

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	Delta County	Masonville	6.5 M N 1 M W RAPID RIVER	46.022222	-86.978889
21312C00001B010	Highway agency district: 1	Owner County Highway Agency	Maintenance responsibility County Highway Agency		
Route 0	COUNTY ROAD I 39	Toll On free road	Features intersected RAPID RIVER		
Design - main Concrete	Design - approach Girder and floorbeam system	Other	Kilometerpoint 363.3	Year built 1916	Year reconstructed N/A
2	0		Skew angle 0	Structure Flared	
			Historical significance	Bridge is on the NRHP.	
Total length 69.9	Length of maximum span 33.8	Deck width, out-to-out 21	Bridge roadway width, curb-to-curb 17.1		
Inventory Route, Total Horizontal Clearance 16.7	Curb or sidewalk width - left 0	Curb or sidewalk width - right 0			
Deck structure type	Concrete Cast-in-Place				
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck)				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.9	Method to determine inventory rating Load Factor(LF)	Inventory rating 16.5
	Method to determine operating rating Load Factor(LF)	Operating rating 27.8
Bridge posting	Design Load	

Functional Details

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

Road classification Lanes on structure Approach roadway width Bridge median

Type of service on bridge Direction of traffic

Parallel structure designation

Type of service under bridge Lanes under structure

Navigation vertical clearance Navigation control 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="Posted for load"/>	Appraisal ratings - structural	<input type="text" value="Meets minimum tolerable limits to be left in place as is"/>
Condition ratings - superstructure	<input type="text" value="Fair"/>	Appraisal ratings - roadway alignment	<input type="text" value="Basically intolerable requiring high priority of corrective action"/>
Condition ratings - substructure	<input type="text" value="Poor"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement"/>
Condition ratings - deck	<input type="text" value="Fair"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition."/>		
Channel and channel protection	<input type="text" value="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."/>		
Appraisal ratings - water adequacy	<input type="text" value="Equal to present minimum criteria"/>	Status evaluation	<input type="text" value="Structurally deficient"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="24"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert."/>		
Traffic safety features - railings	<input type="text" value="Inspected feature meets currently acceptable standards."/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="Jul-08"/>	Designated inspection frequency	<input type="text" value="12"/>
Underwater inspection	<input type="text" value="Not needed"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Not needed"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed"/>	Other special inspection date	<input type="text"/>