

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

Massachusetts [25]	Middlesex County [017]	Lowell [37000]	JUST S OF VFW HWY	42-39-06 = 42.651667	071-19-29 = - 71.324722
L150212BMMUNNBI	Highway agency district 4	Owner City or Municipal Highway Agency [04]	Maintenance responsibility City or Municipal Highway Agency [04]		
Route 0	HWY UNIVRSTY AVE	Toll On free road [3]	Features intersected WATER MERRIMACK RIVER		
Design - main Steel [3]	Design - approach	Kilometerpoint 125.5 km = 77.8 mi	Year built 1895	Year reconstructed 1965	
3	Truss - Deck [09]	0 Other [00]	Skew angle 0	Structure Flared	
		Historical significance	Bridge is eligible for the NRHP. [2]		
Total length 148.1 m = 485.9 ft	Length of maximum span 54.9 m = 180.1 ft	Deck width, out-to-out 15.4 m = 50.5 ft	Bridge roadway width, curb-to-curb 11.2 m = 36.7 ft		
Inventory Route, Total Horizontal Clearance 7.5 m = 24.6 ft	Curb or sidewalk width - left 1.4 m = 4.6 ft	Curb or sidewalk width - right 1.7 m = 5.6 ft			
Deck structure type	Open Grating [3]				
Type of wearing surface					
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	14.8 metric ton = 16.3 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	20.7 metric ton = 22.8 tons
Bridge posting	30.0 - 39.9 % below [1]		Design Load	

Functional Details

Average Daily Traffic	12000	Average daily truck traffi	3	%	Year	2009	Future average daily traffic	33165	Year	2030
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	2		Approach roadway width	11.3 m = 37.1 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	27.4 m = 89.9 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	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	Work done by		Work to be done by contract [1]							
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	9058000	Roadway improvement cost	906000						
	Length of structure improvement	156 m = 511.8 ft		Total project cost	13588000					
	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	<input type="text" value="Posted for load [P]"/>	Appraisal ratings - structural	<input type="text" value="Basically intolerable requiring high priority of replacement [2]"/>
Condition ratings - superstructure	<input type="text" value="Poor [4]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Equal to present minimum criteria [6]"/>
Condition ratings - substructure	<input type="text" value="Satisfactory [6]"/>	Appraisal ratings - deck geometry	<input type="text" value="Meets minimum tolerable limits to be left in place as is [4]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]"/>		
Channel and channel protection	<input type="text" value="Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Better than present minimum criteria [7]"/>	Status evaluation	<input type="text" value="Structurally deficient [1]"/>
Pier or abutment protection	<input type="text" value="Navigation protection not required [1]"/>	Sufficiency rating	<input type="text" value="40.7"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="August 2009 [0809]"/>	Designated inspection frequency	<input type="text" value="12"/> Months
Underwater inspection	<input type="text" value="Not needed [N]"/>	Underwater inspection date	<input type="text"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="August 2009 [0809]"/>
Other special inspection	<input type="text" value="Every year [Y12]"/>	Other special inspection date	<input type="text" value="August 2010 [0810]"/>