HistoricBridges.org - National Bridge Inventory Data Sheet

2010 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]	Chesterfield [15340]	0.3 MI N OF SUGARBUSH RD	42-39-29 = 42.658056	082-46-36 = -82.776667

50200068000B020	Highway agency district: 7	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 2058		JEFFERSON AVE	Toll: On free road [3]	Features intersected: SALT RIVER	

Design - main	Steel [3]	Design - approach		Kilometerpoint	544.6 km = 337.7 mi
2	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built: 1928	Year reconstructed: 1952
				Skew angle: 30	Structure Flared:
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	27.7 m = 90.9 ft	Length of maximum span	13.1 m = 43.0 ft	Deck width, out-to-out	13.2 m = 43.3 ft	Bridge roadway width, curb-to-curb	12 m = 39.4 ft
Inventory Route, Total Horizontal Clearance	11.5 m = 37.7 ft	Curb or sidewalk width - left	0.4 m = 1.3 ft	Curb or sidewalk width - right	0.4 m = 1.3 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	30.8 metric ton = 33.9 tons	
0.6 km = 0.4 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	67.1 metric ton = 73.8 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 18 / H 20 [4]	

Functional Details

Average Daily Traffic	13043	Average daily truck traffi	5 %	Year	1997	Future average daily traffic	19381
Year	2017						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	14 m = 45.9 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	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

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 contract [1]		
Bridge improvement cost	900000	Roadway improvement cost	200000
Length of structure improvement	36.6 m = 120.1 ft	Total project cost	1100000
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	73.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
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 2009 [0909]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	December 2008 [1208]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	