UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

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RECEIVED

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

DATE ENTERED

1.1.1.1

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

NAME				
HISTORIC Ponakin	Bridge			
AND/OR COMMON				
Ponakin	Bridge		an an ann an	
LOCATION	at the second second			
STREET & NUMBER	Ponakin Road			
· representations			NOT FOR PUBLICATION	
CITY, TOWN	ancaster		CONGRESSIONAL DISTR	СТ
STATE	the second s	VICINITY OF CODE	COUNTY	CODE
	lassachusetts	025	Worcester	027
CLASSIFICATI	ON			
CATEGORY C	WNERSHIP	STATUS	PRES	ENTUSE
	JBLIC	OCCUPIED	AGRICULTURE	MUSEUM
	RIVATE	UNOCCUPIED	COMMERCIAL	PARK
XSTRUCTUREBO	нтс	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESIDE
	UBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECTIN	PROCESS	YES: RESTRICTED	GOVERNMENT	SCIENTIFIC
BE	EING CONSIDERED	XYES: UNRESTRICTED	INDUSTRIAL	X_TRANSPORTATI
		NO	MILITARY	OTHER:
Town of Lan STREET & NUMBER Town Hall	acaster			
CITY, TOWN	·		STATE	
Lancaster		VICINITY OF	Massach	usetts
LOCATION OF	LEGAL DESCR	RIPTION		
COURTHOUSE, REGISTRY OF DEEDS, ETC.	Worcester County	Registry of Deeds		
STREET & NUMBER				
	2 Main Street	3		
CITY, TOWN			STATE	
	Worcester		Maggach	neotte
PEDDECENTA	Worcester	INC SURVEYS	Massach	usetts
REPRESENTA		ING SURVEYS	Massach	usetts
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TITLE Inventory DATE 1975 DEPOSITORY FOR	FION IN EXIST of Historic Asse	ets of the Commonwea FEDERAL X_S	lth	

7 DESCRIPTION

	CONDITION	CHECK ONE	CHECK ONE
EXCELLENT X_GOOD FAIR	DETERIORATED RUINS UNEXPOSED	X ^{UNALTERED} ALTERED	X-ORIGINAL SITE MOVED DATE

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE.

The Ponakin Bridge is a single span Post through truss constructed in 1871. The bridge serves automobile traffic crossing the north branch of the Nashua River in Lancaster. Originally on the main route from Lancaster to Lunenburg, the bridge is now on a winding country road. It is now approximately 400 feet from a by-pass highway constructed in 1965.

The eight truss paneled structure has a span of 100 feet and width of 20 feet. The vertical end posts are riveted in sections. The bridge is typical of Post trusses with pinned end diagonals in compression and diagonal dual eye bars extending two panels in tension. Secondary tension rods running between the dual eye bolts extend across one panel. Struts connecting each side hip are riveted; top lateral diagonal cross bars provide additional bracing. Floor construction consists of three inch deck planking supported by tranverse cross timbers atop wood stringers which in turn rest on riveted cross floor beams. Floor beams are attached at the panel points. Abutments are 20' granite blocks.

B SIGNIFICANCE

PERIOD	AR	EAS OF SIGNIFICANCE CH	IECK AND JUSTIFY BELOW	
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
1700-1799	ART	ENGINEERING	MUSIC	THEATER
X_1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	X_TRANSPORTATION
1900-	COMMUNICATIONS	_INDUSTRY	POLITICS/GOVERNMENT	OTHER (SPECIFY)
SPECIFIC DAT	ES 1871	BUILDER/ARCH	HITECT Watson Manufac	turing Company

STATEMENT OF SIGNIFICANCE

The Ponakin Bridge possesses integrity of location, design, setting, materials, and workmanship and is associated with major transportation routes and the development of Lancaster. The bridge also possesses significance in being the only remaining pure version of a Post truss known to the Historic American Engineering Record.

In 1871 the town of Lancaster contracted with Watson Manufacturing Company, Builders of Patterson, New Jersey to construct a new bridge replacing the last in a series of of wooden bridges that had been there since the seventeenth century. That year the Ponakin Bridge was built for the sum of \$5981 following the design of Simeon S. Post which was patented c. 1866. S.S. Post was a well known New Hampshire born civil engineer 'whose work in addition to bridge design and building included surveys and construction of railroads, particularly the New York and Erie. He was the originator of the system of railroad baggage checking universally adopted and drew the first design for making railroad time tables. He was also a founding member of the original (1852) American Society of Civil Engineers."¹ The Post truss is distinguished by compression members that incline toward the center of the bridge. The Post truss bridge was a major bridge form in the second half of the nineteenth century and was the most frequently used bridge form for the transcontinental railroad. Other important Post truss bridges include the Union Pacific Railroad's crossing of the Missouri River at Omaha. Two and one-half miles in length, this bridge was the largest on the line. The Missouri River crossing of the Missouri-Kansas-Texas Railroad was also a Post patented bridge with a span of 256'. Despite the truss' popularity, The Ponakin and the nearby Atherton Bridges (NR-eligible) are the only known surviving examples in the country. Taken together, the bridges comprise a unique pair of structures representing an important era in American engineering.

The town of Lancaster has demonstrated its commitment to upkeep of the bridge through town-funded repairs over the years. The load limit today is four tons, and trucks and heavy loads are excluded from crossing the bridge.

9 MAJOR BIBLIOGRAPHICAL REFERENCES

Allen, Richard S., Iron Bridges on S.S. Post's Patent	
Condit, Carl, American Building Art, 19th c., vol, I, pp. 1	45-6, N.Y.: Oxford Univ Press
1960	,
Marvin, Abijah P., History of Lancaster 1652-1879, Lancaster	r 1879
Town clerk and selectmen's records	1, 10,2
Correspondence with Donald Jackson, HAER	
ID GEOGRAPHICAL DATA	
ACREAGE OF NOMINATED PROPERTY approx. 2 acre	
QUADRANGLE NAME Clinton, MA	ADRANGLE SCALE 1:24000
UTM REFERENCES	
A 1,9 2,7,9 2,4,5 4,7,0,6 4,8,0 B	
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VERBAL BOUNDARY DESCRIPTION	
Ponakin Bridge is located on Ponakin Road where the road cro	osses the Nashua River.
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LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STAT	E OR COUNTY BOUNDARIES
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STATE CODE COUNTY	CODE
STATE CODE COUNTY	CODE
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	prical Commission
NAME/TITLE Elizabeth T. Durfee with Phyllis and Lee Inventory Coordinator Lancaster Histo ORGANIZATION	DATE
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Ponakin Bridge (Photograph: Wendell Bartlett, May 1975)