

P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Priority Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
1	9/128	GETCHELL BRIDGE	21.09	28.0	243	Northwest	\$82,000
1	99/507E	SR 599 OC	22.94	23.0	263	Northwest	\$92,000
1	167/111W-N	W-N RAMP N-E RAMP OC	14.28	26.0	273	Northwest	\$88,000
1	522/138	SNOHOMISH R	20.50	31.5	1,679	Northwest	\$1,129,000
4	410/115	SCATTER CR	31.06	28.0	250	Northwest	\$176,000
5	5/570	LAKE WASH SHIP CANAL	169.63	174.0	4,429	Northwest	\$2,480,000
10	5/535W	SB VIADUCT STA 2032	162.24	70.0	604	Northwest	\$1,638,000
11	5/531E	MILITARY RD OC	159.67	80.0	161	Northwest	\$235,000
12	5/531W	MILITARY RD OC	159.67	79.2	149	Northwest	\$215,000
13	5/534E	LUCILE ST OC	161.27	89.8	172	Northwest	\$470,000
14	5/534W	LUCILE ST OC	161.27	76.2	190	Northwest	\$441,000
15	5/520W	KLICKITAT DR OC	154.13	80.0	163	Northwest	\$220,000
16	5/521E	E-N S-N RAMPS OC	154.52	68.0	217	Northwest	\$285,000
17	5/521W	E-N RAMP OC	154.52	78.0	146	Northwest	\$186,000
20	5/536E	NB VIADUCT STA 2064	162.98	55.8	746	Northwest	\$742,000
21	5/536W	SB VIADUCT STA 2064	162.98	50.7	746	Northwest	\$965,000
22	5/538E	NB VIADUCT STA 2075	162.98	57.7	872	Northwest	\$1,438,000
23	5/539E	NB VIADUCT STA 2085	163.24	70.0	5,825	Northwest	\$8,585,000
24	5/539W	SB VIADUCT STA 2075	162.98	68.0	6,622	Northwest	\$9,795,000
26	5/516E	ORILLA RD OC	152.26	77.4	195	Northwest	\$304,000
27	5/516W	ORILLA RD OC-SO188TH ST	152.26	92.0	230	Northwest	\$388,000
28	5/506E	MILITARY RD OC	144.65	73.4	199	Northwest	\$190,000
29	5/506W	MILITARY RD OC	144.65	78.7	199	Northwest	\$183,000
30	5/507E	S 288TH ST OC	145.79	75.0	157	Northwest	\$264,000
31	5/507W	S 288TH ST OC	145.79	78.7	157	Northwest	\$246,000
32	5/511E	SR 516 OC	149.17	84.0	269	Northwest	\$455,000
33	5/508E	MILITARY RD OC	146.44	70.0	243	Northwest	\$434,000
34	5/508W	MILITARY RD OC	146.43	95.8	243	Northwest	\$608,000
35	5/509E	S 272ND ST OC	146.81	73.6	151	Northwest	\$248,000
36	5/509W	S 272ND ST OC	146.81	88.5	151	Northwest	\$243,000
37	5/510E	S 260TH ST OC	147.64	63.0	162	Northwest	\$153,000
38	5/510W	S 260TH ST OC	147.64	78.7	162	Northwest	\$111,000
39	5/504E	S 336TH ST OC	142.79	55.0	198	Northwest	\$178,000



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40	5/504W	S 336TH ST OC	142.79	55.0	156	Northwest	\$146,000
41	5/537N	S-E RAMP WB LANES	162.99	28.0	2,885	Northwest	\$1,273,000
42	5/537S	EB LANES I-5 OC	163.00	28.0	1,793	Northwest	\$919,000
43	5/505	I-5 OC, S320TH	143.83	73.0	332	Northwest	\$410,000
44	5/528	I-5 OC, S 107TH ST	158.01	82.0	337	Northwest	\$495,000
45	5/517A	S-W RAMP OC	152.48	34.0	227	Northwest	\$228,000
46	5/518	I-5 OC, S 178TH ST	153.15	26.0	322	Northwest	\$207,000
47	5/513	I-5 OC, S 216TH	150.33	28.0	290	Northwest	\$247,000
51	5/501	I-5 OC, S 375TH	140.15	26.0	301	Northwest	\$287,271
52	5/503E	SR 18 OC	142.00	71.0	206	Northwest	\$900,000
53	5/503W	SR 18 OC	142.00	71.0	213	Northwest	\$900,000
54	5/532.1	N-SWIFT RAMP	161.27	32.0	391	Northwest	\$299,442
55	5/533.5W	N-W RAMP OC	161.27	76.7	469	Northwest	\$1,024,111
56	5/534A	N-W RAMP AIRPORT W. OC	161.27	43.0	636	Northwest	\$870,843
57	5/536N-W	NB I5 to WB W SEA FRWY	162.98	21.0	1,722	Northwest	\$423,924
58	5/537E-S	E-S RAMP BR	162.99	21.0	1,206	Northwest	\$213,131
59	5/537W-W	W-6TH RAMP BR	163.00	21.0	398	Northwest	\$97,895
60	5/539NCD	NBCD RAMP BR	164.41	33.7	151	Northwest	\$70,730
61	5/539SCD	SBCD VIADUCT STA 2133	164.41	50.0	729	Northwest	\$1,070,091
62	5/542E	DEARBORN ST OC	164.41	61.0	219	Northwest	\$121,787
63	5/542NCD	NBCD DEARBORN ST OC	164.41	36.1	216	Northwest	\$153,527
64	5/542SCD	SBCD DEARBORN ST OC	164.41	60.0	216	Northwest	\$221,529
65	5/542W	DEARBORN ST OC	164.41	55.8	219	Northwest	\$108,746
66	5/543E	KING-JACKSON ST OC	164.41	58.8	706	Northwest	\$384,214
67	5/543NCD	NBCD KING JACKSON ST OC	164.41	48.0	709	Northwest	\$453,195
68	5/543SCD	SBCD KING JACKSON ST OC	164.41	60.0	709	Northwest	\$512,105
69	5/543W	KING-JACKSON ST OC	164.41	55.8	712	Northwest	\$372,961
70	5/544	I-5 OC, YESLER ST	165.69	42.0	391	Northwest	\$678,513
71	5/545E	NB VIADUCT STA 2195	165.69	43.9	4,714	Northwest	\$4,311,269
72	5/545SCD	SBCD VIADUCT STA 2195	165.71	44.9	806	Northwest	\$559,460
73	5/545W	SB VIADUCT STA 2195	165.69	39.0	807	Northwest	\$398,646
74	5/546	I-5 OC, MADISON ST	165.69	50.0	280	Northwest	\$485,546
75	5/547	I-5 OC, SPRING ST	165.69	36.0	279	Northwest	\$612,150



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76	5/548	I-5 OC, SENECA ST	165.69	36.0	250	Northwest	\$616,594
77	5/549	I-5 UC, 8TH AVE	165.69	28.0	859	Northwest	\$218,609
78	5/550	I-5 OC, PIKE ST	166.06	48.0	282	Northwest	\$723,195
79	5/551	I-5 OC, PINE ST-BOREN	166.06	48.0	825	Northwest	\$1,326,650
80	5/562E	NB LANES VIADUCT	166.98	66.0	381	Northwest	\$187,798
81	5/566W	DENNY WAY-LAKEVIEW V	166.98	60.0	7,077	Northwest	\$12,064,641
82	5/588E	NORTHGATE WAY OC	172.76	72.0	166	Northwest	\$421,702
83	5/588SCD	SBCD NORTHGATE WAY OC	172.76	21.0	166	Northwest	\$200,767
84	5/588W	NORTHGATE WAY OC	172.76	72.0	166	Northwest	\$376,272
85	5/596	I-5 OC, NE 185TH ST	176.72	46.0	249	Northwest	\$372,444
86	405/1	I-5 OC	0.00	46.0	560	Northwest	\$319,539
87	405/5	I-405 OC, 61ST AVE S	0.34	58.0	205	Northwest	\$203,880
88	405/11	SR 181 OC	0.96	167.9	173	Northwest	\$764,044
89	405/12	BN RR OC (CMSTPP & NP)	1.14	115.7	765	Northwest	\$928,439
90	405/15	SR 167 OC	2.30	184.0	188	Northwest	\$560,313
91	405/16	SR 515 OC	2.77	108.0	215	Northwest	\$318,247
92	405/41E	SE 8TH ST OC	12.78	64.0	189	Northwest	\$144,216
93	405/41W	WILBURTON INTERCHANGE	12.79	61.0	183	Northwest	\$144,799
94	405/44	I-405 OC, 12TH ST	14.12	48.0	298	Northwest	\$263,852
95	405/45E	N-W N-E RAMP OC	14.82	68.0	245	Northwest	\$106,788
96	405/45W	N-W & N-E RAMPS OC	14.82	68.0	207	Northwest	\$107,569
97	405/46E	SR 520 OC	14.83	75.0	247	Northwest	\$212,993
98	405/46W	SR 520 OC	14.83	86.0	241	Northwest	\$208,093
99	405/47E	NORTHUP WAY OC	14.83	75.0	160	Northwest	\$120,599
100	405/47W	NORTHUP WAY OC	14.83	68.0	149	Northwest	\$327,124
101	405/48E	BNRR & 115th AVE NE OC	15.00	75.0	296	Northwest	\$288,915
102	405/48S-W	S-W RAMP BNRR OC	14.83	41.0	232	Northwest	\$72,710
103	405/48W	BNRR & 115 AVE NE OC	15.00	68.0	204	Northwest	\$392,293
104	405/52E	SR 908 OC	18.11	64.0	223	Northwest	\$158,142
105	405/52NCD	NBCD, SR 908 OC	17.84	36.0	211	Northwest	\$158,296
106	405/52SCD	SBCD, SR 908 OC	18.11	36.0	223	Northwest	\$236,269
107	405/52W	SR 908 OC	18.11	64.0	219	Northwest	\$156,866
108	405/56E	BN RR OC (NP)	20.00	104.0	199	Northwest	\$252,604



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109	405/56W	BN RR OC (NP)	19.98	78.0	243	Northwest	\$73,508
110	405/59E	NE 132ND ST OC	20.90	68.0	180	Northwest	\$163,059
111	405/59W	NE 132ND ST OC	20.90	65.0	168	Northwest	\$138,958
119	167/127W	BN RR OC (NP)	20.96	50.0	314	Northwest	\$193,397
120	167/125E	UP RR OC (CMSTPP)	20.40	54.0	348	Northwest	\$122,540
121	167/125W	UP RR OC (CMSTPP)	20.40	50.0	360	Northwest	\$122,540
122	167/126E	4TH ST OC	20.70	54.0	246	Northwest	\$112,860
123	167/126W	4TH AVE OC	20.70	54.0	246	Northwest	\$112,596
124	167/127E	BN RR OC (NP)	20.96	56.0	314	Northwest	\$193,996
125	167/124E	JAMES ST OC	20.20	54.0	191	Northwest	\$87,439
126	167/124W	JAMES ST OC	20.20	54.0	191	Northwest	\$94,639
127	167/123E	MEEKER ST OC	19.83	64.0	158	Northwest	\$110,831
128	167/123W	MEEKER ST OC	19.83	59.7	158	Northwest	\$76,467
129	167/122E	SR 516 OC	19.60	54.0	190	Northwest	\$33,666
130	167/121E	GREEN R	19.04	55.0	241	Northwest	\$329,670
131	167/121W	GREEN R	19.04	55.0	241	Northwest	\$329,698
132	167/122W	SR 516 OC	19.60	54.0	190	Northwest	\$34,348
133	167/112W	SR 18 OC	14.28	44.4	335	Northwest	\$308,022
134	18/5	PEASLEY CANYON RD OC	1.86	77.8	360	Northwest	\$833,162
135	18/6	W VALLEY HIGHWAY OC	2.30	68.0	114	Northwest	\$268,191
136	18/9	NP RY OC	3.82	69.2	1,151	Northwest	\$2,730,904
137	518/18S	42ND AVE S OC	2.91	31.0	207	Northwest	\$176,567
138	518/18N	42ND AVE S OC	2.91	42.0	207	Northwest	\$241,434
139	167/128E	84TH AVE SOUTH O'XING	21.31	54.0	229	Northwest	\$112,228
140	167/128W	84TH AVE SOUTH O'XING	21.31	54.0	229	Northwest	\$110,682
142	900/30	I-90 OC	21.58	77.5	240	Northwest	\$150,667
143	167/133	SR 167 OC, S 180TH ST	24.42	58.0	240	Northwest	\$264,523
144	167/129	SR 167OC S 212TH	22.38	61.0	317	Northwest	\$110,985
150	167/116	SR 167 OC, 15TH ST NW	15.77	82.0	275	Northwest	\$91,091
151	167/110	SR 167 OC, 15TH ST SW	13.81	82.0	369	Northwest	\$208,632
152	161/102	I-5 OC	34.21	62.0	406	Northwest	\$276,172
156	18/8N	UP RR OC (CMSTPP)	3.49	65.0	284	Northwest	\$403,524
157	18/8S	UP RR OC (CMSTPP)	3.49	30.0	280	Northwest	\$299,371



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158	18/14N	NP RY OC - NORTH	4.95	40.5	212	Northwest	\$112,404
159	18/20N	KENT-BLACK DIAMOND RD O	10.31	32.0	202	Northwest	\$31,647
160	18/17S	GREEN R (NEELEY BRIDGE)	6.62	29.5	371	Northwest	\$72,600
161	18/16S	BNRR OC-SOUTH	6.41	49.5	307	Northwest	\$352,176
162	18/24N	SOOS CR	10.87	44.0	119	Northwest	\$126,187
164	509/105	COUNTY RD OC 1ST AVE S	12.86	32.0	83	Northwest	\$82,858
170	18/4	SR 18 OC, MILITARY RD	1.75	26.0	319	Northwest	\$437,096
181	525/10	BN RR OC (GN)	8.36	47.0	228	Northwest	\$40,700
182	167/130	SR 167 OC, S 208TH ST	22.63	26.0	246	Northwest	\$223,328
183	167/115	SR 167 OC, W MAIN ST	14.77	44.0	383	Northwest	\$278,647
185	18/3	SR 18 OC, 32ND AVE S	0.77	74.3	310	Northwest	\$459,289
186	167/117	SR 167 OC 37TH	17.00	44.0	273	Northwest	\$91,223
189	509/103	JOES CREEK	9.93	28.0	264	Northwest	\$35,200
192	529/10W	SNOHOMISH R CS3114	3.85	28.0	2,465	Northwest	\$9,327,681
201	5/613	I-5 OC, MAPLE RD	182.86	26.0	478	Northwest	\$490,573
202	5/629A	BROADWAY AVE UC	192.59	17.0	161	Northwest	\$299,783
204	5/642	I-5 OC, 23RD ST	194.44	40.0	170	Northwest	\$53,614
205	5/645E	SNOHOMISH R BN RR	194.81	48.0	1,622	Northwest	\$1,317,844
206	5/645W	SNOHOMISH R BN RR	194.81	48.0	1,588	Northwest	\$1,317,844
207	5/707	I-5 OC, BLACKBURN ST	225.64	26.0	194	Northwest	\$243,254
208	90/83N	424TH AVE SE OC	31.94	52.0	120	Northwest	\$140,547
209	90/83S	424TH AVE SE OC	31.94	52.0	120	Northwest	\$138,402
210	90/85N	BN RR OC (CMSTPP) TANNER	33.39	52.0	228	Northwest	\$72,919
211	90/85S	BN RR OC (CMSTPP) TANNER	33.39	52.0	228	Northwest	\$73,546
216	405/64	I-405 OC, NE 160TH ST	22.62	66.0	292	Northwest	\$188,381
217	405/73	I-405 OC, 195TH ST	24.48	66.0	252	Northwest	\$138,342
218	405/103E	228TH ST OC	26.31	55.7	287	Northwest	\$206,234
219	405/103W	228TH ST OC	26.33	65.6	273	Northwest	\$191,345
220	526/20	CASINO RD OC	3.74	105.0	234	Northwest	\$203,082
222	526/14	HARDESON ROAD OC	2.90	98.0	163	Northwest	\$167,382
224	526/10	AIRPORT RD OC	1.43	74.0	162	Northwest	\$146,603
232	2/18	FARM RD OC	11.68	37.1	82	Northwest	\$322,179
233	2/17	FRENCH CR	11.41	37.1	82	Northwest	\$322,179



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235	2/22	WOODS CR	15.37	26.0	141	Northwest	\$277,717
236	9/118	SNOHOMISH R	9.17	29.3	1,111	Northwest	\$904,607
237	9/119	2ND ST OC	9.56	30.0	210	Northwest	\$153,901
239	2/26	SULTAN R	22.04	24.0	590	Northwest	\$1,033,720
241	18/34	RAGING RIVER	26.30	38.0	292	Northwest	\$282,557
243	522/136	CATHCART RD OC	20.41	30.7	131	Northwest	\$163,103
244	522/142	W. Main Street OC	23.14	38.0	282	Northwest	\$137,346
247	9/121	72ND STREET SE OC	10.69	30.0	246	Northwest	\$258,687
249	529/15E	UNION SL	5.12	28.0	633	Northwest	\$2,288,370
250	20/209N	ABANDONED RR OC	49.86	38.4	200	Northwest	\$177,430
251	532/6	GN RY COUNTY RD OC	4.98	26.0	699	Northwest	\$568,178
252	522/144	179TH AVE SE OC	24.14	38.0	346	Northwest	\$160,490
253	522/150	US 2 & BN RR OC	24.65	38.0	351	Northwest	\$383,521
254	203/106	SKYKOMISH R	23.20	28.0	582	Northwest	\$46,200
256	526/12S-E	S-E RAMP, SR 526 OC	1.98	39.0	246	Northwest	\$134,453
257	169/12	BN RR OC (NP)	10.41	40.0	153	Northwest	\$352,831
258	522/28S	NORTH CR	10.85	37.8	140	Northwest	\$91,586
259	522/28N	NORTH CR	10.85	55.5	140	Northwest	\$89,722
261	530/115	I-5 OC	16.95	50.0	279	Northwest	\$182,903
262	9/130	BN RR (NP) & SSH 1-E OC	28.88	34.0	344	Northwest	\$265,106
263	18/31N	HOLDER CR HOBART RD OC	20.34	40.3	304	Northwest	\$206,525
264	203/33	CHERRY CR	17.22	36.0	101	Northwest	\$374,693
268	202/60	SNOQUALMIE R	26.00	24.0	444	Northwest	\$105,600
269	534/1	I-5 OC	0.00	59.0	240	Northwest	\$131,280
282	529/8E	WALNUT ST OC	4.93	44.0	64	Northwest	\$83,782
283	529/8W	WALNUT ST OC	4.93	44.0	64	Northwest	\$82,489
292	18/26	SR 18 OC, SE 231ST ST	15.73	76.0	274	Northwest	\$195,085
308	5/708	SR 536 OC KINCAID ST	226.39	80.0	146	Northwest	\$331,887
309	5/710	GN RY OC	226.99	81.0	467	Northwest	\$2,847,125
310	5/711	SR 538 OC	227.73	78.5	124	Northwest	\$252,296
311	5/712	SKAGIT R	228.25	56.0	1,112	Northwest	\$1,348,391
312	5/714	SR 20 & BN RY OC	230.14	116.3	244	Northwest	\$824,527
313	5/722	I-5 OC, BOW HILL RD	236.39	26.0	265	Northwest	\$164,060



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314	5/724E	COLONY RD OC	240.02	32.0	258	Northwest	\$155,513
315	5/724W	COLONY RD OC	240.02	32.0	273	Northwest	\$156,514
316	5/725	I-5 OC, ALGER RD	240.93	26.0	344	Northwest	\$206,756
317	5/801E	NULLE RD OC	242.86	38.8	149	Northwest	\$204,100
318	5/801W	NULLE RD OC	242.86	38.9	141	Northwest	\$193,490
319	5/803	I-5 OC, LAKE SAMISH RD	246.24	26.0	270	Northwest	\$286,770
320	5/806E	SR 11 (CONNELLY AVE)	250.73	33.0	169	Northwest	\$151,470
321	5/806W	SR 11 (CONNELLY AVE)	250.73	32.8	169	Northwest	\$152,653
322	5/810W	MEADOR AVE OC	253.53	43.5	226	Northwest	\$134,739
323	5/812	IOWA ST OC	253.79	88.0	138	Northwest	\$329,890
324	5/813	KENTUCKY ST OC	253.88	91.5	130	Northwest	\$411,708
325	5/822W	SR 539 OC MERIDIAN ST	256.21	43.5	171	Northwest	\$43,863
326	5/824E	NORTHWEST AVE OC	256.98	31.5	154	Northwest	\$104,638
327	5/824W	NORTHWEST AVE OC	256.98	31.5	154	Northwest	\$109,010
328	5/825.2	I-5 OC, SLATER RD	260.13	40.0	320	Northwest	\$194,178
329	5/826	I-5 OC, SMITH RD	261.51	40.0	369	Northwest	\$211,272
330	5/827	I-5 OC, MAIN ST	262.57	29.0	265	Northwest	\$110,710
331	5/828W	NOOKSACK R	263.05	38.0	897	Northwest	
332	5/829E	N FERNDALE OC	263.46	38.0	133	Northwest	\$201,636
333	5/829W	N FERNDALE OC	263.46	48.0	133	Northwest	\$258,786
334	5/830	I-5 OC, PORTAL WAY	265.21	28.0	319	Northwest	\$229,389
335	5/833	I-5 OC, CUSTER	268.93	26.0	270	Northwest	\$219,472
336	5/834	I-5 OC, BIRCH BAY	270.24	26.0	272	Northwest	\$270,947
337	5/835	I-5 OC, LOOMIS	271.60	26.0	238	Northwest	\$278,834
338	5/836E	DAKOTA CR	273.86	31.0	393	Northwest	\$580,261
339	5/836W	DAKOTA CR	273.86	31.0	393	Northwest	\$580,261
340	5/837N-W	N-W RAMP	274.17	20.0	245	Northwest	\$140,756
341	5/838	I-5 OC, HUGHES AVE	274.52	26.0	288	Northwest	\$248,716
342	5/840	I-5 OC, MITCHEL ST	275.54	26.0	303	Northwest	\$168,949
343	5/841	I-5 OC, H ST	275.81	26.0	284	Northwest	\$207,081
344	5/842E	SR 548 OC	276.20	49.2	158	Northwest	\$76,373
345	5/842W	SR 548 OC	276.20	30.0	163	Northwest	\$95,502
354	536/15	SKAGIT R CS2907	4.72	28.0	675	Northwest	\$427,972



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Priority Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
355	20/209S	ABANDONED RR OC	49.86	38.4	200	Northwest	\$165,275
356	11/1	I-5 OC	0.00	31.5	287	Northwest	\$214,148
357	9/215	SKAGIT R	54.38	28.0	972	Northwest	\$147,087
358	548/1	I-5 OC	0.00	26.0	263	Northwest	\$284,647
362	543/1	I-5 OC, SR 543	0.00	23.0	252	Northwest	\$135,256
364	2/119	S FORK SKYKOMISH RIVER	51.02	24.0	260	Northwest	\$390,280
366	530/128	N FK STILLAGUAMISH R OSO	33.86	26.0	300	Northwest	\$30,250
369	530/132	BOULDER CR	40.13	32.0	165	Northwest	\$55,666
371	410/123	SLIPPERY CR	42.49	38.0	78	Northwest	\$77,754
375	9/315	N FK NOOKSACK R U S	78.87	26.0	410	Northwest	\$99,000
408	20/259	BAKER R	89.35	40.0	563	Northwest	\$290,114
414	20/280	BACON CR	110.75	40.5	237	Northwest	\$93,005
459	20/262	JACKMAN CR	91.03	26.0	203	Northwest	\$295,323
492	542/34	N FK NOOKSACK R	35.32	26.0	195	Northwest	\$129,872
494	20/268	SWIFT CR	99.67	26.0	80	Northwest	\$78,705
501	542/46	GALENA CR UPPER X-ING	53.65	29.3	107	Northwest	\$249,695
505	20/338	GORGE LAKE	126.12	26.5	460	Northwest	\$333,179

Total Number of Bridges = 248

Total of Bridge Item\$ = \$127,411,387

P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
233	2/17	FRENCH CR	11.41	37.1	82	Northwest	\$322,179
232	2/18	FARM RD OC	11.68	37.1	82	Northwest	\$322,179
235	2/22	WOODS CR	15.37	26.0	141	Northwest	\$277,717
239	2/26	SULTAN R	22.04	24.0	590	Northwest	\$1,033,720
364	2/119	S FORK SKYKOMISH RIVER	51.02	24.0	260	Northwest	\$390,280
51	5/501	I-5 OC, S 375TH	140.15	26.0	301	Northwest	\$287,271
52	5/503E	SR 18 OC	142.00	71.0	206	Northwest	\$900,000
53	5/503W	SR 18 OC	142.00	71.0	213	Northwest	\$900,000
39	5/504E	S 336TH ST OC	142.79	55.0	198	Northwest	\$178,000
40	5/504W	S 336TH ST OC	142.79	55.0	156	Northwest	\$146,000
43	5/505	I-5 OC, S320TH	143.83	73.0	332	Northwest	\$410,000
28	5/506E	MILITARY RD OC	144.65	73.4	199	Northwest	\$190,000
29	5/506W	MILITARY RD OC	144.65	78.7	199	Northwest	\$183,000
30	5/507E	S 288TH ST OC	145.79	75.0	157	Northwest	\$264,000
31	5/507W	S 288TH ST OC	145.79	78.7	157	Northwest	\$246,000
33	5/508E	MILITARY RD OC	146.44	70.0	243	Northwest	\$434,000
34	5/508W	MILITARY RD OC	146.43	95.8	243	Northwest	\$608,000
35	5/509E	S 272ND ST OC	146.81	73.6	151	Northwest	\$248,000
36	5/509W	S 272ND ST OC	146.81	88.5	151	Northwest	\$243,000
37	5/510E	S 260TH ST OC	147.64	63.0	162	Northwest	\$153,000
38	5/510W	S 260TH ST OC	147.64	78.7	162	Northwest	\$111,000
32	5/511E	SR 516 OC	149.17	84.0	269	Northwest	\$455,000
47	5/513	I-5 OC, S 216TH	150.33	28.0	290	Northwest	\$247,000
26	5/516E	ORILLA RD OC	152.26	77.4	195	Northwest	\$304,000
27	5/516W	ORILLA RD OC-SO188TH ST	152.26	92.0	230	Northwest	\$388,000
45	5/517A	S-W RAMP OC	152.48	34.0	227	Northwest	\$228,000
46	5/518	I-5 OC, S 178TH ST	153.15	26.0	322	Northwest	\$207,000
15	5/520W	KLICKITAT DR OC	154.13	80.0	163	Northwest	\$220,000
16	5/521E	E-N S-N RAMPS OC	154.52	68.0	217	Northwest	\$285,000
17	5/521W	E-N RAMP OC	154.52	78.0	146	Northwest	\$186,000
44	5/528	I-5 OC, S 107TH ST	158.01	82.0	337	Northwest	\$495,000
11	5/531E	MILITARY RD OC	159.67	80.0	161	Northwest	\$235,000
12	5/531W	MILITARY RD OC	159.67	79.2	149	Northwest	\$215,000



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
54	5/532.1	N-SWIFT RAMP	161.27	32.0	391	Northwest	\$299,442
55	5/533.5W	N-W RAMP OC	161.27	76.7	469	Northwest	\$1,024,111
56	5/534A	N-W RAMP AIRPORT W. OC	161.27	43.0	636	Northwest	\$870,843
13	5/534E	LUCILE ST OC	161.27	89.8	172	Northwest	\$470,000
14	5/534W	LUCILE ST OC	161.27	76.2	190	Northwest	\$441,000
10	5/535W	SB VIADUCT STA 2032	162.24	70.0	604	Northwest	\$1,638,000
20	5/536E	NB VIADUCT STA 2064	162.98	55.8	746	Northwest	\$742,000
57	5/536N-W	NB I5 to WB W SEA FRWY	162.98	21.0	1,722	Northwest	\$423,924
21	5/536W	SB VIADUCT STA 2064	162.98	50.7	746	Northwest	\$965,000
58	5/537E-S	E-S RAMP BR	162.99	21.0	1,206	Northwest	\$213,131
41	5/537N	S-E RAMP WB LANES	162.99	28.0	2,885	Northwest	\$1,273,000
42	5/537S	EB LANES I-5 OC	163.00	28.0	1,793	Northwest	\$919,000
59	5/537W-W	W-6TH RAMP BR	163.00	21.0	398	Northwest	\$97,895
22	5/538E	NB VIADUCT STA 2075	162.98	57.7	872	Northwest	\$1,438,000
23	5/539E	NB VIADUCT STA 2085	163.24	70.0	5,825	Northwest	\$8,585,000
60	5/539NCD	NBCD RAMP BR	164.41	33.7	151	Northwest	\$70,730
61	5/539SCD	SBCD VIADUCT STA 2133	164.41	50.0	729	Northwest	\$1,070,091
24	5/539W	SB VIADUCT STA 2075	162.98	68.0	6,622	Northwest	\$9,795,000
62	5/542E	DEARBORN ST OC	164.41	61.0	219	Northwest	\$121,787
63	5/542NCD	NBCD DEARBORN ST OC	164.41	36.1	216	Northwest	\$153,527
64	5/542SCD	SBCD DEARBORN ST OC	164.41	60.0	216	Northwest	\$221,529
65	5/542W	DEARBORN ST OC	164.41	55.8	219	Northwest	\$108,746
66	5/543E	KING-JACKSON ST OC	164.41	58.8	706	Northwest	\$384,214
67	5/543NCD	NBCD KING JACKSON ST OC	164.41	48.0	709	Northwest	\$453,195
68	5/543SCD	SBCD KING JACKSON ST OC	164.41	60.0	709	Northwest	\$512,105
69	5/543W	KING-JACKSON ST OC	164.41	55.8	712	Northwest	\$372,961
70	5/544	I-5 OC, YESLER ST	165.69	42.0	391	Northwest	\$678,513
71	5/545E	NB VIADUCT STA 2195	165.69	43.9	4,714	Northwest	\$4,311,269
72	5/545SCD	SBCD VIADUCT STA 2195	165.71	44.9	806	Northwest	\$559,460
73	5/545W	SB VIADUCT STA 2195	165.69	39.0	807	Northwest	\$398,646
74	5/546	I-5 OC, MADISON ST	165.69	50.0	280	Northwest	\$485,546
75	5/547	I-5 OC, SPRING ST	165.69	36.0	279	Northwest	\$612,150
76	5/548	I-5 OC, SENECA ST	165.69	36.0	250	Northwest	\$616,594



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
77	5/549	I-5 UC, 8TH AVE	165.69	28.0	859	Northwest	\$218,609
78	5/550	I-5 OC, PIKE ST	166.06	48.0	282	Northwest	\$723,195
79	5/551	I-5 OC, PINE ST-BOREN	166.06	48.0	825	Northwest	\$1,326,650
80	5/562E	NB LANES VIADUCT	166.98	66.0	381	Northwest	\$187,798
81	5/566W	DENNY WAY-LAKEVIEW V	166.98	60.0	7,077	Northwest	\$12,064,641
5	5/570	LAKE WASH SHIP CANAL	169.63	174.0	4,429	Northwest	\$2,480,000
82	5/588E	NORTHGATE WAY OC	172.76	72.0	166	Northwest	\$421,702
83	5/588SCD	SBCD NORTHGATE WAY OC	172.76	21.0	166	Northwest	\$200,767
84	5/588W	NORTHGATE WAY OC	172.76	72.0	166	Northwest	\$376,272
85	5/596	I-5 OC, NE 185TH ST	176.72	46.0	249	Northwest	\$372,444
201	5/613	I-5 OC, MAPLE RD	182.86	26.0	478	Northwest	\$490,573
202	5/629A	BROADWAY AVE UC	192.59	17.0	161	Northwest	\$299,783
204	5/642	I-5 OC, 23RD ST	194.44	40.0	170	Northwest	\$53,614
205	5/645E	SNOHOMISH R BN RR	194.81	48.0	1,622	Northwest	\$1,317,844
206	5/645W	SNOHOMISH R BN RR	194.81	48.0	1,588	Northwest	\$1,317,844
207	5/707	I-5 OC, BLACKBURN ST	225.64	26.0	194	Northwest	\$243,254
308	5/708	SR 536 OC KINCAID ST	226.39	80.0	146	Northwest	\$331,887
309	5/710	GN RY OC	226.99	81.0	467	Northwest	\$2,847,125
310	5/711	SR 538 OC	227.73	78.5	124	Northwest	\$252,296
311	5/712	SKAGIT R	228.25	56.0	1,112	Northwest	\$1,348,391
312	5/714	SR 20 & BN RY OC	230.14	116.3	244	Northwest	\$824,527
313	5/722	I-5 OC, BOW HILL RD	236.39	26.0	265	Northwest	\$164,060
314	5/724E	COLONY RD OC	240.02	32.0	258	Northwest	\$155,513
315	5/724W	COLONY RD OC	240.02	32.0	273	Northwest	\$156,514
316	5/725	I-5 OC, ALGER RD	240.93	26.0	344	Northwest	\$206,756
317	5/801E	NULLE RD OC	242.86	38.8	149	Northwest	\$204,100
318	5/801W	NULLE RD OC	242.86	38.9	141	Northwest	\$193,490
319	5/803	I-5 OC, LAKE SAMISH RD	246.24	26.0	270	Northwest	\$286,770
320	5/806E	SR 11 (CONNELLY AVE)	250.73	33.0	169	Northwest	\$151,470
321	5/806W	SR 11 (CONNELLY AVE)	250.73	32.8	169	Northwest	\$152,653
322	5/810W	MEADOR AVE OC	253.53	43.5	226	Northwest	\$134,739
323	5/812	IOWA ST OC	253.79	88.0	138	Northwest	\$329,890
324	5/813	KENTUCKY ST OC	253.88	91.5	130	Northwest	\$411,708



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
325	5/822W	SR 539 OC MERIDIAN ST	256.21	43.5	171	Northwest	\$43,863
326	5/824E	NORTHWEST AVE OC	256.98	31.5	154	Northwest	\$104,638
327	5/824W	NORTHWEST AVE OC	256.98	31.5	154	Northwest	\$109,010
328	5/825.2	I-5 OC, SLATER RD	260.13	40.0	320	Northwest	\$194,178
329	5/826	I-5 OC, SMITH RD	261.51	40.0	369	Northwest	\$211,272
330	5/827	I-5 OC, MAIN ST	262.57	29.0	265	Northwest	\$110,710
331	5/828W	NOOKSACK R	263.05	38.0	897	Northwest	
332	5/829E	N FERNDALE OC	263.46	38.0	133	Northwest	\$201,636
333	5/829W	N FERNDALE OC	263.46	48.0	133	Northwest	\$258,786
334	5/830	I-5 OC, PORTAL WAY	265.21	28.0	319	Northwest	\$229,389
335	5/833	I-5 OC, CUSTER	268.93	26.0	270	Northwest	\$219,472
336	5/834	I-5 OC, BIRCH BAY	270.24	26.0	272	Northwest	\$270,947
337	5/835	I-5 OC, LOOMIS	271.60	26.0	238	Northwest	\$278,834
338	5/836E	DAKOTA CR	273.86	31.0	393	Northwest	\$580,261
339	5/836W	DAKOTA CR	273.86	31.0	393	Northwest	\$580,261
340	5/837N-W	N-W RAMP	274.17	20.0	245	Northwest	\$140,756
341	5/838	I-5 OC, HUGHES AVE	274.52	26.0	288	Northwest	\$248,716
342	5/840	I-5 OC, MITCHEL ST	275.54	26.0	303	Northwest	\$168,949
343	5/841	I-5 OC, H ST	275.81	26.0	284	Northwest	\$207,081
344	5/842E	SR 548 OC	276.20	49.2	158	Northwest	\$76,373
345	5/842W	SR 548 OC	276.20	30.0	163	Northwest	\$95,502
236	9/118	SNOHOMISH R	9.17	29.3	1,111	Northwest	\$904,607
237	9/119	2ND ST OC	9.56	30.0	210	Northwest	\$153,901
247	9/121	72ND STREET SE OC	10.69	30.0	246	Northwest	\$258,687
1	9/128	GETCHELL BRIDGE	21.09	28.0	243	Northwest	\$82,000
262	9/130	BN RR (NP) & SSH 1-E OC	28.88	34.0	344	Northwest	\$265,106
357	9/215	SKAGIT R	54.38	28.0	972	Northwest	\$147,087
375	9/315	N FK NOOKSACK R U S	78.87	26.0	410	Northwest	\$99,000
356	11/1	I-5 OC	0.00	31.5	287	Northwest	\$214,148
185	18/3	SR 18 OC, 32ND AVE S	0.77	74.3	310	Northwest	\$459,289
170	18/4	SR 18 OC, MILITARY RD	1.75	26.0	319	Northwest	\$437,096
134	18/5	PEASLEY CANYON RD OC	1.86	77.8	360	Northwest	\$833,162
135	18/6	W VALLEY HIGHWAY OC	2.30	68.0	114	Northwest	\$268,191



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
156	18/8N	UP RR OC (CMSTPP)	3.49	65.0	284	Northwest	\$403,524
157	18/8S	UP RR OC (CMSTPP)	3.49	30.0	280	Northwest	\$299,371
136	18/9	NP RY OC	3.82	69.2	1,151	Northwest	\$2,730,904
158	18/14N	NP RY OC - NORTH	4.95	40.5	212	Northwest	\$112,404
161	18/16S	BNRR OC-SOUTH	6.41	49.5	307	Northwest	\$352,176
160	18/17S	GREEN R (NEELEY BRIDGE)	6.62	29.5	371	Northwest	\$72,600
159	18/20N	KENT-BLACK DIAMOND RD O	10.31	32.0	202	Northwest	\$31,647
162	18/24N	SOOS CR	10.87	44.0	119	Northwest	\$126,187
292	18/26	SR 18 OC, SE 231ST ST	15.73	76.0	274	Northwest	\$195,085
263	18/31N	HOLDER CR HOBART RD OC	20.34	40.3	304	Northwest	\$206,525
241	18/34	RAGING RIVER	26.30	38.0	292	Northwest	\$282,557
250	20/209N	ABANDONED RR OC	49.86	38.4	200	Northwest	\$177,430
355	20/209S	ABANDONED RR OC	49.86	38.4	200	Northwest	\$165,275
408	20/259	BAKER R	89.35	40.0	563	Northwest	\$290,114
459	20/262	JACKMAN CR	91.03	26.0	203	Northwest	\$295,323
494	20/268	SWIFT CR	99.67	26.0	80	Northwest	\$78,705
414	20/280	BACON CR	110.75	40.5	237	Northwest	\$93,005
505	20/338	GORGE LAKE	126.12	26.5	460	Northwest	\$333,179
208	90/83N	424TH AVE SE OC	31.94	52.0	120	Northwest	\$140,547
209	90/83S	424TH AVE SE OC	31.94	52.0	120	Northwest	\$138,402
210	90/85N	BN RR OC (CMSTPP) TANNER	33.39	52.0	228	Northwest	\$72,919
211	90/85S	BN RR OC (CMSTPP) TANNER	33.39	52.0	228	Northwest	\$73,546
1	99/507E	SR 599 OC	22.94	23.0	263	Northwest	\$92,000
152	161/102	I-5 OC	34.21	62.0	406	Northwest	\$276,172
151	167/110	SR 167 OC, 15TH ST SW	13.81	82.0	369	Northwest	\$208,632
1	167/111W-N	W-N RAMP N-E RAMP OC	14.28	26.0	273	Northwest	\$88,000
133	167/112W	SR 18 OC	14.28	44.4	335	Northwest	\$308,022
183	167/115	SR 167 OC, W MAIN ST	14.77	44.0	383	Northwest	\$278,647
150	167/116	SR 167 OC, 15TH ST NW	15.77	82.0	275	Northwest	\$91,091
186	167/117	SR 167 OC 37TH	17.00	44.0	273	Northwest	\$91,223
130	167/121E	GREEN R	19.04	55.0	241	Northwest	\$329,670
131	167/121W	GREEN R	19.04	55.0	241	Northwest	\$329,698
129	167/122E	SR 516 OC	19.60	54.0	190	Northwest	\$33,666



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
132	167/122W	SR 516 OC	19.60	54.0	190	Northwest	\$34,348
127	167/123E	MEEKER ST OC	19.83	64.0	158	Northwest	\$110,831
128	167/123W	MEEKER ST OC	19.83	59.7	158	Northwest	\$76,467
125	167/124E	JAMES ST OC	20.20	54.0	191	Northwest	\$87,439
126	167/124W	JAMES ST OC	20.20	54.0	191	Northwest	\$94,639
120	167/125E	UP RR OC (CMSTPP)	20.40	54.0	348	Northwest	\$122,540
121	167/125W	UP RR OC (CMSTPP)	20.40	50.0	360	Northwest	\$122,540
122	167/126E	4TH ST OC	20.70	54.0	246	Northwest	\$112,860
123	167/126W	4TH AVE OC	20.70	54.0	246	Northwest	\$112,596
124	167/127E	BN RR OC (NP)	20.96	56.0	314	Northwest	\$193,996
119	167/127W	BN RR OC (NP)	20.96	50.0	314	Northwest	\$193,397
139	167/128E	84TH AVE SOUTH O'XING	21.31	54.0	229	Northwest	\$112,228
140	167/128W	84TH AVE SOUTH O'XING	21.31	54.0	229	Northwest	\$110,682
144	167/129	SR 167OC S 212TH	22.38	61.0	317	Northwest	\$110,985
182	167/130	SR 167 OC, S 208TH ST	22.63	26.0	246	Northwest	\$223,328
143	167/133	SR 167 OC, S 180TH ST	24.42	58.0	240	Northwest	\$264,523
257	169/12	BN RR OC (NP)	10.41	40.0	153	Northwest	\$352,831
268	202/60	SNOQUALMIE R	26.00	24.0	444	Northwest	\$105,600
264	203/33	CHERRY CR	17.22	36.0	101	Northwest	\$374,693
254	203/106	SKYKOMISH R	23.20	28.0	582	Northwest	\$46,200
86	405/1	I-5 OC	0.00	46.0	560	Northwest	\$319,539
87	405/5	I-405 OC, 61ST AVE S	0.34	58.0	205	Northwest	\$203,880
88	405/11	SR 181 OC	0.96	167.9	173	Northwest	\$764,044
89	405/12	BN RR OC (CMSTPP & NP)	1.14	115.7	765	Northwest	\$928,439
90	405/15	SR 167 OC	2.30	184.0	188	Northwest	\$560,313
91	405/16	SR 515 OC	2.77	108.0	215	Northwest	\$318,247
92	405/41E	SE 8TH ST OC	12.78	64.0	189	Northwest	\$144,216
93	405/41W	WILBURTON INTERCHANGE	12.79	61.0	183	Northwest	\$144,799
94	405/44	I-405 OC, 12TH ST	14.12	48.0	298	Northwest	\$263,852
95	405/45E	N-W N-E RAMP OC	14.82	68.0	245	Northwest	\$106,788
96	405/45W	N-W & N-E RAMPS OC	14.82	68.0	207	Northwest	\$107,569
97	405/46E	SR 520 OC	14.83	75.0	247	Northwest	\$212,993
98	405/46W	SR 520 OC	14.83	86.0	241	Northwest	\$208,093



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
99	405/47E	NORTHUP WAY OC	14.83	75.0	160	Northwest	\$120,599
100	405/47W	NORTHUP WAY OC	14.83	68.0	149	Northwest	\$327,124
101	405/48E	BNRR & 115th AVE NE OC	15.00	75.0	296	Northwest	\$288,915
102	405/48S-W	S-W RAMP BNRR OC	14.83	41.0	232	Northwest	\$72,710
103	405/48W	BNRR & 115 AVE NE OC	15.00	68.0	204	Northwest	\$392,293
104	405/52E	SR 908 OC	18.11	64.0	223	Northwest	\$158,142
105	405/52NCD	NBCD, SR 908 OC	17.84	36.0	211	Northwest	\$158,296
106	405/52SCD	SBCD, SR 908 OC	18.11	36.0	223	Northwest	\$236,269
107	405/52W	SR 908 OC	18.11	64.0	219	Northwest	\$156,866
108	405/56E	BN RR OC (NP)	20.00	104.0	199	Northwest	\$252,604
109	405/56W	BN RR OC (NP)	19.98	78.0	243	Northwest	\$73,508
110	405/59E	NE 132ND ST OC	20.90	68.0	180	Northwest	\$163,059
111	405/59W	NE 132ND ST OC	20.90	65.0	168	Northwest	\$138,958
216	405/64	I-405 OC, NE 160TH ST	22.62	66.0	292	Northwest	\$188,381
217	405/73	I-405 OC, 195TH ST	24.48	66.0	252	Northwest	\$138,342
218	405/103E	228TH ST OC	26.31	55.7	287	Northwest	\$206,234
219	405/103W	228TH ST OC	26.33	65.6	273	Northwest	\$191,345
4	410/115	SCATTER CR	31.06	28.0	250	Northwest	\$176,000
371	410/123	SLIPPERY CR	42.49	38.0	78	Northwest	\$77,754
189	509/103	JOES CREEK	9.93	28.0	264	Northwest	\$35,200
164	509/105	COUNTY RD OC 1ST AVE S	12.86	32.0	83	Northwest	\$82,858
138	518/18N	42ND AVE S OC	2.91	42.0	207	Northwest	\$241,434
137	518/18S	42ND AVE S OC	2.91	31.0	207	Northwest	\$176,567
259	522/28N	NORTH CR	10.85	55.5	140	Northwest	\$89,722
258	522/28S	NORTH CR	10.85	37.8	140	Northwest	\$91,586
243	522/136	CATHCART RD OC	20.41	30.7	131	Northwest	\$163,103
1	522/138	SNOHOMISH R	20.50	31.5	1,679	Northwest	\$1,129,000
244	522/142	W. Main Street OC	23.14	38.0	282	Northwest	\$137,346
252	522/144	179TH AVE SE OC	24.14	38.0	346	Northwest	\$160,490
253	522/150	US 2 & BN RR OC	24.65	38.0	351	Northwest	\$383,521
181	525/10	BN RR OC (GN)	8.36	47.0	228	Northwest	\$40,700
224	526/10	AIRPORT RD OC	1.43	74.0	162	Northwest	\$146,603
256	526/12S-E	S-E RAMP, SR 526 OC	1.98	39.0	246	Northwest	\$134,453



P2 Bridge Preservation - Seismic Retrofit

2009-11 Bien Priority Array

(Sorted by Bridge Number)

09-11 #	Bridge Number	Bridge Name	Mile post	Width	Length	Region	Bridge Item\$'s
222	526/14	HARDESON ROAD OC	2.90	98.0	163	Northwest	\$167,382
220	526/20	CASINO RD OC	3.74	105.0	234	Northwest	\$203,082
282	529/8E	WALNUT ST OC	4.93	44.0	64	Northwest	\$83,782
283	529/8W	WALNUT ST OC	4.93	44.0	64	Northwest	\$82,489
192	529/10W	SNOHOMISH R CS3114	3.85	28.0	2,465	Northwest	\$9,327,681
249	529/15E	UNION SL	5.12	28.0	633	Northwest	\$2,288,370
261	530/115	I-5 OC	16.95	50.0	279	Northwest	\$182,903
366	530/128	N FK STILLAGUAMISH R OSO	33.86	26.0	300	Northwest	\$30,250
369	530/132	BOULDER CR	40.13	32.0	165	Northwest	\$55,666
251	532/6	GN RY COUNTY RD OC	4.98	26.0	699	Northwest	\$568,178
269	534/1	I-5 OC	0.00	59.0	240	Northwest	\$131,280
354	536/15	SKAGIT R CS2907	4.72	28.0	675	Northwest	\$427,972
492	542/34	N FK NOOKSACK R	35.32	26.0	195	Northwest	\$129,872
501	542/46	GALENA CR UPPER X-ING	53.65	29.3	107	Northwest	\$249,695
362	543/1	I-5 OC, SR 543	0.00	23.0	252	Northwest	\$135,256
358	548/1	I-5 OC	0.00	26.0	263	Northwest	\$284,647
142	900/30	I-90 OC	21.58	77.5	240	Northwest	\$150,667

Total Number of Bridges = 248

Total of Bridge Item\$ = \$127,411,387



Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006094B		Bridge Name: S 336TH ST OC		Route: 5	Milepost: 142.79	Region: Northwest	
Bridge Number: 005/504E						County: King	
Location: 0.8 N JCT SR 18		Longitude: 122 18 9.4	Latitude: 47 18 1.1	Structure Length: 198 ft.		Out to Out Width: 83 ft.	
Feature Intersected: S 336TH ST		PGA (500 yr): 31.15 %g	PGA (1000 yr): 40.8% %g	Span Type: CBox		Main Spans: 3 Appr. Spans: 0	
Year Built: 1959	ADT: 77500	Detour Length: 1 miles	Skew Angle: 12	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 2006	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has three 3'-0" diameter columns. #4 hoops @ 12". #8 bars with 3'-0" splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (3 ea. 6 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank: 39
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	N		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$177,221.00 Estimated Total Retrofit Project Cost: <u>\$354,442.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006094C		Bridge Name: S 336TH ST OC		Route: 5	Milepost: 142.79	Region: Northwest	
Bridge Number: 005/504W						County: King	
Location: 0.8 N JCT SR 18		Longitude: 122 18 6 "	Latitude: 47 18 6 "	Structure Length: 156 ft.		Out to Out Width: 58 ft.	
Feature Intersected: S 336TH ST		PGA (500 yr): 31.15 %g	PGA (1000 yr): 40.8% %g	Span Type: CVS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1959	ADT: 77500	Detour Length: 1 miles	Skew Angle: 12	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 0	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has three 3'-0" diameter columns. #4 hoops @ 12". #11 bars with 4'-2" splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (3 ea. 6 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank: 40
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	N		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$145,860.00 Estimated Total Retrofit Project Cost: <u>\$291,720.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006262A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/505		I-5 OC, S320TH		5	143.83	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
1.8 N JCT SR 18		122 17 48"	47 18 54"	332 ft.		76 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 4
I-5		31.29 %g	41.0% %g	PCG		Appr. Spans: 0
Year Built: 1960	ADT: 55100	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 0	Truck Pct: 1 %	4 miles	15	Pier with more than two columns		

No Photo Available



Bridge Notes:

Piers 2, 3 and 4, each has six 3'-0" diameter columns. #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (6 ea. 18 total)

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 43
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility: Very Low	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$409,178.00

Estimated Total Retrofit Project Cost: \$818,356.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006124A		Bridge Name: MILITARY RD OC		Route: 5	Milepost: 144.65	Region: Northwest
Bridge Number: 005/506E						County: King
Location: 2.6 N JCT SR 18		Longitude: 122 17 36 "	Latitude: 47 19 36 "	Structure Length: 199 ft.		Out to Out Width: 77.4 ft.
Feature Intersected: MILITARY RD		PGA (500 yr): 31.41 %g	PGA (1000 yr): 41.2% %g	Span Type: CBox		Main Spans: 3 Appr. Spans: 0
Year Built: 1959	ADT: 85500	Detour Length: 1 miles	Skew Angle: 40	Pier Type: Pier with more than two columns		Footing Type:
Year Rebuilt: 2005	Truck Pct: 15 %					



Bridge Notes:

Piers 2 and 3, each has four 3'-0" diameter columns. #3 hoops @ 12". #11 bars with 4'-2" splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status: R	Total Number of Columns: 09-11Rank: 28
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns: Expected Start Year:
Superstructure Retrofit Status: N	
Single Column Pier Status: N	
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Moderate to High
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$189,568.50 Estimated Total Retrofit Project Cost: <u>\$379,137.00</u>

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006124B		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/506W		MILITARY RD OC		5	144.65	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
2.6 N JCT SR 18		122 17 38.2	47 19 37.6	199 ft.		80.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
MILITARY RD		31.41 %g	41.2% %g	CBox	Appr. Spans: 0	
Year Built: 1959	ADT: 85500	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 2002	Truck Pct: 15 %	1 miles	40	Pier with more than two columns		



Bridge Notes:

Piers 2 and 3, each has six columns. Retrofit center four 3'-0" diameter columns only. These columns have #3 hoops @ 12". #11 bars with 4'-2" splices. Footing without top mat.

Retrofit Program Notes:

Bridge widened (c5981). Add one 3'-0" dia. Columns on 5'-0" drilled shafts at Piers 2 and 3 each side of bridge.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11 Rank:	29
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	
Superstructure Retrofit Status:	N			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Moderate to High	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$182,413.00		
		Estimated Total Retrofit Project Cost: <u>\$364,826.00</u>		

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006313A		Bridge Name: S 288TH ST OC		Route: 5	Milepost: 145.79	Region: Northwest	
Bridge Number: 005/507E						County: King	
Location: 3.8 N JCT SR 18		Longitude: 122 17 30 "	Latitude: 47 20 36 "	Structure Length: 157 ft.		Out to Out Width: 80.5 ft.	
Feature Intersected: S 288TH ST		PGA (500 yr): 31.61 %g	PGA (1000 yr): 41.5% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0	
Year Built: 1961	ADT: 85500	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 1994	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has six 3'-0" diameter columns. Retrofit 5 east columns per pier only, these columns has #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.)

Overall Retrofit Status: P	Total Number of Columns:	09-11Rank: 30
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$263,835.00 Estimated Total Retrofit Project Cost: <u>\$527,670.00</u>	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006313B		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/507W		S 288TH ST OC		5	145.79	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
3.8 N JCT SR 18		122 17 34.4	47 20 35.4	157 ft.		80.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 3
S 288TH ST		31.61 %g	41.5% %g	PCG		Appr. Spans: 0
Year Built: 1961	ADT: 85500	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 2002	Truck Pct: 15 %	1 miles	0	Pier with more than two columns		



Bridge Notes:

Piers 2 and 3, each has seven columns. Retrofit five center 3'-0" diameter columns per pier only, these columns has #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Bridge widened (c5981). Add one 3'-0" dia. Columns on 4'-6" drilled shafts at Piers 2 and 3 each side of bridge.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 31
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$245,987.50 Estimated Total Retrofit Project Cost: <u>\$491,975.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006207B		Bridge Name: MILITARY RD OC		Route: 5	Milepost: 146.44	Region: Northwest
Bridge Number: 005/508E						County: King
Location: 4.4 N JCT SR 18		Longitude: 122 17 43.8 "	Latitude: 47 21 8.4 "	Structure Length: 243 ft.		Out to Out Width: 73 ft.
Feature Intersected: MILITARY RD		PGA (500 yr): 31.76 %g	PGA (1000 yr): 41.8% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0
Year Built: 1960	ADT: 80000	Detour Length: 1 miles	Skew Angle: 41	Pier Type: Pier with more than two columns		Footing Type:
Year Rebuilt: 1994	Truck Pct: 15 %					



No Photo Available

Bridge Notes:

Piers 2 and 3, each has six columns. Retrofit five east 3'-0" diameter columns. #3 hoops @ 12". #10 bars with 2'-2" splices. Footing without top mat. (E-21g)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.). Large skew (41 degree), deep excavation (12 ft). Install girder stops at Pier 1 thru 4.

Overall Retrofit Status:

P

Special Br. Retrofit Status:

Superstructure Retrofit Status:

P

Single Column Pier Status:

N

Multi Column Pier Status:

R

Total Number of Columns:

09-11Rank: 33

No. of Wet Retrofitted Columns:

Expected Start Year:

DNR Liquifaction Susceptibility: Very Low

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$433,647.50

Estimated Total Retrofit Project Cost: \$867,295.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006207A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/508W		MILITARY RD OC		5	146.43	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
4.4 N JCT SR 18		122 17 44.5	47 21 7.4	243 ft.		97.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
MILITARY RD		31.76 %g	41.7% %g	PCG	Appr. Spans: 0	
Year Built: 1960	ADT: 80000	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 2002	Truck Pct: 15 %	1 miles	40	Pier with more than two columns		



Bridge Notes:

Piers 2 and 3, each has eight columns. Retrofit five center 3'-0" diameter columns. #3 hoops @ 12". #10 bars with 2'-2" splices. Footing without top mat. (E-21g)

Retrofit Program Notes:

Bridge widened (c5981). Add two 3'-0" dia. Columns east side and one 3'-0" column west side on 5'-0" drilled shafts at Piers 2 and 3 each side of bridge.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.). Large skew (41 degree), deep excavation (18 ft). Install girder stops at Pier 1 thru 4.

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 34
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	P		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$607,420.00 Estimated Total Retrofit Project Cost: <u>\$1,214,840.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006313C		Bridge Name: S 272ND ST OC		Route: 5	Milepost: 146.81	Region: Northwest	
Bridge Number: 005/509E						County: King	
Location: 4.8 N JCT SR 18		Longitude: 122 17 46 "	Latitude: 47 21 27.4 "	Structure Length: 151 ft.		Out to Out Width: 76.5 ft.	
Feature Intersected: S 272ND ST		PGA (500 yr): 31.83 %g	PGA (1000 yr): 41.9% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0	
Year Built: 1961	ADT: 80000	Detour Length: 1 miles	Skew Angle: 4	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 1994	Truck Pct: 15 %						



No Photo Available

Bridge Notes:

Piers 2 and 3, each has six columns. Retrofit five east 3'-0" diameter columns. #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.)

Overall Retrofit Status: P	Total Number of Columns: 35	09-11 Rank: 35
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	

C=Complete P=Partially Complet
R=Required N=Not Required
D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$247,995.00
Estimated Total Retrofit Project Cost: \$495,990.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006313D		Bridge Name: S 272ND ST OC		Route: 5	Milepost: 146.81	Region: Northwest	
Bridge Number: 005/509W						County: King	
Location: 4.8 N JCT SR 18		Longitude: 122 17 48 "	Latitude: 47 21 27.6 "	Structure Length: 151 ft.		Out to Out Width: 91.5 ft.	
Feature Intersected: S 272ND ST		PGA (500 yr): 31.83 %g	PGA (1000 yr): 41.9% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0	
Year Built: 1961	ADT: 80000	Detour Length: 1 miles	Skew Angle: 4	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 2002	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has seven columns. Retrofit five east 3'-0" diameter columns. #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Bridge widened (c5981). Add two 3'-0" dia. Columns West side on 4'-6" drilled shafts at Piers 2 and 3 each side of bridge.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.)

Overall Retrofit Status: P	Total Number of Columns: 36	09-11 Rank: 36
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$242,940.50 Estimated Total Retrofit Project Cost: \$485,881.00	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006186A		Bridge Name: S 260TH ST OC		Route: 5	Milepost: 147.64	Region: Northwest	
Bridge Number: 005/510E						County: King	
Location: 5.6 N JCT SR 18		Longitude: 122 17 36 "	Latitude: 47 22 12 "	Structure Length: 162 ft.		Out to Out Width: 68 ft.	
Feature Intersected: S 260TH ST		PGA (500 yr): 31.99 %g	PGA (1000 yr): 42.2% %g	Span Type: CVS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1960	ADT: 80000	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 1991	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has four columns. Retrofit three east 2'-9" diameter columns. #4 hoops @ 12". #9 bars with 3'-4" splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (3 ea. 6 total, 2'-9" dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank: 37
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	N		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$152,757.00 Estimated Total Retrofit Project Cost: <u>\$305,514.00</u>	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006186B		Bridge Name: S 260TH ST OC		Route: 5	Milepost: 147.64	Region: Northwest	
Bridge Number: 005/510W						County: King	
Location: 5.6 N JCT SR 18		Longitude: 122 17 36 "	Latitude: 47 22 12 "	Structure Length: 162 ft.		Out to Out Width: 92.2 ft.	
Feature Intersected: S 260TH ST		PGA (500 yr): 31.99 %g	PGA (1000 yr): 42.2% %g	Span Type: CVS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1960	ADT: 80000	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 2002	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has five columns. Retrofit three center 2'-9" diameter columns. #4 hoops @ 12". #9 bars with 3'-4" splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (3 ea. 6 total, 2'-9" dia.)

Overall Retrofit Status: R	Total Number of Columns: 09-11Rank: 38
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns: Expected Start Year:
Superstructure Retrofit Status: N	
Single Column Pier Status: N	
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$110,434.50 Estimated Total Retrofit Project Cost: \$220,869.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006820A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/511E		SR 516 OC		5	149.17	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
7.2 N JCT SR 18		122 17 24 "	47 23 0 "	269 ft.		90 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 4
SR 516		32.15 %g	42.6% %g	PCG		Appr. Spans: 0
Year Built: 1962	ADT: 85000	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 1991	Truck Pct: 15 %	1 miles	30	Pier with more than two columns		



Bridge Notes:

Piers 2, 3 and 4, each has seven 3'-0" diameter columns. Retrofit six east columns only. These columns have #3 hoops @ 12". #10 bars with 3'-8" splices. Footing without top mat. (E-23h)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (6 ea. 18 total, 3' dia.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 32
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility: Very Low	

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$454,613.50 Estimated Total Retrofit Project Cost: <u>\$909,227.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007090A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/513		I-5 OC, S 216TH		5	150.33	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
1.1 N JCT SR 516		122 17 30	47 24 30	290 ft.		36 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 4
I-5		32.51 %g	43.3% %g	PCG		Appr. Spans: 0
Year Built: 1963	ADT: 12540	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 0	Truck Pct: 1 %	4 miles	8	Pier with more than two columns		



Bridge Notes:

Piers 2, 3 and 4, each has three 3'-0" diameter columns. #3 hoops @ 12". Longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (3 ea. 9 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank: 47
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	N		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$246,185.50

Estimated Total Retrofit Project Cost: \$492,371.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007090B		Bridge Name: ORILLA RD OC		Route: 5	Milepost: 152.26	Region: Northwest	
Bridge Number: 005/516E						County: King	
Location: 3.1 N JCT SR 516		Longitude: 122 16 12 "	Latitude: 47 25 54 "	Structure Length: 195 ft.		Out to Out Width: 79 ft.	
Feature Intersected: ORILLA RD		PGA (500 yr): 32.62 %g	PGA (1000 yr): 43.8% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0	
Year Built: 1963	ADT: 89500	Detour Length: 0 miles	Skew Angle: 1	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 1994	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has seven 3'-0" diameter columns. Retrofit six east columns only. These 3'-0" diameter columns have #3 hoops @ 12" and longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (6 ea. 12 total, 3' dia.)

Overall Retrofit Status: P	Total Number of Columns:	09-11 Rank: 26
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$304,172.00 Estimated Total Retrofit Project Cost: \$608,344.00	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007090C		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/516W		ORILLA RD OC-SO188TH ST		5	152.26	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
3.1 N JCT SR 516		122 16 12"	47 25 54"	230 ft.		93.8 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 3
ORILLA RD		32.62 %g	43.8% %g	PCG		Appr. Spans: 0
Year Built: 1963	ADT: 89500	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 1997	Truck Pct: 15 %	0 miles	0	Pier with more than two columns		



Bridge Notes:

Piers 2 and 3, each has seven 3'-0" diameter columns. Retrofit six west columns only. These 3'-0" diameter columns have #3 hoops @ 12" and longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (6 ea. 12 total, 3' dia.)

Overall Retrofit Status: P	Total Number of Columns:	09-11 Rank: 27
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$387,414.50 Estimated Total Retrofit Project Cost: <u>\$774,829.00</u>	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007459A		Bridge Name: S-W RAMP OC		Route: 5	Milepost: 152.48	Region: Northwest
Bridge Number: 005/517A						County: King
Location: 3.3 N JCT SR 516		Longitude: 122 16 12 "	Latitude: 47 26 6 "	Structure Length: 227 ft.		Out to Out Width: 37 ft.
Feature Intersected: S-W RAMP TO S 188TH ST		PGA (500 yr): 32.66 %g	PGA (1000 yr): 43.9% %g	Span Type: PCG		Main Spans: 4 Appr. Spans: 0
Year Built: 1964	ADT: 26700	Detour Length: 4 miles	Skew Angle: 30	Pier Type: Pier with more than two columns		Footing Type:
Year Rebuilt: 0	Truck Pct: 14 %					



Bridge Notes:

Piers 2, 3 and 4, each has three 3'-0" diameter columns. #3 hoops @ 12". longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (3 ea. 9 total, 3' dia.)

Overall Retrofit Status: R	Total Number of Columns: 09-11Rank: 45
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns: Expected Start Year:
Superstructure Retrofit Status: N	
Single Column Pier Status: N	
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$227,238.00 Estimated Total Retrofit Project Cost: \$454,476.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007401A		Bridge Name:		Route:	Milepost:	Region: Northwest	
Bridge Number: 005/518		I-5 OC, S 178TH ST		5	153.15	County: King	
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:	
4.0 N JCT SR 516		122 16 0"	47 26 36"	322 ft.		33.6 ft.	
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 4	
I-5		32.73 %g	44.2% %g	PCG		Appr. Spans: 0	
Year Built: 1964	ADT: 15000	Detour Length:	Skew Angle:	Pier Type:		Footing Type:	
Year Rebuilt: 0	Truck Pct: 1 %	4 miles	99	Pier with three columns		Spread	



Bridge Notes:

Piers 2, 3 and 4, each has three 3'-0" diameter columns. #3 hoops @ 12". longitudinal bars with lap splices. Footing without top mat. (E-54m).

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (3 ea. 9 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank: 46
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	N		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$206,750.50 Estimated Total Retrofit Project Cost: \$413,501.00	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007401D		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/520W		KLICKITAT DR OC		5	154.13	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
5.0 N JCT SR 516		122 15 52.1	47 27 28.9	163 ft.		81.7 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 3
KLICKITAT DR		32.83 %g	44.6% %g	PCG		Appr. Spans: 0
Year Built: 1965	ADT: 102000	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 1997	Truck Pct: 15 %	5 miles	0	Pier with more than two columns		



Bridge Notes:

Retrofit five 3'-0" diameter columns at Piers 2 and 3. These columns have #3 hoops @ 12". Longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11 Rank:	15
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2014
Superstructure Retrofit Status:	C			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$219,252.00

Estimated Total Retrofit Project Cost: \$438,504.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007401E		Bridge Name: E-N S-N RAMPS OC		Route: 5	Milepost: 154.52	Region: Northwest	
Bridge Number: 005/521E						County: King	
Location: 5.2 N JCT SR 516		Longitude: 122 15 48 "	Latitude: 47 27 42 "	Structure Length: 217 ft.		Out to Out Width: 71.6 ft.	
Feature Intersected: I-405 E-E S-E RAMP		PGA (500 yr): 32.85 %g	PGA (1000 yr): 44.6% %g	Span Type: PCG		Main Spans: 4 Appr. Spans: 0	
Year Built: 1966	ADT: 102000	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type: Timber pile	
Year Rebuilt: 0	Truck Pct: 15 %						



Bridge Notes:

Piers 2, 3 and 4, each has four 3'-0" diameter columns. #3 hoops @ 12". longitudinal bars with lap splices. Footing without top mat. (E-54m)

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3 and 4. (4 ea. 12 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank:	16
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2014
Superstructure Retrofit Status:	N			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Moderate to High	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$284,487.50

Estimated Total Retrofit Project Cost: \$568,975.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007401F		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/521W		E-N RAMP OC		5	154.52	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
5.2 N JCT SR 516		122 15 54"	47 27 42"	146 ft.		81.6 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 3
I-405 E-E RAMP		32.87 %g	44.7% %g	PCG		Appr. Spans: 0
Year Built: 1966	ADT: 102000	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 0	Truck Pct: 15 %	1 miles	13	Pier with more than two columns		Timber pile



Bridge Notes:

Piers 2 and 3, each has four 3'-0" diameter columns. #3 hoops @ 12". longitudinal #9 bars with 3'-4" lap splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11 Rank:	17
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2014
Superstructure Retrofit Status:	N			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Moderate to High	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$185,872.50

Estimated Total Retrofit Project Cost: \$371,745.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007618E		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/528		I-5 OC, S 107TH ST		5	158.01	County: King
Location: 0.5 N JCT SR 900		Longitude: ° ' "	Latitude: ° ' "	Structure Length: 337 ft.		Out to Out Width: 89.8 ft.
122 17 12		47 30 27		Span Type: PCG		Main Spans: 5 Appr. Spans: 0
Feature Intersected: I-5		PGA (500 yr): 33.27 %g	PGA (1000 yr): 46.0% %g	Pier Type: Pier with more than two columns		Footing Type:
Year Built: 1966	ADT: 31000	Detour Length: 4 miles	Skew Angle: 22			
Year Rebuilt: 0	Truck Pct: 1 %					



Bridge Notes:

Piers 2, 3, 4 and 5, each has five 3'-0" diameter columns. #3 hoops @ 12". longitudinal #8 bars spliced at top of footing. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3, 4 and 5. (5 ea. 20 total, 3' dia.)

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank:	44
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	
Superstructure Retrofit Status:	N			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Bedrock	

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$494,219.00 Estimated Total Retrofit Project Cost: <u>\$988,438.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007617C		Bridge Name: MILITARY RD OC		Route: 5	Milepost: 159.67	Region: Northwest	
Bridge Number: 005/531E						County: King	
Location: 2.2 N JCT SR 900		Longitude: 122 17 37.3 "	Latitude: 47 31 49.7 "	Structure Length: 161 ft.		Out to Out Width: 83 ft.	
Feature Intersected: MILITARY RD ROSE ST		PGA (500 yr): 33.42 %g	PGA (1000 yr): 46.3% %g	Span Type: CS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1966	ADT: 106000	Detour Length: 1 miles	Skew Angle: 13	Pier Type: Pier with more than two columns		Footing Type: Steel pile	
Year Rebuilt: 1991	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has five 3'-0" diameter columns. Retrofit four west columns only. These columns have #4 hoops @ 12". longitudinal #9 bars with 3'-4" lap splices. Footings without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status: R	Total Number of Columns:	09-11 Rank: 11
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year: 2014
Superstructure Retrofit Status: N		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$234,894.00 Estimated Total Retrofit Project Cost: \$469,788.00	

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007617D		Bridge Name: MILITARY RD OC		Route: 5	Milepost: 159.67	Region: Northwest	
Bridge Number: 005/531W						County: King	
Location: 2.2 N JCT SR 900		Longitude: 122 17 36	Latitude: 47 31 48	Structure Length: 149 ft.		Out to Out Width: 81 ft.	
Feature Intersected: MILITARY RD ROSE ST		PGA (500 yr): 33.42 %g	PGA (1000 yr): 46.3% %g	Span Type: CS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1966	ADT: 106000	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 1995	Truck Pct: 15 %						



Bridge Notes:

Piers 2 and 3, each has five 3'-0" diameter columns. Retrofit four east columns only. These columns have #4 hoops @ 12". longitudinal #9 bars with 3'-4" lap splices. Footings without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.)

Overall Retrofit Status: R	Total Number of Columns: 09-11Rank: 12
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns: Expected Start Year: 2014
Superstructure Retrofit Status: N	
Single Column Pier Status: N	
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$214,373.50 Estimated Total Retrofit Project Cost: \$428,747.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007734B		Bridge Name: LUCILE ST OC		Route: 5	Milepost: 161.27	Region: Northwest	
Bridge Number: 005/534E						County: King	
Location: 3.9 N JCT SR 900		Longitude: 122 19 0 "	Latitude: 47 33 12 "	Structure Length: 172 ft.		Out to Out Width: 93.6 ft.	
Feature Intersected: LUCILE ST		PGA (500 yr): 33.61 %g	PGA (1000 yr): 46.7% %g	Span Type: CS		Main Spans: 3 Appr. Spans: 0	
Year Built: 1966	ADT: 106000	Detour Length: 1 miles	Skew Angle: 22	Pier Type: Pier with more than two columns		Footing Type:	
Year Rebuilt: 0	Truck Pct: 15 %						



No Photo Available

Bridge Notes:

Piers 2 and 3, each has five 3'-0" diameter columns. #4 hoops @ 12". longitudinal #9 bars with 3'-4" lap splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (5 ea. 10 total, 3' dia.). Install catcher blocks at piers 1 and 4.

Overall Retrofit Status: R	Total Number of Columns:	09-11 Rank: 13
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year: 2014
Superstructure Retrofit Status: R		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Bedrock	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$469,782.50

Estimated Total Retrofit Project Cost: \$939,565.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007734C		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/534W		LUCILE ST OC		5	161.27	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
4.1 N JCT SR 900		° ' "	° ' "	190 ft.		79 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
LUCILE ST		33.61 %g	46.7% %g	CS	Appr. Spans: 0	
Year Built: 1966	ADT: 106000	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 1995	Truck Pct: 15 %	1 miles	22	Pier with more than two columns		



Bridge Notes:

Piers 2 and 3, each has five 3'-0" diameter columns. Retrofit four east columns per pier only. These columns have #4 hoops @ 12" longitudinal #9 bars with 3'-4" lap splices. Footing without top mat.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (4 ea. 8 total, 3' dia.). 12' excavation. Install catchers and stops at Piers 1 and 4 (22 degree skew).

Overall Retrofit Status:	R	Total Number of Columns:	09-11 Rank:	14
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2014
Superstructure Retrofit Status:	R			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Bedrock	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$440,605.00

Estimated Total Retrofit Project Cost: \$881,210.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007816B		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/535W		SB VIADUCT STA 2032		5	162.24	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
4.5 N JCT SR 900		122 19 18.8	47 33 47	604 ft.		73 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 6
SB VIADUCT STA 2032		33.55 %g	46.4% %g	PCG		Appr. Spans: 0
Year Built: 1966	ADT: 118000	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 1992	Truck Pct: 15 %	1 miles	0	Pier with more than two columns		



Bridge Notes:

Piers 2 thru 5, each has six 4'-0" diameter columns. Pier 6 has six 4'-6" diameter columns. Retrofit four center columns per pier at piers 2 thru 5 only. These columns have #4 hoops @ 12". longitudinal bars with lap or/and welded splices. Footing with top mat. Pier 6 has four 4'-6" (O.D.) x 5" wall prestressed concrete piles, filled with cylinder concrete after piles are set in place. No retrofit recommended.

Retrofit Program Notes:

Widened in 1992. Adds one 4'-0" diameter shaft column on each side of the existing 4 columns at piers 2 thru 5 and one 4'-6" diameter shaft column on each side of the existing 4 columns at pier 6.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2, 3, 4 and 5. (4 ea. 16 total, 4' dia.). Deep excavation (38' max.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11 Rank:	10
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2012
Superstructure Retrofit Status:	C			
Single Column Pier Status:	N			
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$1,637,762.50		
		Estimated Total Retrofit Project Cost: <u>\$3,275,525.00</u>		

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007741A		Bridge Name: NB VIADUCT STA 2064		Route: 5	Milepost: 162.98	Region: Northwest	
Bridge Number: 005/536E						County: King	
Location: 5.2 N JCT SR 900		Longitude: 122° 19' 12.5"	Latitude: 47° 34' 10.5"	Structure Length: 746 ft.		Out to Out Width: 58.8 ft.	
Feature Intersected: NB VIADUCT STA 2064		PGA (500 yr): 33.42 %g	PGA (1000 yr): 46.1% %g	Span Type: CS		Main Spans: 18 Appr. Spans: 0	
Year Built: 1966	ADT: 98500	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type: Drilled shaft	
Year Rebuilt: 1992	Truck Pct: 15 %						

No Photo Available



Bridge Notes:

Piers 2 thru 8, each has four 3'-0" dia. columns on 3'-6" dia. drilled shafts. Pier 9 thru 18, each has four columns. Retrofit three west columns only. These columns are 3'-0" dia. columns on 3'-6" dia. drilled shafts. Hoops are #4 @ 12". Longitudinal bars insert 5'-0" into drilled shafts. Max. span length = 42'.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit 51 columns built in 1966 (on drilled shaft, 3' dia.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 20
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year: 2014
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	<p>Estimated Total Bridge Item Cost: \$742,120.50</p> <p>Estimated Total Retrofit Project Cost: <u>\$1,484,241.00</u></p>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007741B		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/536W		SB VIADUCT STA 2064		5	162.98	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
5.2 N JCT SR 900		122 19 6"	47 34 18"	746 ft.		53.7 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:		Main Spans: 18
SB VIADUCT STA 2064		33.42 %g	46.0% %g	CS		Appr. Spans: 0
Year Built: 1967	ADT: 98500	Detour Length:	Skew Angle:	Pier Type:		Footing Type:
Year Rebuilt: 1992	Truck Pct: 15 %	1 miles	0	Pier with more than two columns		Drilled shaft

No Photo Available



Bridge Notes:

Piers 2 thru 5, each has four 3'-0" dia. columns on 3'-6" dia. drilled shafts. Pier 6 thru 18, each has three 3'-0" dia. columns on 3'-6" dia. drilled shafts. Hoops are #4 @ 12". Longitudinal bars insert 5'-0" into drilled shafts. Max. span length = 42'.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit 55 columns built in 1967 (on drilled shaft, 3' dia.)

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 21
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year: 2014
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$964,887.00

Estimated Total Retrofit Project Cost: \$1,929,774.00

Washington State Department of Transportation

Bridge Seismic Retrofit Information

Structure ID: 0007741R		Bridge Name: S-E RAMP WB LANES		Route: 5	Milepost: 162.99	Region: Northwest	
Bridge Number: 005/537N						County: King	
Location: 5.5 N JCT SR 900		Longitude: 122 19 6 "	Latitude: 47 34 24 "	Structure Length: 2885 ft.		Out to Out Width: 32.6 ft.	
Feature Intersected: I-5		PGA (500 yr): 33.41 %g	PGA (1000 yr): 46.0% %g	Span Type: CBox		Main Spans: 34 Appr. Spans: 0	
Year Built: 1967	ADT: 43328	Detour Length: 99 miles	Skew Angle: 0	Pier Type: Single Column Pier		Footing Type: Concrete Pile	
Year Rebuilt: 0	Truck Pct: 5 %						
<div style="display: flex; justify-content: space-around; font-size: 2em; font-weight: bold; opacity: 0.5;"> No Photo Available No Photo Available </div>							
Bridge Notes: Piers 2 thru 9, each has a 5' diameter column on 6' diameter drilled shaft. Piers 10 and 11, each has two 4' diameter column on 5' diameter drilled shaft. Piers 12 thru 17, each has a 5' diameter column on 6' diameter drilled shaft. Pier 18 has two 5'-0" dia. columns on pile foundation. Pier 19 has three 5' dia. columns on pile foundations. Piers 20 and 21, each has three 4' dia. columns on pile foundations. Piers 22, 23,24, 25, each has two 4' dia. columns on pile foundations. Piers 24 and 26 has a 4' dia. columns on pile foundations. #4 Hoops @12". Splices at top of shafts or footings.				Retrofit Program Notes: Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.			
Completed Retrofit Notes:				Remaining Retrofit Notes: Retrofit columns built in 1967 at Piers 10, 11, 18-25, and 27-34. (42 total, 4' dia. except 2-5' dia. columns at Pier 18.)			
Overall Retrofit Status: P		Total Number of Columns:		09-11Rank: 41			
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:		Expected Start Year:			
Superstructure Retrofit Status: C							
Single Column Pier Status: C							
Multi Column Pier Status: R		DNR Liquefaction Susceptibility: Very Low					
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$1,272,892.50 Estimated Total Retrofit Project Cost: <u>\$2,545,785.00</u>					

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007741T		Bridge Name: EB LANES I-5 OC		Route: 5	Milepost: 163	Region: Northwest	
Bridge Number: 005/537S						County: King	
Location: 5.5 N JCT SR 900		Longitude: 122 19 6 "	Latitude: 47 34 18 "	Structure Length: 1793 ft.		Out to Out Width: 32.6 ft.	
Feature Intersected: I-5		PGA (500 yr): 33.42 %g	PGA (1000 yr): 46.0% %g	Span Type: CBox		Main Spans: 20 Appr. Spans: 0	
Year Built: 1966	ADT: 31525	Detour Length: 4 miles	Skew Angle: 0	Pier Type: Single Column Pier		Footing Type: Concrete Pile	
Year Rebuilt: 0	Truck Pct: 5 %						
No Photo Available							
Bridge Notes: Piers 2 thru 4, each has a 5' column on 6' shaft. Pier 5 has three 4' columns on 5' shafts. Piers 6 thru 9, each has two 4' columns on 5' shafts. Piers 10 thru 13, 17, 19 and 20, each has two 4' columns on pile footings. Piers 14 and 18, each has three 4' columns on pile footings. Piers 15, 16 and 21, each has a 5' column on pile footing. #4 hoops @ 12". Lap splices on either top of shafts or pile footings. No top mat.				Retrofit Program Notes: Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.			
Completed Retrofit Notes:				Remaining Retrofit Notes: Retrofit columns at Piers 5-14 and 17-20. (31 total, 4' dia.)			
Overall Retrofit Status: P		Total Number of Columns:		09-11Rank: 42			
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:		Expected Start Year:			
Superstructure Retrofit Status: C							
Single Column Pier Status: C							
Multi Column Pier Status: R		DNR Liquifaction Susceptibility: Very Low					
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$918,863.00 Estimated Total Retrofit Project Cost: <u>\$1,837,726.00</u>					

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007741C		Bridge Name: NB VIADUCT STA 2075		Route: 5	Milepost: 162.98	Region: Northwest	
Bridge Number: 005/538E						County: King	
Location: 5.6 N JCT SR 900		Longitude: 122 19 6 "	Latitude: 47 34 30 "	Structure Length: 872 ft.		Out to Out Width: 60.7 ft.	
Feature Intersected: NB VIADUCT STA 2075		PGA (500 yr): 33.39 %g	PGA (1000 yr): 45.9% %g	Span Type: CS		Main Spans: 21 Appr. Spans: 0	
Year Built: 1966	ADT: 98500	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns	Footing Type: Drilled shaft		
Year Rebuilt: 1992	Truck Pct: 15 %						



Bridge Notes:

Max. span length = 45'. 4 columns per pier. Retrofit columns built in 1966 only (three west columns per pier). Piers 11 thru 15, each has three 4' dia. columns on 5' dis. drilled shafts. Piers 2 thru 9 and 16 thru 21, each has three 3' dia. columns on 3'-6" dia. drilled shafts. #4 hoops @ 12". Piers 10 thru 17 have horizontal struts.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 thru 21. (3 ea. 60 total, 3' dia. except P11-P15 3-4' dia. ea.)

Overall Retrofit Status: P	Total Number of Columns:	09-11 Rank: 22
Special Br. Retrofit Status:	No. of Wet Retrofitted Columns:	Expected Start Year: 2014
Superstructure Retrofit Status: C		
Single Column Pier Status: N		
Multi Column Pier Status: R	DNR Liquifaction Susceptibility: Very Low	
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$1,437,859.50 Estimated Total Retrofit Project Cost: <u>\$2,875,719.00</u>	

Washington State Department of Transportation

Bridge Seismic Retrofit Information

Structure ID: 0007741E		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/539E		NB VIADUCT STA 2085		5	163.24	County: King
Location: 5.8 N JCT SR 900		Longitude: ° ' " 122 19 10.9	Latitude: ° ' " 47 34 34	Structure Length: 5825 ft.		Out to Out Width: 73 ft.
Feature Intersected: NB VIADUCT STA 2085		PGA (500 yr): 33.39 %g	PGA (1000 yr): 45.9% %g	Span Type: CS		Main Spans: 138 Appr. Spans: 0
Year Built: 1966	ADT: 98500	Detour Length: 1 miles	Skew Angle: 0	Pier Type: Pier with more than two columns		Footing Type: Drilled shaft
Year Rebuilt: 1992	Truck Pct: 15 %					
No Photo Available						
No Photo Available						
Bridge Notes: Retrofit columns built in 1966 only. Piers 2 thru 10, each has five 3' columns on 4' shafts. Piers 11, 12, 95 thru 103 and 114 thru 127, each has five 3' columns on 3'-6" shafts. Piers 13 thru 94, each has four 3' columns on 3'-6" shafts. Piers 104 thru 114, each has six 3' columns on 3'-6" shafts. Piers 115 thru 120 and 128 thru 138, each has three 3' columns on 3'-6" shafts. #4 hoops @12". Horizontal struts at piers 15 thru 19 and 56 thru 78. Lap splices at top of drilled shafts and top of horizontal struts.			Retrofit Program Notes: Columns of bridge 5/539NCD are to be included with this bridge. Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.			
Completed Retrofit Notes:			Remaining Retrofit Notes: Retrofit 577 columns. (includes bridge 5/539NCD, 3' dia.)			
Overall Retrofit Status:	P	Total Number of Columns:		09-11Rank:	23	
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:		Expected Start Year:	2016	
Superstructure Retrofit Status:	C					
Single Column Pier Status:	N					
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility: Very Low				
C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress		Estimated Total Bridge Item Cost: \$8,584,246.00 Estimated Total Retrofit Project Cost: <u>\$17,168,492.00</u>				

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007741D		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 005/539W		SB VIADUCT STA 2075		5	162.98	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
5.8 N JCT SR 900		122 19 6 "	47 34 30 "	6622 ft.		71 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 157	
SB VIADUCT STA 2075		33.39 %g	45.9% %g	CS	Appr. Spans: 0	
Year Built: 1967	ADT: 98500	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 1992	Truck Pct: 15 %	1 miles	0	Pier with more than two columns	Drilled shaft	



Bridge Notes:

Columns on drilled shafts. Contract 7741: Piers 2 thru 10, 16 thru 30, retrofit four columns each pier (3' dia. column on 3'-6" dia. drilled shaft), pier 11 thru 15, (four 4' dia. column on 5'-0" dia. drilled shaft). Piers 9 thru 18 have horizontal struts. Contract 7686: piers 25 thru 152, 3' dia. Columns except East columns at Piers 146 thru 152 are 4' diameter. Max. span =42'.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at piers 2 thru 152 (628 total, 3' dia. except P11-P15, 2-4' dia. ea.).

Overall Retrofit Status:	P	Total Number of Columns:	09-11Rank: 24
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:
Superstructure Retrofit Status:	C		
Single Column Pier Status:	N		
Multi Column Pier Status:	R	DNR Liquifaction Susceptibility:	Very Low

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$9,794,911.50 Estimated Total Retrofit Project Cost: <u>\$19,589,823.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006080A		Bridge Name: LAKE WASH SHIP CANAL		Route: 5	Milepost: 169.63	Region: Northwest	
Bridge Number: 005/570						County: King	
Location: 0.7 N JCT SR 520		Longitude: 122 19 18 "	Latitude: 47 39 12 "	Structure Length: 4429 ft.		Out to Out Width: 182 ft.	
Feature Intersected: LAKE WASH SHIP CANAL		PGA (500 yr): 32.05 %g	PGA (1000 yr): 42.4% %g	Span Type: STrus CBox CS		Main Spans: 6 Appr. Spans: 28	
Year Built: 1962	ADT: 200000	Detour Length: 2 miles	Skew Angle: 0	Pier Type: Double Column Pier		Footing Type:	
Year Rebuilt: 0	Truck Pct: 15 %						

No Photo Available



Bridge Notes:

N.B.: Piers 2, 3, 4, 6, 7, 8, each has three 2'-6" sq. columns (E. cols w/2hinges). Pier 5 has three Split columns (2-2'6"x1'9"&2" gap, E. col. has two hinges). Pier 9 has three Split columns (2'6"x1'9", 2'6"x2'3" &2" gap). S.B.: Piers 2, 3, 4, 6, 7, 8, each has three 2'-6" sq. columns (W. cols w/2hinges). Pier 5 has three Split columns (2-2'6"x1'9"&2" gap). Pier 9 has three Split columns (2'6"x1'9", 2'6"x2'3" &2" gap).

Retrofit Program Notes:

Stage 1 and 2 retrofit completed. Needs Site visit to confirm number of columns to be retrofit in stage 3.

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

1. Stage 1: 11/94, Contract 14599. Install longitudinal restrainers, column bumpers, column restrainers at Piers 18 and 24. Install longitudinal restrainers, compression bumpers, and bearing collars at piers 19, 20, and 23. Install bearing collars at pier 21. Install bearing collars and longitudinal restrainers at pier 22. Reinforce bottom chord connections at panel points L1 and L2.
2. Stage 2: 05/99, Contract 15641. Install steel jackets for columns at piers 10 thru 18, 24 thru 31. Modify columns and replace

Remaining Retrofit Notes:

Stage 3. Retrofit columns at SB Piers 2-9, 30-32 and NB Piers 31-34 (35 total, column size vary).

Overall Retrofit Status:	P	Total Number of Columns:	5	09-11Rank:	5
Special Br. Retrofit Status:	P	No. of Wet Retrofitted Columns:		Expected Start Year:	2012
Superstructure Retrofit Status:	N				
Single Column Pier Status:	N				
Multi Column Pier Status:	N	DNR Liquifaction Susceptibility:	high		

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	<p>Estimated Total Bridge Item Cost: \$2,479,911.50</p> <p>Estimated Total Retrofit Project Cost: <u>\$4,959,823.00</u></p>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0005492A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 009/128		GETCHELL BRIDGE		9	21.09	County: Snohomish
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
1.8 N JCT SR 528		122 6 36"	48 4 48"	243 ft.		34.6 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
PEDESTRAIN TRAIL		26.01 %g	34.1% %g	CBox	Appr. Spans: 0	
Year Built: 1957	ADT: 12000	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 0	Truck Pct: 15 %	6 miles	0	Single Column Pier		



Bridge Notes:

Piers 2 and 3, each has a 5'-0" diameter column. These columns have #4 hoops @ 12". Vertical #11 bars have 2'-4" min. lap splices at top of footing. Footing without top mat. End piers, 1 and 4, each has two 30" square columns with hinges at top of columns.

Retrofit Program Notes:

Retrofit programmed under PIN 100923C

Completed Retrofit Notes:

Remaining Retrofit Notes:

Install Column Jacket at Piers 2 and 3. Excavate to top of Footings.

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank:	1
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2009
Superstructure Retrofit Status:	N			
Single Column Pier Status:	R			
Multi Column Pier Status:	N	DNR Liquifaction Susceptibility:	Very Low	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$81,306.50

Estimated Total Retrofit Project Cost: \$162,613.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007967A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 099/507E		SR 599 OC		99	22.94	County: King
Location: 2.4 N JCT SR 518		Longitude: 122 17 35.6 "	Latitude: 47 29 49 "	Structure Length: 263 ft.		Out to Out Width: 26.4 ft.
Feature Intersected: SR 599		PGA (500 yr): 33.39 %g	PGA (1000 yr): 45.9% %g	Span Type: PCG		Main Spans: 3 Appr. Spans: 0
Year Built: 1966	ADT: 4973	Detour Length: 2 miles	Skew Angle: 99	Pier Type: Double Column Pier		Footing Type: Concrete Pile
Year Rebuilt: 0	Truck Pct: 5 %					



No Photo Available

Bridge Notes:

Intermediate Piers 2 and 3, each has two 3'-0" diameter columns on pile footings. These columns have #4 hoops @ 12". Vertical #11 bars have 4'-2" lap splices at top of footing. Footing without top mat. End piers, 1 and 4, are "L" abutments on piles.

Retrofit Program Notes:

Engineering analysis is needed to determine which elements of the bridge require retrofit. Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Retrofit columns at Piers 2 and 3. (2 ea. 4 total, 3' dia.)

Overall Retrofit Status:

P

Total Number of Columns:

09-11Rank:

1

Special Br. Retrofit Status:

No. of Wet Retrofitted Columns:

Expected Start Year:

Superstructure Retrofit Status:

C

Single Column Pier Status:

N

Multi Column Pier Status:

R

DNR Liquifaction Susceptibility: Moderate to High

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$91,976.50

Estimated Total Retrofit Project Cost: \$183,953.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0009236D		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 167/111W-N		W-N RAMP N-E RAMP OC		167	14.28	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
2.7 N PIERCE CO		122 15 12	47 17 54	273 ft.		29.5 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
SR 167		30.81 %g	40.4% %g	CBox	Appr. Spans: 0	
Year Built: 1975	ADT: 10555	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 0	Truck Pct: 5 %	1 miles	0	Single Column Pier	Timber pile	



Bridge Notes:

Intermediate Piers, Piers 2 and 3, each has a 5'-0" diameter column on pile footing. #4 hoops spaced at 12" spacing. Vertical #18 bars have staggered field weld splices at 6'-7" above top of footings. Footings have no top mat. End Piers 1 and 4 are stub abutments.

Retrofit Program Notes:

SR 167 - 15th Street SW to 15th Street NW - HOV Nickel Project. Retrofit programmed under PIN 116703T. This bridge was renumbered from 167/112N-E.

Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

The bridge number changed from 167/112N-E. 15th Ave SW to 15th NW HOV Lanes - Stage 3. N-E /W-N Ramp U'x 167/112N-E Widening & Column Seismic Retrofit. Br. Office Shelf.

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank:	1
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2009
Superstructure Retrofit Status:	N			
Single Column Pier Status:	R			
Multi Column Pier Status:	N	DNR Liquifaction Susceptibility:	Moderate to High	

C=Complete P=Partially Complet R=Required N=Not Required D=Differed X=Excluded I=In Progress	Estimated Total Bridge Item Cost: \$87,637.00 Estimated Total Retrofit Project Cost: <u>\$175,274.00</u>
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Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0007789A		Bridge Name:		Route:	Milepost:	Region: Northwest
Bridge Number: 410/115		SCATTER CR		410	31.06	County: King
Location:		Longitude:	Latitude:	Structure Length:		Out to Out Width:
6.2 E JCT SR 164		° ' "	° ' "	250 ft.		32.6 ft.
Feature Intersected:		PGA (500 yr):	PGA (1000 yr):	Span Type:	Main Spans: 3	
SCATTER CR		26.68 %g	35.3% %g	PCG	Appr. Spans: 0	
Year Built: 1965	ADT: 2958	Detour Length:	Skew Angle:	Pier Type:	Footing Type:	
Year Rebuilt: 0	Truck Pct: 16 %	99 miles	0	Single Column Pier		



Bridge Notes:

End piers 1 and 4 are on 45 ton steel pile bents. Intermediate Piers, Piers 2 and 3, each has a 5'-0" diameter column on spread footing. #4 hoops spaced at 12" spacing. Vertical #11 bars have 4'-2" lap splices at top of footings. Footings have no top mat.

Retrofit Program Notes:

Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Install Column Jacket at Piers 2 and 3. Excavate to top of Footings. Replace Riprap.

Overall Retrofit Status:	R	Total Number of Columns:	09-11Rank:	4
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	Expected Start Year:	2010
Superstructure Retrofit Status:	N			
Single Column Pier Status:	R			
Multi Column Pier Status:	N	DNR Liquifaction Susceptibility:	Moderate to High	

C=Complete P=Partially Complet

R=Required N=Not Required

D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$175,543.50

Estimated Total Retrofit Project Cost: \$351,087.00

Washington State Department of Transportation Bridge Seismic Retrofit Information

Structure ID: 0006980B		Bridge Name: SNOHOMISH R		Route: 522	Milepost: 20.5	Region: Northwest
Bridge Number: 522/138						County: Snohomish
Location: 6.6 E JCT SR 9		Longitude: 122 2 56.6	Latitude: 47 49 51.8	Structure Length: 1679 ft.		Out to Out Width: 35.6 ft.
Feature Intersected: SNOHOMISH R		PGA (500 yr): 27.67 %g	PGA (1000 yr): 36.3% %g	Span Type: SG CBox	Main Spans: 2 Appr. Spans: 7	
Year Built: 1963	ADT: 17027	Detour Length: 14 miles	Skew Angle: 0	Pier Type: Single Column Pier		Footing Type:
Year Rebuilt: 0	Truck Pct: 7 %					



Bridge Notes:

Pier 1 is spill through abutment with two 3'-6" x 3'-3" columns on spread footings. Columns have hinge at top. Piers 2 thru 9 are on spread Piers 2 and 4, each has a 8'-0" dia. Column with #5 hoops @ 6". Piers 5, 6 and 7, each has a 7'-0" dia. column with #4 hoops @ 6". Piers 8 and 9, each has a 6'-0" dia. column with #4 hoops @ 6". Pier 3 has a 10'-0" dia. column with # 6 hoops @ 12". All columns are on spread footings. Vertical bars have staggered field weld splices. Footings have no top mat. In span hinges at spans 2 and 3.

Retrofit Program Notes:

Seismic work needs to be coordinated with Snohomish River Bridge to SR2, Stage 5A Project that will build a parallel bridge. Retrofit programmed under PIN 152236A

Cost estimate is based on retrofitting the existing columns with steel jackets.

Completed Retrofit Notes:

Remaining Retrofit Notes:

Overall Retrofit Status:	P	Total Number of Columns:	1	09-11Rank:	1
Special Br. Retrofit Status:		No. of Wet Retrofitted Columns:	3	Expected Start Year:	2012
Superstructure Retrofit Status:	C				
Single Column Pier Status:	R				
Multi Column Pier Status:	N	DNR Liquifaction Susceptibility:	Moderate to High		

C=Complete P=Partially Complet
R=Required N=Not Required
D=Differed X=Excluded I=In Progress

Estimated Total Bridge Item Cost: \$1,129,095.00
Estimated Total Retrofit Project Cost: \$2,258,190.00