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]	Chicago [14000]	3300 E 100TH STREET	41-42-49 = 41.7	087-32-34 = -87.5

000016604226833	Highway agency district: 1	Owner: City or Municipal Highway Agency [04]	Maintenance responsibility: City or Municipal Highway Agency [04]		
Route: 1570		100TH ST	Toll: On free road [3]	Features intersected: CALUMET RIVER	

Design - main: Steel [3]	Design - approach: Steel [3]	Kilometerpoint: 246.2 km = 152.6 mi			
1	Movable - Bascule [16]	4	Stringer/Multi-beam or girder [02]	Year built: 1927	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 99.4 m = 326.1 ft	Length of maximum span: 71 m = 233.0 ft	Deck width, out-to-out: 18.9 m = 62.0 ft	Bridge roadway width, curb-to-curb: 11.6 m = 38.1 ft		
Inventory Route, Total Horizontal Clearance: 11.5 m = 37.7 ft	Curb or sidewalk width - left: 2.6 m = 8.5 ft	Curb or sidewalk width - right: 2.6 m = 8.5 ft			

Deck structure type	Open Grating [3]
Type of wearing surface	Other [9]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 32.4 metric ton = 35.6 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 44.1 metric ton = 48.5 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 18 / HS 20 [5]			

Functional Details

Average Daily Traffic	10000	Average daily truck traffi	11 %	Year	2006	Future average daily traffic	6960
Year	2021						
Road classification	Collector (Urban) [17]	Lanes on structure	4	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	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	4.8 m = 15.7 ft	Navigation horizontal clearance	48.7 m = 159.8 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	99.99 m = 328.1 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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	1093000	Roadway improvement cost	109000
Length of structure improvement	109.7 m = 359.9 ft	Total project cost	1640000
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	Fair [5]	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	Superior to present desirable criteria [9]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	62.8

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

Inspection date	November 2007 [1107]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	November 2007 [1107]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	