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]	St. Clair County [147]	Saint Clair [70700]	SEC. 9 ST CLAIR TWP.	42-52-48 = 42.880000	082-34-03 = -82.567500

77200015000B060	Highway agency district: 7	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 7746		GRATIOT ROAD	Toll: On free road [3]	Features intersected: PINE RIVER	

Design - main	Steel [3]	Design - approach		Kilometerpoint	1662.3 km = 1030.6 mi
2	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built: 1932	Year reconstructed: N/A [0000]
				Skew angle: 25	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	37.5 m = 123.0 ft	Length of maximum span	17.9 m = 58.7 ft	Deck width, out-to-out	14.8 m = 48.6 ft	Bridge roadway width, curb-to-curb	12.2 m = 40.0 ft
Inventory Route, Total Horizontal Clearance	12.1 m = 39.7 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	Bituminous [6]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	13.6 metric ton = 15.0 tons	
1.1 km = 0.7 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	25.5 metric ton = 28.1 tons	
	Bridge posting	00.1 - 09.9 % below [4]	Design Load	MS 18+Mod / HS 20+Mod [6]	

Functional Details

Average Daily Traffic	5450	Average daily truck traffi	9 %	Year	2001	Future average daily traffic	9810
Year	2021						
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	13.4 m = 44.0 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 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	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

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	1057000	Roadway improvement cost	171000
Length of structure improvement	45.7 m = 149.9 ft	Total project cost	1228000
Year of improvement cost estimate	2006		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Poor [4]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	43.8

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	February 2010 [0210]	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	