

JAN 27 1988 DEC 10 1987

KENTUCKY HISTORIC RESOURCES
Individual Inventory Form

Resource # GpG-13
Greenup County

1. Name of Resource:
KY 2541 Bridge

2. Original Owner:
Kentucky Department of Transportation

3. Other Names:
None

4. Prehistoric Site _____ Building _____ Object _____
Historic Site _____ Structure Other _____

5. Location: West end of Main Street over
Little Sandy River

6. Owner's Name:
J. A. Brown
Ky. Department of Transportation [S]

7. Owner's Address:
P. O. Box 347
Flemingsburg, Ky. 41041

8. Evaluation: [N]

9. Recognition & Date:
Nat.Landmark _____ Local Landmark _____
Nat.Register _____ HABS/HAER _____
Highway Marker _____ KY Inventory 1987 _____
KY Landmark Certificate _____

10. N.R.Status & Date:

11. N.R.Group:
District Name: []
Mult.Resource Area: Greenup, Ky. []
Thematic Name: []

12. Historical Theme:
Primary: Engineering [110]
Secondary: []
Other: []

13. Statement of Significance:
The KY 2541 Bridge is significant under Criterion C as an excellent example of the Pratt Through-Truss. It is also one of the oldest and longest multi-span, pin-connected, truss bridges in the state.
[C]

14. History: The KY 2541 Bridge was built by the King Bridge Co. from Cleveland, Ohio. Erected in 1884, it is one of the two oldest King Bridge Company Pratt through-trusses still standing in Kentucky. It is the second longest multi-span, pin-connected truss bridges in the state.

Thomas and Caleb Pratt patented the design for the Pratt Truss using vertical web members acting in compression and diagonal members acting in tension between top and bottom chords. They first used wooden compression posts and wrought iron tension members, but soon constructed all of the elements of cast or wrought iron. Pratt trusses were built as either pony trusses for short spans or Pratt Through-Trusses which have upper lateral struts for spanning longer distances.

15. Source of historical information and/or contact person: KY DOT Bridge Survey, Bridge Plate

16. Date:
Original Building 1884 [5]
Addition []

17. Style:
[]
NA []

18. Architect/Builder:
King Bridge Co., Cleveland, Ohio

19. No. of Stories: NA []

20. Original Floor Plan:
NA []

21. Single Pile _____ Double Pile _____ N.A. _____

22. Roof Form & Material: Original _____
NA _____ Not Original _____

23. Structural Material:
Wrought Iron [M]

24. Exterior Material:
NA []

25. Foundation Material:
Stone Piers [S]

26. Major Alterations: None _____
Moved/Rebuilt _____ Other guard rails _____
Additions foundation repaired _____

27. Special Features:
Pratt through truss

28. Outbuildings:
NA []

29. Original Function:
Bridge [16D]

30. Present Use:
Bridge [16D]

31. Condition:
Good [G]

32. Endangered: Yes
No _____

33. Attach Photos:
Roll: 4 Photo Nos: 4-7 No. of Slides:

34. Prepared by: H. Powell & D. Griffith
35. Organization: Greenup Beautification Com
36. Date: 6/87
37. New Survey Resurvey _____

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38. UTM Point of Primary Building: Zone Easting Northing 39. G.I.S. Mod. []
 Quadrant: Greenup 17 339700 4271620 40. Coordi.Accuracy []

41. UTM Points of Boundary (for N. R. eligible sites only):

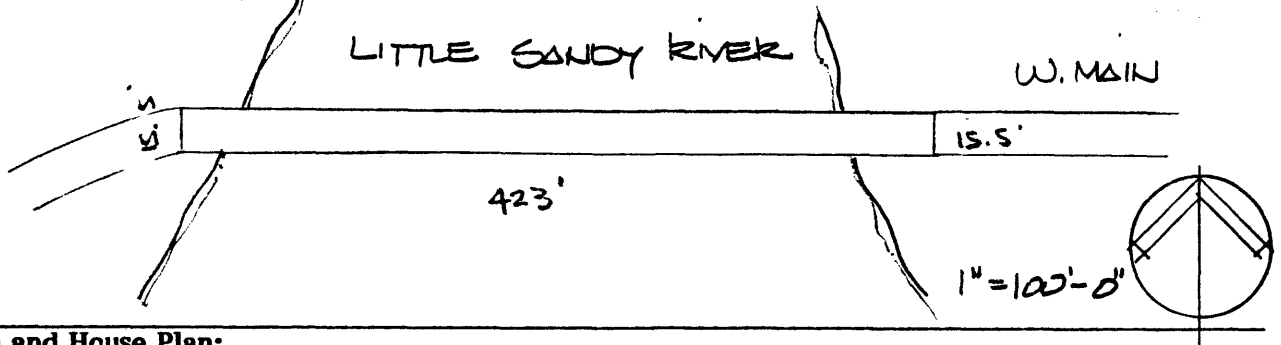
A. ---	D. ---
B. ---	E. ---
C. ---	F. ---

42. Total Acreage in Present Property: 43. Acreage included in proposed N.R. boundary: .18 acre

44. Site Plan (and boundary description and justification for N.R. sites):

The boundary contains one contributing structure and all the property occupied by the bridge itself.

The point of beginning is in the north right of way of West Main Street 450 feet west of the northwest corner of the intersection of West Main and Chestnut and is the NE corner of the bridge; then south 15.5 feet to the SE corner of the bridge; then west 423 feet along the south side of the bridge to the SW corner of the bridge; then north to the NW corner of the bridge; then east 423 feet along the north side of the bridge to the NE corner of the bridge and the point of beginning.



45. Description and House Plan:

The KY 2541 Bridge stands at the west end of Main Street in Greenup. It spans the Little Sandy River approximately 400 feet south of its intersection with the Ohio River. The bridge contains three Pratt through-trusses and is 423 feet long and 15.5 feet wide. It is supported by rough-cut stone abutments and piers. There are three 139 foot spans of equal length. The three wrought-iron trusses are connected by pins. For an analysis of the structural information, see the attached information compiled by the Kentucky Department of Transportation in their survey of bridges in Kentucky.

The floor is composed of plate girders. Alterations to the bridge include the construction of guard rails, concrete retaining wall on the east end, and repair to the foundation.

The bridge commands excellent views of the Little Sandy and Ohio Rivers. A bridge plate on the east end contains the name of the King Bridge Company and the date of 1884.

V. DESIGN INFORMATION

NO. SPANS: 3 OVERALL LENGTH: 423' WIDTH: 15.5'

SPAN TYPES:

1. 3 Pratt Through Trusses at LENGTH: 139'
2. _____ LENGTH: _____

VI. STRUCTURAL INFORMATION

SUBSTRUCTURE: Rough cut stone abutments and piers; concrete caps and one concrete retaining wall at south abutment.

SUPERSTRUCTURE

MATERIALS: Probably wrought iron BASIS: pre 1885 Age

CONNECTIONS: PINS: X RIVETS: _____

END POSTS: 2 channels, cover plate, lacing bars

TOP CHORDS: 2 channels, cover plate, lacing bars

BOTTOM CHORDS: 2 rectilinear eyebars, die-forged eyes

HIP VERTICALS: 2 square eyebars, 90° turn before bolting to bottom chord

INTERMEDIATE POSTS: 2 channels, 2 sets lacing bars

DIAGONALS: 2 rectilinear eyebars, die-forged
2 square eyebars, loop-welded, sleeve nuts in center panel

COUNTERS: 1 square eyebar, loop-welded, sleeve nut

TOP LATERAL BRACING: 1 round rod with sleeve nut

TOP LATERAL STRUTS: 2 channels, lacing bars

BOTTOM LATERAL BRACING: 1 round rod with sleeve nut

FLOOR BEAMS: Plate girders STRINGERS: Rolled I-beams

OTHER DETAILS: Floor beam hangers at each panel, new guardrail.

VII. TRUSS CONFIGURATION

