

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.

<b>Basic Information</b>	
Michigan [26]	Ingham County [065]
Lansing [46000]	IN LANSING (SAGINAW ST)
33133061000B010	Highway agency district 6
Owner State Highway Agency [01]	Maintenance responsibility State Highway Agency [01]
Route 43	M-43 EB
Toll On free road [3]	Features intersected GRAND RIVER
Design - main Steel [3]	Design - approach
4	Stringer/Multi-beam or girder [02]
0	Other [00]
Kilometerpoint 436.8 km = 270.8 mi	Year built 1928
	Year reconstructed 1957
Skew angle 13	Structure Flared
Historical significance	Bridge is not eligible for the NRHP. [5]
Total length 77.4 m = 253.9 ft	Length of maximum span 19.5 m = 64.0 ft
Deck width, out-to-out 24.5 m = 80.4 ft	Bridge roadway width, curb-to-curb 20.1 m = 65.9 ft
Inventory Route, Total Horizontal Clearance 23.7 m = 77.8 ft	Curb or sidewalk width - left 1.8 m = 5.9 ft
	Curb or sidewalk width - right 1.8 m = 5.9 ft
Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Bituminous [6]
Deck protection	
Type of membrane/wearing surface	

<b>Weight Limits</b>	
Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating
	Load Factor(LF) [1]
	Inventory rating 35.9 metric ton = 39.5 tons
	Method to determine operating rating
	Load Factor(LF) [1]
	Operating rating 59.9 metric ton = 65.9 tons
Bridge posting	Equal to or above legal loads [5]
	Design Load M 13.5 / H 15 [2]

### Functional Details

Average Daily Traffic	23551	Average daily truck traffi	1	%	Year	2007	Future average daily traffic	25514	Year	2018
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	5	Approach roadway width	20.1 m = 65.9 ft				
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	1 - way traffic [1]		Bridge median				
Parallel structure designation	The right structure of parallel bridges carrying the roadway in the direction of the inventory. [R]									
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]								
Bridge deck replacement with only incidental widening. [37]	Bridge improvement cost	385000	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="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	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="Poor [4]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
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. [7]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Equal to present minimum criteria [6]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="80.3"/>
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"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="August 2008 [0808]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Unknown [Y60]"/>	Underwater inspection date	<input type="text" value="August 2005 [0805]"/>
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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**Basic Information**

Michigan [26]	Ingham County [065]	Lansing [46000]	IN LANSING (SAGINAW ST)	42-44-27 = 42.740833	084-32-56 = - 84.548889
3789	Highway agency district 6	Owner State Highway Agency [01]	Maintenance responsibility State Highway Agency [01]		
Route 43	M-43 EB	Toll On free road [3]	Features intersected GRAND RIVER		
Design - main Steel [3]	Design - approach	Kilometerpoint 436.8 km = 270.8 mi	Year built 1928	Year reconstructed 1957	
4	Stringer/Multi-beam or girder [02]	0	Other [00]	Skew angle 13	Structure Flared
				Historical significance	Bridge is not eligible for the NRHP. [5]
Total length 77.4 m = 253.9 ft	Length of maximum span 19.5 m = 64.0 ft	Deck width, out-to-out 24.5 m = 80.4 ft	Bridge roadway width, curb-to-curb 20.1 m = 65.9 ft		
Inventory Route, Total Horizontal Clearance 23.7 m = 77.8 ft	Curb or sidewalk width - left 1.8 m = 5.9 ft	Curb or sidewalk width - right 1.8 m = 5.9 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 0.2 km = 0.1 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	35.9 metric ton = 39.5 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	59.9 metric ton = 65.9 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

### 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	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	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Serious [3]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	61.4
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	August 2011 [0811]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2010 [0810]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	