

HistoricBridges.org - National Bridge Inventory Data Sheet

1992 Inventory

The National Bridge Inventory contains data submitted by state transportation 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]	Saginaw County [145]	Unknown [00000]	0.6 MI E OF RIDGE ROAD			
73200003000B010	Highway agency district	6	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]
Route	0		DITCH ROAD	Toll	On free road [3]	Features intersected
						SHIAWASSEE RIVER
Design - main	Steel [3]	Design - approach		Kilometerpoint		
1	Truss - Thru [10]	0	Other [00]	Year built	1889	Year reconstructed
						1954
				Skew angle	0	Structure Flared
				Historical significance	Bridge is possibly eligible for the NRHP. [3]	
Total length	42.7 m = 140.1 ft	Length of maximum span	42.4 m = 139.1 ft	Deck width, out-to-out	5.4 m = 17.7 ft	Bridge roadway width, curb-to-curb
						5 m = 16.4 ft
Inventory Route, Total Horizontal Clearance	4.9 m = 16.1 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft	
Deck structure type	Corrugated Steel [6]					
Type of wearing surface	Bituminous [6]					
Deck protection						
Type of membrane/wearing surface						

Weight Limits

Bypass, detour length	Method to determine inventory rating		Inventory rating	5.6 metric ton = 6.2 tons
1.1 km = 0.7 mi	Method to determine operating rating		Operating rating	10.1 metric ton = 11.1 tons
	Bridge posting		Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	600	Average daily truck traffi	5	%	Year	1988	Future average daily traffic	1080	Year	2008
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	6.1 m = 20.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	One lane bridge for 2 - way traffic [3]		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	4.26 m = 14.0 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	Work done by	Work to be done by contract [1]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	750000	Roadway improvement cost	75000
	Length of structure improvement	61 m = 200.1 ft	Total project cost	825000
	Year of improvement cost estimate			
	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 - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	N/A [N]
Condition ratings - deck	Serious [3]		
Scour	Scour calculation/evaluation has not been made. [6]		
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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	12.3
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	April 1990 [0490]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Unknown [Y06]	Fracture critical inspection date	April 1990 [0490]
Other special inspection	Not needed [N]	Other special inspection date	