HistoricBridges.org - National Bridge Inventory Data Sheet

2012 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

Pennsylvania [42]	Chester County [029]	West Bradford [82544]	WEST BRADFORD TWP. 31A09	39-58-06 = 39.968333	075-40-25 = -75.673611

10199	Highway agency district	6	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	322		DOWNINGTOWN PIKE	Toll	On free road [3]	Features intersected	EAST BR.BRANDYWINE CREEK

Design - main	Steel [3]	Design - approach		Kilometerpoint	2902.1 km = 1799.3 mi		
2	Girder and floorbeam system [03]	0	Other [00]	Year built	1929	Year reconstructed	N/A [0000]
				Skew angle	15	Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]		

Total length	43.3 m = 142.1 ft	Length of maximum span	21 m = 68.9 ft	Deck width, out-to-out	7.7 m = 25.3 ft	Bridge roadway width, curb-to-curb	7.1 m = 23.3 ft
Inventory Route, Total Horizontal Clearance	7.1 m = 23.3 ft	Curb or sidewalk width - left	1.6 m = 5.2 ft	Curb or sidewalk width - right	0.2 m = 0.7 ft		

Deck structure type	Open Grating [3]
Type of wearing surface	
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	31 metric ton = 34.1 tons	
1.3 km = 0.8 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	52 metric ton = 57.2 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 18 / H 20 [4]	

Functional Details

Average Daily Traffic	15802	Average daily truck traffi	4 %	Year	2011	Future average daily traffic	19372
Year	2032						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	2	Approach roadway width	13.4 m = 44.0 ft		
Type of service on bridge	Highway-pedestrian [5]	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	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

Other structural work, including hydraulic replacements. [38]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	0	Roadway improvement cost	0
Length of structure improvement	52 m = 170.6 ft	Total project cost	1000
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	Poor [4]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		

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	Equal to present minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	38.5

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	
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	August 2010 [0810]	Designated inspection frequency	24	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	August 2002 [0802]
Other special inspection	Not needed [N]	Other special inspection date	