

# HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Chippewa County [033]	Rudyard [70220]	2.0 MI N OF MACKINAC COL	46-11-13 = 46.186944	084-33-39 = - 84.560833
17117033000S010	Highway agency district 1	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 48		M-48	Toll On free road [3]	Features intersected I-75,US-2	
Design - main	Steel [3]	Design - approach		Kilometerpoint 266.8 km = 165.4 mi	
12	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built 1962	Year reconstructed N/A [0000]
				Skew angle 0	Structure Flared
				Historical significance Bridge is not eligible for the NRHP. [5]	
Total length 205.1 m = 672.9 ft	Length of maximum span 21.9 m = 71.9 ft	Deck width, out-to-out 10.7 m = 35.1 ft	Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft		
Inventory Route, Total Horizontal Clearance 10 m = 32.8 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 1.1 km = 0.7 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating 44.5 metric ton = 49.0 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating 99.9 metric ton = 109.9 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

### Functional Details

Average Daily Traffic	605	Average daily truck traffi	27	%	Year	2007	Future average daily traffic	476	Year	2018
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	10 m = 32.8 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	3.4 m = 11.2 ft					Minimum lateral underclearance on left	10.3 m = 33.8 ft			
Minimum Vertical Underclearance	4.88 m = 16.0 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Somewhat better than minimum adequacy to tolerate being left in place as is [5]									

### Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]		
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost	448000	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	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Better than present minimum criteria [7]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge not over waterway. [N]"/>		
Channel and channel protection	<input type="text" value="Not applicable. [N]"/>		
Appraisal ratings - water adequacy	<input type="text" value="N/A [N]"/>	Status evaluation	<input type="text"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="80.6"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="June 2008 [0608]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>