OMB No. 10024-0018

United States Department of the Interior National Park Service

SEP 2 9 1892

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property	
historic name Bridgewater Corners Bridge	
other names/site number	
2. Location	
street & number Vermont Route 100A over the Ottauquechee R	iver N/Anot for publication
city or townBridgewater	N A vicinity
state Vermont code VT county Windsor	code <u>027</u> zip code <u>05035</u>
3. State/Federal Agency Certification	
As the designated authority under the National Historic Preservation Act, as amended, I request for determination of eligibility meets the documentation standards for register Historic Places and meets the procedural and professional requirements set forth in 36 C meets does not meet the National Register criteria. I recommend that this proper nationally statewide locally. (See continuation sheet for additional comments) Vermont State Historic Preservation Office State of Federal agency and bureau does not meet the National Register criteria. (In my opinion, the property meets does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria. (In my opinion, the property does not meet the National Register criteria.)	ring properties in the National Register of CFR Part 60. In my opinion, the property ty be considered significant sts.)
Signature of certifying official/Title Date	
State or Federal agency and bureau	
4. National Park Service Certification I hereby certify that the property is: Signature of the Keeper	Satured in the Date of Action
entered in the National Register. See continuation sheet.	yen 10/29/92
☐ determined eligible for the National Register ☐ See continuation sheet.	
determined not eligible for the National Register.	
removed from the National Register.	
other, (explain:)	

Bridgewater Corners Bridge

Name of Property

Windsor County, Vermont

County and State

5. Classification				
Ownership of Property (Check as many boxes as apply)	Category of Property (Check only one box)	Number of Res (Do not include pre	sources within Properviously listed resources in	erty the count.)
☐ private ☐ public-local	□ bùilding(s) □ district	Contributing	Noncontributing	buildings
☑ public-State ☐ public-Federal	☐ site 幫 structure ☐ object	1		sites
				-1-!1-
		1		Total
Name of related multiple p (Enter "N/A" if property is not part	roperty listing of a multiple property listing.)	Number of cor in the National	ntributing resources Register	previously listed
	, and Concrete Bridges o Vermont	f 0		
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: Pratt Through	Truss Bridge	foundation <u>conc</u>	rete	
	·	walls		
		roof		
		other <u>stee</u>	1	

Narrative Description (Describe the historic and current condition of the property on one or more continuation sheets.)

9 Ctatement of Cignificance	
8. Statement of Significance	·A 1.0:
Applicable National Register Criteria (Mark "x" in one or more boxes for the criteria qualifyi	Areas of Significance ing the property (Enter categories from instructions)
for National Register listing.)	Transportation
A Property is associated with events that	
a significant contribution to the broad	
our history.	
_	
☐ B Property is associated with the lives o	f persons
significant in our past.	
C Property embodies the distinctive char	acteristics
of a type, period, or method of constru	uction or
represents the work of a master, or po	
high artistic values, or represents a significant distinguishable entity whose component	
individual distinction.	1928
□ D Property has yielded, or is likely to yie	
information important in prehistory or I	nistory.
Criteria Considerations	Significant Dates
(Mark "x" in all the boxes that apply.)	1928
Dranativia.	1920
Property is:	
\square A owned by a religious institution or use	d for
religious purposes.	
□ D remarked from its original legation	Significant Person (Complete if Criterion B is marked above)
☐ B removed from its original location.	N/A
☐ C a birthplace or grave.	
_	Cultural Affiliation
☐ D a cemetery.	N/A
\square E a reconstructed building, object, or str	ucture.
\square F a commemorative property.	
☐ G less than 50 years of age or achieved	significance Architect/Builder
within the past 50 years.	American Bridge Company
Narrative Statement of Significance (Explain the significance of the property on one or mo	re continuation sheets.)
9. Major Bibliographical References	
Bibilography	eparing this form on one or more continuation sheets.)
Previous documentation on file (NPS):	Primary location of additional data:
preliminary determination of individual	
CFR 67) has been requested	☐ Other State agency
☐ previously listed in the National Regist	ter
\square previously determined eligible by the i	
Register	☐ University ark ☐ Other
 ☐ designated a National Historic Landma ☐ recorded by Historic American Building 	
#	go carrey traine or repository.
☐ recorded by Historic American Engine Record #	ering

10. Geographical Data
Acreage of Property <u>less than one acre</u>
UTM References (Place additional UTM references on a continuation sheet.)
1 1 8 6 8 9 1 5 0 4 8 2 8 4 3 0 Northing 2
Verbal Boundary Description (Describe the boundaries of the property on a continuation sheet.)
Boundary Justification (Explain why the boundaries were selected on a continuation sheet.)
11. Form Prepared By
name/title L. T. Rosenthal
organization <u>Historic Preservation Program</u> date <u>July 1992</u>
street & number Wheeler House, University of Vermont telephone (802) 656-3180
city or town <u>Burlington</u> state <u>Vermont</u> zip code <u>05405</u>
Additional Documentation Submit the following items with the completed form:
Continuation Sheets
Maps
A USGS map (7.5 or 15 minute series) indicating the property's location.
A Sketch map for historic districts and properties having large acreage or numerous resources.
Photographs
Representative black and white photographs of the property.
Additional items (Check with the SHPO or FPO for any additional items)
Property Owner (Complete this item at the request of SHPO or FPO.)
name State of Vermont, Agency of Transportation
street & number 133 State Street telephone
city or town <u>Montpelier</u> state <u>Vermont</u> zip code <u>05602</u>

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503.

United States Department of the Interior National Park Service

National Register of Historic Places Continuation Sheet

2 " 7	n 1	Bridgewater Corners Bridge
Section number/	Page	Bridgewater, Windsor County, Vermont

Located in a moderately developed, mixed agricultural and residential area of Bridgewater Corners in the town of Bridgewater, Vermont, this bridge represents the main type of metal truss bridge constructed in Vermont following the 1927 flood that destroyed many earlier bridges. This single span steel Pratt through truss, 111 feet long, was built in 1928 using riveted construction. This bridge is notable because it is shorter in length than the standard through truss and is built with relatively light members. The bridge retains its integrity of location, setting, design, materials, workmanship, feeling and association.

This bridge is located south of U.S. Highway 4 in Bridgewater Corners, Vermont in Windsor County. It was built by the American Bridge Company for the State of Vermont to carry vehicular traffic from U.S. Highway 4 across the Ottauquechee River on State Highway 100A. The bridge is a steel, Pratt through truss, consisting of horizontal top chords with inclined end posts and latticed underside. This two-lane bridge is a single span, 111 feet long and 21.6 feet wide, carrying the roadway 15 feet above the Ottauquechee River. The bridge has a portal clearance of 15.1 feet, and seven panels with a truss depth of approximately 18 feet.

OMB Approval No. 1024-0018

NPS Form 10-900-a

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National Register of Historic Places Continuation Sheet

Section number <u>7</u> Page <u>2</u>

Bridgewater Corners Bridge Bridgewater, Windsor County, Vermont

The top chord of the truss consists of a box girder, 10 inches by 17 inches, with latticed underside. The bottom chord is made of paired channels joined by stay plates, placed approximately 4 feet apart, at the top and bottom. The hip verticals are I-beams. Other verticals and the first diagonal are built up I-sections with web of plates spaced 4 feet apart. Other diagonals are paired angles joined by stay plates. The top lateral bracing is formed by lattice girder struts (I-section) with angle-section cross-bracing and T-section knee braces. The portal is braced with four triangular truss panels and one central upright brace. The corrugated metal floor is supported by rolled I-section floor beams, five I-beam stringers and cross braced at the bottom in angle sections. The concrete curb has the bridge's construction date incised in the ends. A builder's plate, with the date and construction company, is also affixed to an inclined end. The two-rail guardrail on both sides of the bridge is built of angles and channels on T-section stanchions. The abutments for the bridge are rusticated poured concrete.

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National Register of Historic Places Continuation Sheet

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Bridgewater Corners Bridge Bridgewater, Windsor County, Vermont

The Bridgewater Corners bridge, built in 1928 by the American Bridge Company, is significant as an example of early 20th century standardized metal bridge design and construction. It is representative of the type of bridges mass produced and installed following the 1927 flood which destroyed a major portion of Vermont's bridges.

As part of the multiple property submission "Metal Truss, Masonry, and Concrete Bridges in Vermont," this single span, Pratt through–truss is a good example of a metal truss bridge. Under Criterion A, association with broad patterns of history, the Bridgewater Corners bridge is illustrative of trends in both transportation and construction. This bridge meets the registration requirements for this property type: it is intact with an identifiable, functioning truss system, and retains its historic integrity of site, design and construction.

This single span Pratt through-truss is based on the original Pratt design, patented in 1844. The basic Pratt truss, as exemplified by this bridge, is distinguished by vertical members acting in compression and diagonals acting in tension thereby reducing the overall length of compression members, and inhibiting buckling and breaking. In addition, the Pratt truss was used extensively to replace bridges lost in Vermont's 1927 flood because of the design's ease of fabrication and construction.

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National Register of Historic Places Continuation Sheet

Section number8	8	D000	Bridgewater Corners Bridge
			Bridgewater, Windsor County, Vermon

On November 3 and 4, 1926 record rainfall deluged northern New England. Approximately 4 billion tons of rain flooded Vermont. This massive amount of precipitation, following on the heels of a wet fall, filled Vermont's waterways beyond capacity. Statewide, more than 1,200 bridges were destroyed, including the one at Bridgewater Corners.

This disaster led to the state's taking control of local bridge and roadway construction and Vermont's first use of public debt for transportation development. The American Bridge Company, founded in 1900 by banker J.P. Morgan and in 1920 part of U.S. Steel, loaned the state a structural engineer to head the design team working on replacement bridges. This move placed the company in a superior position to profit from Vermont's misfortune.

The Bridgewater Corners bridge, which links two major Vermont roads – U.S. Route 4 and Vermont Highway 100, uses the standardized design that characterized Vermont's efforts to rebuild following the flood. Pratt through–trusses were used for nearly all spans between 110 and 150 feet. This bridge is notable mainly because of its short length that allows the use of relatively light members.

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National Register of Historic Places Continuation Sheet

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Bridgewater Corners Bridge Bridgewater, Windsor County, Vermont

Verbal Boundary Description

The boundary for this property is the bridge and its abutments. The bridge crosses the Ottauquechee River in a residential area of Bridgewater Corners, town of Bridgewater, Vermont at the UTM Reference Point: 18/689150/4828430. It is approximately 113' in length and 21'6" in width.

Justification

This boundary includes all the land historically associated with this bridge.

Bibliography

State of Vermont, Division for Historic Preservation, "Historic Sites and Structures Survey."

Montpelier, VT: State of Vermont, Division for Historic Preservation, 1976.

State of Vermont, Division for Historic Preservation, "Metal Truss, Masonry, and Concrete Bridges in Vermont." Montpelier, VT: State of Vermont, Division for Historic Preservation, 1990.