

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] Manistee County [101] Manistee [50720] IN MANISTEE 44-15-00 = 44.250000 086-19-07 = - 86.318611

51151011000B010 Highway agency district: 2 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 31 US-31 Toll On free road [3] Features intersected MANISTEE RIVER

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 859.2 km = 532.7 mi

1 Movable - Bascule [16] 2 Stringer/Multi-beam or girder [02] Year built 1933 Year reconstructed 2005

Skew angle 0 Structure Flared

Historical significance Bridge is on the NRHP. [1]

Total length 96.3 m = 316.0 ft Length of maximum span 40.5 m = 132.9 ft Deck width, out-to-out 16.4 m = 53.8 ft Bridge roadway width, curb-to-curb 12.2 m = 40.0 ft

Inventory Route, Total Horizontal Clearance 15.8 m = 51.8 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 Open Grating [3]

Type of wearing surface Epoxy Overlay [5]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 1 km = 0.6 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 29.1 metric ton = 32.0 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 62.7 metric ton = 69.0 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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	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	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	65.1
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	June 2008 [0608]	Designated inspection frequency	15 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2005 [0805]
Fracture critical inspection	Unknown [Y15]	Fracture critical inspection date	June 2008 [0608]
Other special inspection	Not needed [N]	Other special inspection date	