

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]	Lancaster County [071]	Clay [13960]	CLAY TWP	40-14-41.20 = 40.244778	076-13-39.23 = -76.227564
21778	Highway agency district: 8	Owner State Toll Authority [31]	Maintenance responsibility State Toll Authority [31]		
Route 0	T-646	Toll On free road [3]	Features intersected PA TPK (I-76)		
Design - main Concrete [1]	Design - approach 0	Other [00]	Kilometerpoint 0 km = 0.0 mi	Year built 1949	Year reconstructed
1	Frame [07]		Skew angle 6	Structure Flared	
			Historical significance	Bridge is not eligible for the NRHP. [5]	
Total length 26.5 m = 86.9 ft	Length of maximum span 23.8 m = 78.1 ft	Deck width, out-to-out 7.1 m = 23.3 ft	Bridge roadway width, curb-to-curb 6.1 m = 20.0 ft		
Inventory Route, Total Horizontal Clearance 6.1 m = 20.0 ft	Curb or sidewalk width - left 0.2 m = 0.7 ft	Curb or sidewalk width - right 0.2 m = 0.7 ft			
Deck structure type	Not applicable [N]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating 39 metric ton = 42.9 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating 65.3 metric ton = 71.8 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	200	Average daily truck traffi	6	%	Year	1992	Future average daily traffic	315	Year	2030
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	6.7 m = 22.0 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 m = 9.8 ft					Minimum lateral underclearance on left	1.2 m = 3.9 ft			
Minimum Vertical Underclearance	4.81 m = 15.8 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	6000	Roadway improvement cost	17000
	Length of structure improvement	34 m = 111.6 ft	Total project cost	78000
	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	Satisfactory [6]		
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	79.5
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	April 2017 [0417]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	