

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] Lehigh County [077] Bethlehem [06088] HILL TO HILL BRIDGE 40-36-49 = 40.613611 075-23-02 = - 75.383889
 390378007400000 Highway agency district: 5 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 378 North [1] PA 378(LR 297) Toll On free road [3] Features intersected LEHIGH RIV,R.R.,CITY STS

Design - main Concrete [1] Design - approach Steel [3] Kilometerpoint 481 km = 298.2 mi
 10 Arch - Deck [11] 3 Mixed types [20] Year built 1924 Year reconstructed 1990
 Skew angle 0 Structure Flared
 Historical significance Bridge is not eligible for the NRHP. [5]

Total length 489.8 m = 1607.0 ft Length of maximum span 52.1 m = 170.9 ft Deck width, out-to-out 18.9 m = 62.0 ft Bridge roadway width, curb-to-curb 12.2 m = 40.0 ft
 Inventory Route, Total Horizontal Clearance 12.2 m = 40.0 ft Curb or sidewalk width - left 1.8 m = 5.9 ft Curb or sidewalk width - right 1.8 m = 5.9 ft

Deck structure type Not applicable [N]
 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 0.5 km = 0.3 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 41.7 metric ton = 45.9 tons
 Method to determine operating rating Load Factor(LF) [1] Operating rating 69.9 metric ton = 76.9 tons
 Bridge posting Equal to or above legal loads [5] Design Load M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

Year of improvement cost estimate

Border bridge - state Border bridge - percent responsibility of other state

Border bridge - structure number

Inspection and Sufficiency

Structure status	<input type="text" value="Open, no restriction [A]"/>	Appraisal ratings - structural	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
Condition ratings - superstructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present desirable criteria [8]"/>
Condition ratings - substructure	<input type="text" value="Fair [5]"/>	Appraisal ratings - deck geometry	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required. [4]"/>		
Channel and channel protection	<input type="text" value="Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Superior to present desirable criteria [9]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="63.1"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Traffic safety features - approach guardrail ends	<input type="text" value="Inspected feature meets currently acceptable standards. [1]"/>		
Inspection date	<input type="text" value="April 2007 [0407]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Every two years [Y24]"/>	Underwater inspection date	<input type="text" value="April 2009 [0409]"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>