

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.  
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**Basic Information**

Indiana [18] St. Joseph County [141] South Bend [71000] 0.2 N of SR 933 41-39-41 = 41.661389 086-12-54 = - 86.215000

7100033 Highway agency district 4 Owner County Highway Agency [02] Maintenance responsibility County Highway Agency [02]

Route 0 IRONWOOD Dr Toll On free road [3] Features intersected ST. JOSEPH River

Design - main Concrete [1] Design - approach Concrete [1] Kilometerpoint 0 km = 0.0 mi

3 Arch - Deck [11] 2 Arch - Deck [11] Year built 1929 Year reconstructed 1969

Skew angle 0 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 145.7 m = 478.0 ft Length of maximum span 39.6 m = 129.9 ft Deck width, out-to-out 19.7 m = 64.6 ft Bridge roadway width, curb-to-curb 15.9 m = 52.2 ft

Inventory Route, Total Horizontal Clearance 15.9 m = 52.2 ft Curb or sidewalk width - left 1.5 m = 4.9 ft Curb or sidewalk width - right 1.5 m = 4.9 ft

Deck structure type Concrete Cast-in-Place [1]

Type of wearing surface Epoxy Overlay [5]

Deck protection

Type of membrane/wearing surface

**Weight Limits**

Bypass, detour length 0.2 km = 0.1 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 32.4 metric ton = 35.6 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 40.5 metric ton = 44.6 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18 / HS 20 [5]

### Functional Details

Average Daily Traffic	22786	Average daily truck traffi	11	%	Year	2006	Future average daily traffic	36650	Year	2029
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	4		Approach roadway width	15.9 m = 52.2 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	7.6 m = 24.9 ft		Navigation horizontal clearance	39.6 m = 129.9 ft						
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	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	Work done by		Work to be done by contract [1]							
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	1242000	Roadway improvement cost	1000						
	Length of structure improvement	146 m = 479.0 ft		Total project cost	1382000					
	Year of improvement cost estimate	2008								
	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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		
Scour	Bridge with "unknown" foundation that has not been evaluated for scour. [U]		
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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	51.6
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	October 2008 [1008]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2005 [0905]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Every two years [Y24]	Other special inspection date	March 2009 [0309]