

HistoricBridges.org - National Bridge Inventory Data Sheet

2010 Inventory

The National Bridge Inventory contains data submitted by state transportation 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

Pennsylvania [42]	Chester County [029]	West Brandywine [82576]	1MI.NORTH TR-322 19A02	40-04-24 = 40.073333	075-48-54 = - 75.815000
150082055221890	Highway agency district 6	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 82	MANOR ROAD	Toll On free road [3]	Features intersected INDIAN RUN		
Design - main 3	Masonry [8] Arch - Deck [11]	Design - approach 0	Other [00]	Kilometerpoint 3111 km = 1928.8 mi	
				Year built 1910	Year reconstructed 2009
				Skew angle 0	Structure Flared
				Historical significance Bridge is not eligible for the NRHP. [5]	
Total length 12.8 m = 42.0 ft	Length of maximum span 6.1 m = 20.0 ft	Deck width, out-to-out 7 m = 23.0 ft	Bridge roadway width, curb-to-curb 6.1 m = 20.0 ft		
Inventory Route, Total Horizontal Clearance 6.2 m = 20.3 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 ft			
Deck structure type	Not applicable [N]				
Type of wearing surface	Not applicable (applies only to structures with no deck) [N]				
Deck protection	Not applicable (applies only to structures with no deck) [N]				
Type of membrane/wearing surface	Not applicable (applies only to structures with no deck) [N]				

Weight Limits

Bypass, detour length 1.1 km = 0.7 mi	Method to determine inventory rating	No rating analysis performed [5]	Inventory rating	37.2 metric ton = 40.9 tons
	Method to determine operating rating	No rating analysis performed [5]	Operating rating	62.6 metric ton = 68.9 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	6732	Average daily truck traffi	8	%	Year	2008	Future average daily traffic	5722	Year	2013
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	7.3 m = 24.0 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	10 m = 32.8 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	Work done by	Work to be done by contract [1]		
Other structural work, including hydraulic replacements. [38]	Bridge improvement cost	0	Roadway improvement cost	0
	Length of structure improvement	19 m = 62.3 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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Not Applicable [N]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]		
Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	
Pier or abutment protection		Sufficiency rating	75.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	September 2009 [0909]	Designated inspection frequency	24 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	