HistoricBridges.org - National Bridge Inventory Data Sheet

2014 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]	Bucks County [017]	Morrisville [51144]	MORRISVILLE BORO. 39D04	40-13-12.00 = 40.220000	074-46-42.00 = -74.778333

7689

Highway agency district: 6

Owner: Local Toll Authority [32]

Maintenance responsibility: Private (other than railroad) [26]

Route: 0 | | CONNECT PA32&NJ29

Toll: On free road [3]

Features intersected: DELAWARE RIVER

Design - main: 7 | Aluminum, Wrought Iron or Cast Iron [9] | Truss - Thru [10]

Design - approach: 0 | Other [00]

Kilometerpoint: 0 km = 0.0 mi

Year built: 1884

Year reconstructed: 2010

Skew angle: 0

Structure Flared:

Historical significance: Bridge is eligible for the NRHP. [2]

Total length: 389.2 m = 1277.0 ft

Length of maximum span: 54.9 m = 180.1 ft

Deck width, out-to-out: 6.3 m = 20.7 ft

Bridge roadway width, curb-to-curb: 5.6 m = 18.4 ft

Inventory Route, Total Horizontal Clearance: 5.6 m = 18.4 ft

Curb or sidewalk width - left: 1.8 m = 5.9 ft

Curb or sidewalk width - right: 0 m = 0.0 ft

Deck structure type: Open Grating [3]

Type of wearing surface:

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi

Method to determine inventory rating: Allowable Stress(AS) [2]

Method to determine operating rating: Allowable Stress(AS) [2]

Inventory rating: 20.9 metric ton = 23.0 tons

Operating rating: 32.7 metric ton = 36.0 tons

Bridge posting: Equal to or above legal loads [5]

Design Load:

Functional Details

Average Daily Traffic	21397
Average daily truck traffi	0 %
Year	1992
Future average daily traffic	20170
Year	2012
Road classification	Other Principal Arterial (Urban) [14]
Lanes on structure	2
Approach roadway width	5.5 m = 18.0 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	5 m = 16.4 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	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	1000
Roadway improvement cost	2000
Length of structure improvement	486 m = 1594.6 ft
Total project cost	11000
Year of improvement cost estimate	
Border bridge - state	Unknown [342]
Border bridge - percent responsibility of other state	
Border bridge - structure number	0

Inspection and Sufficiency

Structure status	Posted for load [P]
Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Very Good [8]
Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Very Good [8]
Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Very Good [8]
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	Equal to present desirable criteria [8]
Status evaluation	
Pier or abutment protection	
Sufficiency rating	53.2
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	
Traffic safety features - approach guardrail ends	
Inspection date	April 2012 [0412]
Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]
Underwater inspection date	September 1995 [0995]
Fracture critical inspection	Every two years [Y24]
Fracture critical inspection date	April 2012 [0412]
Other special inspection	Every year [Y12]
Other special inspection date	April 2013 [0413]