HistoricBridges.org - National Bridge Inventory Data Sheet

2009 Inventory

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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

Michigan [26]	Wayne County [163]	Detroit [22000]	FORT ST	42-17-04 = 42.284444	083-08-53 = -83.148056

82182073000R010	Highway agency district: 7	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 85		M-85 (FORT ST)	Toll: On free road [3]	Features intersected: NORFOLK WESTERN RR	

Design - main: Steel [3]		Design - approach		Kilometerpoint: 82.7 km = 51.3 mi	
7	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built: 1928	Year reconstructed: N/A [0000]
				Skew angle: 9	Structure Flared:
				Historical significance: Bridge is possibly eligible for the NRHP. [3]	

Total length: 94 m = 308.4 ft	Length of maximum span: 15.8 m = 51.8 ft	Deck width, out-to-out: 31.7 m = 104.0 ft	Bridge roadway width, curb-to-curb: 24.3 m = 79.7 ft
Inventory Route, Total Horizontal Clearance: 24.3 m = 79.7 ft	Curb or sidewalk width - left: 3.1 m = 10.2 ft	Curb or sidewalk width - right: 3.1 m = 10.2 ft	
Deck structure type: Concrete Cast-in-Place [1]			
Type of wearing surface: Bituminous [6]			
Deck protection:			
Type of membrane/wearing surface: Preformed Fabric [2]			

Weight Limits

Bypass, detour length: 0.3 km = 0.2 mi	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 38 metric ton = 41.8 tons		
	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 63.5 metric ton = 69.9 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: MS 18+Mod / HS 20+Mod [6]		

Functional Details

Average Daily Traffic	5981	Average daily truck traffi	12 %	Year	2007	Future average daily traffic	9150	Year	2018

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	6	Approach roadway width	24.3 m = 79.7 ft
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Railroad [2]	Lanes under structure	0	Navigation control	Not applicable, no waterway. [N]
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	Railroad beneath structure [R]				
Minimum lateral underclearance on right	1 m = 3.3 ft	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Railroad beneath structure [R]		
Appraisal ratings - underclearances	N/A [N]				

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	7000	Roadway improvement cost	0
Length of structure improvement	93.4 m = 306.4 ft	Total project cost	11000
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	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Serious [3]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Critical [2]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	48
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	February 2009 [0209]	Designated inspection frequency	9	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		

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Basic Information

Michigan [26]	Wayne County [163]	Detroit [22000]	FORT ST	42-17-00 = 42.283333	083-08-57 = -83.149167

82182073000S010	Highway agency district	7	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]

Route	85	M-85 (FORT ST)	Toll	On free road [3]	Features intersected	PLEASANT ST

Design - main	Steel [3]	Design - approach		Kilometerpoint	67.4 km = 41.8 mi
3	Stringer/Multi-beam or girder [02]	0	Other [00]	Year built	1928
				Year reconstructed	N/A [0000]
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is on the NRHP. [1]

Total length	22.3 m = 73.2 ft	Length of maximum span	14.3 m = 46.9 ft	Deck width, out-to-out	31.7 m = 104.0 ft	Bridge roadway width, curb-to-curb	24.3 m = 79.7 ft

Inventory Route, Total Horizontal Clearance	24.3 m = 79.7 ft	Curb or sidewalk width - left	3.1 m = 10.2 ft	Curb or sidewalk width - right	3.1 m = 10.2 ft

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Bituminous [6]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	38 metric ton = 41.8 tons
0.2 km = 0.1 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	63.5 metric ton = 69.9 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18+Mod / HS 20+Mod [6]

Functional Details

Average Daily Traffic	5981	Average daily truck traffi	12 %	Year	2007	Future average daily traffic	9150	Year	2018

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	6	Approach roadway width	24.3 m = 79.7 ft
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Highway, with or without ped	Lanes under structure	2	Navigation control	Not applicable, no waterway. [N]
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	1 m = 3.3 ft	Minimum lateral underclearance on left	0 = N/A		
Minimum Vertical Underclearance	4.87 m = 16.0 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]		
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]				

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	2000	Roadway improvement cost	0
Length of structure improvement	22.3 m = 73.2 ft	Total project cost	3000
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 corrrective action [3]
Condition ratings - superstructur	Serious [3]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Serious [3]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	45.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		

Traffic safety features - railings	
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

Inspection date	February 2009 [0209]	Designated inspection frequency	9	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		

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Basic Information

Michigan [26]	Wayne County [163]	Detroit [22000]	IN DETROIT	42-17-07 = 42.285278	083-08-51 = -83.147500

82182073000S020	Highway agency district: 7	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 85		M-85 (FORT ST)	Toll: On free road [3]	Features intersected: SANDERS ST	

Design - main: 3	Steel [3] / Stringer/Multi-beam or girder [02]	Design - approach: 0	Other [00]	Kilometerpoint: 93.3 km = 57.8 mi	
				Year built: 1928	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is possibly eligible for the NRHP. [3]	

Total length: 22.3 m = 73.2 ft	Length of maximum span: 14.3 m = 46.9 ft	Deck width, out-to-out: 31.7 m = 104.0 ft	Bridge roadway width, curb-to-curb: 24.3 m = 79.7 ft				
Inventory Route, Total Horizontal Clearance: 24.3 m = 79.7 ft	Curb or sidewalk width - left: 3.1 m = 10.2 ft	Curb or sidewalk width - right: 3.1 m = 10.2 ft					
Deck structure type: Concrete Cast-in-Place [1]							
Type of wearing surface: Bituminous [6]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length: 0.2 km = 0.1 mi	Method to determine inventory rating: Load Factor(LF) [1]	Inventory rating: 38 metric ton = 41.8 tons			
	Method to determine operating rating: Load Factor(LF) [1]	Operating rating: 63.5 metric ton = 69.9 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: MS 18+Mod / HS 20+Mod [6]			

Functional Details

Average Daily Traffic	5981	Average daily truck traffi	12 %	Year	2007	Future average daily traffic	9150
Year	2018						
Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	6	Approach roadway width	24.3 m = 79.7 ft		
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Highway, with or without ped	Lanes under structure	2	Navigation control	Not applicable, no waterway. [N]		
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	1.1 m = 3.6 ft	Minimum lateral underclearance on left	1.1 m = 3.6 ft				
Minimum Vertical Underclearance	4.11 m = 13.5 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]						

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	2000	Roadway improvement cost	0
Length of structure improvement	22.3 m = 73.2 ft	Total project cost	3000
Year of improvement cost estimate			
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

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Condition ratings - deck	Serious [3]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	45.5
Culverts	Not applicable. Used if structure is not a culvert. [N]		

Traffic safety features - railings	
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail	Not applicable or a safety feature is not required. [N]
Traffic safety features - approach guardrail ends	Not applicable or a safety feature is not required. [N]

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Underwater inspection	Not needed [N]	Underwater inspection date		
Fracture critical inspection	Not needed [N]	Fracture critical inspection date		
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