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]	Cheboygan County [031]	Mackinaw [50300]	0.6 MI S OF US-31	45-43-22 = 45.722778	084-43-41 = -84.728056

16116092000S030	Highway agency district: 2	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 0		POTTER RD	Toll: On free road [3]	Features intersected: I-75	

Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint	29.3 km = 18.2 mi
4	Tee beam [04]	0	Other [00]	Year built: 1960	Year reconstructed: N/A [0000]
				Skew angle: 20	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	73.4 m = 240.8 ft	Length of maximum span	22.8 m = 74.8 ft	Deck width, out-to-out	9.5 m = 31.2 ft	Bridge roadway width, curb-to-curb	7.3 m = 24.0 ft
Inventory Route, Total Horizontal Clearance	8.8 m = 28.9 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	
1.8 km = 1.1 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	60 metric ton = 66.0 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	60	Average daily truck traffi	3 %	Year	1997	Future average daily traffic	100
Year	2007						
Road classification	Local (Rural) [09]	Lanes on structure	2	Approach roadway width	11.8 m = 38.7 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	10.3 m = 33.8 ft				
Minimum Vertical Underclearance	4.93 m = 16.2 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	Better than present minimum criteria [7]
Condition ratings - superstructur	Good [7]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Equal to present minimum criteria [6]
Condition ratings - deck	Good [7]		

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	90.7

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	