

HistoricBridges.org - National Bridge Inventory Data Sheet

2013 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

South Carolina [45]	Beaufort County [013]	Unknown [00000]	IN TOWN OF BEAUFORT	32-25-36.00 = 32.426667	080-40-12.00 = -80.670000
3186	Highway agency district 6	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 21		US 21 BUS	Toll On free road [3]	Features intersected BEAUFORT RIVER	
Design - main	Steel [3]	Design - approach	Prestressed concrete [5]	Kilometerpoint	119 km = 73.8 mi
2	Movable - Swing [17]	36	Stringer/Multi-beam or girder [02]	Year built	1960
				Year reconstructed	#Num!
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]
Total length	698 m = 2290.1 ft	Length of maximum span	37.8 m = 124.0 ft	Deck width, out-to-out	9.8 m = 32.2 ft
Inventory Route, Total Horizontal Clearance	8.5 m = 27.9 ft	Curb or sidewalk width - left	1.2 m = 3.9 ft	Curb or sidewalk width - right	0.6 m = 2.0 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]				
Deck protection	Unknown [8]				
Type of membrane/wearing surface	Unknown [8]				

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	24.3 metric ton = 26.7 tons
19.9 km = 12.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	31.5 metric ton = 34.7 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 13.5 / HS 15 [3]

Functional Details

Average Daily Traffic	14300	Average daily truck traffi	6	%	Year	2011	Future average daily traffic	20163	Year	2031
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	12.2 m = 40.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	9.1 m = 29.9 ft			Navigation horizontal clearance	27.4 m = 89.9 ft					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft					Minimum vertical clearance over bridge roadway	4.57 m = 15.0 ft			
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	99.9 = Unlimited					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	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	8831000	Roadway improvement cost	2208000
	Length of structure improvement	698 m = 2290.1 ft	Total project cost	13247000
	Year of improvement cost estimate	2013		
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	33.5
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	November 2012 [1112]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	March 2011 [0311]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2012 [1112]
Other special inspection	Unknown [N00]	Other special inspection date	