

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] Clinton County [037] Duplain [23460] 0.2 MI E OF LUSK RD 43-04-27 = 43.074167 084-24-46 = - 84.412778

19306H00008B010 Highway agency district 6 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route 0 MEAD ROAD Toll On free road [3] Features intersected MAPLE RIVER

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 578.9 km = 358.9 mi

1 Truss - Thru [10] 0 Other [00] Year built 1907 Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 30.1 m = 98.8 ft Length of maximum span 30.1 m = 98.8 ft Deck width, out-to-out 5 m = 16.4 ft Bridge roadway width, curb-to-curb 4.9 m = 16.1 ft

Inventory Route, Total Horizontal Clearance 4.9 m = 16.1 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 ft

Deck structure type Wood or Timber [8]

Type of wearing surface

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.6 km = 0.4 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 0 metric ton = 0.0 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 0 metric ton = 0.0 tons

Bridge posting Design Load MS 13.5 / HS 15 [3]

Functional Details

Average Daily Traffic	140	Average daily truck traffi	0	%	Year	1979	Future average daily traffic	140	Year	2009
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	6.1 m = 20.0 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	4.93 m = 16.2 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	500000	Roadway improvement cost	60000						
	Length of structure improvement	39.6 m = 129.9 ft		Total project cost	560000					
	Year of improvement cost estimate	2004								
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

Inspection and Sufficiency

Structure status

Bridge closed to all traffic [K]

Appraisal ratings -
structural

Condition ratings - superstructure

Imminent Failure [1]

Appraisal ratings -
roadway alignment

Condition ratings - substructure

Imminent Failure [1]

Condition ratings - deck

Imminent Failure [1]

Appraisal ratings -
deck geometry

Scour

Bridge foundations determined to be stable for assessed or calculated scour condition. [5]

Channel and channel protection

Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy

Basically intolerable requiring high priority of corrective action [3]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

15.3

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

Inspection date

March 2010 [0310]

Designated inspection frequency

24

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

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

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