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]	Atlas [04000]	INTERS OF PERRY & VASSAR	42-55-57 = 42.932500	083-34-25 = -83.573611

25200022000B010	Highway agency district: 4	Owner: County Highway Agency [02]	Maintenance responsibility: County Highway Agency [02]		
Route: 2534		PERRY ROAD	Toll: On free road [3]	Features intersected: THREAD RIVER	
Design - main: Steel [3]		Design - approach:		Kilometerpoint: 447.2 km = 277.3 mi	
1	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built: 1928	Year reconstructed: N/A [0000]
				Skew angle: 30	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 13.7 m = 44.9 ft	Length of maximum span: 12.8 m = 42.0 ft	Deck width, out-to-out: 12.2 m = 40.0 ft	Bridge roadway width, curb-to-curb: 11 m = 36.1 ft				
Inventory Route, Total Horizontal Clearance: 10.9 m = 35.8 ft	Curb or sidewalk width - left: 0 m = 0.0 ft	Curb or sidewalk width - right: 0 m = 0.0 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: 1.4 km = 0.9 mi	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 19.3 metric ton = 21.2 tons		
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 47.9 metric ton = 52.7 tons		
	Bridge posting: 10.0 - 19.9 % below [3]		Design Load: MS 18+Mod / HS 20+Mod [6]		

Functional Details

Average Daily Traffic	5927	Average daily truck traffi	5 %	Year	1998	Future average daily traffic	10400
Year	2018						

Road classification	Minor Arterial (Urban) [16]	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	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	108000	Roadway improvement cost	11000
Length of structure improvement	13.7 m = 44.9 ft	Total project cost	135000
Year of improvement cost estimate			
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	23.6

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
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	December 2009 [1209]	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	