

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

Michigan [26]	Gratiot County [057]	Bethany [08020]	SEC 11-14 BETHANY TWP	43-26-13 = 43.436944	084-30-53 = - 84.514722
29200034000B010	Highway agency district 4	Owner County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]	
Route 0	JEFFERSON ROAD	Toll On free road [3]	Features intersected	BUSH CREEK DRAIN	
Design - main Concrete [1]	Design - approach	Kilometerpoint 268.6 km = 166.5 mi	Year built 1925	Year reconstructed N/A [0000]	
1 Slab [01]	0 Other [00]	Skew angle 0	Structure Flared		
		Historical significance	Bridge is not eligible for the NRHP. [5]		
Total length 11.2 m = 36.7 ft	Length of maximum span 9.7 m = 31.8 ft	Deck width, out-to-out 6.2 m = 20.3 ft	Bridge roadway width, curb-to-curb	4.9 m = 16.1 ft	
Inventory Route, Total Horizontal Clearance 5 m = 16.4 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 0.5 km = 0.3 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	24.5 metric ton = 27.0 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	32.7 metric ton = 36.0 tons
Bridge posting	10.0 - 19.9 % below [3]	Design Load	MS 18+Mod / HS 20+Mod [6]	

Functional Details

Average Daily Traffic	40	Average daily truck traffi	0	%	Year	2003	Future average daily traffic	53	Year	2023
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	7 m = 23.0 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	Work to be done by contract [1]								
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	130000	Roadway improvement cost	20000						
	Length of structure improvement	16.8 m = 55.1 ft		Total project cost	197000					
	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	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Poor [4]		
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	Better than present minimum criteria [7]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	27.2
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	May 2009 [0509]	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	