

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

Massachusetts [25] Hampden County [013] Chicopee [13660] AT CHICOPEE-HOLYOKE T.L. 42-11-41 = 42.194722 072-36-06 = - 72.601667

C1301213RDOT634 Highway agency district 2 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 116 ST116 ST141/CABOT Toll On free road [3] Features intersected COMB CONN RIV & PVRR

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 1261.7 km = 782.3 mi

4 Truss - Thru [10] 2 Girder and floorbeam system [03] Year built 1891 Year reconstructed N/A [0000]

Skew angle 7 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 243.2 m = 797.9 ft Length of maximum span 52.7 m = 172.9 ft Deck width, out-to-out 9.2 m = 30.2 ft Bridge roadway width, curb-to-curb 8.2 m = 26.9 ft

Inventory Route, Total Horizontal Clearance 8.5 m = 27.9 ft Curb or sidewalk width - left 1.8 m = 5.9 ft Curb or sidewalk width - right 1.8 m = 5.9 ft

Deck structure type Closed Grating [4]

Type of wearing surface Bituminous [6]

Deck protection

Type of membrane/wearing surface Built-up [1]

Weight Limits

Bypass, detour length 1.3 km = 0.8 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 12.7 metric ton = 14.0 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 21.2 metric ton = 23.3 tons

Bridge posting 30.0 - 39.9 % below [1] Design Load M 18 / H 20 [4]

Functional Details

Average Daily Traffic	15000	Average daily truck traffi	3	%	Year	2006	Future average daily traffic	23690	Year	2031
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	8.5 m = 27.9 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	Railroad-waterway [7]		Lanes under structure	0		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	5.28 m = 17.3 ft				
Minimum lateral underclearance reference feature	Railroad beneath structure [R]									
Minimum lateral underclearance on right	3.6 m = 11.8 ft				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	6.1 m = 20.0 ft		Minimum vertical underclearance reference feature	Railroad beneath structure [R]						
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 contract [1]								
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	11307000	Roadway improvement cost	1131000						
	Length of structure improvement	238 m = 780.9 ft		Total project cost	16961000					
	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 - superstructure

Serious [3]

Appraisal ratings -
roadway alignment

Somewhat better than minimum adequacy to tolerate being left in place as is [5]

Condition ratings - substructure

Fair [5]

Appraisal ratings -
deck geometry

Basically intolerable requiring high priority of corrective action [3]

Condition ratings - deck

Fair [5]

Scour

Scour calculation/evaluation has not been made. [6]

Channel and channel protection

Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy

Superior to present desirable criteria [9]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

3

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 2010 [1110]

Designated inspection frequency

6

Months

Underwater inspection

Unknown [Y36]

Underwater inspection date

September 2009 [0909]

Fracture critical inspection

Every two years [Y24]

Fracture critical inspection date

November 2010 [1110]

Other special inspection

Unknown [Y06]

Other special inspection date

November 2010 [1110]