

United States Department of the Interior
National Park Service

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines for Completing National Register Forms* (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property

historic name Jeffersonville Bridge
other names/site number N/A

2. Location

street & number Vermont Route 108 N/A not for publication
city, town Cambridge N/A vicinity
state Vermont code VT county Lamoille code 015 zip code 05444

3. Classification

Ownership of Property	Category of Property	Number of Resources within Property	
<input type="checkbox"/> private	<input type="checkbox"/> building(s)	Contributing	Noncontributing
<input type="checkbox"/> public-local	<input type="checkbox"/> district	_____	_____ buildings
<input checked="" type="checkbox"/> public-State	<input type="checkbox"/> site	_____	_____ sites
<input type="checkbox"/> public-Federal	<input checked="" type="checkbox"/> structure	<u>1</u>	_____ structures
	<input type="checkbox"/> object	_____	_____ objects
		<u>1</u>	_____ Total

Name of related multiple property listing:
Metal Truss, Masonry and Concrete Bridges in Vermont Number of contributing resources previously listed in the National Register N/A

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

[Signature] 9/25/91
Signature of certifying official Date
Vermont State Historic Preservation Officer
State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official Date

State or Federal agency and bureau

5. National Park Service Certification

I, hereby, certify that this property is:

- entered in the National Register.
 See continuation sheet.
- determined eligible for the National Register. See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:) _____

[Signature] 11-14-91

[Signature] Signature of the Keeper Date of Action

6. Function or Use

Historic Functions (enter categories from instructions)
transportation/road-related (vehicular)

Current Functions (enter categories from instructions)
transportation/road-related (vehicular)

7. Description

Architectural Classification
(enter categories from instructions)

Materials (enter categories from instructions)

other: Parker through truss

foundation concrete

walls

roof

other metal/steel

Describe present and historic physical appearance.

See continuation sheet for full text.

See continuation sheet

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**National Register of Historic Places
Continuation Sheet**

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The Jeffersonville Bridge is located on Route 108 north of the intersection of Route 108 and Route 15 on the northern outskirts of the village of Jeffersonville, Vermont, in the town of Cambridge. Constructed in 1931, the Parker steel through truss bridge with a concrete approach span crosses the Lamoille River at a total length of 200 feet and a width of 21.8 feet. The bridge was constructed by the American Bridge Company and represents the continued influence of the flood reconstruction program (formed in response to the 1927 flood), even after the program had officially ended. The Jeffersonville Bridge retains its integrity of location, setting, design, materials, workmanship, feeling and association.

The bridge has a 150 foot main steel span with a portal clearance of 15 feet and a c. 45 foot concrete and steel approach span on the north end of the bridge. The main span abutments are made of coursed poured concrete. The south abutment is flush with a steep river bank, while the north abutment, located at the point where the two spans meet, is free standing with curved battered ends. Inclined end panels form part of the segmental top chord made up of a box girder with a 22" x 17" latticed underside. The main span has seven panels. The bottom chord is made up of two channels with top and bottom stay plates at 3.5 foot intervals. Verticals and diagonals are formed by I-beams. Paired angles with stay plates at 2.5 foot intervals create a horizontal stiffener. The struts and top bracing are made up of paired angles with lacing. Knee braces at the panel points provide sway bracing. The portal bracing is made up of angles in a crossing pattern with top and bottom members of paired angles with lacing. A floor system of I-section floor beams and stringers supports a concrete-slab deck. A rail built of riveted angles and channels is located on the east side of the main span of the bridge.

The approach span is supported by a poured concrete abutment on the north side of the span built into the top of a gently sloping hill. The span is a plate girder and has a slab deck with a rail of cable stretched between paneled concrete stanchions.

A builder's plate is mounted on the bridge and inscribed with "American Bridge Company, USA, 1931."

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The Jeffersonville Bridge in Jeffersonville, Vermont, located in the town of Cambridge is significant both as an example of engineering methods and for its contributions to the broad patterns of local and state transportation history. Built in 1931, the bridge is an excellent example of a Parker through truss bridge. It embodies the standardized engineering methods associated with Vermont bridge building after the 1927 flood, a natural disaster that destroyed a large portion of the state's bridges. Located on State Highway 108, the bridge provides an historically important transportation link over the Lamoille River between Lamoille County (where Jeffersonville is located) and the middle portion of Franklin County, which borders Lamoille County on the north. This nomination is part of a multiple property submission for "Metal Truss, Masonry and Concrete Bridges in Vermont" under the property type of metal truss bridges. The Jeffersonville Bridge retains its integrity of location, setting, design, materials, workmanship, feeling and association. It clearly meets the registration requirements for eligibility.

The design of the Jeffersonville Bridge represents the strong influence of the bridge reconstruction program started in response to the 1927 flood in Vermont. Faced with the huge task of rebuilding the bulk of its bridge system, Vermont developed standards incorporating state-of-art techniques and materials, putting the state at the forefront in standardized bridge construction. These standards continued to influence bridge building in Vermont even after the program officially ended, as evidenced by the construction and design of the Jeffersonville Bridge, which was built one year after the program ended yet still followed the standards set by the program.

The Jeffersonville Bridge is an excellent example of a Parker through truss, and shares many of the characteristics of other Parker through trusses built during the reconstruction program. The Jeffersonville Bridge uses riveted construction and rolled I-beams for vertical and horizontal members, which was characteristic of the reconstruction program. This type of construction was used because assembly of the rolled I-beams was faster than the traditional construction of "built-up" members. To prevent twisting of the rolled members, horizontal stiffeners like the one on the Jeffersonville Bridge were incorporated into the design of the metal bridges. The Parker design was used for most spans over 150 feet, because the polygonal curved top chord allowed it to carry heavier loads than Pratt bridges. In instances where the span exceeded the length of the standard truss, a simple girder like the concrete one on the Jeffersonville Bridge was often used.

The Jeffersonville Bridge was constructed by the American Building Company, a New York company that played a major part in the reconstruction of bridges in Vermont after the flood. It helped Vermont develop standardized construction methods by loaning the services of a structural engineer to the Highway Commission's Bridge Department to lead the designing of steel bridge specifications. The American Building Company also provided expertise in the use of rolled members.

The Jeffersonville Bridge has played an important part in local and state transportation history by providing access on State Highway 108 across the Lamoille River. This provides a link between the village of Jeffersonville, much of which is part of a historic district listed on the National Register of Historic Places (April 10, 1987), and Bakersfield, which is a town with a historical academic background located in the southeast section of neighboring Franklin County.

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**National Register of Historic Places
Continuation Sheet**

Section number _____ Page _____

PROPERTY OWNER

Agency of Transportation
State of Vermont
Montpelier, VT 05602

Attn: William Sargent

8. Statement of Significance

Certifying official has considered the significance of this property in relation to other properties:

nationally statewide locally

Applicable National Register Criteria A B C D

Criteria Considerations (Exceptions) A B C D E F G

Areas of Significance (enter categories from instructions)

transportation
engineering

Period of Significance

1931

Significant Dates

1931

Cultural Affiliation

N/A

Significant Person

N/A

Architect/Builder

American Bridge Co.

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

See continuation sheets for entire text.

See continuation sheet

9. Major Bibliographical References

Roth, Matt. "Historic Sites and Structures Survey". State of Vermont Division for Historic Preservation. Montpelier, VT: 1985.

Town, Winona S. The History of Cambridge, VT. Crescendo Club Library. Cambridge, VT: 1976.

original

See continuation sheet

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

Primary location of additional data:

- State historic preservation office
- Other State agency
- Federal agency
- Local government
- University
- Other

Specify repository:

Vermont Division for Historic Preservation

10. Geographical Data

Acreeage of property Less than one acre

UTM References

A

1	8	6	7	2	0	0	0	4	9	4	6	0	5	0
Zone				Easting				Northing						

B

Zone				Easting				Northing						

C

Zone				Easting				Northing						

D

Zone				Easting				Northing						

See continuation sheet

Verbal Boundary Description

The boundary for this property is the bridge and its abutments. The bridge carries VT Route 108 across the Lamoille River in the village of Jeffersonville in the town of Cambridge at UTM reference point: 18/672000/4946050. It is c. 195' in length and 21.8' in width.

See continuation sheet

Boundary Justification

The boundary includes all the land historically associated with the bridge.

See continuation sheet

11. Form Prepared By

name/title Lisa Hartmann
 organization Univ of VT Historic Preservation Program date April 16, 1991
 street & number Wheeler House telephone (802) 656-3180
 city or town Burlington state VT zip code 05405

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SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: 91001606 Date Listed: 11/14/91

Jeffersonville Bridge Lamoille VT
Property Name County State

Metal Truss, Masonry, and Concrete Bridges in Vermont MPS
Multiple Name

This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

Beth L. Savage
Signature of the Keeper

11-14-91
Date of Action

=====
Amended Items in Nomination:

8. Statement of Significance:

The bridge was constructed by the American Bridge Company as indicated under Architect/Builder and in section #7, not the American Building Company as indicated in the text of the statement of significance.

This information was confirmed with Elsa Gilbertson, VTSHPO, by telephone.

DISTRIBUTION:
National Register property file
Nominating Authority (without attachment)