

STATEWIDE BRIDGE SURVEY FORM

MNDOT No.: 90980
 Historic Name:
 Common Name: North Fork Bridge
 Owner: Kingston Township
 Year Built: 1899
 Engineer:
 Fabricator:
 Contractor: Hewett Bridge Co. (S.M. Hewett, Minneapolis)

Location

County: Meeker
 City/Town: Kingston T.
 Legal Description: Section 18, Township 120N, Range 29W
 Crossing: carries township road 362 over North Fork Crow River

Sketch Diagram

see attached field survey form

Technical Data

Category: steel through truss
 Span No./Type: one steel pin-connected Pratt through truss main span, two steel stringer spans
 Overall Width x Overall Length: 15.6' x 148'

Significance

Local x State ___ National ___
 Historic Context: Metal Truss Bridges in Minnesota, 1870s-1942
 Integrity: Excellent ___ Good ___ Fair x Poor ___
 No. of Resources with Property: 1 contributing structure(s)
 ___ non-contributing structure(s)

Summary Description

Located three miles west of Kingston, this bridge carries an unpaved north-south local road over the North Fork of the Crow River. Although a maker's plate does not survive on the bridge, information in MNDOT records derived from a maker's plate(A) indicates that the bridge was built in 1899 by the Hewett Bridge Co (this would have been the company owned by Seth M. Hewett, rather than the William S. Hewett Company, also of Minneapolis). The 120-foot, steel, pin-connected Pratt through truss main span sits on H-beam piles (not original; one original, cylindrical, concrete-filled, riveted steel plate caisson is lying on its side under the south approach span). The steel stringer approach spans sit on these piles and on concrete abutments. The superstructure of the main span is comprised as follows: the upper chords consist of two steel channel sections riveted with a continuous steel top cover plate and with batten plates along the lower flanges; the lower chords

Summary Description Continued

are punched steel eye-bars; the hip vertical members consist of forged square steel rods; other verticals consist of two steel channel sections riveted with lacing bars; diagonal members are punched steel eye-bars; the counters are round steel turnbuckles. The deck, which consists of 3 x 4s on edge with a double-track plank wearing surface, is supported by steel I-beam stringers bolted atop the floor beams. The steel I-beam floor beams are suspended from the superstructure with U-bolts. Diagonal portal bracing consists of paired steel angle sections. Sway bracing consists of struts (four angle sections with lacing bars) and paired angle section knee braces.

Sources of Information

- A. "MNDOT Supplemental Structure Inventory," form in MNDOT file for Br. No. 90980.

Date of Survey: November, 1987

Surveyor: Fredric L. Quivik
Architectural Historian
Renewable Technologies, Inc.
Butte, MT

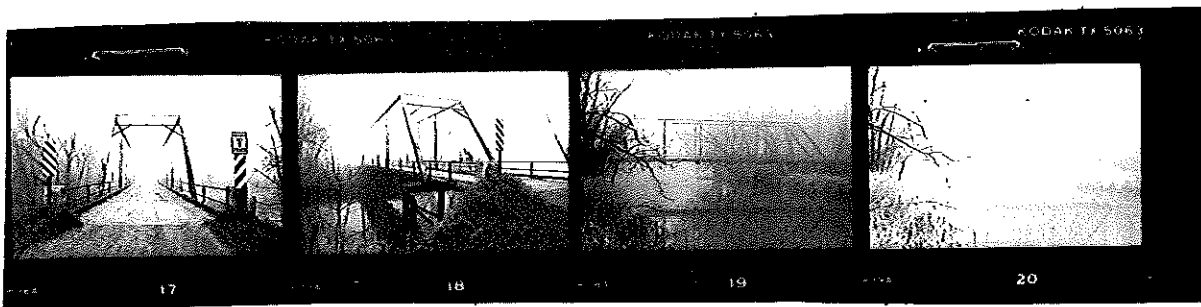
STATEWIDE BRIDGE SURVEY: PHOTO CONTACT SHEET RECORD, Br. No. 90980

Contact Sheet # 09146

November, 1987

Photographer: Fredric L. Quivik

Frame No.	Bridge No.	County	City/ Township	Subject	Camera Facing
17.	90980	Meeker	Kingston T.	portal view	N
18.	"	"	"	3/4 view	NE
19.	"	"	"	west elevation	E
20.	"	"	"	west elevation	E
21.	"	"	"	new steel support under south end, main span	W

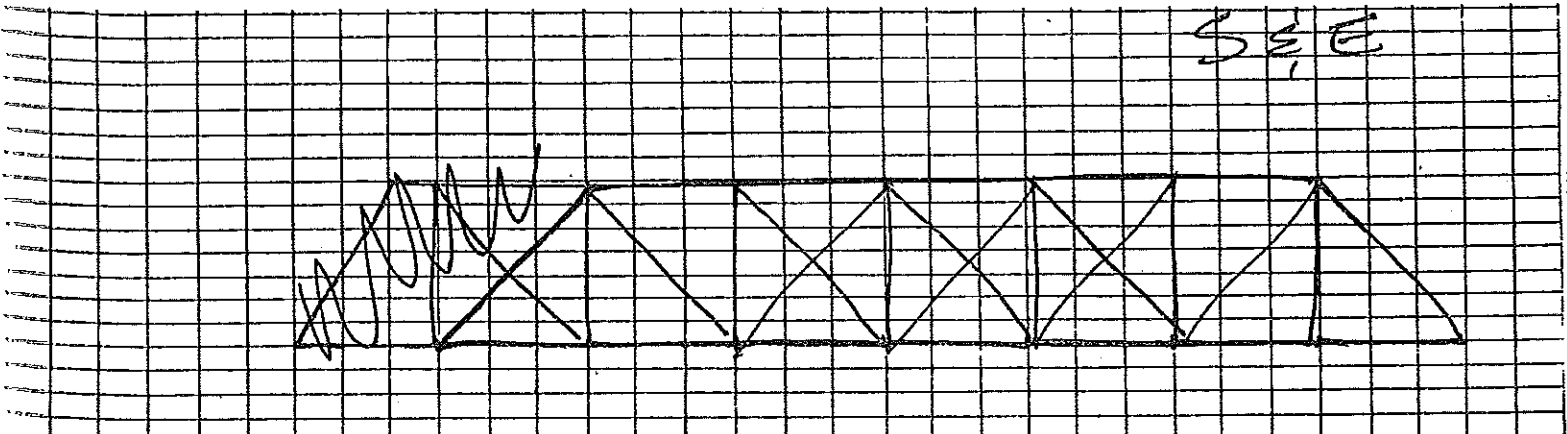


COUNTY: MECKER TOWNSHIP/ CITY: FOREST CITY / KINSTON
 BRIDGE NAME: SALISBURY BR. 90980
 LOCATION: MIDWAY BETWEEN FOREST C. & KINSTON
 (APPROX) YR BLT: _____

PLAQUE

CARRIES LOCAL RD OVER CROW RIVER

 MAIN SPAN(S) _____
 APPROACH SPAN(S) _____
 APPROACH SPAN(S) _____

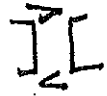


MEMBER DESCRIPTION:

LOWER CHORD: PUNCHED EYE-BARS

SUPERSTRUCTURE:

VERTICALS: AMP: ^{FORGED} EYE-B; OTHERS

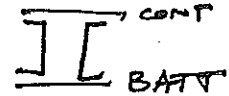


RAILING:

L BOLTED TO VERT

DIAGONALS: PUNCHED EYE-B WITH ROUND ROD TURNBUC

UPPER CHORD: _____



SUBSTRUCTURE:

NEW H-BEAM PILES, S END & N. END
CONCR. ABUT S. END, N. END
 TYPE of MOVABLE END SLIDING PLATE, N. END

ONE STEEL CYL. PIER IS UNDER S. APPR. SPAN (ON ITS SIDE)

CONNECTIONS:

FLOOR BM. TO SUPERSTR. U-BOLTS

PANEL INTERSECTIONS PIN

STRINGERS TO FLR. BM. BOLTED ATOP FL. BM.

FLOOR SYSTEM:

FLOOR BMS. I-BEAMS

STRINGERS _____

DECK 3x6 ON EDGE, DOUBLE TRUSS

LATERAL BRACING:

PORTAL SWAY FLOOR

PORTAL L

SWAY

STAYS & ROD LATERALS

FLOOR

