HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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

Florida [12]	Duval County [031]	Jacksonville [35000]	SR-10A / ST. JOHNS RIVER	30-19-38.00 = 30.327222	081-37-21.00 = -81.622500

720076	Highway agency district	2	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	#Num!		SR-10A (MATHEWS)	Toll	On free road [3]	Features intersected	ST. JOHNS RIVER & USA-1

Design - main	Steel continuous [4]	Design - approach	Steel [3]	Kilometerpoint	2120.6 km = 1314.8 mi		
6	Truss - Thru [10]	59	Girder and floorbeam system [03]	Year built	1953	Year reconstructed	N/A [0000]
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is possibly eligible for the NRHP. [3]		

Total length	2248.1 m = 7376.0 ft	Length of maximum span	246.9 m = 810.1 ft	Deck width, out-to-out	17.7 m = 58.1 ft	Bridge roadway width, curb-to-curb	14.9 m = 48.9 ft
Inventory Route, Total Horizontal Clearance	7.5 m = 24.6 ft	Curb or sidewalk width - left	0.6 m = 2.0 ft	Curb or sidewalk width - right	0.6 m = 2.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load and Resistance Factor(LRFR) [3]	Inventory rating	23.9 metric ton = 26.3 tons	
0.8 km = 0.5 mi	Method to determine operating rating	Load and Resistance Factor(LRFR) [3]	Operating rating	32.7 metric ton = 36.0 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	HL93 [A]	

Functional Details

Average Daily Traffic	67500	Average daily truck traffi	2 %	Year	2011	Future average daily traffic	117113
Year	2033						
Road classification	Principal Arterial - Other Freeways or Exp	Lanes on structure	4	Approach roadway width	14.9 m = 48.9 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median with non-mountable bar		
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Highway-waterway [6]	Lanes under structure	12	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	46.3 m = 151.9 ft	Navigation horizontal clearance	214.9 m = 705.1 ft				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	6.28 m = 20.6 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	1.2 m = 3.9 ft	Minimum lateral underclearance on left	1.5 m = 4.9 ft				
Minimum Vertical Underclearance	4.42 m = 14.5 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]						

Repair and Replacement Plans

Type of work to be performed

Other structural work, including hydraulic replacements. [38]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	3180000	Roadway improvement cost	0
Length of structure improvement	227.4 m = 746.1 ft	Total project cost	4093000
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	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 desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Fair [5]		
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	41.9
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	August 2011 [0811]	Designated inspection frequency	24	Months
Underwater inspection	Every two years [Y24]	Underwater inspection date	August 2011 [0811]	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2011 [0811]	
Other special inspection	Not needed [N]	Other special inspection date		