

Survey Number:

S-35

Bridge Name and Address:

Centennial Bridge  
L.R. 39060  
Lehigh County

Owner:

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

Statement of Significance:

Centennial Bridge is an unusual, long and high stone arch bridge constructed of rubble masonry. The high rise of the arches above the stream and the slight horseshoe shape of the arches combined make the configuration of this bridge, when viewed in profile, rare among the bridges listed in this nomination. While 23 feet long, the three arches of each is not noteworthy. Centennial Bridge is, at 233 feet long, the overall length of the bridge makes it one of three stone bridges measuring over 200 feet in this nomination. Constructed about 1876, this is one of three stone bridges in this nomination which is located in Lehigh County; all three were built in the last quarter of the nineteenth century.

Area of Significance:

Engineering.

Boundary Description:

The nominated property consists of a 233 feet long by 25 feet wide 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.

PENNSYLVANIA HISTORIC RESOURCE SURVEY FORM

Bureau for Historic Preservation Box 1026  
PA Historical & Museum Commission Harrisburg, PA 17120

9. HISTORICAL DATA

8. USGS QUAD. Allentown East, PA

UTM's: Zone 18

E	4	6	6	8	0	0
N	4	4	8	6	2	8
E						
N						

Designer/Engineer:

Unknown

Builder/Contractor:

Unknown

Bridge Company:

Unknown

Date(s): 1876 ; basis

PennDOT Records

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

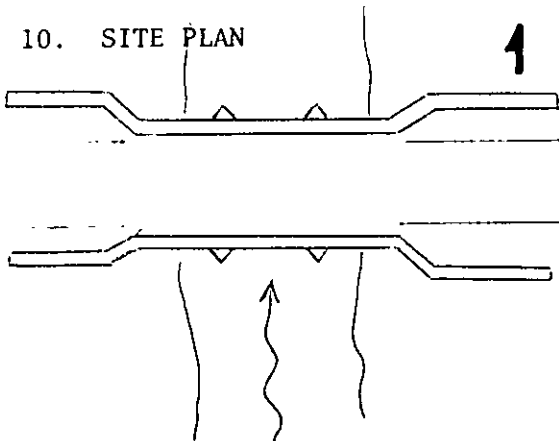
\_\_\_\_\_ ; basis

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

Use: Vehicular present; Vehicular original.

10. SITE PLAN

1



11. INTEGRITY

altered; \_\_\_\_\_  
 unaltered; \_\_\_\_\_  
 moved; \_\_\_\_\_

Explain:

Counterfort wall erected 1980; underpinning

12. VIEW

no.



13. COMMENTS

Unusual features:

Locale/environment:

Residential

Machinery (describe/identify type/equipment):

14. DIMENSIONS

spans: 3 no., 233 ft. 0/A

main: 3 no., 23 ft. each

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

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

piers: 2 no. 8 each

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

1. County LEHIGH  
 2. Municipality Upper Saucon Township  
 3. Structure No. 39200091000192  
 4. Survey Code 05-811  
 5. Present Name Centennial Bridge  
 6. Other name (historic name if any)  
 7. Crossing Station Avenue over Saucon Creek

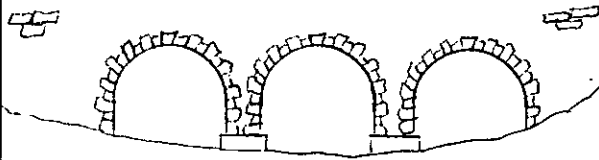
15. TYPE 14

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: Drystone - gunited
- 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/~~XXXXXXXXXXXXXXXXXXXX~~ solid
- shape: ~~semi-circular~~/elliptical/~~segmental~~/~~tilted~~
- skew None

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/Rall.
- semi-lift/direct lift.

Swing:

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

Vertical Lift:

- (see Truss above).

Other:

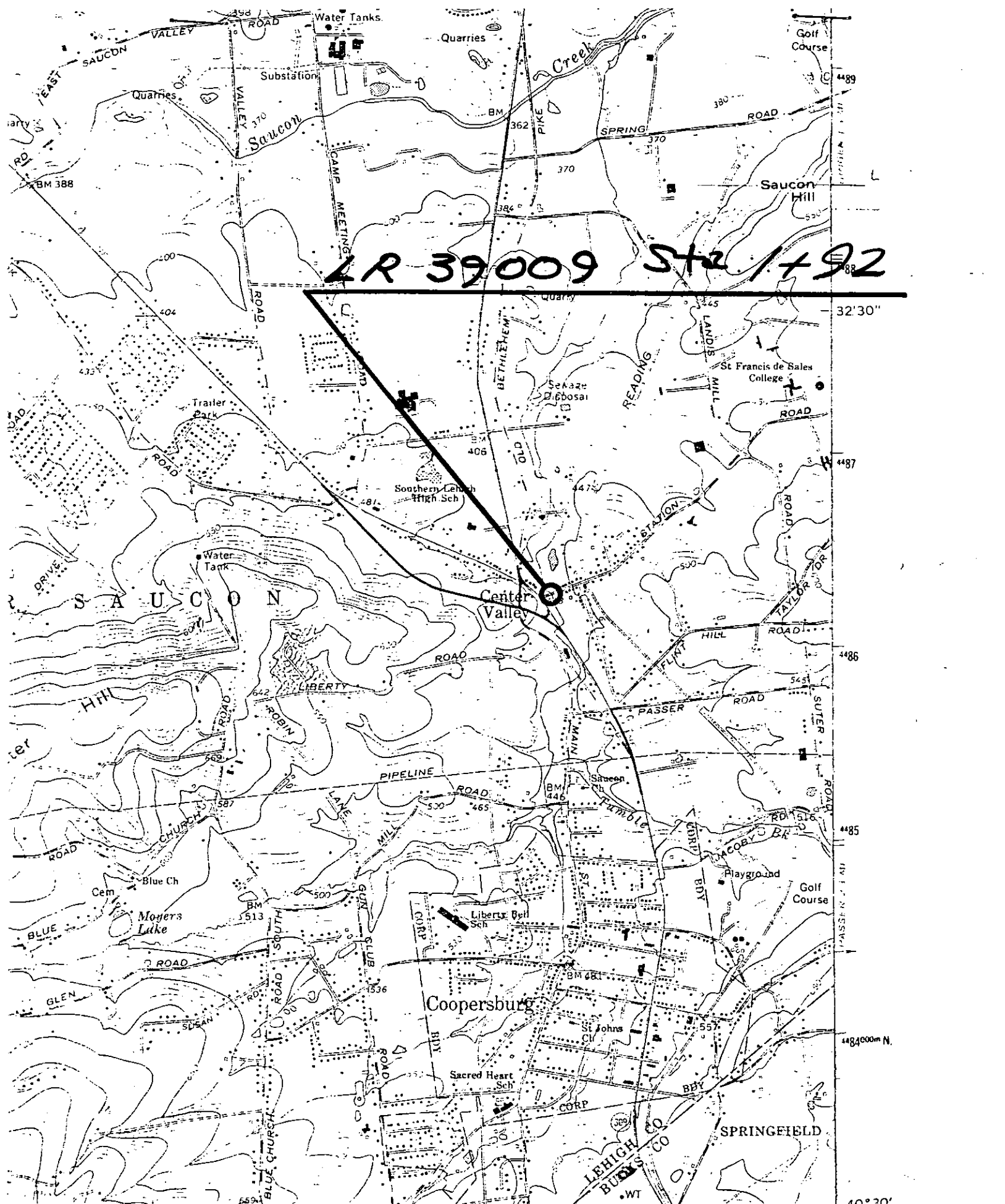
- other: \_\_\_\_\_

16. MATERIALS (primary) 02, 12, 16

Superstructure	type	treatment/finish	source
main span:	_____;	_____;	_____.
towers:	_____;	_____;	_____.
railings:	<u>Parapet - Drystone</u> ;	<u>Gunited</u> ;	_____.
Substructure			
piers:	<u>Stone</u> ;	<u>Pointed</u> ;	_____.
abutments:	_____;	_____;	_____.
wings:	_____;	_____;	_____.
intrados/ <del>ribs</del>	<u>Stone</u> ;	<u>Pointed</u> ;	_____.
voussiors:	_____;	_____;	_____.

17. PHOTO NO's.  
05-03 (0-3)

18. PREPARED BY: R. J. Baransky  
AGENCY/ORGANIZATION: Penndot  
DATE: 6/25/82



LR 39009 Sta 1+92

32'30"

4487

4486

4485

4484000m N

40°30'

75°22'30"

164 25' 165



INTERIOR- GEOLOGICAL SURVEY WASHINGTON D C - 1973  
 WATER DIVISION (74 553) 92 MI.  
 SELLEYSVILLE PA. PA.

ROAD CLASSIFICATION

Light duty

100 YARDS