

9. HISTORICAL DATA

8. USGS QUAD. East Greenville, PA

UTM's: Zone 18

E	4	4	8	3	4	0
N	4	4	7	1	7	0
E						
N						

Designer/Engineer:

Davis, N.M.

Builder/Contractor:

Willauer & Co.

Bridge Company:

Unknown

Date(s): 1908; basis PennDOT Records

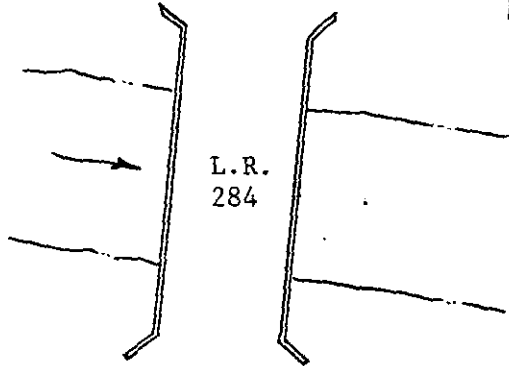
1908; basis Plaque on Bridge

_____ ; basis _____

_____ ; basis _____

Use: Vehicular present; Vehicular original.

10. SITE PLAN



Date(s): 1908; basis PennDOT Records

1908; basis Plaque on Bridge

_____ ; basis _____

_____ ; basis _____

Use: Vehicular present; Vehicular original.

11. INTEGRITY

altered; _____

unaltered; _____

moved; _____

Explain:

New parapets

12. VIEW

See No. 15

no.

PHOTO

13. COMMENTS

Unusual features:

None

Locale/environment: Rural

Machinery (describe/identify type/equipment):

N/A

14. DIMENSIONS

spans: _____ no., 146 ft. O/A

main: 1 no., 82 ft.

secondary: _____ no., _____ ft.

approach: _____ no., _____ ft.

piers: _____ no.

towers: _____ no., _____ ft.

1. County BERKS	2. Municipality Washington Township	3. Structure No. 019102841010417124	4. Survey Code 05-111 C-6
5. Present Name Barto Bridge	6. Other name (historic name, if any) N/A	7. Crossing L.R. 284 (Old 100) over Trib. to Perkiomen Creek	

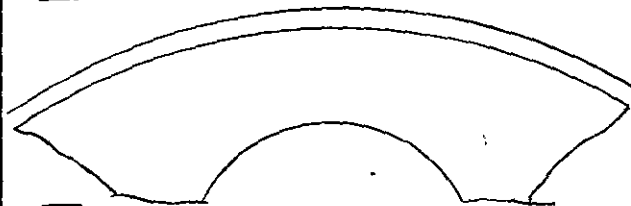
15. TYPE

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: Parapet - Concrete
- columns: _____

Arch: masonry/metal: Concrete



- 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 75°

Suspension: PLAQUE

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

Barto Bridge
Built 1908
C.B. Cleaver, James F. Fisher,
James M. Yerger - County Commissioners

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

~~xxxxxx~~
N. M. Davis, C. E. Engineer
J.J. Eshelman Inspector
Willaver & Co. Contractor

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

~~Swing~~ ~~xxxx~~

Vertical Lift:

Other:

other: _____

16. MATERIALS (primary)

Superstructure	type	treatment/finish	source
main span:	<u>Concrete</u>	<u>Smooth</u>	_____
towers:	_____	_____	_____
railings:	<u>Concrete</u>	<u>Scored</u>	_____
Substructure			
piers:	_____	_____	_____
abutments:	_____	_____	_____
wings:	_____	_____	_____
intrados/ribs:	<u>Concrete</u>	<u>Smooth</u>	_____
voussoirs:	_____	_____	_____

17. PHOTO NO's.
05-05 (12-16)

18. PREPARED BY: R.J. Baransky
AGENCY/ORGANIZATION: PennDOT
; DATE: 07-07-82

Survey Number: C-6

Bridge Name and Address: Barto Bridge
L.R. 284 over tributary to
Perkiomen Creek
Berks County

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

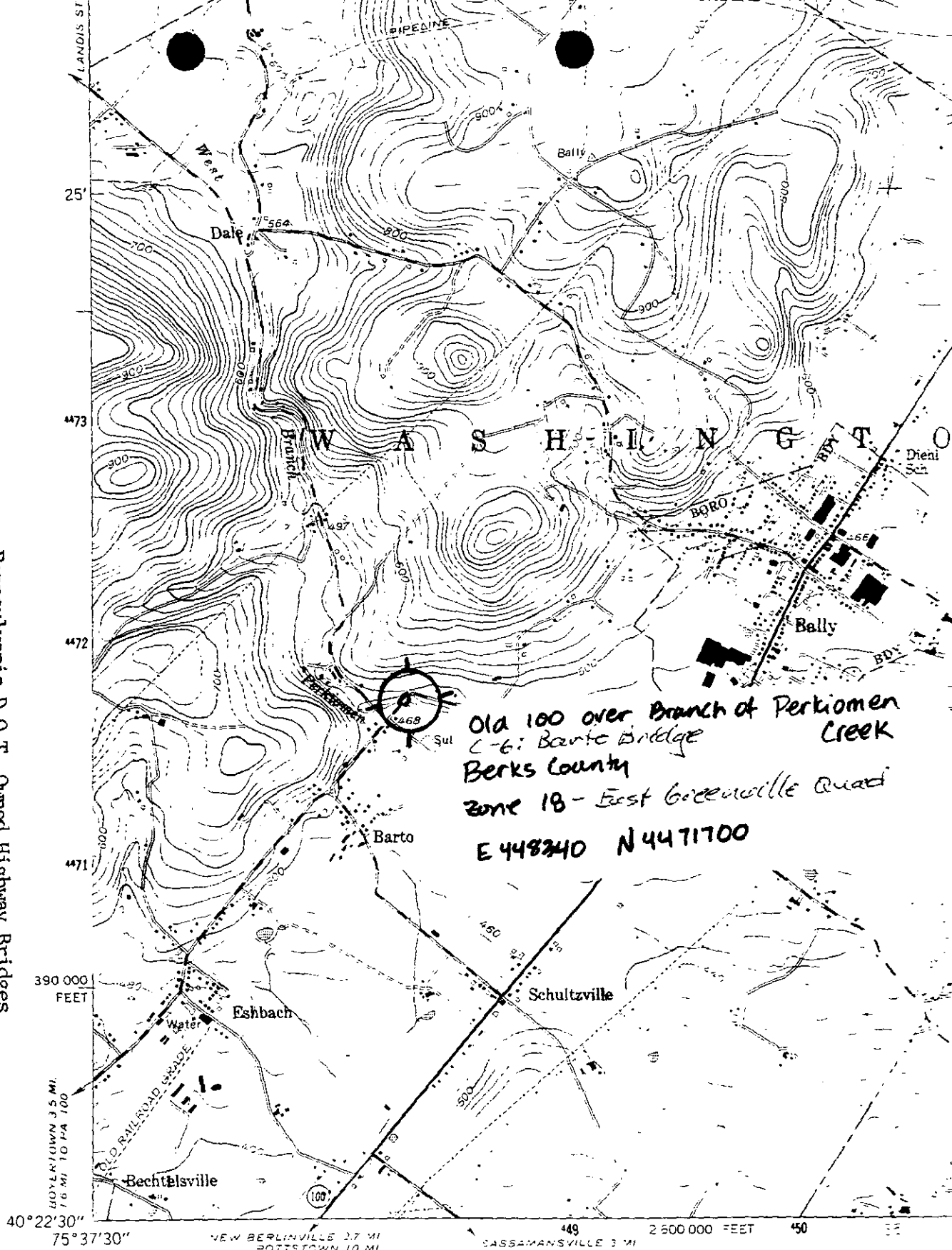
Statement of Significance: The Barto Bridge is a representative example of an early twentieth century concrete arch bridge. This single span arch bridge was built in 1908. It is one of fifteen concrete solid, barrel arches in this nomination; these were built between 1895 and 1930. The Barto Bridge arch spans 82 feet and is capped with a continuous parapet wall. This parapet is embellished simply with incised lines, a feature typical of these early twentieth century concrete highway bridges. As a well preserved example of an early solid, barrel arch concrete bridge, this structure warrants listing on the National Register.

Area of Significance: Engineering

Boundary Description: The nominated property consists of a 146 feet long by 25 feet wide rectangle whose vertices coincide with the outside corners of the bridge's wing walls, and includes only superstructure and substructure.

Acreage of Nominated Property: Less than one acre.

Pennsylvania D.O.T. Owned Highway Bridges
Barto Bridge
C-6



(BOVERTOWN)
5864 / SW

Mapped by the Army Map Service
Edited and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1942. Field check 1943
Culture revised by the Geological Survey 1956

Polyconic projection. 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system
south zone
1000-meter Universal Transverse Mercator grid ticks.

1:250,000
1:250,000

1973 MAGNETIC NORTH - DECLINATION AT CENTER OF SHEET