

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]		Allentown [02000]		TILGHMAN ST.VIADUCT		40-36-59.10 = 40.616417		075-27-33.97 = -75.459436	
23217		Highway agency district: 5		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 0		SR1002TILGHMAN/157		Toll On free road [3]		Features intersected LEHIGH RIVER CORMAN RR					
Design - main Concrete [1]		Design - approach Other [00]		Kilometerpoint 1546.1 km = 958.6 mi		Year built 1929		Year reconstructed 1995			
12		Arch - Deck [11]		0		Skew angle 0		Structure Flared			
				Historical significance Bridge is eligible for the NRHP. [2]							
Total length 422.8 m = 1387.2 ft		Length of maximum span 56.4 m = 185.0 ft		Deck width, out-to-out 16.4 m = 53.8 ft		Bridge roadway width, curb-to-curb 11 m = 36.1 ft					
Inventory Route, Total Horizontal Clearance 11 m = 36.1 ft		Curb or sidewalk width - left 2.4 m = 7.9 ft		Curb or sidewalk width - right 2.4 m = 7.9 ft							
Deck structure type		Concrete Cast-in-Place [1]									
Type of wearing surface		Other [9]									
Deck protection											
Type of membrane/wearing surface											

Weight Limits

Bypass, detour length 0.3 km = 0.2 mi		Method to determine inventory rating		Inventory rating 32.7 metric ton = 36.0 tons	
		Method to determine operating rating		Operating rating 49 metric ton = 53.9 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	17492	Average daily truck traffi	4	%	Year	2018	Future average daily traffic	39382	Year	2032
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	2	Approach roadway width	11 m = 36.1 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	8	Navigation control					
Navigation vertical clearanc	0 = N/A			Navigation horizontal clearance	0 = N/A					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft				Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0 = N/A				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4.57 m = 15.0 ft			Minimum vertical underclearance reference feature	Highway beneath structure [H]					
Appraisal ratings - underclearances										

Repair and Replacement Plans

Type of work to be performed	Work done by	Work to be done by contract [1]								
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	499000	Roadway improvement cost	1469000						
	Length of structure improvement	387 m = 1269.7 ft		Total project cost	6733000					
	Year of improvement cost estimate									
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

Inspection and Sufficiency

Structure status	Bridge closed to all traffic [K]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
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 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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	54.7
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	February 2018 [0218]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	December 2014 [1214]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	