

# HistoricBridges.org - National Bridge Inventory Data Sheet

2010 Inventory

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]	Barry County [015]	Middleville [53760]	0.25 M E M37 IN MIDDLEVIL	42-42-40 = 42.711111	085-27-55 = - 85.465278
084440400003B01	Highway agency district 5	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route 882		MAIN STREET	Toll On free road [3]	Features intersected THORNAPPLE RIVER	
Design - main	Steel [3]	Design - approach		Kilometerpoint 654.4 km = 405.7 mi	
2	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built 1929	Year reconstructed N/A [0000]
				Skew angle 20	Structure Flared
				Historical significance Bridge is not eligible for the NRHP. [5]	
Total length 43.2 m = 141.7 ft	Length of maximum span 21.6 m = 70.9 ft	Deck width, out-to-out 16.7 m = 54.8 ft	Bridge roadway width, curb-to-curb 11.9 m = 39.0 ft		
Inventory Route, Total Horizontal Clearance 11.9 m = 39.0 ft	Curb or sidewalk width - left 1.9 m = 6.2 ft	Curb or sidewalk width - right 1.9 m = 6.2 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	Load Factor(LF) [1]	Inventory rating 32.7 metric ton = 36.0 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating 52.4 metric ton = 57.6 tons
Bridge posting 10.0 - 19.9 % below [3]	Design Load		

### Functional Details

Average Daily Traffic	8000	Average daily truck traffi	8	%	Year	2005	Future average daily traffic	14450	Year	2025
Road classification	Major Collector (Rural) [07]	Lanes on structure	2		Approach roadway width	14.6 m = 47.9 ft				
Type of service on bridge	Highway-pedestrian [5]	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

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

Posted for load [P]

Appraisal ratings -  
structural

Meets minimum tolerable limits to be left in place as is [4]

Condition ratings - superstructure

Fair [5]

Appraisal ratings -  
roadway alignment

Equal to present minimum criteria [6]

Condition ratings - substructure

Poor [4]

Appraisal ratings -  
deck geometry

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - deck

Fair [5]

Scour

Bridge with "unknown" foundation that has not been evaluated for scour. [U]

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 desirable criteria [8]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

58.1

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]

Inspected feature meets currently acceptable standards. [1]

Inspection date

May 2009 [0509]

Designated inspection frequency

12

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