HistoricBridges.org - National Bridge Inventory Data Sheet

2009 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]	Washington County [125]	Donora [19536]	DONORA-WEBSTER BRIDGE	40-11-00 = 40.183333	079-51-17 = -79.854722

621022001000360 | Highway agency district: 12 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 0 | SR 1022 | Toll: On free road [3] | Features intersected: SR 1030, 2 R/R, MON RIV

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
5	Truss - Thru [10]	9	Stringer/Multi-beam or girder [02]	Year built: 1908	Year reconstructed: 1986
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is on the NRHP. [1]

Total length: 471.5 m = 1547.0 ft | Length of maximum span: 157.9 m = 518.1 ft | Deck width, out-to-out: 7.6 m = 24.9 ft | Bridge roadway width, curb-to-curb: 6.9 m = 22.6 ft

Inventory Route, Total Horizontal Clearance: 6.9 m = 22.6 ft | Curb or sidewalk width - left: 1.7 m = 5.6 ft | Curb or sidewalk width - right: 0.2 m = 0.7 ft

Deck structure type: Open Grating [3]

Type of wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]

Deck protection: Unknown [8]

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 1.3 km = 0.8 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 1.8 metric ton = 2.0 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 2.7 metric ton = 3.0 tons

Bridge posting: | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	3252	Average daily truck traffi	7 %	Year	2007	Future average daily traffic	16268
Year	2028						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	6.7 m = 22.0 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	Highway-waterway-railroad [8	Lanes under structure	2	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	900.4 m = 2954.2 ft	Navigation horizontal clearance	6845.6 m = 22460.4 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	3 m = 9.8 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	99.9 = Unlimited	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	6 m = 19.7 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Superior to present desirable criteria [9]						

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	2000	Roadway improvement cost	5000
Length of structure improvement	703 m = 2306.5 ft	Total project cost	21000
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 replacement [2]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	2

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	April 2009 [0409]	Designated inspection frequency	12	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	April 2009 [0409]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Unknown [N00]	Other special inspection date	