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							41-48-05 =	086-15-59 = -
Michigan [26]	Berrien County [021]	Bertrand [07920]	0.8 MI S OF NILE	S		41.801389	86.266389
11111101000B010 Highway agency district 5			Owner State Highw	Owner State Highway Agency [01] Maintenance responsibility		State Highway Ag	ency [01]	
Route 12 US-12			Toll Or	n free road [3]	Features interse	cted ST JOSEPH	RIVER	
Design - Steel [3] main 5 Girder and fl	oorbeam system [0:	Design - approach 0 Other	· [00]	Kilometerpoint Year built 1954 Skew angle 0 Historical significa	Structure F	constructed 1997		
Total length 146.3 m = 480.0 ft Length of maximum span 30.5 m = 100.1 ft Deck width, out-to-out 19.9 m = 65.3 ft Bridge roadway width, curb-to-curb 18.4 m = 60.4 ft								
Inventory Route, Total Horizontal Clearance 18.4 m = 60.4 ft			Curb or sidewal	k width - left 0 m =	0.0 ft	Curb or side	walk width - right	0 m = 0.0 ft
Deck structure type Concrete Cast-in-Place [1]								
Type of wearing surface Latex Concrete or sim		milar additive [3]						
Deck protection Epoxy Coated Reinfo		orcing [1]						
Type of membrane/wearing surface								
Weight Limits								
Bypass, detour length 0.8 km = 0.5 mi Method to determine inventory rating Method to determine operating rating		Load Factor(LF)	[1]	Inventory rating	32 metric ton = 3	35.2 tons		
		mine operating rating	Load Factor(LF)	[1]	Operating rating	54 metric ton = 5	59.4 tons	
Bridge posting Equal to or above legal loads [5]				Design Load MS	5 18 / HS 20 [5]			

Functional Details							
Average Daily Traffic 11438 Average daily to	uck traffi 13 % Year 2007 Future average daily traffi	ic 21042 Year 2018					
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 4	Approach roadway width 21.3 m = 69.9 ft					
Type of service on bridge Highway [1]	Direction of traffic 2 - way traffic [2]	Bridge median					
Parallel structure designation No parallel structure	e exists. [N]						
Type of service under bridge Waterway [5]	Lanes under structure 0 Navigation control						
Navigation vertical clearance 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 Open, no res	striction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]					
Condition ratings - superstructur Fair [5]		Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]					
Condition ratings - substructure Satisfactory [6]		Appraisal ratings -	Somewhat better than minimum adequacy to tolerate being left in place as is [5]					
Condition ratings - deck	Good [7]	deck geometry	is [5]					
Scour	Bridge is scour critical; b	ridge foundations determined	to be unstable. [3]					
Channel and channel protection		Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]						
Appraisal ratings - water adequac	Equal to present desirat	Equal to present desirable criteria [8] Status evaluation						
Pier or abutment protection			Sufficiency rating 77.6					
Culverts Not applicable. Used if structure is not a culvert. [N]								
Traffic safety features - railings	Inpecte	d feature meets currently acce	eptable standards. [1]					
Traffic safety features - transition	Inpecte	d feature meets currently acce	eptable standards. [1]					
Traffic safety features - approach	n guardrail Inpecte	d feature meets currently acce	eptable standards. [1]					
Traffic safety features - approach	n guardrail ends Inpecte	d feature meets currently acce	eptable standards. [1]					
Inspection date								
Underwater inspection Unknown [Y60]		Underwater inspe	ection date June 2007 [0607]					
Fracture critical inspection	Unknown [Y15]	Fracture critical in	nspection date May 2009 [0509]					
Other special inspection	Not needed [N]	Other special insp	pection date					