

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]		Beaver County [007]		Beaver Falls [04792]		EASTVALE-BEAVER FALLS BR		40-45-58.47 = 40.766242		080-19-02.59 = -80.317386	
3630		Highway agency district: 11		Owner State Highway Agency [01]		Maintenance responsibility		State Highway Agency [01]			
Route 588		EASTVALE BR		Toll On free road [3]		Features intersected BEAVER R,CSX RR, N-S RR					
Design - main		Steel continuous [4]		Design - approach		Kilometerpoint 503.7 km = 312.3 mi					
3		Truss - Thru [10]		0 Other [00]		Year built 1961		Year reconstructed 1994			
						Skew angle 0		Structure Flared			
						Historical significance Bridge is possibly eligible for the NRHP. [3]					
Total length		256 m = 839.9 ft		Length of maximum span		109.7 m = 359.9 ft		Deck width, out-to-out		19.7 m = 64.6 ft	
								Bridge roadway width, curb-to-curb		15.8 m = 51.8 ft	
Inventory Route, Total Horizontal Clearance		7.8 m = 25.6 ft		Curb or sidewalk width - left		0.3 m = 1.0 ft		Curb or sidewalk width - right		1.5 m = 4.9 ft	
Deck structure type		Concrete Cast-in-Place [1]									
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		Load Factor(LF) [1]		Inventory rating		41.7 metric ton = 45.9 tons	
1.6 km = 1.0 mi		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		MS 18+Mod / HS 20+Mod [6]			

Functional Details

Average Daily Traffic	5692	Average daily truck traffi	5	%	Year	2018	Future average daily traffic	6184	Year	2032
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	4		Approach roadway width	18.9 m = 62.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median	Closed median with non-mountable barr			
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	0 m = 0.0 ft					Minimum vertical clearance over bridge roadway	4.78 m = 15.7 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	6.75 m = 22.1 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	159000	Roadway improvement cost	467000
	Length of structure improvement	256 m = 839.9 ft	Total project cost	2142000
	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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		
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	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	68.3
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	June 2017 [0617]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2018 [1018]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	June 2017 [0617]
Other special inspection	Not needed [N]	Other special inspection date	