

STATEWIDE BRIDGE SURVEY INVENTORY FORM

MNDOT No.: L4013
 Historic Name:
 Common Name:
 Owner: Houston County
 Year Built: 1915 (A)
 Engineer: Alfred J. Rasmussen ? (A)
 Contractor/Mason:
 Contact Sheet No.: 09369

Location

County: Houston
 Township: Black Hammer
 Legal Description: Township 102N, Range 7W, Section 20
 Crossing: Township Road 126 over dry streambed, about 2.5 miles west of
 County Highwa 4

Technical Data

Stone Type: Limestone
 Masonry Type: Ashlar
 No/Type of Arches: 1 semicircular
 Length of Arch Barrel: 18' 2"
 Span Length: 12' 6"
 Rise: 6' 2"

Significance

Local x State _____ National _____
 Historic Context: Minnesota Masonry-Arch Highway Bridges, 1875-1940
 Integrity: Excellent _____ Good _____ Fair x Poor _____
 No. of Resources within Property: 1 contributing structure(s)

Summary Description

Located in a rural area of Houston County about 7 miles west of the City of Caledonia, the bridge crosses a dry streambed in a roughly east-west direction. The bridge was authorized in January 1915, when the Houston County Board of Commissioners approved a request from the Town of Black Hammer "for one-half of the expense of building a bridge in section 20 of said town" (A). The County Board Minutes also note that "the engineer was directed to make a survey and draw plans for said bridge." Although the name of the engineer is not recorded, it probably was Alfred J. Rasmussen, who received road engineering fees from the county in January 1915, and who was appointed "County Road and Bridge Engineer" in June 1915 (A). There is no further mention of the bridge in the County Board Minutes.

Built on a slight skew of local, ashlar, bluff-colored limestone, the structure displays a single semicircular arch springing about 4 feet above grade from well-defined impost ledges that step out about 6 inches and then fall flush with the abutment. The ring stones are well-

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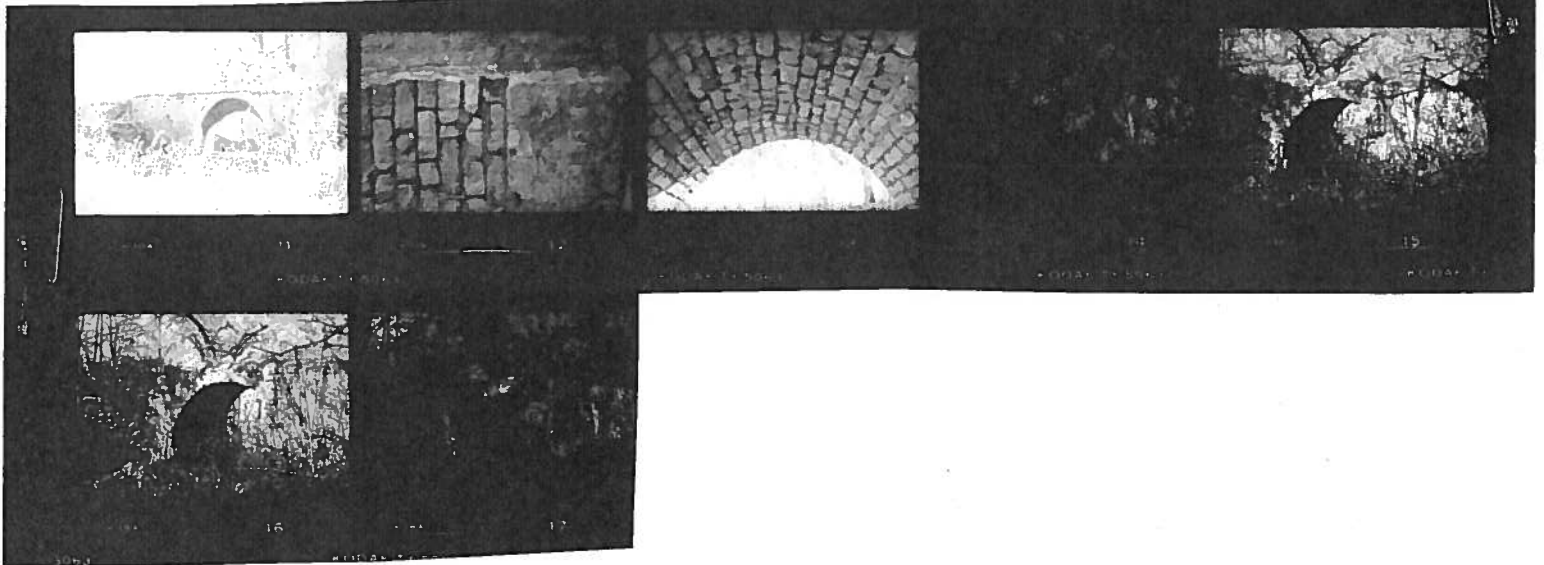
Summary Description Con't.

blocked, measuring about 8 inches in width and 12 inches in height. Joints are about 1 inch thick. Except for a few crude patches of repointing, the intrados joints are bereft of mortar. Under the bridge, the streambed has been covered with a concrete slab, presumably to protect the masonry footings from scour. The structure's spandrel walls are continuous with slightly flared wing walls. MNDOT photos from the 1950s and 1960s show stone parapet walls rising above the roadway and topped with pipe-metal railings. These features have been removed, leaving a ragged masonry line flush with the roadway.

Sources of Information

- A. Proceedings of the County Commissioners of Houston County, Jaunary 6, June 22, 1915, unpublished. Houston County Courthouse, Caledonia, MN.
- B. MNDOT file for Bridge No. L4013. MNDOT.

Date of Survey: October 1987
Surveyor: Jeffrey A. Hess



MINNESOTA DEPARTMENT OF TRANSPORTATION - STRUCTURE INVENTORY

YEAR 1983

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BY COUNTY

10/27/83

IDENTIFICATION		EXPANSION DEVICE		CONDITION CODES		APPRAISAL RATINGS	
8 BR. NO. <u>L4013</u>	2 WAY ROAD	TYPE <u>CONDITION</u>	DECK AREA <u>218</u>	DECK AREA <u>218</u>	67 STRUCTURE CONDITION	5	
2 DISTRICT <u>6</u>	MAINT. AREA	YEAR INSTALLED <u>19</u>		(COMPUTED) <u>UNBOUND</u>	68 DECK GEOMETRY	2	
3 COUNTY <u>HOUSTON</u>		38 NAVIGATION CONTROL <u>NO</u>			69 UNDERCLEARANCES	N	
4 CITY <u>HOUSTON</u>		39 NAVIGATION CLEARANCE VERT. <u>HORIZ.</u>			70 SAFE LOAD CAPACITY	5	
5 ROUTE NO. <u>126</u>	FUNCTION <u>MAIN LINE</u>	WATERWAY OPENING <u>99</u> ft.			71 WATERWAY ADEQUACY	8	
TWNS <u>126</u>	MAIN LINE	42 TYPE OF SERVICE <u>15</u>			72 APPROACH ALIGNMENT	5	
6 NAME OF FEATURE CROSSED		HWY <u>812</u> / STREAM			PLAN AVAIL.	NO PLAN	
STRM <u>812</u>		43 TYPE OF MAIN SPAN <u>MASONRY ARCH</u>			RAILINGS	02	
9 DESCRIPTIVE LOCATION		44 TYPE OF APPROACH SPAN			CONDITION		
2.5 MI W OF JCT CS4H 4		CULVERT ID.		INSPECTION DATE <u>12/17/32</u>	BASE HEIGHT		
SEC. <u>20TWP. 10RGE. 07W</u>		BARREL LENGTH		APPR. PANEL TOP	CURB HEIGHT	00"	00"
REFERENCE POINT <u>000+00.199</u>		45 NO SPANS MAIN UNIT <u>1</u>		PANEL CONDITION	APPROACH EVALUATES	0	
16 LATITUDE <u>43 37.4</u>		TOTAL NO. SPANS <u>1</u>		LENGTH	CAPACITY RATINGS		
17 LONGITUDE <u>91 42.4</u>		46 NO. SPANS APPR. UNIT		YEAR PAINTED	DATE OF REPAIR	04	19 73
18 PHYSICAL VULNERABILITY <u>3</u>		48 MAX. SPAN LENGTH <u>11.5</u> ft.		PAINTED AREA	ADJ. RAILING	HS	15.0
19 DETOUR LENGTH <u>0</u> mi.		49 TOTAL LENGTH <u>15.0</u> ft.		UNBOUND	BRIDGE SIGNS	HS	12.0
21 CUSTODIAN <u>22 OWNFR</u>	COUNTY <u>COUNTY</u>	POSTER BOARD <u>0</u>		TRAFFIC	0	VERTICAL	N
		HORIZONTAL <u>0</u>		POSTER BOARD	0	NEW RATING NEEDED	NO
24 FED - AID <u>LOCAL ROAD</u>		50 SIDEWALK WIDTH LT		RT		PROPOSED IMPROVEMENT DATA	
25 ADMINISTRATION <u>LOCAL</u>		51 ROADWAY WIDTH OVER <u>14.5</u> ft.		IF DIVIDED		73 YEAR NEEDED	19 85
26 FUNCTIONAL CLASSIFICATION <u>LOCAL SYSTEM</u>		52 DECK WIDTH (Out) <u>14.5</u> ft.		IF DIVIDED		75 TYPE WORK	REPLACE-COND BRIDGE
09 RURAL <u>LOCAL SYSTEM</u>		53 VERT. CLEAR OVER <u>11.5</u> ft.		IF DIVIDED		76 LENGTH	19 WIDTH 32 LNS 2
27 YEAR BUILT <u>03</u>	REMODELED	54 UNDERCLEAR VERT. <u>11.5</u> ft.		IF DIVIDED		80 PROJECTED ADJ.	40
DATE OPEN TO TRAFFIC		10 MAX. VERT. CLEAR <u>11.5</u> ft.		IF DIVIDED		82 ROWY IMP. YR.	19 85
28 LANES ON BRIDGE <u>1</u>	UNDER	55 UNDERCLEAR-LATERAL <u>RT</u>		IF DIVIDED		83 EST. IMPROVEMENT COSTS	21,000
29 A.D.T. <u>4C 30</u>	YEAR <u>69</u>	57 TYPE OF WEARING SURFACE <u>GRAVEL</u>				SUFFICIENCY RATING	NNNN
31 DESIGN LOAD <u>UNKOWN</u>		TOTAL DEPTH OF WC-FILL ETC. <u>00.50</u> ft.				REMARKS	
32 RDWY. APPR. WIDTH <u>20</u>		COATED REBARS		YEAR <u>19</u>			
33 MEDIAN <u>34</u>	SKEW <u>15</u>						

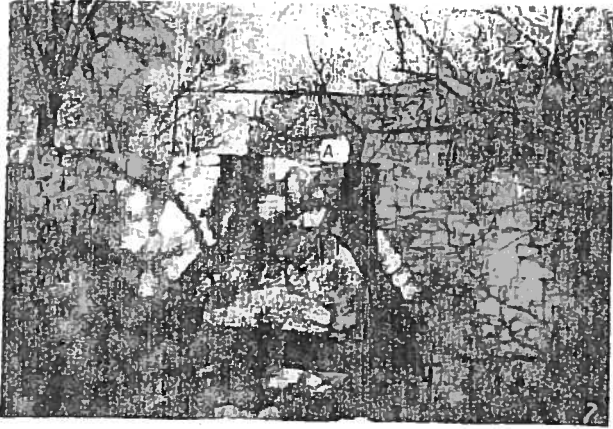
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1903

Houston Co. # L-401

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1962

1962



1954

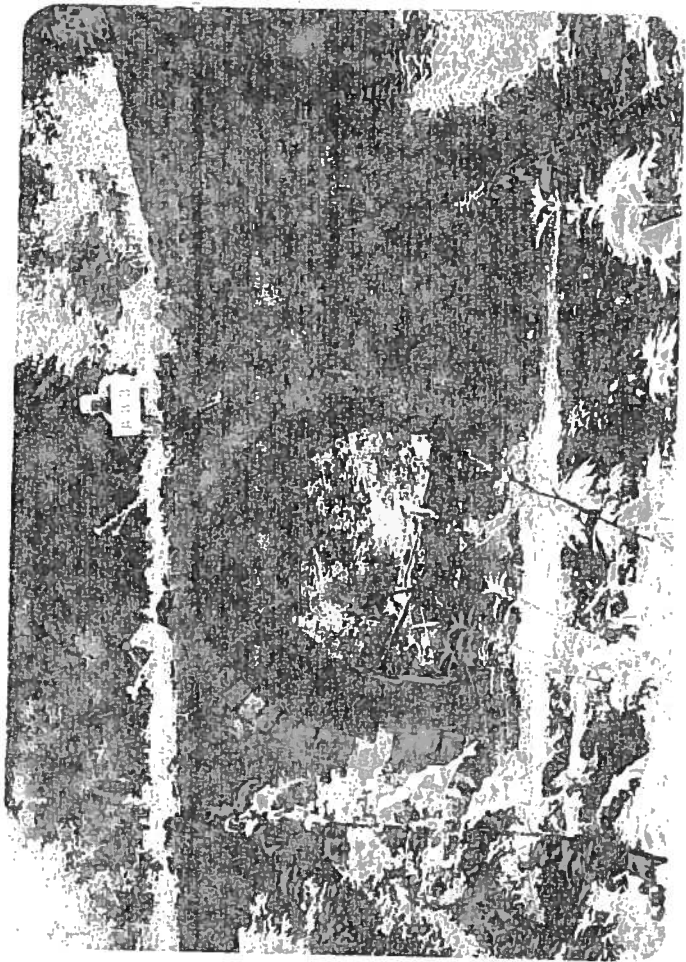
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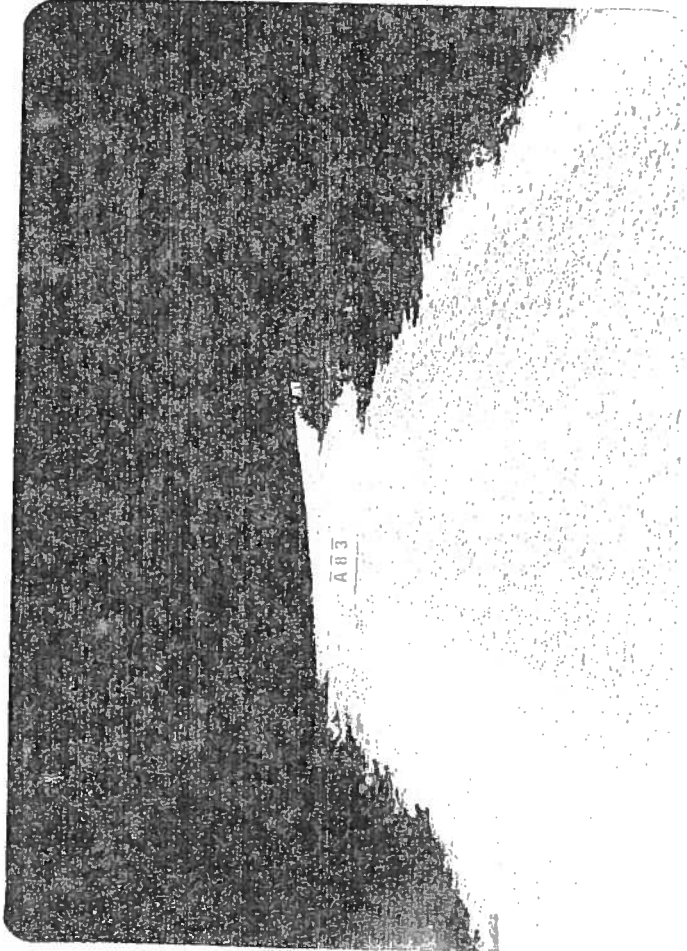


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