

HistoricBridges.org - National Bridge Inventory Data Sheet

2019 Inventory

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]		Berks County [011]		Caernarvon [10696]		EAST OF MORGANTOWN		40-09-20.76 = 40.155767		075-52-19.66 = -75.872128	
5293		Highway agency district: 5		Owner State Toll Authority [31]		Maintenance responsibility		State Toll Authority [31]			
Route 23		LR 412,SR 0023		Toll On free road [3]		Features intersected		PA TPK (I-76)			
Design - main		Steel [3]		Design - approach		Kilometerpoint 152.1 km = 94.3 mi					
1		Girder and floorbeam system [03]		0		Other [00]		Year built 1950		Year reconstructed N/A [0000]	
								Skew angle 57		Structure Flared	
								Historical significance		Bridge is not eligible for the NRHP. [5]	
Total length		47.9 m = 157.2 ft		Length of maximum span		46.6 m = 152.9 ft		Deck width, out-to-out		13.4 m = 44.0 ft	
								Bridge roadway width, curb-to-curb		11.6 m = 38.1 ft	
Inventory Route, Total Horizontal Clearance		11.6 m = 38.1 ft		Curb or sidewalk width - left		0.3 m = 1.0 ft		Curb or sidewalk width - right		0.3 m = 1.0 ft	
Deck structure type		Concrete Cast-in-Place [1]									
Type of wearing surface		Latex Concrete or similar additive [3]									
Deck protection											
Type of membrane/wearing surface											

Weight Limits

Bypass, detour length		Method to determine inventory rating		Load Factor(LF) [1]		Inventory rating		37.2 metric ton = 40.9 tons	
1.6 km = 1.0 mi		Method to determine operating rating		Load Factor(LF) [1]		Operating rating		61.7 metric ton = 67.9 tons	
Bridge posting		Equal to or above legal loads [5]		Design Load		MS 18 / HS 20 [5]			

Functional Details

Average Daily Traffic	12047	Average daily truck traffi	7	%	Year	2018	Future average daily traffic	14048	Year	2030
Road classification	Minor Arterial (Rural) [06]		Lanes on structure	2		Approach roadway width	10.1 m = 33.1 ft			
Type of service on bridge	Highway [1]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designation	No parallel structure exists. [N]									
Type of service under bridge	Highway, with or without ped		Lanes under structure	4		Navigation control	Not applicable, no waterway. [N]			
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	3.2 m = 10.5 ft					Minimum lateral underclearance on left	1.2 m = 3.9 ft			
Minimum Vertical Underclearance	4.58 m = 15.0 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Meets minimum tolerable limits to be left in place as is [4]									

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	57000	Roadway improvement cost	169000
	Length of structure improvement	57 m = 187.0 ft	Total project cost	774000
	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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Good [7]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	
Pier or abutment protection		Sufficiency rating	75.2
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	Inspected feature meets currently acceptable standards. [1]		
Inspection date	May 2017 [0517]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2017 [0517]
Other special inspection	Not needed [N]	Other special inspection date	