HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion 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

Massachusetts [25]	Essex County [009]	Haverhill [29405]	AT WEST NEWBURY MERRIMAC	42-48-37 = 42.810278	071-00-00 = -71.000000

H12020311DOTNBI	Highway agency district	4	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	0		HWY RKS VILG BRG	Toll	On free road [3]	Features intersected	WATER MERRIMACK RIVER

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0.2 km = 0.1 mi		
1	Movable - Swing [17]	5	Truss - Thru [10]	Year built	1883	Year reconstructed	1914
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]		

Total length	247.5 m = 812.0 ft	Length of maximum span	58.5 m = 191.9 ft	Deck width, out-to-out	8.2 m = 26.9 ft	Bridge roadway width, curb-to-curb	7.3 m = 24.0 ft
Inventory Route, Total Horizontal Clearance	7.3 m = 24.0 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Bituminous [6]
Deck protection	
Type of membrane/wearing surface	Built-up [1]

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	6.7 metric ton = 7.4 tons
0.6 km = 0.4 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	11.2 metric ton = 12.3 tons
	Bridge posting		Design Load	

Functional Details

Average Daily Traffic	6500	Average daily truck traffi	2 %	Year	2009	Future average daily traffic	10234
Year	2030						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	Approach roadway width	7.9 m = 25.9 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	Waterway [5]	Lanes under structure	0	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	5.2 m = 17.1 ft	Navigation horizontal clearance	16.5 m = 54.1 ft				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	3.88 m = 12.7 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]						
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A				
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

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	11323000	Roadway improvement cost	1133000
Length of structure improvement	240 m = 787.4 ft	Total project cost	16985000
Year of improvement cost estimate	2011		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		
Scour	Scour calculation/evaluation has not been made. [6]		
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	0
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			

Inspection date	July 2009 [0709]	Designated inspection frequency	12	Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	October 2010 [1010]	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	July 2009 [0709]	
Other special inspection	Every year [Y12]	Other special inspection date	July 2010 [0710]	