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]	Ramsey County [123]	St. Paul [58000]	AT W CO LINE	44-55-04 = 44.917778	093-12-03 = -93.200833

3575	Highway agency district	5	Owner	County Highway Agency [02]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route	42		CSAH 42(FORD PKY)	Toll	On free road [3]	Features intersected	MISS R & MISS BL

Design - main	Concrete [1]	Design - approach	Concrete [1]	Kilometerpoint	0 km = 0.0 mi		
5	Arch - Deck [11]	6	Other [00]	Year built	1927	Year reconstructed	#Num!
				Skew angle	0	Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]		

Total length	464.4 m = 1523.7 ft	Length of maximum span	99.8 m = 327.4 ft	Deck width, out-to-out	25.5 m = 83.7 ft	Bridge roadway width, curb-to-curb	17.1 m = 56.1 ft
Inventory Route, Total Horizontal Clearance	17 m = 55.8 ft	Curb or sidewalk width - left	3.1 m = 10.2 ft	Curb or sidewalk width - right	3.1 m = 10.2 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Low slump Concrete [4]
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	22.5 metric ton = 24.8 tons	
0.5 km = 0.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	37.6 metric ton = 41.4 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 22.5 / HS 25 [9]	

Functional Details

Average Daily Traffic	17100	Average daily truck traffi		%	Year 2009	Future average daily traffic 17100	Year 2029
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	4	Approach roadway width	17.1 m = 56.1 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	Highway-waterway [6]	Lanes under structure	4	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	15.8 m = 51.8 ft	Navigation horizontal clearance	61 m = 200.1 ft				
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	30.48 m = 100.0 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	1.8 m = 5.9 ft	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4.15 m = 13.6 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of replacement [2]						

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of relocation of road. [32]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	18193000	Roadway improvement cost	
Length of structure improvement	464 m = 1522.4 ft	Total project cost	
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	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Good [7]	Appraisal ratings - roadway alignment	Superior to present desirable criteria [9]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Very Good [8]		

Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]

Appraisal ratings - water adequacy	Better than present minimum criteria [7]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	78.9

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	August 2011 [0811]	Designated inspection frequency	12	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2011 [0811]
Fracture critical inspection	Unknown [N00]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	