

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] Franklin County [011] Greenfield [27025] AT GRNFIELD-MONTAGUE T.L. 42-34-49 = 42.580278 072-34-47 = - 72.579722

G12020134DOTNBI Highway agency district 2 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 0 HWY MTGUE CTY RD Toll On free road [3] Features intersected WATER CONNECTICUT RIVER

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 0 km = 0.0 mi

2 Truss - Thru [10] 2 Stringer/Multi-beam or girder [02] Year built 1947 Year reconstructed N/A [0000]

Skew angle 28 Structure Flared

Historical significance Bridge is possibly eligible for the NRHP. [3]

Total length 229.5 m = 753.0 ft Length of maximum span 121.3 m = 398.0 ft Deck width, out-to-out 11.3 m = 37.1 ft Bridge roadway width, curb-to-curb 7.9 m = 25.9 ft

Inventory Route, Total Horizontal Clearance 7.9 m = 25.9 ft Curb or sidewalk width - left 0.2 m = 0.7 ft Curb or sidewalk width - right 1.6 m = 5.2 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 0.8 km = 0.5 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 22.5 metric ton = 24.8 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 37.6 metric ton = 41.4 tons

Bridge posting Equal to or above legal loads [5] Design Load M 18 / H 20 [4]

Functional Details

Average Daily Traffic	19400	Average daily truck traffi	6	%	Year	2003	Future average daily traffic	30638	Year	2032
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-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 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	4.52 m = 14.8 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]								
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	5996000	Roadway improvement cost	600000						
	Length of structure improvement	230 m = 754.6 ft		Total project cost	8995000					
	Year of improvement cost estimate	2012								
	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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour conditions; field review indicates action is required. [4]		
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	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	42.1
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	May 2011 [0511]	Designated inspection frequency	12 Months
Underwater inspection	Unknown [Y36]	Underwater inspection date	August 2010 [0810]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2011 [0511]
Other special inspection	Every year [Y12]	Other special inspection date	May 2011 [0511]