HistoricBridges.org - National Bridge Inventory Data Sheet

2019 Inventory

The National Bridge Inventory contains data submitted by state transportion 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

Wisconsin [55]	Chippewa County [017]	Arthur [03075]	0.1 M E STH 178	45-06-25.10 = 45.106972	091-12-30.00 = -91.208333

B09096500000000 | Highway agency district: 6 | Owner: County Highway Agency [02] | Maintenance responsibility: County Highway Agency [02]

Route: 0 | East [2] | CTH TT | Toll: On free road [3] | Features intersected: CHIPPEWA RIVER 17

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
2	Truss - Thru [10]	0	Other [00]	Year built	1917
				Year reconstructed	1995
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length: 148.3 m = 486.6 ft | Length of maximum span: 73.5 m = 241.2 ft | Deck width, out-to-out: 4.9 m = 16.1 ft | Bridge roadway width, curb-to-curb: 4.6 m = 15.1 ft

Inventory Route, Total Horizontal Clearance: 7.9 m = 25.9 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: Wood or Timber [7]

Deck protection:

Type of membrane/wearing surface: Unknown [8]

Weight Limits

Bypass, detour length: 2 km = 1.2 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 17.8 metric ton = 19.6 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 24.5 metric ton = 27.0 tons

Bridge posting: 30.0 - 39.9 % below [1] | Design Load: MS 13.5 / HS 15 [3]

Functional Details

Average Daily Traffic	169	Average daily truck traffi	5 %	Year	2015	Future average daily traffic	185
Year	2035						
Road classification	Minor Collector (Rural) [08]	Lanes on structure	1	Approach roadway width	7.9 m = 25.9 ft		
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	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	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	2.49 m = 8.2 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]						
Minimum lateral underclearance on right	0 = N/A	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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by owner's forces [2]		
Bridge improvement cost	1444000	Roadway improvement cost	144000
Length of structure improvement	152.7 m = 501.0 ft	Total project cost	2166000
Year of improvement cost estimate	2018		
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	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	2.6
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	August 2018 [0818]	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	