

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Michigan [26]	Mackinac County [097]	Moran [55480]	4.0 MI E OF US-2	46-01-38 = 46.027222	084-59-28 = - 84.991111
4920006000B010	Highway agency district: 1	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 4938	CARL WORTH RD FH40	Toll On free road [3]	Features intersected	LITTLE BREVORT RIVER	
Design - main Concrete [1]	Design - approach	Kilometerpoint 679 km = 421.0 mi	Year built 1922	Year reconstructed N/A [0000]	
1	Girder and floorbeam system [03]	0 Other [00]	Skew angle 45	Structure Flared	
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length 13.7 m = 44.9 ft	Length of maximum span 11.2 m = 36.7 ft	Deck width, out-to-out 8.5 m = 27.9 ft	Bridge roadway width, curb-to-curb 6.7 m = 22.0 ft		
Inventory Route, Total Horizontal Clearance 6.7 m = 22.0 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 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 1.1 km = 0.7 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	13.6 metric ton = 15.0 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	32.7 metric ton = 36.0 tons
Bridge posting	Equal to or above legal loads [5]	Design Load		

Functional Details

Average Daily Traffic	182	Average daily truck traffi	10	%	Year	1992	Future average daily traffic	302	Year	2012
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	10.4 m = 34.1 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	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	0	Roadway improvement cost	0	
	Length of structure improvement	20.4 m = 66.9 ft		Total project cost	1000
	Year of improvement cost estimate	2007			
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	26.8
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	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	November 2007 [1107]	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	