

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No:	GRN.924
Historic Name:	Old Shop Bridge - Old Drum Shop Bridge
Common Name:	Granby Road Bridge over Dickinson Brook
Address:	Granby Rd
City/Town:	Granville
Village/Neighborhood:	Granville
Local No:	
Year Constructed:	1904
Architect(s):	
Architectural Style(s):	Arch Barrel Solid; Arch Filled Spandrel
Use(s):	Other Transportation
Significance:	Engineering; Transportation
Area(s):	
Designation(s):	
Building Materials(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: Monday, February 19, 2018 at 10:53 AM

MASSACHUSETTS HISTORIC BRIDGE INVENTORY

Municipality: Granville New District: 1Street name/Rt. #: St 189 Granby RdOver
Street name/Rt. #: Dickinson BrookBridge key #: 257220018101 Photo #s: 112:31-35Bridge plan #: G-10-5A (OKT)Common/historic name: "Old Shop Bridge" Old Drum Shop Bridge

Current owner: _____

UTM coordinates: _____ AASHTO rating: 73.7 (1-4-94)*****
National Register status (insert date) *****

Entered: _____ Potential: _____ Field rating:

Eligible: _____ Non-eligible: _____ 3 (2) 1

Date built (source): 1904 (plans) (+ MHC Annual Report 1905) *****

Date(s) rebuilt (source): _____

Builder (source): _____

Designer (source): Mass. High. Comm. -- A.W. Lewis (plans)*****
Structural type/materials: III (s.v.) *****1-span, filled-spandrel, reinforced-concrete barrel arch. 3-centered arch* 6'2" rise over 31' span
twisted, square steel rod reinforcement, in partial "common" system (no stirrups or other
radial ties)* central arc is 23' radius, 2 minor arcs near spring are only 2' radiiOverall length: 30' Deck width/layout: 23' 8' out-outSkew: -Main unit, # spans: 1 lengths: 25'Approaches, # spans: - lengths: -Plaque: - location: -

Alterations, unusual features, comments:

Maint card file says new "fence" installed 1946, but 6-6-61 photos show 3-pipe iron railing in place then. 1904 plan shows similar 3-pipe railing. So not clear when present mid-20th c style rail, on a contemporary concrete coping, was added.

1904 plans call for spandrel walls to be recessed 1/2" from face of arch, and for spandrel coping to project 2" beyond face of spandrel.

At present, spandrel walls are flush w/ (or project slightly forward of) arch faces, and copings appear to be modern

Visual quality (bridge and setting): High _____ Average X Low _____

Site integrity: Retained X Violated _____

Describe: Attractive rural setting just south of the village of Granville Center. Cow pasture to NW, a few small wooden houses and modest village post office scattered among partly wooded hillsides in other directions

History of bridge and site:

Designed and specifications prepared by the Mass Highway Commission, but built and paid for by the town of Granville. (The town may have departed slightly from the MHC design -- the bridge as built is somewhat plainer than the MHC design in the plans)

Sources: Twelfth Annual Report of the Massachusetts Highway Commission, January 1905, p. 7

BH ✓

Plans 1904

Maint ✓

312A ✓

Old BH ✓

Summary statement of significance:

One of the oldest of the 157 concrete arch bridges (of at least 20' span) currently known to exist in the MHD database; one of a very large group (53 of the 157) dating from the first decade of the 20th c. Of slight engineering significance as an early known example of the ubiquitous "common" reinforcing system. Visually, a very plain design (simplified, apparently, by the Town or its contractor from the slightly more elaborate plans provided by the MHC) marred by the modern replacements for the original guardrails and capings. Of slight historical interest as an early surviving bridge designed by the Massachusetts Highway Commission, but not the earliest survivor (P-13-7, a stone arch built in Plymouth in 1895, may be the earliest). In a pleasant rural setting.

Statement prepared by: J.J. Roper

Date: 8-22-94

Field survey by: J.J. Roper, MDPW Historic Bridge Specialist

Date: 5-4-88

MHD HISTORIC BRIDGE INVENTORY

MHD RECOMMENDATION - NATIONAL REGISTER ELIGIBILITY

	Municipality	On/Over	BDEPT#
Bridge:	Granville	51189, Granby Rd / Dickinson Brook	G-10-5A

Historic evaluation

Significant because:

- 1) ^{somewhat} Unusual ~~or~~ unique type concrete arch
- 2) Early example of type 1904
- 3) Design - valuable contribution to bridge technology
- 4) Retains integrity
- 5) Builder known and important
- 6) Bridge historically important to area

Not significant because:

- 1) Common type
- 2) Less than 50 years old
- 3) Design - no contribution to bridge technology
- 4) Integrity lessened because of: alterations
deterioration
- 5) Builder unimportant or not known MHC
- 6) No known significance in area

 Potentially eligible Not eligible Not eligible individually,
but located Conditionally not eligible;
review when 50 years old

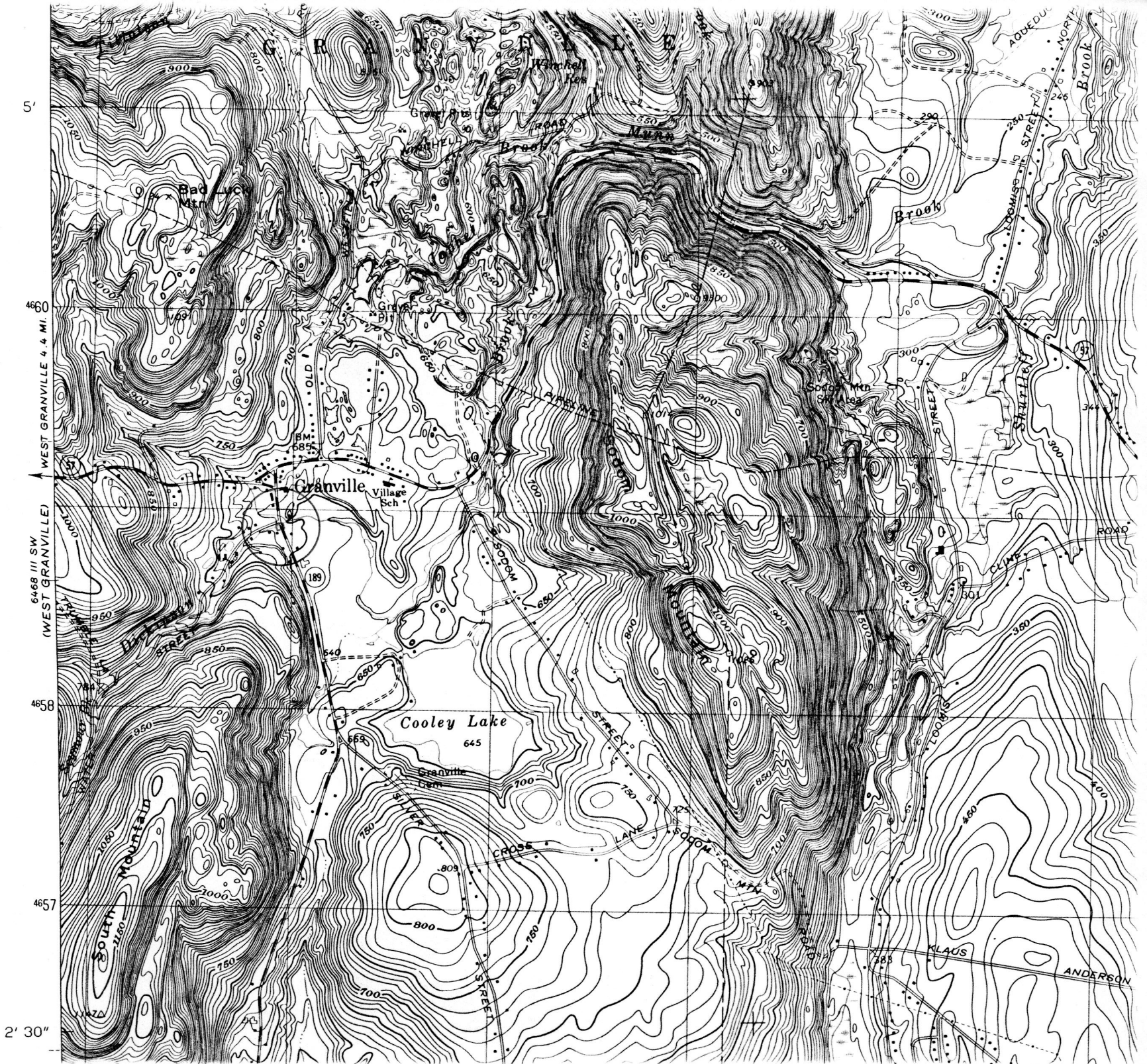
Comments: A very early, but minor and altered example of a somewhat uncommon structural type. Of slight engineering interest, and little visual interest. Of minor historical interest as an early surviving bridge designed by the Mass. Highway Commission.

Prepared by: S.J. Roper

Date: 8-22-94

GRN. 924

9-10-5A
SOUTHWICK
QUAD



5

4660
WEST GRANVILLE 4.4 MI.

6468 III SW
(WEST GRANVILLE)

4658

4657

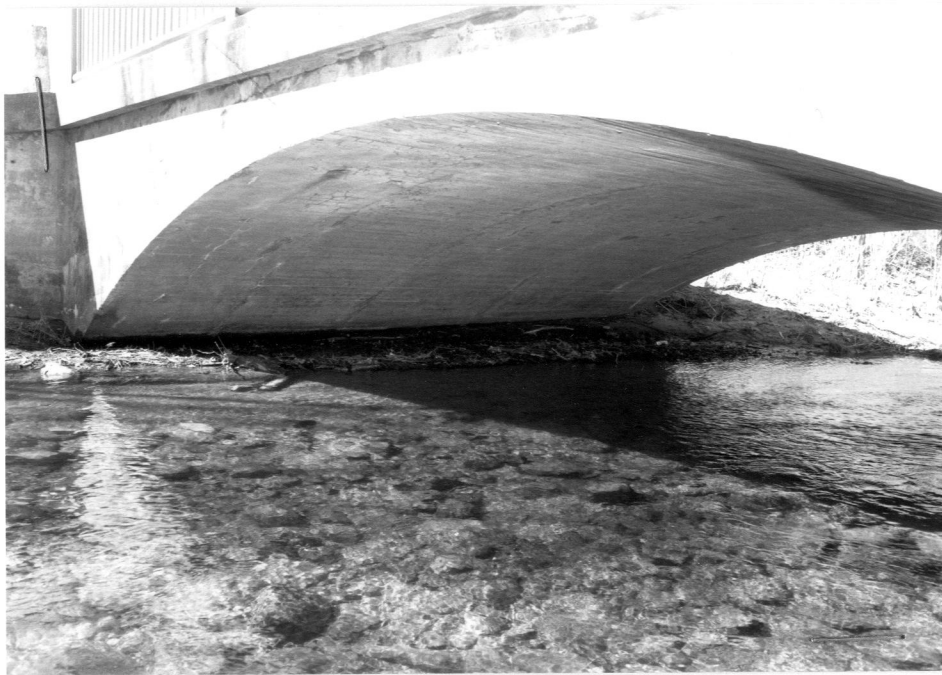
2' 30"



FROM NE



FROM W



FROM NE

5-4-88



FROM S



FROM N

5-4-88

NATIONAL REGISTER ELIGIBILITY OPINION

TO: **Betsy Friedberg**
DATE **4/14/97**
FROM: **W. Smith**

RETURN TO REVIEWER _____
DATE

TOWN: **Granville**

PROPERTY : **(G-10-5A) State 189, Granby Road over Dickinson Brook**
(MHD NO. AND ADDRESS)

COMMON/HISTORIC NAME: **Old Shop Bridge, Old Drum Shop Bridge**

Does this property meet the criteria for National Register eligibility?

*4/30/97
Immediately adjacent
to Granville Village
Historic District (NR)
-CAL*

<u>Individually</u>	YES	As a <u>contributing</u> element in a National Register District?	YES
	NO X		NO
		Located within, or adjacent to a historic district or potentially eligible historic district?	<u>YES</u>
			NO
A. <u>Criteria</u>		More information needed	YES
A. Events			NO
B. Lives			
C. Characteristics			
D. Information			

B. <u>Level</u>	Local	State	National
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2. Statement of Significance or why not eligible?

1904 One Span, filled spandrel, reinforced concrete barrel arch. Common twisted square rods reinforcements.

Bridge is a very early concrete arch, however in the 1940's-1950's new metal railing on a concrete coping was added.

A somewhat altered and example of an early bride type.

Determination of Eligibility Letter Written

Filed in ER File (Date)

5. West Boylston W-17-1 Thomas Street over Quinepoxit River

This bridge is included as a contributing element in the Water Supply System of Boston Thematic Resource Area.

MHC concurs with the preliminary finding of the Massachusetts Highway Department that the following two bridges meet the criteria for individual listing in the National Register of Historic Places:

1. Worcester W-44-10 State 12 (Webster Street) over Middle River
2. Boston B-16-21, M-25-4 State 28 (Blue Hill Avenue) over Neponset River

The following four bridges do not appear to meet National Register criteria for individual listing. However, the bridges are located within or adjacent to a historic district or potentially eligible historic district (or in the immediate vicinity of another historic property), and plans for replacement should take into consideration potential impact to adjacent properties.

1. Concord C-19-7 State 2 (Elm Street) over Assabet River

Bridge is located adjacent to the Concord Reformatory and its associated worker housing. The housing is eligible for listing in the National Register of Historic Places.

2. Granville G-10-5A State 189 (Granby Road) over Dickinson Brook

Bridge is located adjacent to the Granville Village Historic District.

3. Haverhill H-12-10 Locust Street over Little Brook

Bridge is located adjacent to (and within a proposed expansion of) the Washington Street Shoe Historic District.

4. West Boylston W-17-3 State 140 (Beaman Street) over Stillwater River

Bridge is located within the Weston Aqueduct Linear District of the Water Supply System of Metropolitan Boston Thematic Resource Area.



GRN-924

Gtt

Forms

to
PPJ2

9/08/97

The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

May 16, 1997

Peter C. Markle
Division Administrator
Federal Highway Administration
Massachusetts Division
55 Broadway, 10th Floor
Cambridge, MA 02142

RE: National Register Eligibility, Fourteen Bridges

Dear Mr. Markle:

Staff of the Massachusetts Historical Commission have reviewed fourteen historic bridge inventory forms prepared by the Massachusetts Highway Department. After review of MHC files and the materials submitted, MHC staff have the following comments.

As indicated on the inventory forms prepared by the Massachusetts Highway Department, the following five bridges are listed in the National Register of Historic Places:

- | | | |
|-------------------|----------------|--|
| 1. <u>Clinton</u> | <u>C-16-18</u> | Grove Street (MDC Access Road) over
Wachusett Reservoir Spillway (Lancaster Pond) |
| 2. <u>Clinton</u> | <u>C-16-19</u> | Former Central Massachusetts Railroad over
Wachusett Reservoir Spillway |

These bridges are included as contributing elements in the Wachusett Dam Historic District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

- | | | |
|------------------------|----------------|---|
| 3. <u>Southborough</u> | <u>S-20-24</u> | MDC Access Road over Sudbury Reservoir
Spillway, Stony Brook |
|------------------------|----------------|---|

This bridge is included as a contributing element in the Sudbury Dam Historic District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

- | | | |
|------------------|----------------|---|
| 4. <u>Weston</u> | <u>W-29-23</u> | Ash Street over Weston Reservoir Aqueduct |
|------------------|----------------|---|

This bridge is included as a contributing element in the Weston Aqueduct Linear District of the Water Supply System of Metropolitan Boston Thematic Resource Area.

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