

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

Tennessee [47]	Sullivan County [163]	Unknown [00000]	8 MI. NE.OF JOHNSON CO.	36-33-57.00 = 36.565833	082-02-45.60 = -82.046000
82SR0340025	Highway agency district: 1	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 421	FAP 34	Toll On free road [3]	Features intersected	SOUTH HOLSTON RIVER	
Design - main 2	Steel continuous [4]	Design - approach 4	Steel continuous [4]	Kilometerpoint 4467.6 km = 2769.9 mi	Year built 1949 Year reconstructed 2008
	Truss - Thru [10]		Stringer/Multi-beam or girder [02]	Skew angle 0	Structure Flared
				Historical significance Historical significance is not determinable at this time. [4]	
Total length	385 m = 1263.2 ft	Length of maximum span	121.9 m = 400.0 ft	Deck width, out-to-out	10.4 m = 34.1 ft
Inventory Route, Total Horizontal Clearance	7.3 m = 24.0 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Closed Grating [4]				
Type of wearing surface	Bituminous [6]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 8.4 km = 5.2 mi	Method to determine inventory rating	Allowable Stress(AS) [2]	Inventory rating	30.6 metric ton = 33.7 tons
	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	54 metric ton = 59.4 tons
Bridge posting	Equal to or above legal loads [5]		Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	1670	Average daily truck traffi	8	%	Year	2017	Future average daily traffic	2672	Year	2039
Road classification	Minor Arterial (Rural) [06]		Lanes on structure	2		Approach roadway width	7.3 m = 24.0 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	4.97 m = 16.3 ft						
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A				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	14045000	Roadway improvement cost	1405000						
	Length of structure improvement	385 m = 1263.2 ft		Total project cost	21068000					
	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	Better than present minimum criteria [7]
Condition ratings - superstructure	Good [7]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Good [7]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
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 adequacy	Better than present minimum criteria [7]	Status evaluation	
Pier or abutment protection		Sufficiency rating	68.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inspected feature meets currently acceptable standards. [1]		
Inspection date	March 2017 [0317]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2015 [1015]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	March 2017 [0317]
Other special inspection	Not needed [N]	Other special inspection date	