

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] Bay County [017] Williams [87380] 11.5 MI W OF BAY CITY 43-35-51 = 43.597500 084-08-20 = - 84.138889

09109101000S041 Highway agency district 4 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 47 M-47 NB Toll On free road [3] Features intersected US-10

Design - main Steel [3] Design - approach Stringer/Multi-beam or girder [02] Other [00] Kilometerpoint 324.3 km = 201.1 mi Year built 1960 Year reconstructed N/A [0000] Skew angle 0 Structure Flared Historical significance Bridge is not eligible for the NRHP. [5]

Total length 63.7 m = 209.0 ft Length of maximum span 21 m = 68.9 ft Deck width, out-to-out 15 m = 49.2 ft Bridge roadway width, curb-to-curb 12.8 m = 42.0 ft

Inventory Route, Total Horizontal Clearance 14.3 m = 46.9 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 Bituminous [6]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0 km = 0.0 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 54.7 metric ton = 60.2 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 91.3 metric ton = 100.4 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

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	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - superstructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Better than present minimum criteria [7]"/>
Condition ratings - substructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - deck geometry	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - deck	<input type="text" value="Poor [4]"/>		
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" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="61"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
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"/>		
Inspection date	<input type="text" value="May 2009 [0509]"/>	Designated inspection frequency	<input type="text" value="15"/> 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"/>

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Route 47	M-47 SB	Toll On free road [3]	Features intersected	US-10	
Design - main Steel [3]	Design - approach	Kilometerpoint 324.3 km = 201.1 mi	Year built 1960	Year reconstructed N/A [0000]	
4	Stringer/Multi-beam or girder [02]	0	Other [00]	Skew angle 0	Structure Flared
		Historical significance Bridge is not eligible for the NRHP. [5]			
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Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

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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" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="49"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
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