

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

Alabama [01]	Morgan County [103]	Huntsville [37000]	MORGAN-MADISON CO LINE	34-34-30.00 = 34.575000	086-34-00.00 = -86.566667
8809	Highway agency district: 2	Owner State Highway Agency [01]	Maintenance responsibility State Highway Agency [01]		
Route 231	SR 53	Toll On free road [3]	Features intersected TENNESSEE RIVER		
Design - main Steel [3]	Design - approach Steel continuous [4]	Kilometerpoint 49313.7 km = 30574.5 mi	Year built 1965	Year reconstructed N/A [0000]	
3	Truss - Thru [10]	9	Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared
				Historical significance Bridge is not eligible for the NRHP. [5]	
Total length 623.9 m = 2047.0 ft	Length of maximum span 109.7 m = 359.9 ft	Deck width, out-to-out 10.1 m = 33.1 ft	Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft		
Inventory Route, Total Horizontal Clearance 8.5 m = 27.9 ft	Curb or sidewalk width - left 0.5 m = 1.6 ft	Curb or sidewalk width - right 0.5 m = 1.6 ft			
Deck structure type Concrete Cast-in-Place [1]					
Type of wearing surface Monolithic Concrete (concurrently placed with structural deck) [1]					
Deck protection Unknown [8]					
Type of membrane/wearing surface Unknown [8]					

Weight Limits

Bypass, detour length 0.2 km = 0.1 mi	Method to determine inventory rating Load Factor(LF) [1]	Inventory rating 29.1 metric ton = 32.0 tons
	Method to determine operating rating Load Factor(LF) [1]	Operating rating 48.6 metric ton = 53.5 tons
Bridge posting Equal to or above legal loads [5]	Design Load MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	10175	Average daily truck traffi	3	%	Year	2013	Future average daily traffic	13226	Year	2033
Road classification	Principal Arterial - Other (Rural) [02]		Lanes on structure	2		Approach roadway width	12.8 m = 42.0 ft			
Type of service on bridge	Highway [1]		Direction of traffic	1 - way traffic [1]		Bridge median	Open median [1]			
Parallel structure designation	The left structure of parallel bridges. This structure carries traffic in the opposite direction. [L]									
Type of service under bridge	Waterway [5]		Lanes under structure	0		Navigation control	Navigation control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	20.1 m = 65.9 ft			Navigation horizontal clearance	106.7 m = 350.1 ft					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft				Minimum vertical clearance over bridge roadway	4.93 m = 16.2 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]								
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	14117000	Roadway improvement cost	1412000						
	Length of structure improvement	623.9 m = 2047.0 ft		Total project cost	15529000					
	Year of improvement cost estimate	2019								
	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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
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	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	None present but re-evaluation suggested [5]	Sufficiency rating	57.5
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	September 2017 [0917]	Designated inspection frequency	24 Months
Underwater inspection	Every two years [Y24]	Underwater inspection date	July 2017 [0717]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	September 2017 [0917]
Other special inspection	Not needed [N]	Other special inspection date	