

Survey Number: S-57

Bridge Name and Address: Belmont Avenue Bridge in  
Philadelphia  
L.R. 67365 over Ramp "B"  
Philadelphia County

Owner: Commonwealth of Pennsylvania  
Department of Transportation  
Transportation & Safety Building  
Harrisburg, Pennsylvania 17120

Statement of Significance: The Belmont Avenue Bridge in Philadelphia is a typical late nineteenth century stone arch bridge. This single-span, 29 feet long arch was constructed of rock-face ashlar in the late 1890's. The bridge is an urban overpass, carrying Belmont Avenue over Ramp "B". It is the only nominated example in Philadelphia County of a type of bridge -- the single span stone arch bridge -- that was frequently built in southeastern Pennsylvania during the 19th century.

Area of Significance: Engineering.

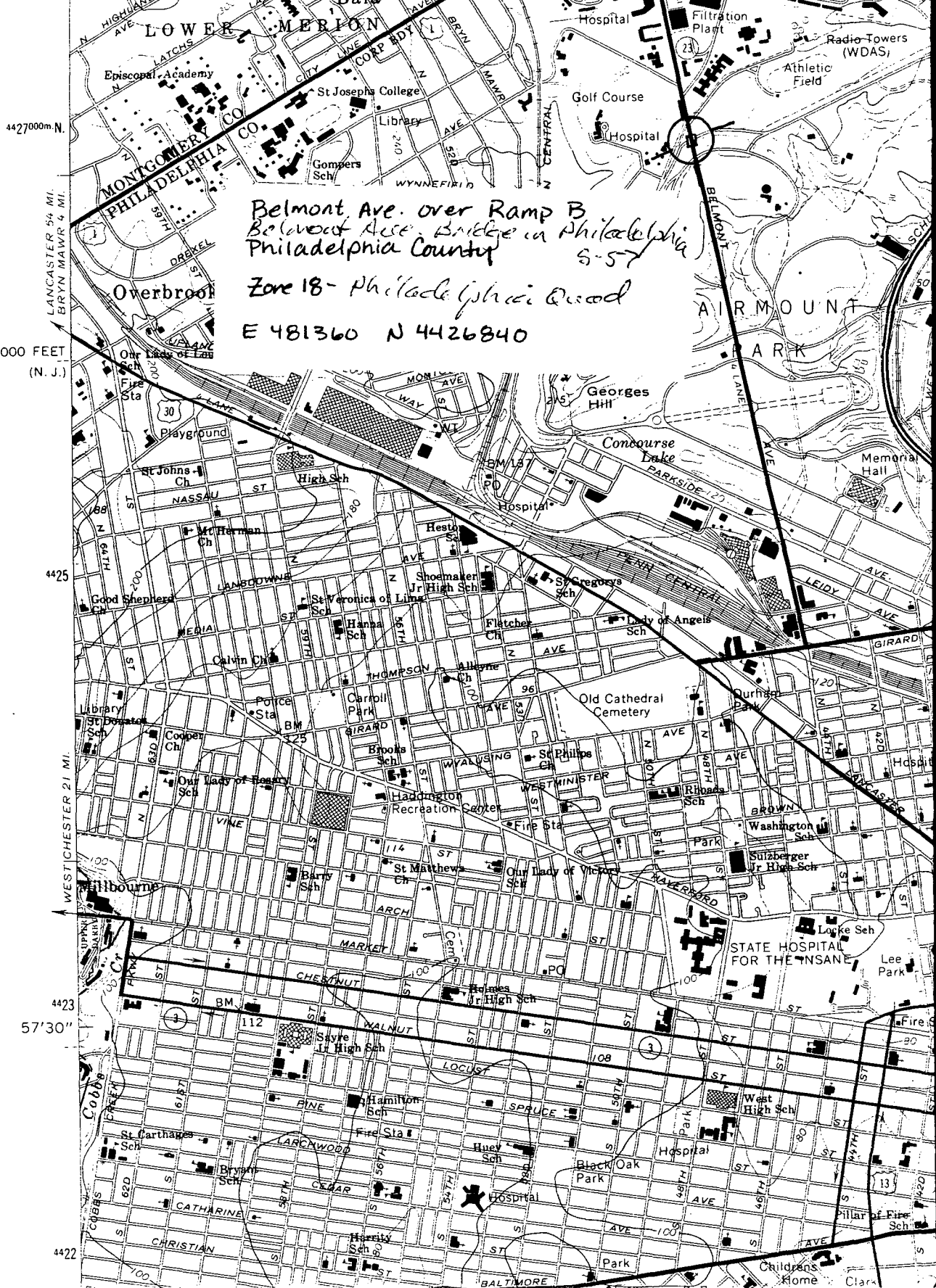
Boundary Description: The nominated property consists of a 90 feet long by 25 feet wide rectangle whose vertices coincide with the outside corners of the bridge's wing walls, and includes only bridge superstructure and substructure.

Acreage of Nominated Property: Less than one acre.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5964 11 SE  
(NORRISTOWN)

75° 15' 479000m E 1 840 000 FEET (N. J.) 1.3 MI. TO INT. 76 482 12'30"



Pennsylvania D.O.T. Owned Highway Bridges  
Belmont Ave. Bridge in Philadelphia S-57

420 000 FEET  
(N. J.)

LANCASTER 54 MI.  
BRYN MAWR 4 MI.

WESTCHESTER 21 MI

4423  
57'30"

4422

9. HISTORICAL DATA

8. USGS QUAD. Philadelphia 18

UTM's: Zone 18

E 4 8 1 3 6 0

N 4 4 2 6 8 4 0

E

N

Designer/Engineer: Unknown

Builder/Contractor: Unknown

Bridge Company: Unknown

Date(s): 1896 ; basis S.L.D.

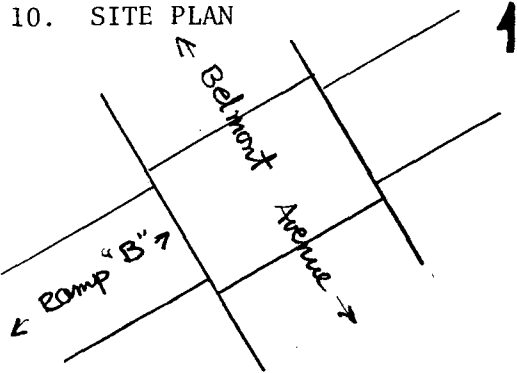
\_\_\_\_\_ ; basis

\_\_\_\_\_ ; basis

\_\_\_\_\_ ; basis

Use: present; original.

10. SITE PLAN



12. VIEW no.

11. INTEGRITY

\_\_\_\_\_ altered; \_\_\_\_\_

unaltered; \_\_\_\_\_

\_\_\_\_\_ moved; \_\_\_\_\_

Explain:

13. COMMENTS

Unusual features:  
 Structure built of  
 large cut stone blocks.

Locale/environment: Urban. In Fairmount  
 Park.

Machinery (describe/identify type/  
 equipment):

14. DIMENSIONS

spans: \_\_\_\_\_ no., 90 ft. O/A

main: 1 no., 29 ft.

secondary: \_\_\_\_\_ no., \_\_\_\_\_ ft.

approach: \_\_\_\_\_ no., \_\_\_\_\_ ft.

piers: \_\_\_\_\_ no.

towers: \_\_\_\_\_ no., \_\_\_\_\_ ft.

1. County Philadelphia

2. Municipality Philadelphia

3. Structure No. 672100134501009262

4. Survey Code 811 S-57

5. Present Name Belmont Avenue Bridge in Philadelphia

6. Other Name (historic name if any)

7. Crossing Belmont Avenue over Ramp "B"

15. TYPE

CHARACTERISTICS

Truss: continuous/cantilever:

- webbing: \_\_\_\_\_.
- anchor span: \_\_\_\_\_.
- cantilever span: \_\_\_\_\_.
- suspended span: \_\_\_\_\_.
- thru/deck/low (pony): full-slope/half-hip.
- connections: pin/riveted.
- eyebars: loop welded/die forged.
- railing: \_\_\_\_\_.
- columns: \_\_\_\_\_.

Arch: masonry/metal:

- thru/deck/1/2-thru.
- fixed (hingeless) /1/2/3-hinged.
- ribs: solid/braced; crescent/parallel.
- spandrels: open/solid/braced.
- intrados/vault; ribbed/solid.
- shape: semi-circular/elliptical/segmental; stilted.
- skew

Suspension:

- stiffening: braced-chain (1/2/3-hinged) /suspended truss.
- wire cable: twisted/parallel.
- eyebar chain.
- back-stay: straight/curved.

Bascule:

- single/double leaf.
- rolling lift: Schertzer.
- trunnion: simple (Chicago) /multiple (Strauss).
- counterweights: heel/overhead.
- Page/Roll.
- semi-lift/direct lift.

Swing:

- bearing: center/rim/combination.
- (see Truss above).

Vertical Lift:

- (see Truss above).

Other:

- other: \_\_\_\_\_.

16. MATERIALS (primary)

Superstructure	type	treatment/finish	source
main span:	<u>masonry</u>	<u>coursed cut stone block</u>	_____.
towers:	_____	_____	_____.
railings:	_____	_____	_____.
Substructure			
piers:	_____	_____	_____.
abutments:	_____	_____	_____.
wings:	<u>masonry</u>	<u>coursed block</u>	_____.
intrados/ribs:	_____	<u>concrete coated</u>	_____.
voussoirs:	<u>masonry</u>	<u>cut stone blocks</u>	_____.

17. PHOTO NO's.  
06-52 (15-18)

18. PREPARED BY:  
AGENCY/ORGANIZATION: District 6-0  
; DATE: January 28, 1983