

The National Bridge Inventory contains data submitted by state transportation 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

California [06]	Alameda County [001]	Oakland [53000]	04-ALA-080-1.15-OAK	37-48-54 = 37.815000	122-21-24 = - 122.356667
33 0025	Highway agency district 4	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 80	INTERSTATE 80	Toll Toll bridge [1]	Features intersected	SAN FRANCISCO BAY	
Design - main 3	Steel continuous [4]	Design - approach 0	Other [00]	Kilometerpoint 115 km = 71.3 mi	Year built 1936
				Year reconstructed 1962	Skew angle 0
				Structure Flared	Historical significance Bridge is on the NRHP. [1]
Total length 7162 m = 23498.5 ft	Length of maximum span 426.7 m = 1400.0 ft	Deck width, out-to-out 19.3 m = 63.3 ft	Bridge roadway width, curb-to-curb 17.7 m = 58.1 ft		
Inventory Route, Total Horizontal Clearance 17.7 m = 58.1 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	Epoxy Overlay [5]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 5.6 km = 3.5 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	28.1 metric ton = 30.9 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	47.1 metric ton = 51.8 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	277700	Average daily truck traffi	10	%	Year	1997	Future average daily traffic	334528	Year	2029
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	5		Approach roadway width	18.3 m = 60.0 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	56.4 m = 185.0 ft			Navigation horizontal clearance	405.1 m = 1329.1 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	4.88 m = 16.0 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.3 m = 1.0 ft				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	3 m = 9.8 ft		Minimum vertical underclearance reference feature	Highway beneath structure [H]						
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]			
Other structural work, including hydraulic replacements. [38]	Bridge improvement cost	124686000	Roadway improvement cost	24937000		
	Length of structure improvement	7162 m = 23498.5 ft	Total project cost	209472000		
	Year of improvement cost estimate	2010				
	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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
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 being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Better than present minimum criteria [7]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	57
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 2010 [0310]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	August 2009 [0809]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	September 2009 [0909]
Other special inspection	Not needed [N]	Other special inspection date	

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Basic Information

California [06]	San Francisco County [075]	San Francisco [67000]	04-SF-080-6.35-SF	37-47-53 = 37.798056	122-22-40 = - 122.377778
34 0003	Highway agency district 4	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 80	INTERSTATE 80	Toll Toll bridge [1]	Features intersected SAN FRANCISCO BAY, 3 STS		
Design - main Steel [3]	Design - approach Steel [3]	Kilometerpoint 635 km = 393.7 mi	Year built 1936	Year reconstructed 1962	
6 Suspension [13]	3 Truss - Deck [09]	Skew angle 0	Structure Flared		
		Historical significance	Bridge is on the NRHP. [1]		
Total length 6281.3 m = 20608.9 ft	Length of maximum span 704.1 m = 2310.2 ft	Deck width, out-to-out 19.1 m = 62.7 ft	Bridge roadway width, curb-to-curb 17.7 m = 58.1 ft		
Inventory Route, Total Horizontal Clearance 17.7 m = 58.1 ft	Curb or sidewalk width - left 0.4 m = 1.3 ft	Curb or sidewalk width - right 0.4 m = 1.3 ft			
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Epoxy Overlay [5]				
Deck protection					
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length 5.6 km = 3.5 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	30.8 metric ton = 33.9 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	51.7 metric ton = 56.9 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]	

Functional Details

Average Daily Traffic	204900	Average daily truck traffi	5	%	Year	1998	Future average daily traffic	335134	Year	2029
Road classification	Principal Arterial - Interstate (Urban) [11]		Lanes on structure	5	Approach roadway width	17.7 m = 58.1 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	Highway-waterway-railroad [Lanes under structure	24	Navigation control	Navigation control on waterway (bridge permit required). [1]				
Navigation vertical clearanc	56.4 m = 185.0 ft			Navigation horizontal clearance	673.6 m = 2210.1 ft					
Minimum navigation vertical clearance, vertical lift bridge				Minimum vertical clearance over bridge roadway	4.88 m = 16.0 ft					
Minimum lateral underclearance reference feature	Highway beneath structure [H]									
Minimum lateral underclearance on right	0.2 m = 0.7 ft				Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	7.62 m = 25.0 ft			Minimum vertical underclearance reference feature	Highway beneath structure [H]					
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrective action [3]									

Repair and Replacement Plans

Type of work to be performed	Work done by									Work to be done by contract [1]
Other structural work, including hydraulic replacements. [38]	Bridge improvement cost	120612000	Roadway improvement cost	24122000						
	Length of structure improvement	6281.3 m = 20608.9 ft			Total project cost	202628000				
	Year of improvement cost estimate	2010								
	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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]		
Appraisal ratings - water adequacy	Better than present minimum criteria [7]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	56.3
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	January 2010 [0110]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	May 2008 [0508]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2010 [1110]
Other special inspection	Not needed [N]	Other special inspection date	