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							43-18-24 =	084-47-00 = -
Michigan [26] Gratiot County [057]			Sumner [77300] SEC 27-34 SUMN		IER TWP		43.306667	84.783333
29200016000B020 Highway agency district 4			Owner County Highway Agency [02] Maintenance responsibility			County Highway A	gency [02]	
Route 2954	ST (CHARLES ROAD	Toll On fre	ree road [3] Features intersected PINE RIVER				
Design - Concrete [1] main Girder and floor	rbeam system [C	Design - approach 3] O Other	[00]	Kilometerpoint Year built 1925 Skew angle 15 Historical significa	Structure F	constructed N/A		
Total length 27.4 m = 89	.9 ft L	ength of maximum sp	an 25.9 m = 85.0 ft	Deck width, out-	to-out 7.8 m = 25.6	ft Bridge road	dway width, curb-to-c	eurb 6.1 m = 20.0 ft
Inventory Route, Total Horizontal Clearance 6 m = 19.7 ft			Curb or sidewalk width - left 0 m = 0.0 ft Curb or s		Curb or side	ewalk width - right	0 m = 0.0 ft	
Deck structure type Concrete Cast-in-Place			ce [1]					
Type of wearing surface Bituminous		Bituminous [6]	ninous [6]					
Deck protection								
Type of membrane/wearing	ig surface							
Weight Limits								
Bypass, detour length $0.5 \text{ km} = 0.3 \text{ mi}$ Method to determine inventory rating Method to determine operating rating Bridge posting Equal to or above legations.		· ·	Allowable Stress(AS) [2] Allowable Stress(AS) [2] al loads [5]		13.6 metric ton			
		,			Operating rating 32.7 metric ton = 36.0 tons Design Load MS 18+Mod / HS 20+Mod [6]			

Functional Details								
Average Daily Traffic 610 Average daily tr	uck traffi 0 % Year 2003 Future average daily traffic 820 Year 2023							
Road classification Major Collector (Rural) [07]	Lanes on structure 2 Approach roadway width 7.9 m = 25.9 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 Work to be done by contract [1]							
Replacement of bridge or other structure because of substandard load carrying capacity or substantial	Bridge improvement cost 263000 Roadway improvement cost 40000							
bridge roadway geometry. [31]	Length of structure improvement 32 m = 105.0 ft Total project cost 320000							
	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	Meets minimum tolerable limits to be left in place as is [4]						
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum of	riteria [6]					
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrrective action [3]						
Condition ratings - deck	Poor [4]								
Scour	Bridge with "unknown" found	Bridge with "unknown" foundation that has not been evaluated for scour. [U]							
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	Better than present minimum	n criteria [7]	Status evaluation	Structurally deficient [1]					
Pier or abutment protection				39					
Culverts Not applicable. Used	if structure is not a culvert. [N]								
Traffic safety features - railings									
Traffic safety features - transition	ns								
Traffic safety features - approach	n guardrail								
Traffic safety features - approach guardrail ends									
Inspection date									
Underwater inspection	Not needed [N]	Underwater inspection date							
Fracture critical inspection	Not needed [N]	Fracture critical in:							
Other special inspection Not needed [N] Other special inspection date									