## Massachusetts Cultural Resource Information System

## **Scanned Record Cover Page**

Inventory No: LOW.920

Historic Name: Textile Avenue Bridge over Merrimack River

Common Name: Moody Street Bridge - Univeristy Avenue Bridge

Address:

City/Town: Lowell

Village/Neighborhood: Pawtucketville

Local No:

Year Constructed:

Architect(s): Cheney, John E.

Architectural Style(s):

**Use(s):** Other Transportation

Significance: Engineering; Transportation

Area(s): LOW.CU: Eastern Pawtucketville

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 3:44: AM



## MASSACHUSETTS HISTORIC BRIDGE INVENTORY area cu Municipality: Lowell District: 4 Street name/Rt. #: Textile Ave. (formerly Moody St.) Street name/Rt. #: Merrimack River. Northern Canal Bridge key #: MUN 426 007 100 Photo ##s: 7: 4-9 Bridge plan #:\_\_\_\_L-15-21 Common/historic name: Moody Street Bridge Textile Avenue Bridge Current owner:\_ AASHTO rating: 343 (G/10/87) UTM coordinates: National Register status (insert date) Field rating: Entered: Potential: Date built (source): 1896 (Lowell Annual Reports) Date(s) rebuilt (source): Builder (source): Groton Bridge & Manufacturing Co. (truss), William H. Ward (substr.) (Lawell Ann Rep.) Designer (source): John E. Cheney (Lowell Ann Reports) Structural type/materials: 309 3 simple spans, 3 lines pinned steel Pratt deck trusses. 2 river spans are each 12 panels, the canal span is 9 panels. Die forged eye bar lower chords. Die-forged eye-bar diagonals; adjustable square rod counters in 4 central panels of river spans, in 3 central panels of canal span. rock-faced grante achige cutwater piero; masonry in front wall of abutmento is similar, but wing enote bensuge mobiner ens ellow Overall length: 495' Deck width/layout: 54.9' od-od Skew: -Main unit, # spans: 3 lengths: 2@ 180', 1@ 121' Approaches, # spans: \_ \_ lengths: \_ Plaque: None seen location: -Alterations, unusual features, comments: originally had Eastern Mass Street Railway single-track line on deck wood block deck replaced 1935 w/ kyanized timber deck w/ bituminous surface. Flood repairs - 1937-38. Center span only one damaged. Lower chord eyebars replaced in 10 of the 12 panels in upotream truss, in 2 panels each in central and downstream trusses.

Present Reliance open steel grid deck installed 1966. (assume guardrails installed same time) Minor repairs/reinforcements visible in some parts of the trusses.

Straighten/repair 6 diagonals/counters. Replace/renew 8 panels of lower laterals

1896 photos of bridge (Lowell Annual Reports) show a very fancy wrought-iron guardrail, presumed replaced in 1966. (Quardrails were similar to those which still exist on the E. Merrimack of bridge ((L-15-23)) which was also built by Groton Bridge & Mfg. Co, in 1895.

Visua	al quality	(bridge an	d se	tting):	High	Average_X_	Low
Site	integrity	Retained	_ <u>X_</u>	Violat	ed		

Describe: Bridge itself to visually impressive. Hough marred somewhat by added water lines and replaced bridge railings. Vast stretches of exposed ledge in the riverbed are picturesque, and the curving stone relaining wall of the Northern Canal is quite handsome. Modern highway and urban redevelopment projects, however, have altered the neighborhoods

History of bridge and site: at both ends of the bridge.

The present Textile Avenue Bridge, built in 1896, to the first bridge and is crossing of the Merrimack River, and was designed to carry an extension of Moody street (a main artery through the heavily developed commercial/industrial heart of Lowell) across the Northern Canal and the Merrimack to the less developed Pautuckelville neighborhood on the northern bank of the river. The Northern Canal, with its Great River Wall, was built in 1846-47 as a feeder canal to supplement the power supplied to Lowell's mills by the original Pautuckel Canal system. The bridge spans over the canal just west of the canals original waste gates. The present wooden building on the Great River Wall directly over these gates (and known as the High Bridge Gate House) was erected in 1872 when the waste gates were converted from manual to mechanical operation.

Sources: Lowell Annual Reports 1895-96

BH. ~ MVTM + HAER, The Lower Merrimack River Valley, An Inventory of Historic Engineering

RR (not found)

RR (not found)

Engineering Record, Nov. 23, 1895, p. 466

Old B.H. / \*

Summary statement of significance:
The oldest of 5 known Pratt deck truss bridges in the MDPW data base, and contains 2 of the longest 19th century metal truss spans in the data base. Few major structural alterations, although the replacement of the original guardrails and the addition of large utility/water lines has lessened the bridge's visual impact.

Designed by a prominent Boston structural engineer, John E. Cheney. A Lowell native, Cheney had become assistant engineer for the City of Boston in 1874, and was assistant city engineer in chance of bridges from 1885 until his death in 1906. He also maintained an extensive outside consulting practise, designing numerous bridges for a variety of railroads and municipalities.

The bridge opano over the 1847 Northern Canal, which is one of the major elements

in the Lowell Locks and Canals National Register Historic District.

Statement pr	repared by:	3.J. Roper		Date: 18 August 1989
********	******	******	******	***********
Field survey	by: 5.J. Roper	ofciH W9DM	ric Bridge Spec	cialist Date: 31 July 1989
			, O '	9-17-89

## MDPW RECOMMENDATION - NATIONAL REGISTER ELIGIBILITY

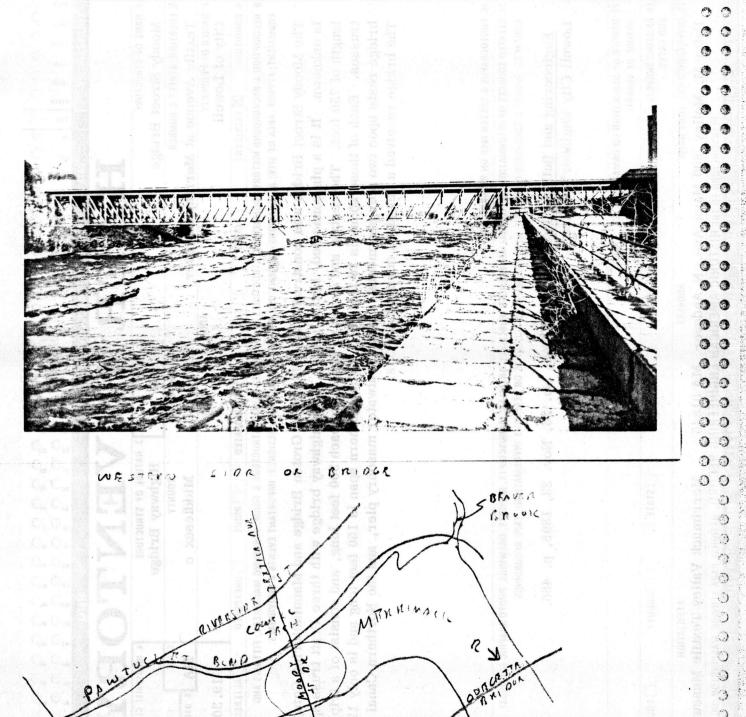
	Municipality		Street on		No.
Bridge: Lowell	Textile Avenue	/Merrima	ack River		L-15-21
Historic evaluation					
Significant becar	use:				
1) <u>Unusual</u> or un	ique type Praff	deck of	ເດວວ		~
or rare surviv	vor of common t	уре			
2) Early example	of type				
3) Design - Valua	able contributi	on to	bridge technolo	ogy	
4) Retains integr	rity				
5) <del>Builder</del> known	and important	John E	. Cheney		
<ol><li>Bridge histori</li></ol>	ically importan	t to a	rea .		~
Not significant h	ecause:				
1) Common type					
2) Post-1931					
3) Design - no co		bridge	technology		
<ol><li>Integrity lost</li></ol>	because of: a	a) alto	erations		
	1	o) dis	integration		
5) Builder unimpo	rtant or not kr	nown			
6) No known sign	ificance in are	ea			
X Potentially eligi	ible		Not eligible		
Not eligible indi	ividually,		Conditionally no review when 50		
Comments: Oldest example of a structural type. Slightly a Canal and Great River Wall)	n uncommon (amo ltered, but not dena of the Locks and C	ng survii tured : é analo N.1	uing Massachusetts his Opans over one eleme 2. Historic District.	shway bri nt (the N	idges) orthern
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18 August 1989

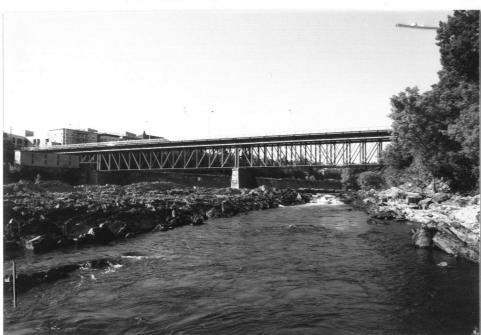
J. J. Roper, MDPW Historic Bridge Specialist



HAEI	2. DATE	3. NATURE OF STRUCTURE	4. INDUSTRIAL CLASSIFICATION	1
Moody Street Bridge	1896	Highway Bridge	602	
5. LOCATION: STREET & NUMBER	CITY OR TOWN	COUNTY	STATE	
Textile Avenue at Merrimack River	Lowell	Middlesex c		P & UTM GRID REF.
OWNER OF PROPERTY City of Lowell	ADDRESS		19.309440.	
	FAIR DETERIOR	ATED RUINS UNEXPO		CCESSIBLE TO PUBLIC
D. DESCRIPTION & BACKGROUND HISTORY: NUMBER OF STRUCTURE				COLSSIBLE TO PUBLIC
EQUIPMENT; APPROX. AREA OF SITE; ALTERATIONS; PRESENT US	SE: ENGINEER/ ARCHITECT/D	DESIGNER: IMPORTANT FVFNTS & INDIV	INERT, FILLINGS AND	
The Moody Street Bridge was construct				
is unknown. It is a pin connected, latt				
length of 750 feet. The central and nor	rthern spans are e	each 300 feet long, and co	onsist of a triple syste	em of Pratt
trusses. Each of these spans is 20 fee	t deep. The south	nern span is 150 feet long	g and is only 12 feet d	eep. The
	[10] [11] [11] [11] [12] [13] [14] [14] [14] [14] [14] [14] [14] [14		b and is only in loca a	
bridge rests upon two pier abutments,	a single cutwater	masonry pier, and the N	Northern Canal retaini	ng wall.
bridge rests upon two pier abutments, The bridge received a new deck during	a single cutwater	masonry pier, and the N	Northern Canal retaini	ng wall.
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bridge rests upon two pier abutments, The bridge received a new deck during  O. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE.	a single cutwater the 1950s.	masonry pier, and the N	Northern Canal retaini	ng wall.
bridge rests upon two pier abutments, The bridge received a new deck during  O. PHOTOGRAPHS & SKETCH MAP ON REVERSE SIDE.  1. RELATED SOURCES OF INFORMATION: HISTORICAL REFERENCES	a single cutwater the 1950s.	masonry pier, and the N	Northern Canal retaini	ng wall.
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Lowrice (113



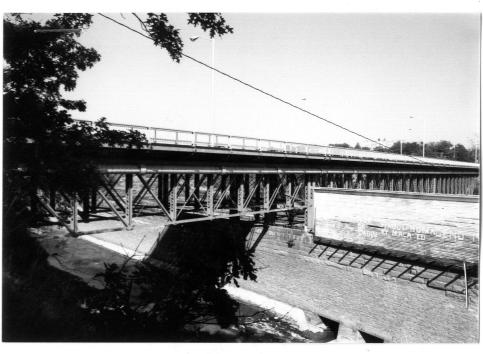
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7-31-84

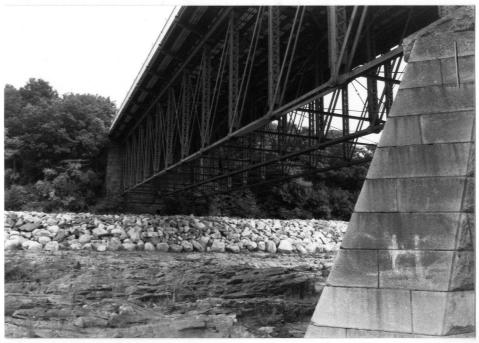


FROM

9-12-89

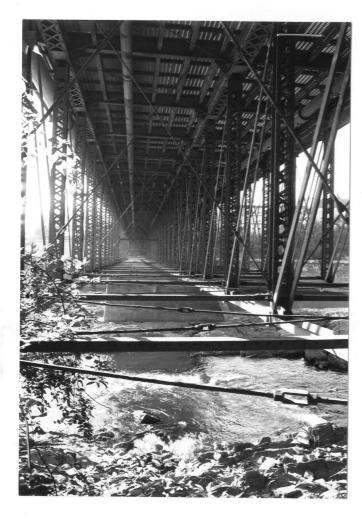


7-31-84 FROM

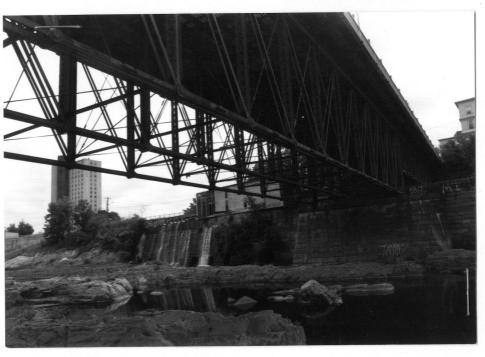


NORTHERN SPAN, FROM S

9-12-89



FROM NW ABUTMENT 7-31-84



CENTRAL SPAN FROM W

9-12-89



NORTHERN END OF CENTRAL SPAN, FROM SW 9-12-89



FROM NW

7-31-84



FROM SE

7-31-84

TO: BETSY	FRIEDBERG		RETURN	TO REVIEWER BY	
FROM: WM.	SMITH				(DATE)
	2/10/90				
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TOWN: Lo	well				
PROPERTY:	7-12 - </td <td>textile Ave</td> <td>e oven</td> <td>Mernimaela</td> <td>KIVER</td>	textile Ave	e oven	Mernimaela	KIVER
	(NATE AND ALL	DALSS)	<b>8</b>		
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	7 NO				
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Statement of Si	gnificance: OF	R Why not eligi	ible?		
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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).

Lowell

L-15-21 Textile Avenue over Northern Canal, Merrimack River

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

Latticed type through truss designed by Edge Moor Bridge Company of Delaware. It is the only known example of this unique bridge type..

<u>Northfield</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.

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.

Waltham

W-4-9 B & M Railroad over State Rte. 60, Linden Street

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

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

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

Boston/Quincy	B-16-368/Q-1-50	Long Island Bridge over Quincy Bay Low 920
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 Westfield River

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



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:

1934

The Massachusetts Historical Commission has reviewed the historic bridge inventory forms prepared by the Massachusetts Department of Public Works. 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.

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

> 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.

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

Three span continuous truss. It is virtually identical to the Bourne 1935 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.

Page 1 of 5

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.

<u>Dalton</u>

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.