HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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

Kentucky [21]	Kenton County [117]	Unknown [00465]	BRENT SPENCE BR OVER OHIO	39-05-26 = 39.090556	084-31-21 = -84.522500

059B00046N	Highway agency district 6	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 75		I-75	Toll: On free road [3]	Features intersected: OHIO RIVER	

Design - main	Steel continuous [4]	Design - approach		Kilometerpoint	30824.7 km = 19111.3 mi
3	Truss - Thru [10]	0	Other [00]	Year built: 1963	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	529.3 m = 1736.6 ft	Length of maximum span	253.1 m = 830.4 ft	Deck width, out-to-out	27.9 m = 91.5 ft	Bridge roadway width, curb-to-curb	27.9 m = 91.5 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	0 m = 0.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Latex Concrete or similar additive [3]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	29 metric ton = 31.9 tons	
3.2 km = 2.0 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	48.6 metric ton = 53.5 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	167000	Average daily truck traffi	0 %	Year	2010	Future average daily traffic	263860
Year	2030						
Road classification	Principal Arterial - Interstate (Urban) [11]	Lanes on structure	8	Approach roadway width	14 m = 45.9 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	Open median [1]		
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	28.2 m = 92.5 ft	Navigation horizontal clearance	243.8 m = 799.9 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.5 m = 14.8 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

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	21322000	Roadway improvement cost	0
Length of structure improvement	52.9 m = 173.6 ft	Total project cost	21321000
Year of improvement cost estimate	2004		
Border bridge - state	Unknown [395]	Border bridge - percent responsibility of other state	16
Border bridge - structure number	3107787		

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	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 the assessed or calculated scour condition. [8]
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	Superior to present desirable criteria [9]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	57

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	December 2010 [1210]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2007 [1007]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	December 2010 [1210]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

Kentucky [21]	Kenton County [117]	Unknown [00465]	APPROACH TO BRENT SPENCE	39-05-12 = 39.086667	084-31-22 = -84.522778

059B00040N	Highway agency district	6	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	75		I-75 NC	Toll	On free road [3]	Features intersected	3RD-4TH-5TH STS COVINGTO

Design - main	Steel [3]	Design - approach	Steel continuous [4]	Kilometerpoint	30780.5 km = 19083.9 mi		
1	Stringer/Multi-beam or girder [02]	43	Stringer/Multi-beam or girder [02]	Year built	1963	Year reconstructed	2007
				Skew angle	2	Structure Flared	Yes, flared [1]
				Historical significance	Bridge is not eligible for the NRHP. [5]		

Total length	954.9 m = 3133.0 ft	Length of maximum span	22.9 m = 75.1 ft	Deck width, out-to-out	11 m = 36.1 ft	Bridge roadway width, curb-to-curb	9.1 m = 29.9 ft
Inventory Route, Total Horizontal Clearance	14 m = 45.9 ft	Curb or sidewalk width - left	0.5 m = 1.6 ft	Curb or sidewalk width - right	0.5 m = 1.6 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Low slump Concrete [4]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	32.7 metric ton = 36.0 tons	
9.9 km = 6.1 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	36.3 metric ton = 39.9 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	167000	Average daily truck traffi	0 %	Year	2010	Future average daily traffic	263860
Year	2030						
Road classification	Principal Arterial - Interstate (Urban) [11]	Lanes on structure	7	Approach roadway width	12.8 m = 42.0 ft		
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	The left structure of parallel bridges. This structure carries traffic in the opposite direction. [L]						
Type of service under bridge	Highway, with or without ped	Lanes under structure	5	Navigation control	Not applicable, no waterway. [N]		
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	5 m = 16.4 ft	Minimum lateral underclearance on left	2.6 m = 8.5 ft				
Minimum Vertical Underclearance	5.06 m = 16.6 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Equal to present minimum criteria [6]						

Repair and Replacement Plans

Type of work to be performed

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	5000	Roadway improvement cost	0
Length of structure improvement	36.2 m = 118.8 ft	Total project cost	5000
Year of improvement cost estimate	2004		
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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	
Pier or abutment protection		Sufficiency rating	65.2
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	January 2011 [0111]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	January 2011 [0111]
Other special inspection	Not needed [N]	Other special inspection date	