HistoricBridges.org - National Bridge Inventory Data Sheet

2009 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

Michigan [26]	Macomb County [099]	Mount Clemens [55820]	IN MT CLEMENS	42-35-06 = 42.585000	082-53-00 = -82.883333

50150051000B010	Highway agency district: 7	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]

Route	3	M-3 SB	Toll	On free road [3]	Features intersected: CLINTON R

Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint	1653 km = 1024.9 mi
3	Arch - Deck [11]	0	Other [00]	Year built	1920
				Year reconstructed	N/A [0000]
				Skew angle	20
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]

Total length	73.4 m = 240.8 ft	Length of maximum span	25.3 m = 83.0 ft	Deck width, out-to-out	18.4 m = 60.4 ft	Bridge roadway width, curb-to-curb	13.8 m = 45.3 ft
Inventory Route, Total Horizontal Clearance	17.5 m = 57.4 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	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	18.2 metric ton = 20.0 tons	
0.2 km = 0.1 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	80 metric ton = 88.0 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	21715	Average daily truck traffi	4 %	Year	2007	Future average daily traffic	26581	Year	2018

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	4	Approach roadway width	14.3 m = 46.9 ft
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	1 - way traffic [1]	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

Bridge deck replacement with only incidental widening. [37]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	0 m = 0.0 ft	Total project cost	0
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	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Serious [3]		

Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]
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	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	2

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	September 2008 [0908]	Designated inspection frequency	9	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	