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]	Genesee County [049]	Flint [29020]	S OF M-21	42-59-55 = 42.998611	083-44-57 = -83.749167

25125032000S010	Highway agency district: 4	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 0		ARLENE DRIVE	Toll: On free road [3]	Features intersected: I-75	

Design - main: 4	Steel [3] / Stringer/Multi-beam or girder [02]	Design - approach: 0	Other [00]	Kilometerpoint: 83.2 km = 51.6 mi	
				Year built: 1957	Year reconstructed: N/A [0000]
				Skew angle: 17	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 57 m = 187.0 ft	Length of maximum span: 17.3 m = 56.8 ft	Deck width, out-to-out: 10.1 m = 33.1 ft	Bridge roadway width, curb-to-curb: 7.9 m = 25.9 ft		
Inventory Route, Total Horizontal Clearance: 9.4 m = 30.8 ft	Curb or sidewalk width - left: 0.7 m = 2.3 ft	Curb or sidewalk width - right: 0.7 m = 2.3 ft			

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length: 0 km = 0.0 mi	Method to determine inventory rating: Allowable Stress(AS) [2]	Inventory rating: 32.7 metric ton = 36.0 tons			
	Method to determine operating rating: Allowable Stress(AS) [2]	Operating rating: 69.1 metric ton = 76.0 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 13.5 / HS 15 [3]			

Functional Details

Average Daily Traffic	220	Average daily truck traffi		%	Year 1988	Future average daily traffic	200	Year	
Road classification	Local (Urban) [19]	Lanes on structure	2			Approach roadway width	11.5 m = 37.7 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	Highway, with or without ped	Lanes under structure	6			Navigation control	Not applicable, no waterway. [N]		
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	Highway beneath structure [H]								
Minimum lateral underclearance on right	3.4 m = 11.2 ft	Minimum lateral underclearance on left	1 m = 3.3 ft						
Minimum Vertical Underclearance	4.47 m = 14.7 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]								

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	67000	Roadway improvement cost	7000
Length of structure improvement	57 m = 187.0 ft	Total project cost	79000
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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Poor [4]	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 not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	59
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			
Inspection date	March 2009 [0309]	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	