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 Infor	mation									44-17-29 =	084-53-35 = -
Michigan [2	Michigan [26] Missaukee County [113]			Butterfie	Butterfield [12200] SECTION 15/22 T22N R5W			I R5W		44.291389	84.893056
57303H00009B010 Hig		Highway ag	lighway agency district 2		Owner County Highway Agency [02]			Maintenance responsibility		County Highway Agency [02]	
Route 0 KELLY ROAD				Toll On free road [3] Features intersected MUSKEGON				N RIVER			
main			approach	Steel [3] Stringer/Multi-beam or girder [02]		Kilometerpoint 898.2 km = 556.9 mi Year built 1920 Year reconstructed N/A [0000] Skew angle 0 Structure Flared Historical significance Bridge is on the NRHP. [1]					
Total length 31.7 m = 104.0 ft Length of maximum span 24.3 m = 79.7 ft Deck width,							_	ut 4.2 m = 13.8	B ft Bridge road	dway width, curb-to-cewalk width - right	O m = 0.0 ft
Deck structure type Type of wearing surface Deck protection Corrugated Steel [6] Bituminous [6]			[6]								
Type of mer	mbrane/wea	aring surface									
Weight Lim											
Bypass, de 1.6 km = 1.	etour length .0 mi	Wicthod to det	ermine inventory ratermine operating rate		Allowable Stress(AS) Allowable Stress(AS)			entory rating erating rating	3 metric ton = 3 4 metric ton = 4		
Bridge posting								Design Load MS 18+Mod / HS 20+Mod [6]			

Functional Details								
Average Daily Traffic 160 Average daily true	ck traffi 10 % Year 2007 Future average daily traffic 280 Year 2027							
Road classification Local (Rural) [09]	Lanes on structure 2 Approach roadway width 7 m = 23.0 ft							
Type of service on bridge Highway [1]	Direction of traffic One lane bridge for 2 - way traffic [3] 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	ge Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft							
Minimum lateral underclearance reference feature Fea	ature not a highway or railroad [N]							
Minimum lateral underclearance on right 99.9 = Unlimit	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]								
Description of Description								
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 280000 Roadway improvement cost 50000							
bridge roadway geometry. [31]	Length of structure improvement 36.6 m = 120.1 ft Total project cost 340000							
	Year of improvement cost estimate							
	Border bridge - state Border bridge - percent responsibility of other state							
	Border bridge - structure number							

Inspection and Sufficient	iency								
Structure status Bri	tus Bridge closed to all traffic [K]		Appraisal ratings - structural						
Condition ratings - superstructur			Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in pl is [5]					
<u> </u>		Serious [3]	Appraisal ratings - deck geometry	N/A [N]					
Condition ratings - deck			deck geometry						
Scour		Bridge is scour critical; field	Bridge is scour critical; field review indicates that extensive scour has occurred at bridge foundations. [2]						
Channel and channel protection			Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]						
Appraisal ratings - water adequacy		Equal to present desirable	Equal to present desirable criteria [8]			Structurally deficient [1]			
Pier or abutment protection						18			
Culverts Not applicat	ble. Used if	structure is not a culvert. [N]							
Traffic safety features	- railings								
Traffic safety features	- transitions	S							
Traffic safety features	- approach	guardrail							
Traffic safety features	- approach	guardrail ends							
Inspection date Ju	uly 2009 [07	09] Designated in	spection frequency 24	1	Vionths				
Underwater inspection Not needed [N]			Underwater inspec	Underwater inspection date					
Fracture critical inspe	ection [Not needed [N]	Fracture critical inspection date						
Other special inspecti	tion 1	Not needed [N]	Other special insp	ection date					