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

Illinois [17]	Cook County [031]	Lemont [42808]	0.4 M N 107TH ST	41-42-06 = 41.7	087-56-23 = -87.9

000016042504132	Highway agency district 1	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 83		IL 83 (KINGERY HW	Toll: On free road [3]	Features intersected: S & S AND I&M CANALS	

Design - main	Steel [3]	Design - approach	Steel continuous [4]	Kilometerpoint	5164.9 km = 3202.2 mi
1	Truss - Thru [10]	18	Mixed types [20]	Year built: 1934	Year reconstructed: 1997
				Skew angle: 0	Structure Flared: Yes, flared [1]
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	344.5 m = 1130.3 ft	Length of maximum span	76.5 m = 251.0 ft	Deck width, out-to-out	17.5 m = 57.4 ft	Bridge roadway width, curb-to-curb	13.4 m = 44.0 ft
Inventory Route, Total Horizontal Clearance	13.4 m = 44.0 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	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	32.4 metric ton = 35.6 tons	
1.6 km = 1.0 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	50.4 metric ton = 55.4 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	34000	Average daily truck traffi	5 %	Year	2009	Future average daily traffic	46035
Year	2021						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	14 m = 45.9 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	11.5 m = 37.7 ft	Navigation horizontal clearance	48.7 m = 159.8 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.47 m = 14.7 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

Work done by

Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	0 m = 0.0 ft	Total project cost	0
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 - superstructur	Fair [5]	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	Good [7]		

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	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	50

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	August 2009 [0809]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2009 [0809]
Other special inspection	Not needed [N]	Other special inspection date	