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]	Wayne County [163]	Grosse Ile [35420]	GROSSE ILE	42-07-38 = 42.127222	083-10-22 = -83.172778

82200010000B020	Highway agency district	7	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	2057		GROSSE ILE PARKWAY	Toll	On free road [3]	Features intersected	TRENTON CHANNEL

Design - main	Steel continuous [4]	Design - approach	Steel [3]	Kilometerpoint	104 km = 64.5 mi		
2	Movable - Swing [17]	10	Girder and floorbeam system [03]	Year built	1932	Year reconstructed	2007
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]		

Total length	103.6 m = 339.9 ft	Length of maximum span	51.8 m = 170.0 ft	Deck width, out-to-out	9.7 m = 31.8 ft	Bridge roadway width, curb-to-curb	6.1 m = 20.0 ft
Inventory Route, Total Horizontal Clearance	6.7 m = 22.0 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	Open Grating [3]
Type of wearing surface	Other [9]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	36.4 metric ton = 40.0 tons
20 km = 12.4 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	50 metric ton = 55.0 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18+Mod / HS 20+Mod [6]

Functional Details

Average Daily Traffic	22180	Average daily truck traffi	2 %	Year	2007	Future average daily traffic	27060
Year	2027						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	12.2 m = 40.0 ft		
Type of service on bridge	Highway-pedestrian [5]	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	3.6 m = 11.8 ft	Navigation horizontal clearance	45.7 m = 149.9 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	99.9 = Unlimited	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		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	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Excellent [9]		

Scour	Scour calculation/evaluation has not been made. [6]
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	56

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	July 2009 [0709]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2009 [0709]
Other special inspection	Not needed [N]	Other special inspection date	