

Survey Number: T-29

Bridge Name and Address: Bridge in Brown Township
L.R. 41022 over Pine Creek
Lycoming County

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

Statement of Significance: The Bridge in Brown Township is a lattice truss bridge built in 1890 by the Berlin Iron Bridge Company of East Berlin, Connecticut. The lattice truss type is unusual and was infrequently built due to its structurally indeterminate nature. This truss configuration, also termed a "Warren quadrangular", was fabricated of riveted plates, angles, and lacing bars. All joint connections are also riveted. Berlin Iron Bridge Company was most commonly associated with the design and construction of lenticular trusses. However, lattice trusses were also illustrated in the company's late nineteenth century advertisements. There are two other Berlin Bridge Company bridges in the Pennsylvania highway bridge survey. They are both of the lenticular truss type (T-27 and T-28). As a well preserved example of a fairly rare used bridge type, this bridge warrants listing on the National Register.

Area of Significance: Engineering.

Boundary Description: The nominated property consists of a 227 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.

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PENNSYLVANIA HISTORIC RESOURCE SURVEY FORM

Bureau for Historic Preservation
PA Historical & Museum Commission

Box 1026
Harrisburg, PA 17120

9. HISTORICAL DATA

Designer/Engineer: -----

Builder/Contractor: ~~Berlin Iron Bridge Company~~
(~~East Berlin, Conn.~~)

Bridge Company: ----- Berlin Iron Bridge
Company

Date(s): 1890 ; basis inspection report

1890 ; basis plaque

_____ ; basis

_____ ; basis

-Use: vehicular present; same original.

1. County
Lycoming

2. Municipality
Brown Twp.

5. Present Name

081

3. Structure No.
[4][1][2][0][0][0][2][2][0][0][3][8][7][8][9]

7. Crossing I.R. 41022 (F.R. 414) over Pine Creek

4. Survey Code
030 - 310

LYE

USGS QUAD. Cammal

UTM's: Zone

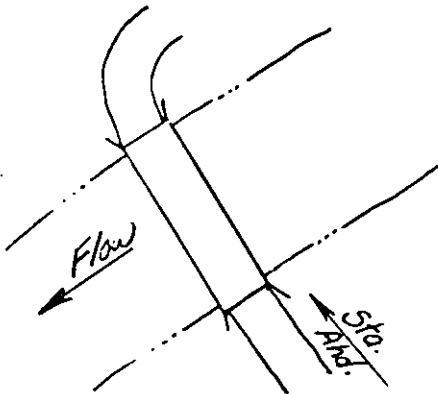
E 2 9 1 5 2 0

N 4 5 9 6 5 4 0

E

N

10. SITE PLAN



11. INTEGRITY

altered; 1960

unaltered;

moved;

Explain: new open steel deck

12. VIEW

no.



13. COMMENTS

Unusual features:
lattice truss

Locale/environment: heavily wooded
1 mi. North of the Village of Slate Run
wooded (very historic setting)

Machinery (describe/identify type/
equipment): none

14. DIMENSIONS

spans: 1 no., 196.25 ft. O/A

main: 1 no., 196.25 ft. $\{ 227'$

secondary: _____ no., _____ ft. W $19'$

approach: _____ no., _____ ft.

piers: _____ no.

towers: _____ no., _____ ft.

15. TYPE

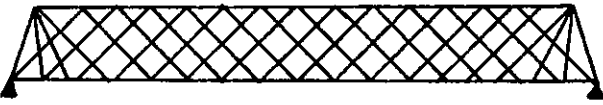
10

CHARACTERISTICS

38, 62B

Truss: ~~continuous/continuous~~

- webbing: lattice truss
- ~~anchored span~~
- ~~cantilevered span~~
- ~~suspended span~~
- thru/deck/low (pony): full-slope/half-hip.
- connections: pin/riveted.
- eyebars: ~~loop-welded/eye-bar~~ channels
- railing: steel bars
- columns: diagonals: angles & lacing: Top chord: top



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 : 90°

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/Rail.
- semi-lift/direct lift.

Swing:

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

Vertical Lift:

- (see Truss above).

Other:

- other: _____

16. MATERIALS (primary)

06, 10

15

Superstructure	type	treatment/finish	source
main span:	steel	_____	_____
towers:	----	_____	_____
railings:	steel	bars	_____
Substructure			
piers:	----	_____	_____
abutments:	stone masonry	coarsed ashlar	_____
wings:	stone masonry	coarsed ashlar	_____
intrados/ribs:	-----	_____	_____
voussiors:	-----	_____	_____

17. PHOTO NO's.

03-08 (24-80)

18. PREPARED BY:

AGENCY/ORGANIZATION:

; DATE:

aug 1982

