National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in Guidelines for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property			
historic name Bridge No. L	4770		
other names/site number Fount	ain Township Stone-Arch Bridge	<u>م</u>	
	· · · · · · · · · · · · · · · · · · ·		
2. Location			
street & number Township H	Road 213 over Mahoney Creek		not for publication N/A
city, town Fountain Townshi			x vicinity Fountain
	de MN county Fillmore	code 045	zip code 55935
3. Classification	······································		
Ownership of Property	Category of Property	Number of Reso	urces within Property
private	building(s)	Contributing	Noncontributing
public-local	district		buildings
public-State	site		sites
public-Federal	x structure	1	structures
	object		objects
		1	0 Total
Name of related multiple property	listing:	Number of contri	buting resources previously
	Highway Bridges, 1870-1945		onal Register0
		······	
4. State/Federal Agency Cer	tification		
National Register of Historic Pl In my opinion, the property	der the National Historic Preservation Act o determination of eligibility meets the docume aces and meets the procedural and profess meets adoes not meet the National Regi	ntation standards for ional requirements so	registering properties in the et forth in 36 CFR Part 60.
Muia M.	Urchabal		9/22/89
	Nina M. Archabal		Date
State Historic Prese	rvation Officer		
State or Federal agency and burea	Minnesota Historical Socie	ty	
In my opinion, the property	meets does not meet the National Regi	ster criteria. 🗌 See c	continuation sheet.
Signature of commenting or other	official		Date
State or Federal agency and burea	u		

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5. National Park Service Certification

I hereby partify that this property in

i, neieby, certity mat this property is.
entered in the National Register.
See continuation sheet.
determined eligible for the National
Register. See continuation sheet.
determined not eligible for the
National Register.
removed from the National Register.

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other,	(exp	olain	:)	

Signature of the Keeper

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Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)		
Transportation, road-related (vehicular)	Transportation, road-related (vehicular)		
7. Description			
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)		
	foundation Stone, limestone		
Other: Stone-arch bridge	walls		
	roof		
	other Stone, limestone		

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Describe present and historic physical appearance.

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Section number _____ Page ____1

Description: Bridge L4770

Located in a rural area of Fillmore County about 2 miles west of the City of Fountain, the structure is a single-span stone-arch bridge that carries an unpaved north-south road over Mahoney Creek.

Built of gray coursed-rubble limestone, the bridge displays a nearly semicircular arch (10-foot span, 4-foot rise) springing about 7 feet above grade from well-defined impost ledges that extend outward from the intrados about 6 inches. The bridge's limestone matches regional bedrock strata, but the quarry site has not been identified. In comparison to the other, 9, surviving stone-arch highway bridges in Fillmore County, the structure's masonry is precisely cut and laid: ring stones are rectangular and uniform, measuring about 6 inches in width and 12 inches in height; corner stones are sharply squared: and masonry joints range from about one-half-inch to 1-inch thick. The spandrel walls are recessed by one course from the flared wing walls. As is common with country stone-arches throughout southeastern Minnesota, the intrados is coated with a thin cement sheath showing formwork impressions from the original centering. The bridge's overall width is 20 feet, 6 inches. On both elevations, the bridge is surmounted by a concrete parapet with angle-iron posts that have lost their rails. The parapets appear to be additions. However, they do not affect the bridge's most significant elements, which are the design of the impost ledges and the configuration of the arch itself.

Certifying official has considered the		ce of th tionally		erty in Statev			
Applicable National Register Criteria		В	хc	D			
Criteria Considerations (Exceptions)	A	□в	□c	D		G	
Areas of Significance (enter categorie	s from in	struction	ns)		Period of Signi		Significant Dat
Engineering					<u> </u>		<u>C. 1915</u>
					C. 1915		<u>C. 1915</u>

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State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

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United States Department of the Interior National Park Service

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Significance: Bridge No. L4770

Bridge No. L4770 embodies engineering significance in the context of Minnesota masonry-arch highway bridges constructed during the period 1870 to 1945. With its short-span, nearly semiciruclar arch and distinctive, 6-inch-wide impost ledges, the bridge displays the essential features of a standard stone-arch design that appears to have been developed by the Minnesota State Highway Commission (MHC) during the second decade of the twentieth century for use in rural areas of southeastern Minnesota.. Bridge No. L4770 is the only surviving example of the design in Fillmore County, and one of the few unaltered examples in the state.

As the historic context points out, the MHC was officially organized in 1905 to improve the quality of roads and bridges in the state. To fulfill its responsibilities, the MHC assigned field engineers to assist county governments with highway projects, and prepared a series of standard bridge plans, including "plans for beam spans, plate girders, low trusses and high trusses, reinforced concrete slab and girder spans."¹ Although MHC reports do not mention a stone-arch plan, the commission's field engineers apparently had at their disposal a standard short-span design appropriate for the limestone region of southeastern Minnesota. In 1912, for example, J. J. Davy, the MHC engineer for Fillmore County, supervised the construction of a "12' stone arch" in that county. Although the structure's design is unknown, it may well have embodied the plan utilized by another MHC engineer for a 12-foot stone arch in nearby Houston County in 1915 (see National Register Documentation for the Bridge No. L4013).

The Fillmore County bridge survives in relatively unaltered condition. Its most notable features are a semicircular arch and well-defined, 6-inch-wide impost ledges, which probably served as supports for the arch centering. These same features are replicated on a nearby bridge in Houston County (Bridge No. L4009), two bridges in Wabasha County (Bridge Nos. L1122, 93741), and Bridge No. L4770 in Fillmore County. The construction history of the Fillmore County bridge is unknown -- county records do not mention the structure and township records are missing. The existence of the similar "impost-ledge" structures in Houston and Wabasha counties, however, implies that the bridge is an example of a standard, MHC, stone-arch plan. Considering that the plan was implemented in Houston County in 1915, a construction date of "c. 1915" is plausible for Bridge No. L4770. Since the Wabasha County bridges have lost their integrity, Bridge No. L4770 remains the only intact example of the state-sponsored design outside of Houston County. The bridge, therefore, significantly contributes to an understanding of the design's morphology and geography.

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Bridge No. L-4770

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Notes

- 1. Minnesota State Highway Commission, Report of the State Highway Commission of Minnesota for 1914 (n. pub., 1915), p. 222.
- 2. Entry for Bridge #400, Bridge Log, Minnesota State Highway Commission Papers, Minnesota Historical Society.

9. Major Bibliographical References	
Entry for Bridge #400, 1912. Bridge Log. Mi Minnesota Historical Society.	nnesota State Highway Commission Papers,
Minnesota State Highway Commission, <u>Report o</u> <u>Minnesota for 1914</u> . N. pub., 1915.	f the State Highway Commission of
Proceedings of the Fillmore County Board of C	ommissioners. Filmmore County Courthouse.
Previous documentation on file (NPS):	See continuation sheet
preliminary determination of individual listing (36 CFR 67)	Primary location of additional data:
has been requested	State historic preservation office
previously listed in the National Register	Other State agency
previously determined eligible by the National Register	Federal agency
designated a National Historic Landmark	
Survey #	University Other
recorded by Historic American Engineering	Specify repository:
Record #	
10. Geographical Data	
Acreage of property _Less than one acre	
UTM References A 1 15 5 7 12 9 15 10 4 18 4 13 1 17 10 Zone Easting Northing	B I I I Zone Easting Northing
	See continuation sheet
Verbal Boundary Description	
The nominated property is defined by a rectan 26 feet east-west, whose vertices coincide wi wing walls.	
· · ·	See continuation sheet
Boundary Justification	
Based on field measurements, as well as on me Department of Transportation, the boundaries substructure, including wing walls.	
	See continuation sheet
11. Form Prepared By	
name/title Jeffrey A. Hess, Historical Consultan	it
organizationN/A	date August 1988
street & number <u>305</u> Grain Exchange Building city or town Minneapolis	telephone <u>612-338-1987</u>
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Minnesota Masonry-Arch Highway Bridges MPS

Fillmore Co. MINNESOTA

ADDITIONAL DOCUMENTATION 🛬 Bridge No. L4770

Accepted

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National Register of Historic Places Continuation Sheet



OMB Approval No. 1024-0018

Section number ____ Page ____

Description: Bridge L4770

Located in a rural area of Fillmore County about 2 miles east of the City of Fountain, the structure is a single-span stone-arch bridge that carries an unpaved north-south road over Mahoney Creek.

Built of gray coursed-rubble limestone, the bridge displays a nearly semicircular arch (10-foot span, 4-foot rise) springing about 7 feet above grade from well-defined impost ledges that extend outward from the intrados about 6 inches. The bridge's limestone matches regional bedrock strata, but the quarry site has not been identified. In comparison to the other, 9, surviving stone-arch highway bridges in Fillmore County, the structure's masonry is precisely cut and laid: ring stones are rectangular and uniform, measuring about 6 inches in width and 12 inches in height; corner stones are sharply squared; and masonry joints range from about one-half-inch to 1-inch thick. The spandrel walls are recessed by one course from the flared wing walls. As is common with country stone-arches throughout southeastern Minnesota, the intrados is coated with a thin cement sheath showing formwork impressions from the original centering. The bridge's overall width is 20 feet, 6 inches. On both elevations, the bridge is surmounted by a concrete parapet with angle-iron posts that have lost their rails. The parapets appear to be additions. However, they do not affect the bridge's most significant elements, which are the design of the impost ledges and the configuration of the arch itself.

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Bridge No. L4770, Fountain Township, Fillmore Co., MN (89001827)

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Change the word "west" in the first sentence of the first paragraph to "east."

Signature of certifying official

Ian R. Stewart Deputy State Historic Preservation Officer