

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

Maine [23]	Cumberland County [005]	Harpswell [31390]	24 OVER WILLS STRAIT	43-44-57.95 = 43.749431	069-59-18.60 = -69.988500
2033	Highway agency district: 1	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 24		RTE 24	Toll On free road [3]	Features intersected	WILLS STRAIT (ATL OCEAN)
Design - main	Concrete [1]	Design - approach	Concrete [1]	Kilometerpoint	188.3 km = 116.7 mi
1	Tee beam [04]	78	Slab [01]	Year built	1926
				Year reconstructed	2010
				Skew angle	15
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]
Total length	355.7 m = 1167.1 ft	Length of maximum span	15.9 m = 52.2 ft	Deck width, out-to-out	8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearance	5.5 m = 18.0 ft	Curb or sidewalk width - left	0.2 m = 0.7 ft	Curb or sidewalk width - right	1.5 m = 4.9 ft
Deck structure type	Concrete Precast Panels [2]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface	Preformed Fabric [2]				

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load and Resistance Factor Rating (L)	Inventory rating	48.6 metric ton = 53.5 tons
16.1 km = 10.0 mi	Method to determine operating rating	Load and Resistance Factor Rating (L)	Operating rating	63.2 metric ton = 69.5 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	2038	Average daily truck traffi	5	%	Year	2016	Future average daily traffic	2853	Year	2036
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	6.1 m = 20.0 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	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	3 m = 9.8 ft		Navigation horizontal clearance	15.2 m = 49.9 ft						
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	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	99.9 = Unlimited					Minimum lateral underclearance on left	99.9 = Unlimited			
Minimum Vertical Underclearance	0 = N/A		Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]						
Appraisal ratings - underclearances	N/A [N]									

Repair and Replacement Plans

Type of work to be performed	Work done by				
	Bridge improvement cost		Roadway improvement cost		
	Length of structure improvement		Total project cost		
	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	Very Good [8]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Very Good [8]		
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	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	58
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	November 2017 [1117]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2018 [1018]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	