

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] Marquette County [103] Ely [25820] 9 MI SOUTH OF GREENWOOD 46-21-40 = 46.361111 087-47-04 = - 87.784444

6538 Highway agency district 1 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route 5231 COUNTY RD 581 Toll On free road [3] Features intersected WEST BR ESCANABA RIVER

Design - main Steel [3] Design - approach Stringer/Multi-beam or girder [02] Other [00] Kilometerpoint 401.7 km = 249.1 mi

1 1 Stringer/Multi-beam or girder [02] 0 Other [00] Year built 1928 Year reconstructed Skew angle 0 Structure Flared Historical significance Bridge is on the NRHP. [1]

Total length 9.4 m = 30.8 ft Length of maximum span 8.8 m = 28.9 ft Deck width, out-to-out 7.7 m = 25.3 ft Bridge roadway width, curb-to-curb 6.7 m = 22.0 ft

Inventory Route, Total Horizontal Clearance 6.8 m = 22.3 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 Monolithic Concrete (concurrently placed with structural deck) [1]

Deck protection

Type of membrane/wearing surface

**Weight Limits**

Bypass, detour length 1.9 km = 1.2 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 66.4 metric ton = 73.0 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 99.9 metric ton = 109.9 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18+Mod / HS 20+Mod [6]

### Functional Details

Average Daily Traffic	900	Average daily truck traffi	0	%	Year	2001	Future average daily traffic	1100	Year	2020
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	9.8 m = 32.2 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	70000	Roadway improvement cost	7000						
	Length of structure improvement	9.8 m = 32.2 ft		Total project cost	82000					
	Year of improvement cost estimate	2005								
	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="Poor [4]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Good [7]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge is scour critical; bridge foundations determined to be unstable. [3]"/>		
Channel and channel protection	<input type="text" value="Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Equal to present desirable criteria [8]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="53.3"/>
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" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="October 2011 [1011]"/>	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"/>