

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Pennsylvania [42]		Lehigh County [077]		Washington [81280]		LEHIGH GAP BRIDGE		40-46-58.88 = 40.783022		075-36-24.06 = -75.606683	
23207		Highway agency district: 5		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 873		PA 873 (LR 163)		Toll On free road [3]		Features intersected LEHIGH RIVER & N/S RR					
Design - main Steel [3]		Design - approach Steel [3]		Kilometerpoint 1333 km = 826.5 mi		Year built 1930		Year reconstructed 1984			
5		Truss - Deck [09]		2		Girder and floorbeam system [03]		Skew angle 30		Structure Flared Yes, flared [1]	
Historical significance Bridge is not eligible for the NRHP. [5]											
Total length 312.1 m = 1024.0 ft		Length of maximum span 50 m = 164.1 ft		Deck width, out-to-out 7.9 m = 25.9 ft		Bridge roadway width, curb-to-curb 7.3 m = 24.0 ft					
Inventory Route, Total Horizontal Clearance 7 m = 23.0 ft		Curb or sidewalk width - left 0.2 m = 0.7 ft		Curb or sidewalk width - right 1.2 m = 3.9 ft							
Deck structure type		Closed Grating [4]									
Type of wearing surface		Monolithic Concrete (concurrently placed with structural deck) [1]									
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		8 metric ton = 8.8 tons	
0.6 km = 0.4 mi		Method to determine operating rating		Allowable Stress(AS) [2]		Operating rating		41 metric ton = 45.1 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load		MS 18 / HS 20 [5]			

Functional Details

Average Daily Traffic	8548	Average daily truck traffi	4	%	Year	2012	Future average daily traffic	11417	Year	2032
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	2		Approach roadway width	8.5 m = 27.9 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	Railroad-waterway [7]		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	10 m = 32.8 ft						
Minimum lateral underclearance reference feature	Railroad beneath structure [R]									
Minimum lateral underclearance on right	0 = N/A				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	6 m = 19.7 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by owner's forces [2]		
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	0	Roadway improvement cost	0
	Length of structure improvement	317 m = 1040.1 ft	Total project cost	2000
	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	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Fair [5]	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	Satisfactory [6]		
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	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	8.8
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	October 2011 [1011]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	June 2010 [0610]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2011 [1011]
Other special inspection	Not needed [N]	Other special inspection date	