# Massachusetts Cultural Resource Information System

# **Scanned Record Cover Page**

Inventory No: NFL.926

Historic Name: Central Vermont Railroad Bridge

**Common Name:** 

Address:

City/Town: Northfield

Village/Neighborhood: West Northfield

Local No:

Year Constructed: R 1904

Architect(s):

Architectural Style(s):

Use(s): Other Transportation

Significance:

Area(s):

Designation(s):



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

This file was accessed on:

Friday, March 07, 2014 at 12:43 AM

# MASSACHUSETTS HISTORIC BRIDGE INVENTORY

	Municipality: Northfield District: 2
	Street name/Rt. #: Central Vermont RR
	Over Street name/Rt. #: Caldwell Rd., Connecticut River
	Bridge key #: RRO 236 003 000 Photo ##s: 46:14A-20A, 22A-24A
	Bridge plan #: N-22-26
	Common/historic name: CV RR Bridge No. 95
	Current owner:
	UTM coordinates: AASHTO rating: 5555 (N/A)
	*****************
	National Register status (insert date) Field rating:
	Entered: Potential: 3 2 1
	Eligible: Non-eligible: # ********************************
	Date built (source): 1904, 1936 (plates) (CV Railway Annual Report, 1905)
	Date(s) rebuilt (source):
	Builder (source): 1904 - Amer. Bridge Co. NY 1936 - Amer. Bridge Co. USA (plates)
	Designer (source):
	************
	Structural type/materials: 309 303
	1 span. pin-connected, steel, 8-panel Pratt deck truss. Adjustable counters in 4 central
1	panelo, die-forged eue-bar lower chordo in 6 central panelo, latticed otruto at lower chord
	level in end panelo. die forged eyebar diagonalo, laced channel verticalo. 3 opano, riveted oteel oingle-intersection with verticalo Warren deck trusses (1936)
	3 spans, riveted steel single-intersection with verticals warren deck trusses (1406)
	& spans. built-up steel deck plate airders large block granite ashlar piers and abutments, some added to or replaced by concrete.
	Overall length: <a 800'±="" deck="" layout:="" rr<="" single-frack="" td="" width=""></a>
	Skew:
	Main unit, # spans: 4 lengths: ca. K65':
	Approaches, # spans: 2 lengths: ea. 701
	Plaque: 4 seen location: 3, 1936, on top chords Warren trusses; 1, 1904, Eern girder, Nem approach sp. Alterations, unusual features, comments:
	Northern plate girder approach span is carried at its southern end by the end posts of the Tratt deck truss . It does not have a separate bearing on the stone pier.
*	* Date of the Pratt deck truss is not absolutely certain; there being no builder's plate on the truss itself. It is presumed to be of the same 1904 date as the plate girder approach span which is riveled to its northern end posts.
	trusp itself. It is presumed to be of the same 1904 date as the plate girder approach span which
	is riveled to its northern end posts.
'	* Correction: the Central Vermont Railway's Annual Report for the year ending June 30. 1905
5	states that a timber bridge on this crossing had been replaced by a new steel bridge in the preceding year; the steel Pratt deck truss can thus be firmly dated 1904.
1	preceding year; the steel tratt deck truss can thus be tirmly dated 1904.

Visual quality (bridge and setting): High X Avera	ageLow
Site integrity: Retained X Violated	
Describe: Rural agricultural area, with comfields laid or along the Connecticut. Banks of the river are heavily wooded. The Schell Bridge (N-22-2) is visible upstream.	on otepped terraces. The dramatic outline of
History of bridge and site:  Presumption would be that the present southern spans of this aftermath of the March, 1936 flood on the Connecticut.  The 1904 spans of the bridge (at the northern end) were post what had been a timber bridge. It seems likely that the grade existing piers and abutments pre-date this 1904 rebuilding.	bridge were built in the bart of a complete rebuilding it and a solution of the
(AXX) COST CALLES OTHERA	
Sources: Sixth Annual Report of the Directors of the Central Vermont B.H. Year ending June 30, 1905, p. 11. Plans. No	Railway Co., for the Fiscal
The state of the s	
Old B.H. ~	*******
Summary statement of significance:  The (presumed) date of 1904 for the Pratt deck truss span of the the 2nd oldest of the 5 known Pratt deck truss bridges in the The bridge as a whole is a mongrel structure of several ages takes most of its present character from a major reconstruction	no bridge would make this MDPW data bace. and otructural types, and in 1936.
The second that the test of the second the s	
TON A THINK A	Skews
- 1-or in tentarini	
day guy naki ne ng na 1 2001 ti kasa ni neme Mebrare ng na 19 <del>91 i</del> s 178 ti	Flaque: Team Local
feetures, commenter aroady apar a carried at its coullier end by the extrocals of the Ball of a capacide bearing on the charge pro-	
ing is not all objected a being no being no bushes plate on the	
Statement prepared by: O.J.Roper	Date: 8/16/89
**************************************	할 것 같은 그렇게 하는 그러워 그리는 일이 얼마를 가입니다. 얼마를 들어 들어 있었다. 이렇게 되어 그렇게 되었다. 나는 그는 그 그는

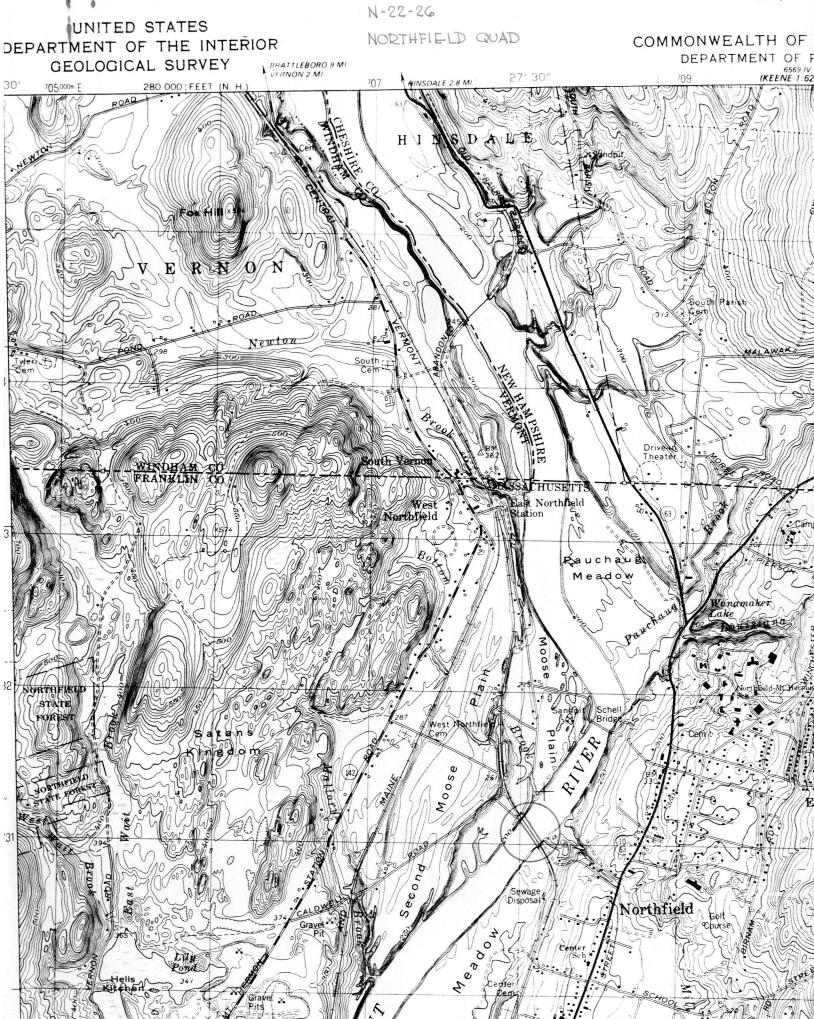
# RECOMMENDATION - NATIONAL

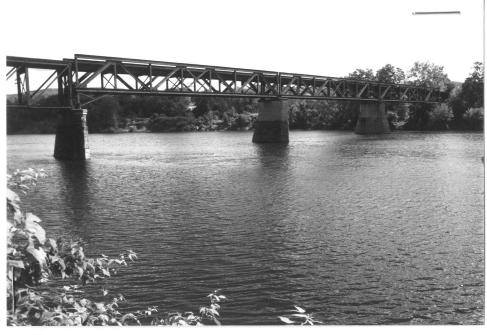
	Municipality	Street on	No.
Bridge: Northfield	CV RR/Caldwell R	d., Connecticut River	N-82-86
Historic evaluation	<u>1</u>		
Significant bed	cause:		
1) Unusual or	unique type Praffde	ck truss	
or rare surv	vivor of common typ	pe	
2) Early examp	le of type		
3) Design - Va	luable contribution	to bridge technology	
4) Retains into	egrity		
5) Builder know	wn and important		
6) Bridge histo	orically important	to area	
Not significan	t because:		
1) Common type			
2) Post-1931	large parts of bridge a	are 1936	
, "_ "	contribution to b		~
4) Integrity 1	ost because of: a)	alterations	~
	b	disintegration	
5) Builder uni	mportant or not kno	OWN American Bridge Co NY	_/_
6) No known s	ignificance in area	a .	/
Potentially el	.igible	X Not eligible	
Not eligible in but located	ndividually,	Conditionally not e review when 50 ye	
Comments:			

A monorel atructure which takes most of its character from a major reconstruction of its southern opens in 1936.

16 August 1989

5. J. Roper, MDPW Historic Bridge Specialist





RIVER SPANS FROM W



NW ABUT. FROM SE.



NWEINMOST SPAN (OVER CARDWELL RD), FROM SW

Mu PHOTOS: 9-13-85



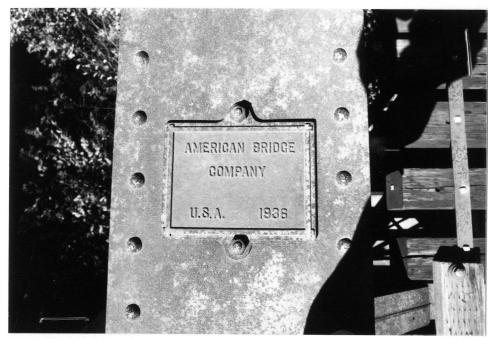
FROM NW



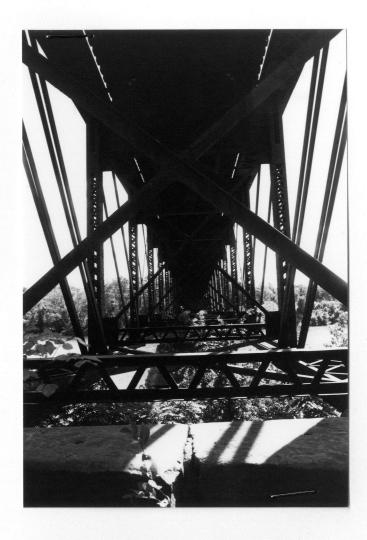
ON NEEM PLATE GIRDER, IN NWEMMOST SPAN, OVER CALDWELL RIS.



FROM SE



ON TOP CHOICH OF SOUTHERSTRICHMOST DISCR TRUSS ML PHOTOS: 9-13-85



LOOKING THROUGH PIVER SPAN TRUSSES, FROM NW

(9-13-85)

10. BEISY FRIEDBERG	RETURN TO REVIEWER BY
FROM: WM. SMITH	(DAIE)
DATE: 12/16/90	
TOWN: North field	
TOWN: North FIELD	
PROPERTY: N-22-26  (NAME AND ADD	BEM Roul Road oven CAldwell Rel Connection
(New Land	72102
1. Does this property meet the cri	teria for NR eligibility?
YES	
<b>Г</b> М <b>Г</b> Д	
A. Criteria a. events	
<ul><li>b. lives</li><li>c. characteris</li></ul>	
c. characteris d. information	
B. Local Stat	e National
2. Bour	
2. Statement of Significance: OR	
1904 - 1936 6 SPAN	pin convected steel pratt deck
theres.	
MALON ROCK Jam to	in 1936 changes the bridge
	me time only one SPAN 15 a pratt
The other two are 19	36 WARREN Deck Thiss.
- Concur. Altera	tims have campronised integrity.
	ag.
DOE LETTER WRITTEN	FILED IN ER FILE
(DATE)	

NFL.926 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

United States Route 20 over

Westfield River

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

W-25-4

Sincerely,

Westfield

Sudith B. McDonough Executive Director

State Historic Preservation Officer Massachusetts Historical Commission

JBM/WS/kab

cc: Frank Bracaglia, MDPW

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

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 NA. 926				
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				
Northfield 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.					
Stockbridge 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 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				
1893	One span iron and steel Ball Queen post. One of only two surviving examples of Charles Ball unique pipe truss bridge.				

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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

1878 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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