HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Minnesota [27]	Hennepin County [053]	Minneapolis [43000]	0.1 MI E OF JCT M'HAHA A	44-54-42 = 44.911667	093-12-18 = -93.205000

5756	Highway agency district: 5	Owner: Other State Agencies [21]	Maintenance responsibility: Other State Agencies [21]		
Route: 0		SOLDIER'S HOME RD	Toll: On free road [3]	Features intersected: MINNEHAHA CREEK	

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
1	Arch - Deck [11]	8	Other [00]	Year built: 1908	Year reconstructed: #Num!
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length	191 m = 626.7 ft	Length of maximum span	87.8 m = 288.1 ft	Deck width, out-to-out	9.5 m = 31.2 ft	Bridge roadway width, curb-to-curb	5.5 m = 18.0 ft
Inventory Route, Total Horizontal Clearance	5.5 m = 18.0 ft	Curb or sidewalk width - left	1.2 m = 3.9 ft	Curb or sidewalk width - right	1.2 m = 3.9 ft		

Deck structure type	Closed Grating [4]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	Epoxy Coated Reinforcing [1]
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	11.1 metric ton = 12.2 tons	
0.2 km = 0.1 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	19.8 metric ton = 21.8 tons	
	Bridge posting		Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	200	Average daily truck traffi		%	Year 1985	Future average daily traffic 200	Year 2029
Road classification	Local (Urban) [19]	Lanes on structure	2	Approach roadway width	9.1 m = 29.9 ft		
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control			
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	30.48 m = 100.0 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]						
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]				
Appraisal ratings - underclearances	N/A [N]						

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	2932000	Roadway improvement cost	129000
Length of structure improvement	191 m = 626.7 ft	Total project cost	1942000
Year of improvement cost estimate	2011		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations (including piles) on dry land well above flood water elevations. [9]
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	22.8

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

Inspection date	May 2010 [0510]	Designated inspection frequency	12	Months

Underwater inspection	Unknown [N00]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	May 2010 [0510]
Other special inspection	Unknown [Y60]	Other special inspection date	May 2008 [0508]