Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: CAM.907

Historic Name: First Street Bridge over Broad Canal

Common Name:

Address: First St

City/Town: Cambridge
Village/Neighborhood: East Cambridge

Local No:

Use(s):

Year Constructed: 1924

Architect(s):

Boston Bridge Works; Brown, Curtis S.; Cleverdon,

Varney and Pike; Hastings, L. M.

Architectural Style(s): Movable Muttiple Trunnion Bascule; Movable Single Leaf

Bascule; Plate Girder
Other Transportation

Significance: Engineering; Transportation

Area(s): CAM.AJ: Charles River Basin Historic District

Designation(s): Nat'l Register District (12/22/1978)

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: Friday, October 2, 2020 at 12:02 PM

Municipality: Cambridge		District: 8
Street name/Rt. #: First Street (St.	3)	
Over Street name/Rt. #: Broad Canal		
Bridge key #: MDC812045101	Photo ##s: 2:1-6	
Bridge plan #: C-I-8		
Common/historic name:		
Current owner: MDC	ma' dilitanga na s	
UTM coordinates:		
**************************************		**************************************
National Register status (insert date) Charles River Basin Entered: H.D. 1978 Potential:		* 1101d 12011ig
Eligible: Non-elig		3 2 1
***********		* * ********
Date built (source): 1924 (plaque)		
Date(s) rebuilt (source): 1938 (pl	an index)	
Builder (source): Boston Bridge Wo	rks (plaque)	
Designer (source): Burtis S. Brown.	cons. eng.: L.M. Hasting	as, City Fng. (plaque) *
**********	******	*******
Structural type/materials:		aki sharika
Draw - single-leaf, Strauss multiple-tru half-through steel plate girder carryin	nnion, overhead counterv ng members.	weight bascule, with
Approaches - 2 spans, steel stringer		
1938 reconstruction - Cleverdon, Varney	Pike, cons. eng. (plar	n index}
Overall length: 120' Deck wi	dth/layout: 55.5' or	ıt-out
Skew:	to blomade that a gi	(NEEdelph Hojios at Spaint
Main unit, # spans: leng		to tip of leaf
Approaches, # spans: 2 leng		
Plaque: location: outer face,	eastern tower	
Alterations, unusual features, co	mments:	
Counterweight tower has been strengthene (back) span.	¥ **	
MDPW Plan Index lists plans for a 1938 m MDPW computer lists a major rebuilding i	najor reconstruction (p n 1957	lans not found)

ina and

feet to the south.

Visual quality (bridge	and setting):	High A	verage_X	Low
Site integrity: Retain	ined Viola	$ted_{\underline{X}}$		
Describe: an ea				
revitalized by high-tech a	nd r. + d. firms.	On the edge of	the Charles	River Basin, and
part of the Charles River	Basin National Reg	ister Historic D	istrict. A	similar Strauss

The Broad Canal was created in 1805 as part of an effort (largely unsuccessful) to make Cambridge into an ocean port, with wharves and a waterfront in Cambridge port. Most of this early canal system was filled in during the 19th century, but the Broad Canal, although shortened to its present 1000' length, has at least survived. late 19th century, plans were advanced to fill in and develop the marshland and tidal flats on both the Cambridge and Boston sides of the Charles, this culminated in the construction of the Charles River Dam in 1903-1,0. With the lower reaches of the Charles thus turned into a quiet basin, work progressed on the construction of a system of scenic parkways running along the banks of the basin. The First Street drawbridge carried traffic heading sounth from East Cambridge over the Broad Canal, and into the riverbank parkway system.

trunnion bascule, erected in 1957, carries eastbound traffic ower the canal a hundred or so

Charles Sullivan, Chadace Jenkins, Carol Ann Clark, Charles River Basin Sources: National Register Historic District nomination, 1978. B.H. X Maint. No Plans Not found R.R. No

Summary statement of significance:

History of bridge and site:

3rd oldest of 20 trunnion-type bascule bridges identified in the MDPW statewide comput print-out; the oldest of the 3 Strauss overhead counterweight-type bascules among those 20. In terms of size, integrity, and overall aesthetic impact, however, the 1930 Congress Street Bridge in Boston (B-16-32) is a better example of this particular subtype.

One of 29 bascule bridges of all types, and one of 44 movable bridges of all types,

under MDPW purview.

Included in the bounds of the Charles River Basin National Register Historic District, but not a major contributor to the historical significance of the district.

Statement p	repared b	y:s.J.	Roper			Date:	23 Jan. 1985
** * *********************************							
Field surve	y by: S.J.	Roper, MI	DPW Hist.	Bridges	Specialist	Date:_	May 1984

Municipality Street on No. First Steet Broad Cana C-1-8 Historic evaluation Significant because: 1) Unusual or unique type or rare survivor of common type 2) Early example of type 3) Design - Valuable contribution to bridge technology 4) Retains integrity _X_ 5) Builder known and important 6) Bridge historically important to area Not significant because: 1) Common type 2) Post-1931 3) Design - no contribution to bridge technology 4) Integrity lost because of: a) alterations b) disintegration 5) Builder unimportant or not known 6) No known significance in area

Potentially eligible

Not eligible but 'A" for CR.B.H.D.

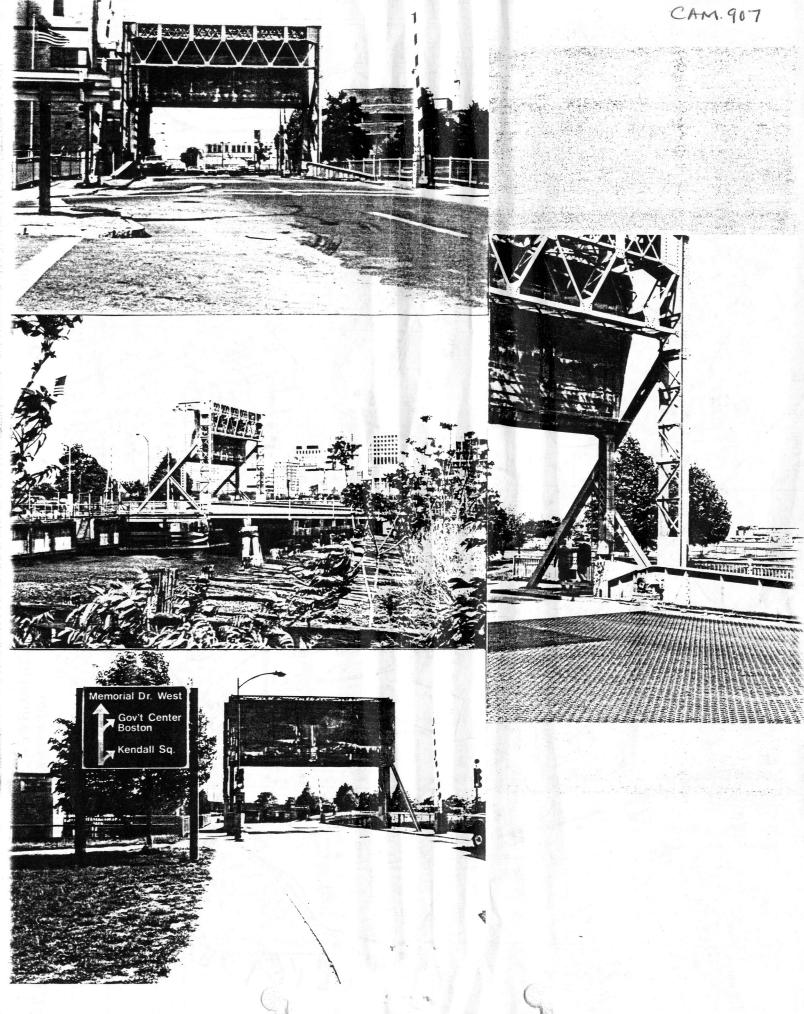
This bridge does not make a major contribution to the Charles River Basin Historic District (N.R 1978) within which it

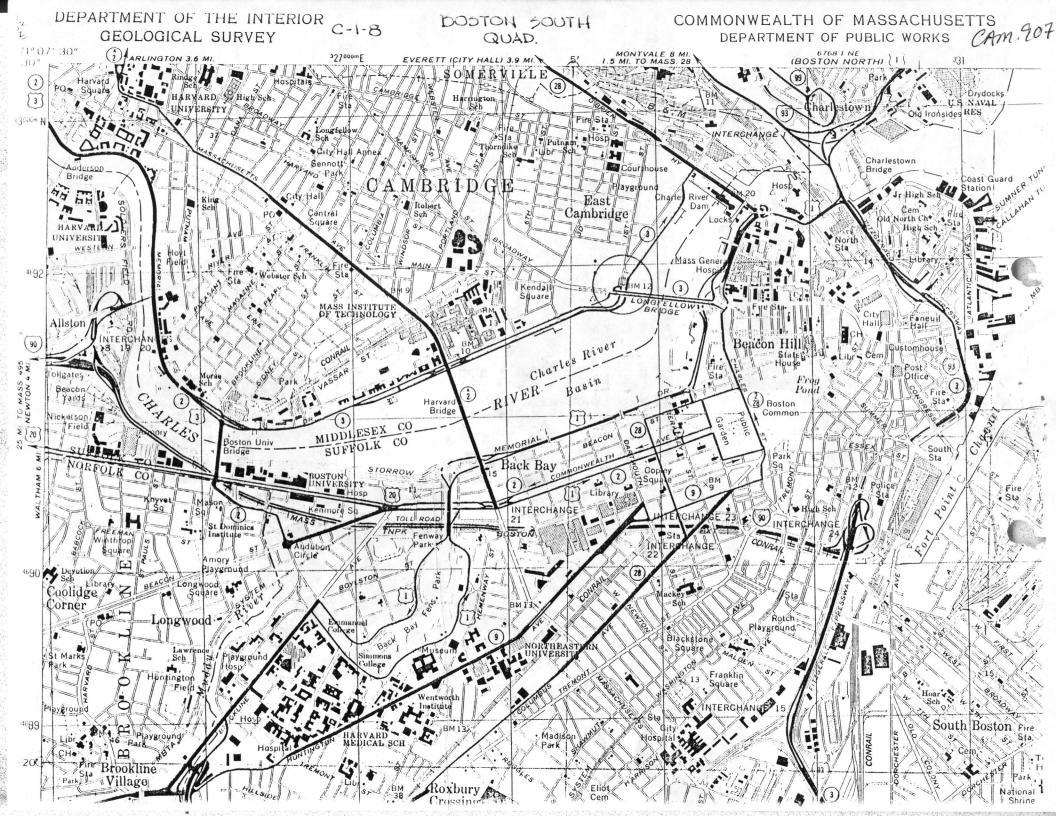
Comments:

The oldest of the three strauss multiple-trunnion, overhead-counterweight bascule bridges identified in the MDPW statewide computer print-out, but now somewhat aftered. The Congress Street Bridge in Boston (B-16-32) is a better example of the type.

MDPW Historic Bridges

a Ortober 1984





	DETERMINATION OF ELIGIBILITY (NIIC OPINION)	
AT	NROIS-12/22/18 PI-E-CAM CAM. 9017	
	SECT D	
	TO: RETURN TO REVIEWER BY	
	FROM: W. Sm. +L	
	DATE: 6/25/85	
	TOWN: Combaidge	
	PROPERTY: C-/-8 First St. /Broad Canal (NAME AND ADDRESS)	
	(NAME AND ADDRESS)	
1.	Does this property meet the criteria for NR eligibility?	
	⋈ №	
	A. Criteria	
	a. events	
	b. livesc. characteristics	
	d. information	
	B. Local State National	
	BASCELE . TRUNNION "	
••		
2.	Statement of Significance: OR Why not eligible?	
	1924 Single-Leaf Strauss MULTiple-trunnon	
	oven-head counter-weight Bascale	
	Within Charle River H.D.	
•		
-		
	DOE LETTER WRITTEN FILED IN ER FILE	