

## Misc Structures - Northwest Region - 2009-11 Biennium

(Sorted by 2009-11#)

Structure Number:	Structure Name:	Repair Description:	Region:	2009-11 Priority#:	Bridge\$'s:
SB01797	SIGN BRIDGE	Replace Sign Bridge.	NW	4	\$110,000
SB00389	SIGN BRIDGE	Replace Sign Bridge with a new Cantilever Sign Structure.	NW	5	\$51,000
SB01607	SIGN BRIDGE	Replace Sign Bridge	NW	6	\$160,000
SB01373	SIGN BRIDGE	Replace Sign Bridge	NW	7	\$70,000
SB00840	SIGN BRIDGE	Replace Sign Bridge	NW	11	\$280,000
SB01049	SIGN BRIDGE	Replace Sign Bridge	NW	13	\$140,000
SB01696	SIGN BRIDGE	Replace Sign Bridge	NW	15	\$100,000
SB00690	SIGN BRIDGE	Replace Sign Bridge	NW	16	\$210,000
SB00807	CANTILEVER SIGN STRUCT	Replace Cantilever Sign Support	NW	17	\$50,000
SB01114	SIGN BRIDGE	Replace Sign Bridge	NW	18	\$175,000
SB01949	SIGN BRIDGE	Replace Sign Bridge	NW	19	\$170,000
11 Misc Structures			Sum of \$'s =		\$1,516,000

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SB01607	SIGN BRIDGE	Replace Sign Bridge	NW	6	\$160,000
SB01696	SIGN BRIDGE	Replace Sign Bridge	NW	15	\$100,000
SB01797	SIGN BRIDGE	Replace Sign Bridge.	NW	4	\$110,000
SB01949	SIGN BRIDGE	Replace Sign Bridge	NW	19	\$170,000
11 Misc Structures			Sum of \$'s =		\$1,516,000

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB00389 SB00389		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 169.99	Region: Northwest
Year Built / YR Widened: 1963		Structure Type: Sign Bridge		Struct Length: 86.5 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 5			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 11/23/2003		Structr Adequacy:				
Superstr Code: 6		Safe Load:				
Substr Code: 4		Scour:				
Project Number: 100521P		2007-09 Priority#: 14				
Repair Year: 2009		2009-11 Priority#: 5				
CPMS Ad Date: 5/4/2009		Bridge \$'s: \$51,000				
		Repair Total\$'s: \$250,000				
<h2>No Photo Available</h2>						
<b>Repair Description:</b> Replace Sign Bridge with a new Cantilever Sign Structure.						
<b>COMMENTS</b>						
Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. Superstructure is a galvanized, 86' 6" span, 20 panel double truss, 3' 4" square. Chords are tapered from 4" to 7", diagonals are 2 1/2", tower diagonals are 3-1/2". Diagonals are notched for chord gussets. Three MSC, with 1 1/4" x 4-1/2" bolts, no markings, 2" head. There is an open hole in weld 1/4" x 4 1/8" where weld was terminated on L3S-U4S. Torqued in 2003 to 1/4 turn past snug tight, 2-3/8" insert.						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB00690 SB00690		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 180.30	Region: Northwest
Year Built / YR Widened: 1964		Structure Type: Sign Bridge		Struct Length: 105.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 5			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 10/16/2004		Structr Adequacy:				
Superstr Code: 4		Safe Load:				
Substr Code: 4		Scour:				
Project Number:		2007-09 Priority#:	13			
Repair Year:		2009-11 Priority#:	17			
CPMS Ad Date:		Bridge \$'s:	\$210,000			
		Repair Total\$'s:	\$740,000			
				<h2>No Photo Available</h2>		
<b>Repair Description:</b> Replace Sign Bridge						
<b>COMMENTS</b>						
Program Replacement due to broken down galvanizing, rust holes in members, rusty anchor bolts. 17 panel, 105' span, galvanized double truss, 6'h x 6'w. 5-1/2" chords, 2-1/2" diagonals, 3-1/2" post diagonals. A325 MSC bolts are 3/4" x 3-3/4" with 1-1/4" head. Three MSC. Rust located near the lower north chord of the following members: U13N-L14N @ L14N, U11N-L12N @ L12N, U7N-L8N @ L8N. Four 1" x 33.18" anchor bolts per base. Standoff at east tower is 1-1/4". Standoff at west tower is 1-1/2". Threads are dinged up and filled with grout. Slight areas of rust on bolts below the baseplates. Cleaned and applied rust inhibitor. East tower is on 3' x 9' concrete foundation that is flush with the ground. West tower is on concrete pedestal that is 3' x 9' x 42" high. No UT indications.						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB00807 SB00807		Structure Name: CANTILEVER SIGN STRUCT		State Route: 90	Milepost: 9.57	Region: Northwest
Year Built / YR Widened:	Structure Type: Cantilever		Struct Length: 18.7 ft	Structure Width (c-c): ft		Sufficiency Rating:
Average Daily Traffic:	Detour (miles)	Num of Lanes: 1		<b>No Photo Available</b>		
Sign Struct Type:						
Sign Struct Design: Cantilever Sign Struct						
Date Inspected: 8/23/2000	Structr Adequacy:					
Superstr Code: 6	Safe Load:					
Substr Code: 6	Scour:					
Project Number:	2007-09 Priority#:	16		<b>No Photo Available</b>		
Repair Year:	2009-11 Priority#:	18				
CPMS Ad Date:	Bridge \$'s:	\$50,000				
	Repair Total\$'s:	\$200,000				
<b>No Photo Available</b>				<b>No Photo Available</b>		
<b>Repair Description:</b>						
Replace Cantilever Sign Support						
<b>COMMENTS</b>						
Mounted on top of bridge 90/43WCD on the left shoulder of exit to Bellevue Way. Sign reads "Bellevue Way/ Exit Only". No inspection notes in database.						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB00840 SB00840		Structure Name: SIGN BRIDGE		State Route: 526	Milepost: 1.63	Region: Northwest
Year Built / YR Widened: 1968		Structure Type: Sign Bridge		Struct Length: 140.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 8			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 7/8/2000		Structr Adequacy:				
Superstr Code: 4		Safe Load:				
Substr Code: 6		Scour:				
Project Number:		2007-09 Priority#:	6			
Repair Year:		2009-11 Priority#:	12			
CPMS Ad Date:		Bridge \$'s:	\$280,000			
		Repair Total\$'s:	\$850,000			
<b>Repair Description:</b>						
Replace Sign Bridge						
<b>COMMENTS</b>						
<p>7' x 7' x 7' truss made up of 6 5/8" dia top/bottom chords; 2 7/8" dia vertical/lateral diagonals. Member L19W connection has torn at weld ( 5 7/8" of the 18 3/8" long welded plate; crack is not all the way through-see photo). 7/8" dia x 4 1/2" long splice bolts all tight. Several rust holes in members L5W-U6W; U6W-L7W; L7W-U8W. Rust holes in lower west chord between L4w and L7W.</p> <p>10 1/2" dia posts on 22" x 22' x 1 1/2" thick baseplates. Post to baseplate welds look good. The posts at both towers are in fair shape. Baseplate holes at north tower have been torch cut due to the misalignment of the pre-drilled holes and the anchor bolts. Finial caps welded to posts with South tower missing top plug in SE &amp; SW posts. 7/8" dia x 2 1/2" long ECC bolts all tight.</p>						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01049 SB01049		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 253.02	Region: Northwest
Year Built / YR Widened: 1969		Structure Type: Sign Bridge		Struct Length: 69.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 3			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 5/18/2001		Structr Adequacy:				
Superstr Code: 6		Safe Load:				
Substr Code: 6		Scour:				
Project Number:		2007-09 Priority#:	9			
Repair Year:		2009-11 Priority#:	14			
CPMS Ad Date:		Bridge \$'s:	\$140,000			
		Repair Total\$'s:	\$500,000			
<h2>No Photo Available</h2>						
<b>Repair Description:</b> Replace Sign Bridge						
<b>COMMENTS</b>						
13 panel 5' x 5' x 5'-1 1/2" DT made up of 5" dia top/bottom chords; 3" horizontal and 2 1/2" vertical diagonals; 2 " dia strut @ Jt. 6. The aluminum surfacing is in good condition. Secondary member welds to chords look good except for what is noted below. Member U3N-L4N @ L4N has approximately 80% of weld broken from tear in pipe. NO CHANGE NOTED 5/18/01 Member L12N-U13N has drilled holes through from an old electric box that has since been removed. Four 1" diam x 33.5" long anchor bolts. The bolts at the east tower are rusty with some loss of threads below the leveling nuts. They were cleaned and coated with rust inhibitor today. There is insufficient nut engagement on the bolts at the NE base. The west tower anchor bolts						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01114 SB01114		Structure Name: SIGN BRIDGE		State Route: 518	Milepost: 1.28	Region: Northwest
Year Built / YR Widened: 1969		Structure Type: Sign Bridge		Struct Length: 87.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 3			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 12/5/2006		Structr Adequacy:				
Superstr Code: 6		Safe Load:				
Substr Code: 4		Scour:				
Project Number:		2007-09 Priority#: 18				
Repair Year:		2009-11 Priority#: 19				
CPMS Ad Date:		Bridge \$'s: \$175,000				
		Repair Total\$'s: \$620,000				
<b>Repair Description:</b>						
Replace Sign Bridge						
<b>COMMENTS</b>						
<p>There are four 1" x 33" anchor bolts per tower post. The southeast and southwest anchor bolts of the northeast tower post have strong indications at 5.62" from top. The bolts have been bent and almost sheared from a traffic impact to the side of the post. The grout pads under north tower posts are all but gone. Posts are 10", webs are 3". Top web of south tower has rust holes, section loss minor to moderate. Final cap at southeast post is rusting through. 18 panel 5' x 5' truss. Chords are 4-1/2", diagonals are 2-1/2". Small gaps (1/32") exist in the inspan connections; U12E, U6E, and L6W. Some spots of surface rust on bottom horizontal diagonals on north end.</p>						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01373 SB01373		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 170.25	Region: Northwest
Year Built / YR Widened: 1963		Structure Type: Sign Bridge		Struct Length: 75.6 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 4			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 10/11/2003		Structr Adequacy:				
Superstr Code: 3		Safe Load:				
Substr Code: 5		Scour:				
Project Number: 100521P		2007-09 Priority#:				
Repair Year: 2009		2009-11 Priority#: 7				
CPMS Ad Date: 5/4/2009		Bridge \$'s: \$70,000				
		Repair Total\$'s: \$231,000				
<b>Repair Description:</b>						
Replace Sign Bridge						
<b>COMMENTS</b>						
Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. Superstructure is a galvanized, 75' 6" span, 18 panel double truss, 3' 4" square. Chords are tapered from 4" to 7", diagonals are 2 1/2", tower diagonals are 3-1/2". Diagonals are notched for chord gussets. Three MSC, with 1 1/4" x 4-3/4" bolts, no markings, 1-7/8" & 2" head. There is a 4" x 6" laminar rust spot on member U8-U9. The MSC bolts have very rusty nuts, and two of the bolt heads have fractures. Grout pad has been removed.						

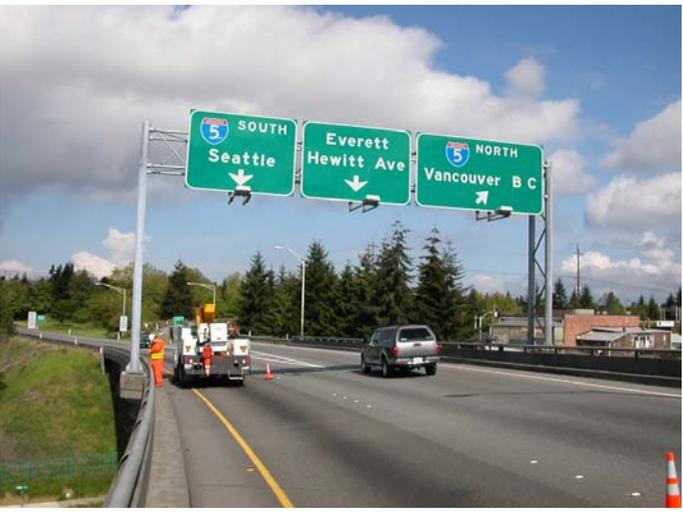
# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01607 SB01607		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 165.30	Region: Northwest	
Year Built / YR Widened: 1965		Structure Type: Sign Bridge		Struct Length: 42.0 ft	Structure Width (c-c): ft	Sufficiency Rating:	
Average Daily Traffic:		Detour (miles)	Num of Lanes: 2				
Sign Struct Type:							
Sign Struct Design: Sign Bridge							
Date Inspected: 10/4/2003		Structr Adequacy:		Superstr Code: 5			Safe Load:
Substr Code: 5		Scour:		Project Number: 100521P		2007-09 Priority#: 15	
Repair Year: 2009		2009-11 Priority#: 6		CPMS Ad Date: 5/14/2009		Bridge \$'s: \$160,000	
		Repair Total\$'s: \$620,000					
<p style="text-align: center; font-size: 2em; font-weight: bold; transform: rotate(-10deg);">No Photo Available</p>							
<p><b>Repair Description:</b> Replace Sign Bridge</p>							
<p><b>COMMENTS</b></p>							
<p>Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. Non-standard superstructure, ECC, and foundation. Many avenues for water entry into aluminum members. 4 &amp; 3 panel, aluminum double truss, 4'h x 4'w. 3 1/2" chords, 3" diagonals. Superstructure is continuous for a 27' span and an 18' 6" cantilever. Members U2S-U3N, U3S-U3N, and U3N-U4S are split and flattened on the ends, bolted in place with aluminum hardware. Four 1-1/2" x 61" anchor bolts, right base. Four 1-1/2" x 8-1/8" anchor bolts, right base (double nutted). Bolts are in good condition. Washers are in place. Good nut engagement. No standoff. No UT indications. Right concrete foundation is 94" x 36" with no notable defects. Left steel plate foundation is 86" x 24".</p>							

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01696 SB01696		Structure Name: SIGN BRIDGE		State Route: 2	Milepost: 0.24	Region: Northwest
Year Built / YR Widened: 1967		Structure Type: Sign Bridge		Struct Length: 49.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 3			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 5/8/2004		Structr Adequacy:				
Superstr Code: 6		Safe Load:				
Substr Code: 5		Scour:				
Project Number:		2007-09 Priority#:	11			
Repair Year:		2009-11 Priority#:	16			
CPMS Ad Date:		Bridge \$'s:	\$100,000			
		Repair Total\$'s:	\$350,000			



### Repair Description:

Replace Sign Bridge

### COMMENTS

ECC bolts(7/8" dia x 2 1/2") are all tight. NORTH TOWER: Both posts in north tower are corroded (rotten from inside). East post on North tower is the worst of the two. There are numerous rust holes and stains, mainly near base plates. There is a dead sound rather than a ring when sounded with a hammer. North tower web B-C has rust hole. Both finial caps have rust holes on north tower. SOUTH TOWER: rust hole at base of east post. Top chord between posts near west post. Four anchor bolts, 33"long x 1" dia ut'd today with no defects noted. Bolts were hand tightened snug + 1/3 turn. Undersized washers and nuts are used with anchor bolts ( 1 1/2" nut rather than 1 5/8"). Maintenance replaced the anchor bolt nuts and washers with 1" A325 galv nuts and washers and retightened to 1/3 turn past snug on 1/11/01.

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01797 SB01797		Structure Name: SIGN BRIDGE		State Route: 5	Milepost: 166.17	Region: Northwest
Year Built / YR Widened: 1965		Structure Type: Sign Bridge		Struct Length: 70.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 5			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 5/3/2003		Structr Adequacy:				
Superstr Code: 4		Safe Load:				
Substr Code: 6		Scour:				
Project Number: 100521P		2007-09 Priority#: 20				
Repair Year: 2009		2009-11 Priority#: 4				
CPMS Ad Date: 5/4/2009		Bridge \$'s: \$110,000				
		Repair Total\$'s: \$410,000				
						
<b>Repair Description:</b>						
Replace Sign Bridge.						
<b>COMMENTS</b>						
Replacement of this structure is included in the "Downtown Seattle Sign Structures" project. 10 panel, 69' 6" span, aluminum double truss, 5.33'h x 5.33'w. 4 1/2" chords, 2 1/2" diagonals. Vertical member U5N-L5N is completely broken away at U5N, and the pipe is full of water. 4 bolts per post, left base. Right base/foundation is on the retaining wall, similar to 5/165.18NCD, SB01818. Four 1 1/2" x 34.5" anchor bolts per base at west tower. Bolts are in good condition. Washers are in place. Good nut engagement. Standoff is 1/4". Bolts were tightened past snug tight with hand wrench. No UT indications. East base has no foundation (ECC bolts to retaining wall).						

# Bridge Preservation Program (P2)

# Misc Structures Form

Structure Number: SB01949 SB01949		Structure Name: SIGN BRIDGE		State Route: 18	Milepost: 0.40	Region: Northwest
Year Built / YR Widened: NA		Structure Type: Sign Bridge		Struct Length: 85.0 ft	Structure Width (c-c): ft	Sufficiency Rating:
Average Daily Traffic:		Detour (miles)	Num of Lanes: 3			
Sign Struct Type:						
Sign Struct Design: Sign Bridge						
Date Inspected: 4/17/2004		Structr Adequacy:				
Superstr Code: 6		Safe Load:				
Substr Code: 6		Scour:				
Project Number:		2007-09 Priority#:	1			
Repair Year:		2009-11 Priority#:	20			
CPMS Ad Date:		Bridge \$'s:	\$170,000			
		Repair Total\$'s:	\$600,000			



**Repair Description:**

Replace Sign Bridge

**COMMENTS**

The "Year Built" is unknown. South tower has been replaced by Region Maintenance. Four 1" x 33" anchor bolts per base. Bolts are in good condition. Washers are in place. Good nut engagement. Standoff is less than 1". No UT indications. Concrete foundations are 3' x 8' with no notable defects. Baseplates are 22" x 22" x 1-1/2" thick. Welds to posts look good. Posts are 11" in diameter. Finial caps welded on north tower, bolted on south tower, no provisions for top plug. A325 ECC bolts are 7/8" x 2-1/2" with 1-7/16" head. Maintenance replaced all ECC bolts and torqued them to 370 ft/lbs on 2/14/01. 17 panel, 85' span, galvanized double truss, 5'h x 5'w. 4-1/2" chords, 2-1/2" diagonals, 3" tower diagonals. A325 MSC bolts are 5/8" x 3" with 1-1/16" head. Two MSC.