizontal clearance	152.4 m = 500.0 ft						
Minimum navigation vertical clearance, vertical lift bridge						Minimum vertical clearance over bridge roadway	4.42 m = 14.5 ft			
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	3 m = 9.8 ft					Minimum lateral underclearance on left	0 = N/A			
Minimum Vertical Underclearance	7.62 m = 25.0 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	Equal to present minimum criteria [6]									

## 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	61774000	Roadway improvement cost	6177000
	Length of structure improvement	84.2 m = 276.3 ft	Total project cost	92661000
	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	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - superstructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Better than present minimum criteria [7]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge is scour critical; bridge foundations determined to be unstable. [3]"/>		
Channel and channel protection	<input type="text" value="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	<input type="text" value="Equal to present desirable criteria [8]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text" value="In place and functioning [2]"/>	Sufficiency rating	<input type="text" value="38.2"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="July 2013 [0713]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Unknown [Y60]"/>	Underwater inspection date	<input type="text" value="April 2013 [0413]"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="July 2013 [0713]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>