## HistoricBridges.org - National Bridge Inventory Data Sheet

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 Informati	on								47-40-18.34 =	117-23-18.17
Washington [53]	Spo	okane County	[063]	Spokar	ne [67000]	1.13 E OF SF	2395		47.671761	= -117.388381
85123000000000		Highway agency district 6			Owner City or Municipal Highway Agency [04]			nance responsibility	City or Municipal H	ighway Agency [04]
Route 803		MISSION AVENUE			Toll On free road [3] Features			ntersected SPOKANE	RIVER	
main	ete [1] Deck [11]	l	Design - approach	Other [00]		Kilometerpoin Year built 1 Skew angle Historical sign	909 Y O Struc		[0000] the NRHP. [5]	
Total length 106.1 m = 348.1 ft Length of maximum span 25.6 m = 84.0 ft Deck width, out-to-out 17.7 m = 58.1 ft Bridge roadway width, curb-to-curb 12.2 m = 40.0 ft										
Inventory Route,	Total Hor	izontal Cleara	nce $12.2 \text{ m} = 40$	.0 ft	Curb or sidewalk wi	idth - left 2.	1 m = 6.9 ft	Curb or side	ewalk width - right	2.1 m = 6.9 ft
Deck structure ty	pe		Not applicable [I	N]						
Type of wearing	surface		Bituminous [6]							
Deck protection										
Type of membra	ne/wearing	g surface								
Weight Limits										
Bypass, detour	ength	Method to det	ermine inventory r	ating N	o rating analysis or	evaluation per	for Inventory rat	ing 32.4 metric ton	= 35.6 tons	
0.6  km = 0.4  mi		Method to det	ermine operating r	ating N	o rating analysis or	evaluation per	for Operating ra	ting 43.2 metric ton	= 47.5 tons	
		Bridge posting	Equal to or ab	ove legal load	s [5]		Design Load	MS 18+Mod / HS 20	)+Mod [6]	

Functional Details									
Average Daily Traffic 20500 Average daily tr	uck traffi 2 % Year 2010 Future average daily traffic 26400 Year 2032								
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 4 Approach roadway width 12.2 m = 40.0 ft								
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 - way traffic [2] Bridge median Closed median (no barriers) [2]								
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 brid	Minimum vertical clearance over bridge roadway 99.99 m = 328.1 ft								
Minimum lateral underclearance reference feature Fe	eature 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]									
Danain and Dankasanant Dlana									
Repair and Replacement Plans									
Type of work to be performed	Work done by Work to be done by contract [1]								
Replacement of bridge or other structure because of substandard load carrying capacity or substantial	Bridge improvement cost 409000 Roadway improvement cost 41000								
bridge roadway geometry. [31]	Length of structure improvement 324.6 m = 1065.0 ft Total project cost 614000								
	Year of improvement cost estimate 2013								
	Border bridge - state  Border bridge - percent responsibility of other state								
	Border bridge - structure number								

		Somewhat better than minimum adequacy to tolerate being left in place as is [5]						
[5]	Appraisal ratings - roadway alignment	Equal to pre						
[5]	Appraisal ratings -	Basically into						
d [7]	deck geometry							
Bridge foundations determined to be stable for assessed or calculated scour condition. [5]								
		evices such as	spur dikes and emb	pankment protection are not				
Equal to present desirable criter	ria [8]	S	Status evaluation	Functionally obsolete [2]				
		S	Sufficiency rating	59.1				
Culverts Not applicable. Used if structure is not a culvert. [N]								
Inpected feature	e meets currently acce	ptable standard	ds. [1]					
Traffic safety features - approach guardrail ends  Inspection date September 2011 [0911] Designated inspection frequency 24 Months								
				2001				
			August 2007 [00	00/]				
		•						
	[5] [5] [6] [7]  Bridge foundations determined to the state of the sta	Appraisal ratings - roadway alignment  [5] Appraisal ratings - deck geometry  Bridge foundations determined to be stable for assessed and [7]  Banks are protected or well vegetated. River control derequired or are in a stable condition. [8]  Equal to present desirable criteria [8]  Currently acceptated inspection frequency [7]  Inpected feature meets currently acceptated inspection frequency [7]  Open [7]  Designated inspection frequency [7]  Underwater inspection frequency [7]  Practure critical inspection frequency [7]	structural is [5]  Appraisal ratings - roadway alignment deck geometry  Appraisal ratings - deck geometry  Bridge foundations determined to be stable for assessed or calculated are required or are in a stable condition. [8]  Equal to present desirable criteria [8]  Equal to present desirable criteria [8]  Inpected feature meets currently acceptable standard and are required or are in a stable condition. [8]  Inpected feature meets currently acceptable standard and are required or are in a stable condition. [8]  Inpected feature meets currently acceptable standard and are required or are in a stable condition. [8]  Inpected feature meets currently acceptable standard and are required or are in a stable condition. [8]  Inpected feature meets currently acceptable standard and are required or are in a stable condition. [8]	structural  Appraisal ratings - roadway alignment  [5]  Appraisal ratings - deck geometry  Bridge foundations determined to be stable for assessed or calculated scour condition. [5]  Banks are protected or well vegetated. River control devices such as spur dikes and embrequired or are in a stable condition. [8]  Equal to present desirable criteria [8]  Status evaluation  Sufficiency rating  Inpected feature meets currently acceptable standards. [1]  Indicated a culvert. [N]  Indicated feature meets currently acceptable standards. [1]  Indicated feature meets currently acceptable standards. [1]	structural			

## **BRIDGE INSPECTION REPORT**

Ver Date: 11/26/2013 Agency: SPOKANE

Status: Released Printed On: 09/30/20 Program Mgr: Roman G. Peralta

Bridge No. 420000803 Page: 1/3 Structure Type

Bridge NameMISSION AVE OC SPOKANE RRoute00803Location1.13 E OF SR395Structure ID08512300MilePost0.00IntersectingSPOKANE RIVER

Inspector's Signature JEM IDent# G0608 Co-Inspector's Signature **Inspections Performed** Pier/Abut/Protect 5 Structural Adqcy (657)Ν (679)1909 Year Built (332)IT NT HRS **Date** Rep Type 2 **Deck Geometry** (658)5 Scour (680)0 Year Rebuilt (336)Υ 24 5.0 09/17/2013 Routine 9 Underclearance (659)6 Retaining Walls (682)48 Oper Rating (551)Fract Crit 5 Operating Level (660)9 Pier Protection (683)36 Inv Rating (554)D 1.0 08/13/2013 Underwater Alignment Adqcy (661)1 Bridge Rails Α Open Close (293)6 (684)Special 8 WaterwayAdqcy (662)0 Transition (685) 9999 Vert Over Deck (360)Interim 7 Deck Overall 0 Guardrails (686) 0000 Vert Under (663)(374)Equipment 9 **Drains Condition** (664)0 Terminals (687)Ν Vert Und Code (378)Damage 5 Superstructure (671)Ν Revise Rating (688)0.00 Asphalt Depth Safety 2 Number Utilities Speed Limit (675)Photos Flag (691)Short Span 5 Substructure (693)Total: 0.0 (676)Soundings Flag Chan/Protection (694)8 (677)Measure Clearance 9 Culvert (678)Suff Rating: 58.93 FO 58.93 FO

BMS Elements											
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4				
12	Concrete Deck	13920	SF	-10	13920	10	0				
116	Concrete Stringer	1392	LF	696	696	0	0				
145	Earth Filled Concrete Arch	314	LF	0	300	14	0				
212	Concrete Submerged Pier Wall	160	LF	0	120	40	0				
215	Concrete Abutment	66	LF	50	16	0	0				
220	Concrete Submerged Pile Cap/Footing	6	EA	6	0	0	0				
266	Concrete Sidewalk & Supports	903	SF	403	450	50	0				
331	Concrete Bridge Railing	696	LF	678	10	8	0				
340	Metal Pedestrian Railing	696	LF	646	30	20	0				
361	Scour	6	EA	6	0	0	0				
800	Asphaltic Concrete (AC) Overlay	13920	SF	13820	100	0	0				
	Notes										

## **BRIDGE INSPECTION REPORT**

Ver Date: 11/26/2013 Agency: SPOKANE

Status: Released Printed On: 09/30/20 Program Mgr: Roman G. Peralta

Bridge No. 420000803 Page: 2/3 Structure Type

Bridge NameMISSION AVE OC SPOKANE RRoute00803Location1.13 E OF SR395Structure ID08512300MilePost0.00IntersectingSPOKANE RIVER

0	The bridge is oriented from the west to the east. The temperature at the time of the inspection was 68 degrees. The water main on the bridge was replaced in the summer of 2011 along with the asphalt surfacing on the bridge.
9	The WSDOT Bridge Preservation dive team performed an underwater inspection of the Mission Avenue over Spokane River Bridge on August 13,2013. Piers 2 through 5 were in the waterway and were included in inspection. All in water piers are concrete pier walls founded on pile supported concrete footings and seals. In general ,the submerged substructure components were found in fair condition. Cocrete abrasion of up to 1/8" is typical at both piers between the high and low waterlines . Submerged concrete pier walls have typicallenses of poor consoildation near cold joints, as well as cracks and minor spalls that show the structures age but are not structurally significant. The vertical exposure is covered by horizontal timber form work that was left in place from original construction. Pier 4 has the greatest vertical exposure with up to 10 ft. on the southwest corner in localized scour hole. In this same location the previous underwater inspection found undermining with penetration. The undermining at the time was approximately 2 ft above the plan bottom of the footing:it has since filled in. Channel bottom elevation observed at this inspection were very similar to the previous underwater inspection. The waterway is well contained laterally and the banks in the vicinity of the bridge appear stable . Consideration should be given to placing riprap around Pier 4. Recommend retaining 60-month underwater inspection frequency. The full inspection report will be attach in flies tab
12	The concrete deck soffit exspose both sides have small areas of cracking, with some efflorescence. The top of bridge deck has a asphalt wearing overlay.
116	There are horizontal cracks in stringer lines B and C, with heavy efflorescence and rust staining near the abutments, especially on the east end.
145	The arch soffits have rock pockets, some of which have been repaired with gunite. There are drain pipes located at the juncture of the arches above the piers. All of the pipes are open and functioning. There is a line of wood blocks embedded in the concrete on the face of Arch 1.
212	The pier walls have steel angles embedded in the upstream ends for protection. The piers are in good shape overall. There is a large crack in the nosing of Pier 5, but it is still intact.
215	
220	
266	The sidewalk soffit has leaching cracks and diffuse efflorescence. The sidewalk brackets have leaching cracks and some spalling at the expansion joints, especially over Arches 4 and 5. Some of the joints have moss growing in them and water seeping out and staining the pier below.
331	
340	The large concrete railing posts are spalling where the metal railing is attached, and at the bottom corners.
361	The soundings were taken on 8/14/2013 in addion to those taken by the dive team. See the attached dive report.
800	The asphalt overlay was replaced in the summer of 2011 and with this the bridge has showed a noticeable decrease in the amount of water coming out of the expansion joints and pier drain pipes.
	Repairs
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## **BRIDGE INSPECTION REPORT**

Ver Date: 11/26/2013

Agency: SPOKANE

Status: Released Printed On: 09/30/20 Program Mgr: Roman G. Peralta

Bridge No. 420000803 Page: 3/3 Structure Type

Bridge NameMISSION AVE OC SPOKANE RRoute00803Location1.13 E OF SR395Structure ID08512300MilePost0.00IntersectingSPOKANE RIVER

Repair No	Pr	R	Repair Description	Noted	Maint	Verified

	Inspections Performed and Resources Required									
ľ	Report Type	Date	IT			Insp		tNo	Coinsp	•
	Routine	09/17/13		24	5.0	JEM		608	LAM	The soundings are done with the routine inspection but not always on the same day
	Resources	s		Use	Hour	Min	Req	Max	(	Notes
	UBIT			50					2009	charged for high cost next charge in 2015
	Underwater	08/13/13	D	60	1.0	JRH	G0	911	MBS	Underwater Inspection by WSDOT Dive Team.
	Resources	S		Use	Hour	Min	Req	Max	(	Notes
F	Informational	11/21/13				JEM	G0	608		
	Resources			Use	Hour	Min	Req	Max	1	Notes