HistoricBridges.org - National Bridge Inventory Data Sheet

2019 Inventory

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

New York [36]	Seneca County [099]	Tyre [75902]	JCT SH 31 & CAY & SEN CNL	43-01-02.87 = 43.017464	076-42-43.23 = -76.712008

4021800	Highway agency district: 35	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 31		RTE 31	Toll: On free road [3]	Features intersected: ERIE CANAL/SENECA RIVER	
Design - main: Steel [3]		Design - approach: Steel [3]		Kilometerpoint: 0 km = 0.0 mi	
1	Truss - Thru [10]	4	Stringer/Multi-beam or girder [02]	Year built: 1949	Year reconstructed: 1968
				Skew angle: 0	Structure Flared: Yes, flared [1]
				Historical significance: Historical significance is not determinable at this time. [4]	

Total length: 153 m = 502.0 ft	Length of maximum span: 76.2 m = 250.0 ft	Deck width, out-to-out: 10.9 m = 35.8 ft	Bridge roadway width, curb-to-curb: 9.4 m = 30.8 ft				
Inventory Route, Total Horizontal Clearance: 9.4 m = 30.8 ft	Curb or sidewalk width - left: 0.3 m = 1.0 ft	Curb or sidewalk width - right: 0.3 m = 1.0 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: 1.7 km = 1.1 mi	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 32.7 metric ton = 36.0 tons		
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 55.3 metric ton = 60.8 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: M 18 / H 20 [4]		

Functional Details

Average Daily Traffic	1893	Average daily truck traffi	12 %	Year	2016	Future average daily traffic	1911	Year	2038

Road classification	Minor Arterial (Rural) [06]	Lanes on structure	2	Approach roadway width	10.4 m = 34.1 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 control on waterway (bridge permit required). [1]
Navigation vertical clearanc	6 m = 19.7 ft	Navigation horizontal clearance	45.7 m = 149.9 ft		
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.54 m = 14.9 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

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	10397000	Roadway improvement cost	6089000
Length of structure improvement	153 m = 502.0 ft	Total project cost	16486000
Year of improvement cost estimate	2018		
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	Fair [5]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]		
Appraisal ratings - water adequacy	Superior to present desirable criteria [9]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	72.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]		
Inspection date	October 2018 [1018]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	July 2015 [0715]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2018 [1018]
Other special inspection	Not needed [N]	Other special inspection date	

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2010 Inventory

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Basic Information

New York [36]	Seneca County [099]	Tyre [75902]	JCT SH 31 & CAY & SEN CNL	43-01-03 = 43.017500	076-42-43 = -76.711944

4021800	Highway agency district: 35	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 31		RTE 31	Toll: On free road [3]	Features intersected: CAY & SEN CANAL	

Design - main: Steel [3]		Design - approach: Steel [3]		Kilometerpoint: 275.6 km = 170.9 mi	
1	Truss - Thru [10]	4	Stringer/Multi-beam or girder [02]	Year built: 1949	Year reconstructed: 1968
				Skew angle: 0	Structure Flared: Yes, flared [1]
				Historical significance: Historical significance is not determinable at this time. [4]	

Total length: 153 m = 502.0 ft	Length of maximum span: 76.2 m = 250.0 ft	Deck width, out-to-out: 11.2 m = 36.7 ft	Bridge roadway width, curb-to-curb: 9.6 m = 31.5 ft				
Inventory Route, Total Horizontal Clearance: 9.6 m = 31.5 ft	Curb or sidewalk width - left: 0.2 m = 0.7 ft	Curb or sidewalk width - right: 0.2 m = 0.7 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: 1.7 km = 1.1 mi	Method to determine inventory rating: Allowable Stress(AS) [2]		Inventory rating: 36.3 metric ton = 39.9 tons		
	Method to determine operating rating: Allowable Stress(AS) [2]		Operating rating: 55.3 metric ton = 60.8 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: M 18 / H 20 [4]		

Functional Details

Average Daily Traffic	2752	Average daily truck traffi	10 %	Year	2008	Future average daily traffic	3045
Year	2028						
Road classification	Minor Arterial (Rural) [06]	Lanes on structure	2	Approach roadway width	10.3 m = 33.8 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 control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	6 m = 19.7 ft	Navigation horizontal clearance	45.7 m = 149.9 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.54 m = 14.9 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

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	4249000	Roadway improvement cost	2473000
Length of structure improvement	153 m = 502.0 ft	Total project cost	6722000
Year of improvement cost estimate	2009		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	Posted for other load-capacity restriction [R]	Appraisal ratings - structural	Equal to present minimum criteria [6]
Condition ratings - superstructur	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]

Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	79.4

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	October 2008 [1008]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2009 [1009]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2008 [1008]
Other special inspection	Not needed [N]	Other special inspection date	