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

Texas [48]	Dallas County [113]	Dallas [19000]	1.8 Mi W of IH 45	32-46-11.25 = 32.769792	096-48-32.16 = -96.808933

180570000911079 | Highway agency district: 18 | Owner: City or Municipal Highway Agency [04] | Maintenance responsibility: City or Municipal Highway Agency [04]

Route: 178 | Houston St. | Toll: On free road [3] | Features intersected: IH 30 & Trinity River

Design - main	Steel [3]	Design - approach	Concrete [1]
1	Stringer/Multi-beam or girder [02]	68	Arch - Deck [11]

Kilometerpoint: 160.9 km = 99.8 mi

Year built: 1911 | Year reconstructed: N/A [0000]

Skew angle: 99 | Structure Flared:

Historical significance: Bridge is on the NRHP. [1]

Total length: 1455.1 m = 4774.2 ft | Length of maximum span: 31.4 m = 103.0 ft | Deck width, out-to-out: 16 m = 52.5 ft | Bridge roadway width, curb-to-curb: 7.7 m = 25.3 ft

Inventory Route, Total Horizontal Clearance: 10.1 m = 33.1 ft | Curb or sidewalk width - left: 1.2 m = 3.9 ft | Curb or sidewalk width - right: 2.9 m = 9.5 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Bituminous [6]

Deck protection: Unknown [8]

Type of membrane/wearing surface: Unknown [8]

Weight Limits

Bypass, detour length: 0 km = 0.0 mi

Method to determine inventory rating: No rating analysis or evaluation perfor | Inventory rating: 24.5 metric ton = 27.0 tons

Method to determine operating rating: No rating analysis or evaluation perfor | Operating rating: 32.7 metric ton = 36.0 tons

Bridge posting: Equal to or above legal loads [5] | Design Load:

Functional Details

Average Daily Traffic	3050	Average daily truck traffi	19 %	Year	2016	Future average daily traffic	4270
Year	2036						

Road classification	Collector (Urban) [17]	Lanes on structure	2	Approach roadway width	14.3 m = 46.9 ft
Type of service on bridge	Highway-railroad [4]	Direction of traffic	1 - way traffic [1]	Bridge median	
Parallel structure designation	The right structure of parallel bridges carrying the roadway in the direction of the inventory. [R]				
Type of service under bridge	Highway-waterway-railroad [8	Lanes under structure	38	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	Highway beneath structure [H]				
Minimum lateral underclearance on right	2.3 m = 7.5 ft	Minimum lateral underclearance on left	3 m = 9.8 ft		
Minimum Vertical Underclearance	5.16 m = 16.9 ft	Minimum vertical underclearance reference feature	Railroad beneath structure [R]		
Appraisal ratings - underclearances	Basically intolerable requiring high priority of replacement [2]				

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	6699000	Roadway improvement cost	1675000
Length of structure improvement	1458.5 m = 4785.3 ft	Total project cost	8374000
Year of improvement cost estimate			
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	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		

Scour	Bridge is scour critical; bridge foundations determined to be unstable. [3]
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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	52.8

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	August 2018 [0818]	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	