

# HistoricBridges.org - National Bridge Inventory Data Sheet

2012 Inventory

The National Bridge Inventory contains data submitted by state transportation 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

Michigan [26]	Iron County [071]	Bates [05860]	1.0 MI WEST USH 2	46-05-42 = 46.095000	088-30-31 = - 88.508611
4199	Highway agency district 1	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 0	CHICAGON MINE RD	Toll On free road [3]	Features intersected	CHICAGON CREEK	
Design - main Concrete [1] 1	Design - approach Other [00] 0	Kilometerpoint 21.6 km = 13.4 mi	Year built #Num!	Year reconstructed	
		Skew angle 0	Structure Flared		
		Historical significance	Bridge is on the NRHP. [1]		
Total length 8.5 m = 27.9 ft	Length of maximum span 7.6 m = 24.9 ft	Deck width, out-to-out 4.9 m = 16.1 ft	Bridge roadway width, curb-to-curb	4.6 m = 15.1 ft	
Inventory Route, Total Horizontal Clearance 4.9 m = 16.1 ft	Curb or sidewalk width - left 0 m = 0.0 ft	Curb or sidewalk width - right 0 m = 0.0 ft			
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]				
Deck protection					
Type of membrane/wearing surface					

## Weight Limits

Bypass, detour length 0.6 km = 0.4 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	13.6 metric ton = 15.0 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	15 metric ton = 16.5 tons
Bridge posting	20.0 - 29.9 % below [2]	Design Load	MS 18+Mod / HS 20+Mod [6]	

### Functional Details

Average Daily Traffic	142	Average daily truck traffi	0	%	Year	1994	Future average daily traffic	200	Year	2000
Road classification	Local (Rural) [09]		Lanes on structure	2		Approach roadway width	5.5 m = 18.0 ft			
Type of service on bridge	Highway [1]		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	99.99 m = 328.1 ft			
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	99.9 = Unlimited					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

Work done by

Bridge improvement cost

Roadway improvement cost

Length of structure improvement

Total project cost

Year of improvement cost estimate

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 - superstructure	Fair [5]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]		
Channel and channel protection	The channel has changed to the extent the bridge is near a state of collapse. [2]		
Appraisal ratings - water adequacy	Basically intolerable requiring high priority of replacement [2]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	36.3
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	September 2010 [0910]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	