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

Michigan [26]	Ionia County [067]	Boston [09680]	5 MI E OF KENT CO LINE	42-52-45 = 42.879167	085-12-47 = -85.213056

34134043000S030	Highway agency district: 3	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 0		MORRISON LAKE RD	Toll: On free road [3]	Features intersected: I-96	

Design - main: Concrete continuous [2]		Design - approach:		Kilometerpoint: 182.3 km = 113.0 mi	
4	Tee beam [04]	0	Other [00]	Year built: 1958	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 73.1 m = 239.8 ft	Length of maximum span: 21.6 m = 70.9 ft	Deck width, out-to-out: 10.1 m = 33.1 ft	Bridge roadway width, curb-to-curb: 7.9 m = 25.9 ft		
Inventory Route, Total Horizontal Clearance: 9.4 m = 30.8 ft	Curb or sidewalk width - left: 0.7 m = 2.3 ft	Curb or sidewalk width - right: 0.7 m = 2.3 ft			

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length	Method to determine inventory rating: Allowable Stress(AS) [2]		Inventory rating: 30 metric ton = 33.0 tons		
0.6 km = 0.4 mi	Method to determine operating rating: Allowable Stress(AS) [2]		Operating rating: 59.1 metric ton = 65.0 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: M 13.5 / H 15 [2]		

Functional Details

Average Daily Traffic	300	Average daily truck traffi		%	Year	1974	Future average daily traffic	300	Year	1977

Road classification	Minor Collector (Rural) [08]	Lanes on structure	2	Approach roadway width	10.3 m = 33.8 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	Highway, with or without ped	Lanes under structure	4	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	3 m = 9.8 ft	Minimum lateral underclearance on left	10.1 m = 33.1 ft		
Minimum Vertical Underclearance	4.62 m = 15.2 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]		
Appraisal ratings - underclearances	Meets minimum tolerable limits to be left in place as is [4]				

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost		Roadway improvement cost	
Length of structure improvement		Total project cost	
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	Equal to present minimum criteria [6]
Condition ratings - superstructur	Good [7]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
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	86.2

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	March 2009 [0309]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	