Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: FIT.936

Historic Name: Upper Rollstone Street Bridge

Common Name: B & M Railroad Fitchburg Main Line Bridge #A-73

Address:

City/Town: Fitchburg

Village/Neighborhood: Fitchburg

Local No:

Year Constructed:

Architect(s):

Architectural Style(s):

Use(s): Other Rail Related; Other Transportation

Significance: Engineering; Transportation

Area(s): FIT.E: Nashua River Area

Designation(s):



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Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

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Friday, March 07, 2014 at 2:38: AM

MASSACHUSETTS HISTORIC BRIDGE INVENTORY

Municipality: Fitchburg	halos" k hanist	District: 3
Street name/Rt. #: 57 31, Rollstone	<u>e 31.</u>	stro editorad Habitata
Street name/Rt. #: Broad 54., N. Nao	hua R.	Forth some A set state
Bridge key #: 747 387 002 101 P	hoto ##s: 42: 33A-30	GA, 43:0A-2A, 4A
Bridge plan #: F-4-12	yd filod enor sobri š Pariosono Borne na	andicus Francis — () Calcin de Maria de Control
Common/historic name: Upper Rollotone Br	ridge; ang. part of BE	MRR Fitchburg Main Line
Current owner:	Bridge - A-	18, later 50.21
UTM coordinates:	AASHTO ratin	ig: 304 (7-1-88)
*************	**********	*******
National Register status (insert da	te)	Field rating:
Entered: Potential:		3 ② 1
Eligible: Non-eligib	le:	
**************************************	********	* ********
Date built (source): 1909 (plans)		
Date(s) rebuilt (source):		
Builder (source):		
Designer (source):		18401106
Structural type/materials: 309, and 9-p 2 simple spans, riveted steel 8-panel, Prat through plate girder over Broad St. Steep of trusses. Both trusses bear on their lower bear on their upper chords at their opposite chords, but chords rise at 4.6% grade from N rise at 4.6% grade, but lower chords of thes	t deck trusses over gradient of roadway er chords on the share ends. Southern truss into 5. Northern truss	contributes to non-unitormit ed river pier, both trusses opan trusses have parallel opan truss upper chords als
Overall length: 231 Deck width	n/layout: 40.6' ov	f-out
Skew: week) & who was possed each of	o cêla also mod al	
Main unit, # spans: 2 lengths	31 2 @ 86	hepo in condend anni-
Approaches, # spans: 1 lengths	3: 55'	B1 97 37 10-15-753
Plaque: none ocen location:	Almonia de la compansión de la compansió	its and in the rear area?
Alterations, unusual features, comme	ents:	
1949.50 original timber stringers, plank of present W steel stringers, and concrete of and timber rails. Some repairs to steel wo webs of plate girder span. 1957 repairs to piers and abutments.		ok wearing ourface replaced juardrail replaced iron pool new ofeel plate welded onto
The table to be and document.		

Visua	l quality	(bridge a	nd s	etting):	High	Average X	Low
Site	integrity:	Retaine	d X	Violat	ed		

Describe: Bridge connects the old Upper Common commercial/civic core of Fitchburg with the later residential areas on Rollotone Hill, olicina through the formerly industrial district along the Nashua. This bridge rises alongside the old, low-level Bridge across the Nashua. F-4-13, an 1870 Parker pony truss.

History of bridge and site:

The Upper Rollotone Bridge was built by the BGM RR, the City of Fitchburg, and the State as part of a railroad grade crossing elimination project. Prior to this time, traffic crossing the Nashua River on the old, low-level Rollotone St. bridge had then to cross the BEM tracks at grade before beginning a steep ascent up the side of Rollotone Hill. In 1909, the DEM built a plate girder span (F-4-27, reconstructed in 1977) to carry highway traffic over the tracks; a short, filled embankment linked the railroad span to the 3-span Upper Rollotone Bridge. These new bridges and connecting embankment are located alongside (northwest of) the 1870, low-level Parker truss bridge, which still remains on its original site.

Sources:

10.11. /

Maint /

Pians 1909, 1949, 1957

RR Bayside 1978

Old B.H. V

Summary statement of significance:

The 200 newest of the 5 known Pratt deck trusses in the MDPW data base. A peculiar example of the type, with the trusses distorted to accommodate the 4.6% grade of the roadway which they carry.

Somewhat altered in mid-20th century, with deck, stringers + quardrails completely replaced.

Deck trusses actually form only 2/33 of this bridge, with a (heavily repaired) through plate girder span over Broad St. comprising the remainder of the bridge.

Adjacent to the 1870 Parker ponytruss Lower Rollstone Bridge (F-4-13) which has been agreed to be eligible for listing in the National Register.

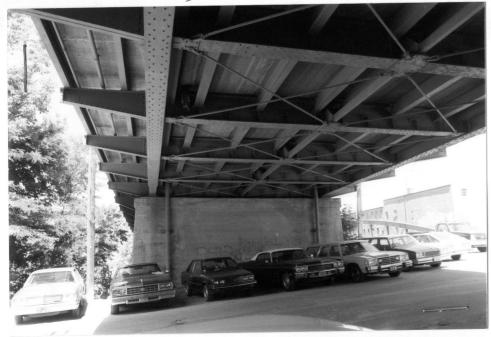
MDPW RECOMMENDATION - NATIONAL REGISTER ELIGIBILITY

,	Municipality	Street on	No.
Bridge: Fitchburg	ST 31, Rollstone St./N	Nachua R., Broad St.	F-4-12
Historic evaluation	<u>1</u>		
Significant bed	cause:		
1) Unusual or v	unique type Praff de	ak truss	
or rare surv	vivor of common type	e	· · · · · · · · · · · · · · · · · · ·
2) Early exampl	le of type	. 19	
3) Design - Val	luable contribution	to bridge techno	ology
4) Retains inte	egrity		
5) Builder know	wn and important		<u> </u>
6) Bridge histo	orically important	to area	4 - 1 - - 1
Not significant	t because:		
1) Common type			
2) Post-1931			
	contribution to br	idge technology	
	ost because of: a)	alterations	~
	b)	disintegration	
5) Builder uni	mportant or not know	<u>wn</u>	~
6) No known s	ignificance in area		
Potentially el	The state of the s	Not eligible	nat olioiblos
Bridge (F-4-13) who Comments: Porth	diacent to Lower Rollotone L ich hao been agreed to be tentially eligible for listing in e National Register.	review when	not eligible; 50 years old
structural type (the	what altered, example of) used in combination wi plate girder span). .NR-eligible Lower Rollsto		n structural type ample of a common
17 August 1989	5.1.7	Roper_,MDPW Historic	Bridge Specialist

COMMONWEALTH OF MASSACHUSETTS FITCHBURG QUAD. DEPARTMENT OF PUBLIC WORKS F-4-17 47'30" 50 FITCHBURG LA Falulah servoir 690 Reservoir Saima Scol Saima Pond CCen Greenes Pond FISHER # Crocker \ Sch reldon and Putnam Hospita Pond Querlook Reservoir 3 Manshall Rollstone Hinb Playground St Bernards Gemetery Parkhill Park



DECK TRUSS SPANS FROM NW (W/ F-4-13'IN BACKGROUND)



FROM SW ABUTMENT LOOKING NE, SHOWING UNDERSIDE PLATE GIRDER SPAN, AND SW PIER



BROAD ST. (PLATE GIRDER) SPAN, FROM W



FROM NE



FROM SW



FROM SWEEN DECK TRUSS PIER, LOOKING NE



FROM NE



SW FROM

TO: BETSY FRIEDBERG	RETURN TO REVIEWER BY
FROM: WM. SMITH	(DAIE)
DATE: 12/10/96	
may + 4/1	
10mm 1/12 st 21/1	allstone st. oven N. NAShua River/
(NAME AND ADDRESS)	Broad st.
upper Rollston	En. Use
1. Does this property meet the criteria 1.	or NR eligibility?
YES	
NO - Located Agran	(F-4-13) 1870 panker popy fruit
A. Criteria	(F-4-13) 1870 PARIS 1 13
b. lives	
c. characteristicsd. information	
B. Local State State	National
b. mai	
2. Statement of Significance: OR Why n	ot eligible?
	1. Pratt-cleek trus ce. 49
plate Girden Approache	SPAN
	<u> </u>
Altered example of a	in encommen Bridge True.
plate Ginden approach	Span Lost integnity due.
le affereilm.	
DOE LETTER WRITTEN	FILED IN ER FILE
	• • • • • • • • • • • • • • • • • • • •
(DATE)	Not individually eligible
·	MACHILLED advice to The
	way be adjacent to a
	potentially elicible
	potentially elitible Listrict. Need more survey or area.

The following bridge does not appear to meet National Register criteria at present. However, as this bridge reaches 50 years of age, its National Register eligibility should be reassessed.

Boston/Chelsea

B-16-17/C-9-6 United States Route 1 over Mystic River

Three span cantilever Warren type web through truss. Double deck bridge is a Boston landmark.

Montgomery/Russell

M-30-8/R-13-18 I90 over U.S. Route 20, Westfield River

1957 Eight span, two continuous span riveted steel Pratt deck truss. A landmark bridge and the only Pratt deck truss to be designed with continuous deck truss spans.

The following bridges <u>did</u> <u>not</u> appear to meet National Register criteria for individual listing. However, the bridges are within, or adjacent to an historic district or potentially eligible historic district, and plans for replacement should take into consideration potential impact to adjacent properties.

Fitchburg

F-4-12 State Rte. 31/Rollstone Street over North Nashua River, Broad Street

This bridge is located adjacent to lower Rollstone Bridge (1870 Parker pony truss).

Greenfield/Montague

G-12-20/M-28-1 Montague City Road over Connecticut River

This bridge stands between East Greenfield and Montague city. Though inventory is incomplete, significant historic resources are in both areas. There is a group of turn of the century cottages on Montague City Road that may be eligible for listing in the National Register.

Lawrence

L-4-24 Salem Street over B & M Railroad

This bridge is adjacent to mill building and Victorian Gothic church; however, the level of information on this area is not well documented at this time.

The MHC concurs with the preliminary findings of MDPW that the following bridges do not appear to meet criteria for listing in the National Register of Historic Places.

Amesbury/Newburyport

A-7-16/N-11-17 I-95 over Merrimack River

Lowell		L-15-19	Bridge Street over Merrimack River		
1937	Three span cantilever Warren type through truss. This visual landmark is a rare example of a major structural type in Massachusetts. Adjacent to the Locks and Canals Historic District (NR, NHL).				
<u>Lowell</u>		L-15-21	Textile Avenue over Northern Canal, Merrimack River		
1896	Three span pinned steel Pratt deck truss. Oldest example of an uncommon highway bridge type in Massachusetts. It spans over the Northern Canal and Great River Wall of the Locks and Canals National Register Historic District.				
Montague		M-28-18	Bridge Street over B & M Railroad/ C.V. Railroad		
1897	Latticed type through truss designed by Edge Moor Bridge Company of Delaware. It is the only known example of this unique bridge type				
Northfiel	<u>ld</u>	N-22-2	East Northfield Road over Connecticut River		
1901-1903 Three span steel Pennsylvania through truss. Unique variation of an uncommon bridge type. Gracefully designed bridge in an outstanding natural setting. The bridge is designed to function as a continuous truss under live loads and a simple truss with cantilevered ends under dead load.					
Stockbrid	<u>lge</u>	S-26-3	Butler Road over Housatonic River		
Pin connected wrought iron half through Pratt pony truss with Borneman type stone pedestals rising above abutments. A <u>rare</u> and unique bridge design by a world famous bridge designer - George Morison. Bridge has national significance.					
<u>Waltham</u>		W-4-9	B & M Railroad over State Rte. 60, Linden Street		
1894	Steel lattice through	truss with o	uad web system. Intact example of		

1894

Steel lattice through truss with quad web system. Intact example of an uncommon bridge type severely skewed. Reviewed and entered in the National Register of Historic Places 9/28/89.

Windsor

W-41-11 Windsor Bush Road over Phelps Brook

FIT. 936

1893 One span iron and steel Ball Queen post. One of only two surviving examples of Charles Ball unique pipe truss bridge.

Cabot Street (Rte. 116) over Conrail

Six span steel Pennsylvania through truss. Oldest of the five known Pennsylvania through trusses and is one of the earliest known steel bridges in Massachusetts. Designed by Edward Shaw and built by the R.F. Hawkins iron works.

Dalton

D-1-11 Holiday Road over Wahconah Brook

One span Ball Queenpost pony truss. One of only two surviving examples of Charles Ball unique patented pipe truss bridge. Previously reviewed by the Massachusetts Historical Commission and determined eligible 10/6/81.

Erving/Montague

E-10-3/M-28-0

Central Vermont Railroad over Millers River, Newton Street

1905 Five span pin-connected Pratt deck truss. Impressive example of a pin-connected long span deck truss which was favored by American railroads in the 19th century. Bridge is eligible individually and as a contributing element to a potential National Register District.

Framingham

F-7-5 Main Street over Sudbury River

Rare wrought iron bowstring arch pony truss. It is the <u>only</u> known surviving bowstring metal arch in the Massachusetts Department of Public Works database. It is one of six surviving metal truss bridges in the MDPW database built prior to 1880.

Holyoke/South Hadley

H-21-1/S-18-4

State 116/Bridge Street over Connecticut River

Ten spans wrought iron lattice through truss. A landmark bridge, which is the oldest metal lattice through truss in Massachusetts. It is the only known truss bridge to have ten spans. Bridge was determined to be eligible for the National Register 1/9/79.

Lancaster

L-2-4

Bolton Road over Nashua River

Pinned and bolted wrought iron and cast iron Post's type pony truss. Very early and unique metal truss bridge with national significance entered in the National Register of Historic Places 9/10/79.

Lancaster

L-2-8

Ponakin Road over Nashua River

Post truss. This bridge is the <u>only</u> known surviving Post truss in the United States. This nationally significant bridge is located near a potential historic district.

Lowell

L-15-8

Hale Street over B & M Railroad

One span pin-connected wrought iron Pennsylvania through truss.

Early example of an uncommon bridge type in Massachusetts. Only one of the five Pennsylvania trusses to be pin-connected, virtually unaltered. This bridge is also located near the South Common National Register Historic District.



March 6, 1991

Mr. Anthony J. Fusco Division Administrator Federal Highway Administration Transportation Systems Center 55 Broadway - 10th Floor Cambridge, MA 02142

ATTN: Mr. H. Pearlman

RE: Massachusetts Bridges, National Register Eligibility

Dear Mr. Fusco:

The Massachusetts Historical Commission has reviewed the historic bridge inventory forms prepared by the Massachusetts Department of Public Works. The Massachusetts Historical Commission concurs with the preliminary findings of Massachusetts Department of Public Works that the following bridges meet criteria for listing in the National Register of Historic Places.

Bourne (Bourne Bridge) B-17-4 State 28 over Cape Cod Canal

Three span continuous truss with deck/through riveted steel truss, Warren type truss web. Central span is arched, and highway deck is suspended from its lower chords. Two single intersection Warren deck truss approach spans at each end of the main structure. A landmark, award winning bridge, known internationally for its design and setting.

Bourne (Sagamore Bridge) B-17-5 U.S. 6 over Cape Cod Canal

Three span continuous truss. It is virtually identical to the Bourne Bridge, without the approach spans. The bridge won Honorable Mention in 1935 for its graceful design. Both bridges are elements in a much larger engineering project of significance in its own right, the Cape Cod Canal, a potential National Register Historic District.

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Boston/Quincy	B-16-368/Q-1-50	Long Island Bridge over Quincy Bay
Conway	C-20-7	Hickory Ridge Road over South River
Erving/Montague	E-10-5/M-28-5	Paper Mill Road over Millers River
Montague	M-28-20	C.V.R.R. over North Leverett Road/ Sawmill River
Northfield	N-22-26	B & M Railroad over Caldwell Road/ Connecticut River
Westfield	W-25-4	United States Route 20 over

FIT. 936

If you have any questions, please feel free to contact William Smith of this office.

Sincerely,

Sudith B. McDonough
Executive Director

State Historic Preservation Officer Massachusetts Historical Commission

JBM/WS/kab

cc: Frank Bracaglia, MDPW