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

New York [36]	Broome County [007]	Vestal [77255]	HAMLET OF VESTAL	42-05-31 = 42.091944	076-03-20 = -76.055556

3349850	Highway agency district	91	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	0	CR 48	Toll	On free road [3]	Features intersected	SUSQUEHANNA RIVER

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
3	Truss - Thru [10]	0	Other [00]	Year built	1935
				Year reconstructed	1987
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length	227 m = 744.8 ft	Length of maximum span	74.6 m = 244.8 ft	Deck width, out-to-out	9.9 m = 32.5 ft	Bridge roadway width, curb-to-curb	9.1 m = 29.9 ft
Inventory Route, Total Horizontal Clearance	9.1 m = 29.9 ft	Curb or sidewalk width - left	1.6 m = 5.2 ft	Curb or sidewalk width - right	1.6 m = 5.2 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	45.4 metric ton = 49.9 tons
0.3 km = 0.2 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	67.1 metric ton = 73.8 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	16895	Average daily truck traffi	6 %	Year	2007	Future average daily traffic	21087
Year	2027						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	14.6 m = 47.9 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	4.57 m = 15.0 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

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	5620000	Roadway improvement cost	3271000
Length of structure improvement	227 m = 744.8 ft	Total project cost	8891000
Year of improvement cost estimate	2009		
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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]

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	60.4

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	

Inspection date	October 2008 [1008]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2006 [0906]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2008 [1008]
Other special inspection	Not needed [N]	Other special inspection date	