

Sellwood Bridge - Results of Criteria Contributions to Total Score and Rank

August 20, 2007

Alternatives						Criteria Categories										Updated Weights Decision Score	Updated Weights Ranking
Cross Section	Alignment	Interchange Type	2,3,4 lane	Rehab vs. replace	Differentiation	1. Aesthetics	2. Bike and Ped	3. Community Qual of Life	4. Auto, Freight, Emgerncy Veh.	5. Construction	7. Natural Env.	8. Material Use	9. Mass Transit	10. Seismic	6. Cost		
						8	15	18	16	8	8	3	11	6	7	100	
1	D	Purple	Signal	Transit	Replace	4.59	10.24	12.90	11.08	4.12	6.05	0.00	11.00	6.00	5.20	71.18	1
2	D	Yellow South	Signal	Transit	Replace	4.59	11.20	10.51	11.08	4.94	6.51	0.00	11.00	6.00	5.33	71.16	2
3	C'	Purple	Signal	2	Replace	6.00	13.13	14.58	7.04	5.42	6.05	0.00	5.13	6.00	5.07	68.40	3
4	C	Purple	Signal	2	Replace	6.00	13.08	14.58	6.18	5.42	6.05	0.00	5.13	6.00	5.35	67.77	4
5	D	Blue	Signal	Transit	Replace	4.59	9.33	10.92	11.08	4.12	6.51	0.00	11.00	6.00	4.04	67.58	5
6	C'	Yellow South	Signal	2	Replace	6.00	14.09	12.18	7.04	5.42	6.51	0.00	5.13	6.00	5.17	67.54	6
7	C	Yellow South	Signal	2	Replace	6.00	14.04	12.18	6.18	5.42	6.51	0.00	5.13	6.00	5.44	66.89	7
8	D	Purple	Roundabout	Transit	Replace	5.31	8.41	12.90	11.08	4.12	6.05	0.00	8.27	6.00	4.53	66.67	8
9	D	Teal	Signal	Transit	Replace	4.49	6.59	12.80	11.08	6.23	3.29	0.00	11.00	6.00	4.96	66.43	9
10	F	Yellow South	Signal	3	Replace	4.59	13.13	7.68	12.74	4.94	6.51	0.00	6.14	6.00	4.66	66.38	10
11	F	Purple	Signal	3	Replace	4.59	13.13	10.08	12.74	4.12	4.92	0.00	6.14	6.00	4.51	66.21	11
12	K	Purple	Signal	4	Replace	2.72	11.16	10.59	14.19	4.12	7.18	0.00	5.39	6.00	4.86	66.20	12
13	D	Pink	Signal	Transit	Replace	4.49	5.67	10.94	11.08	6.23	4.59	0.00	11.00	6.00	5.19	65.19	13
14	D	Yellow South	Roundabout	Transit	Replace	5.31	7.50	10.51	11.08	4.94	6.51	0.00	8.27	6.00	4.63	64.74	14
15	C'	Blue	Signal	2	Replace	6.00	12.21	12.55	7.04	5.42	6.51	0.00	5.13	6.00	3.88	64.73	15
16	D	Yellow South	Signal	Transit	Truss Replace	3.21	10.29	10.66	11.08	4.94	5.44	3.00	11.00	3.00	2.10	64.72	16
17	C'	Purple	Roundabout	2	Replace	6.72	11.30	14.58	7.04	5.42	6.05	0.00	2.72	6.00	4.60	64.41	17
18	K	Teal	Signal	4	Replace	2.62	10.24	10.49	14.19	6.23	4.42	0.00	5.39	6.00	4.60	64.17	18
19	C	Blue	Signal	2	Replace	6.00	12.16	12.55	6.18	5.42	6.51	0.00	5.13	6.00	4.14	64.08	19
20	E	Purple	Signal	4	Replace	4.59	5.48	10.08	15.14	4.12	6.05	0.00	7.47	6.00	5.01	63.93	20
21	C	Purple	Roundabout	2	Replace	6.72	11.25	14.58	6.18	5.42	6.05	0.00	2.72	6.00	4.85	63.76	21
22	A'	Purple	Signal	2	Replace	6.69	8.37	14.58	3.17	6.23	7.18	0.00	5.13	6.00	6.27	63.61	22
23	D	Pink	Roundabout	Transit	Replace	5.21	6.63	10.94	11.08	6.23	4.59	0.00	8.27	6.00	4.55	63.51	23
24	K	Blue	Signal	4	Replace	2.72	10.24	9.15	14.19	4.12	7.64	0.00	5.39	6.00	3.72	63.17	24
25	F	Purple	Roundabout	3	Replace	5.31	11.30	10.08	12.74	4.12	6.05	0.00	3.40	6.00	4.08	63.07	25
26	D	Blue	Roundabout	Transit	Replace	5.31	7.50	10.92	11.08	4.12	6.51	0.00	8.27	6.00	3.33	63.04	26
27	E	Yellow South	Signal	4	Replace	4.59	5.48	7.68	15.14	4.94	6.51	0.00	7.47	6.00	5.16	62.96	27
28	F	Blue	Signal	3	Replace	4.59	12.21	8.09	12.74	4.12	5.38	0.00	6.14	6.00	3.37	62.63	28
29	F	Teal	Signal	3	Replace	4.49	9.47	9.98	12.74	6.23	3.29	0.00	6.14	6.00	4.31	62.63	29
30	K	Yellow South	Signal	4	Replace	2.72	9.38	8.22	14.19	4.94	6.51	0.00	5.39	6.00	5.03	62.37	30
31	D	Teal	Roundabout	Transit	Replace	5.21	5.72	12.29	11.08	6.23	3.29	0.00	8.27	6.00	4.21	62.30	31
32	C'	Teal	Signal	2	Replace	5.90	9.47	13.31	7.04	6.71	3.29	0.00	5.13	6.00	4.90	61.74	32
33	C'	Yellow South	Roundabout	2	Replace	6.72	10.38	12.18	7.04	5.42	6.51	0.00	2.72	6.00	4.75	61.72	33
34	K	Purple	Roundabout	4	Replace	3.45	9.33	10.43	14.19	4.12	7.18	0.00	2.66	6.00	4.22	61.57	34
35	F	Pink	Signal	3	Replace	4.49	8.56	8.12	12.74	6.23	4.59	0.00	6.14	6.00	4.53	61.39	35
36	F	Yellow South	Roundabout	3	Replace	5.31	10.38	7.68	12.74	4.94	6.51	0.00	3.40	6.00	4.24	61.21	36
37	C	Teal	Signal	2	Replace	5.90	9.42	13.31	6.18	6.71	3.29	0.00	5.13	6.00	5.18	61.11	37
38	A	Yellow South	Roundabout	2	Rehab	6.72	10.34	12.18	6.18	5.42	6.51	0.00	2.72	6.00	4.99	61.05	38
39	C'	Blue	Roundabout	2	Replace	6.72	10.38	12.55	7.04	5.42	6.51	0.00	2.72	6.00	3.46	60.79	39
40	K	Yellow South	Signal	4	Truss Replace	2.03	11.20	8.38	14.19	4.94	6.57	3.00	5.39	3.00	2.05	60.75	40
41	A'	Yellow South	Signal	2	Replace	6.69	9.33	12.21	3.17	6.71	7.64	0.00	5.13	6.00	3.74	60.62	41
42	E	Blue	Signal	4	Replace	4.59	4.57	8.09	15.14	4.12	6.51	0.00	7.47	6.00	3.86	60.34	42
43	C	Blue	Roundabout	2	Replace	6.72	10.34	12.55	6.18	5.42	6.51	0.00	2.72	6.00	3.70	60.12	43
44	C'	Pink	Signal	2	Replace	5.90	8.56	10.94	7.04	6.71	4.59	0.00	5.13	6.00	5.13	60.00	44
45	C'	Yellow South	Signal	2	Truss Replace	3.93	13.17	12.34	7.04	4.94	5.44	3.00	5.13	3.00	1.96	59.94	45
46	K	Pink	Signal	4	Replace	2.62	6.59	8.12	14.19	6.23	5.72	0.00	5.39	6.00	4.91	59.77	46

The colors on this spreadsheet indicate which alternatives scored well (yellow) and very well (green) within each category of criteria. The numbers were rounded to the nearest hundredth.

	Cross Section	Alignment	Interchange Type	2,3,4 lane	Rehab vs. replace	Differentiation	1. Aesthetics	2. Bike and Ped	3. Community Qual of Life	4. Auto, Freight, Emgerncy Veh.	5. Construction	7. Natural Env.	8. Material Use	9. Mass Transit	10. Seismic	6. Cost	Updated Weights Decision Score	Updated Weights Ranking
47	C	Yellow South	Signal	2	Truss Replace		3.93	13.13	12.34	6.18	5.42	5.44	3.00	5.13	3.00	2.20	59.75	47
48	F	Blue	Roundabout	3	Replace		5.31	10.38	8.09	12.74	4.12	6.51	0.00	3.40	6.00	2.95	59.51	48
49	A'	Purple	Roundabout	2	Replace		7.41	6.54	14.58	3.17	6.23	7.18	0.00	2.72	6.00	5.68	59.51	49
50	E	Purple	Roundabout	4	Replace		5.31	3.66	10.08	15.14	4.12	6.05	0.00	4.73	6.00	4.36	59.44	50
51	C	Pink	Signal	2	Replace		5.90	8.51	10.94	6.18	6.71	4.59	0.00	5.13	6.00	5.41	59.37	51
52	D	Yellow South	Roundabout	Transit	Truss Replace		3.93	7.50	10.66	11.08	4.94	5.44	3.00	8.27	3.00	1.36	59.18	52
53	E	Teal	Signal	4	Replace		4.49	1.83	9.98	15.14	6.23	3.29	0.00	7.47	6.00	4.76	59.17	53
54	F	Pink	Roundabout	3	Replace		5.21	8.56	8.12	12.74	6.23	4.59	0.00	3.40	6.00	4.15	59.00	54
55	F	Yellow South	Signal	3	Truss Replace		3.21	12.21	7.84	12.74	4.94	4.31	3.00	6.14	3.00	1.50	58.88	55
56	A'	Blue	Signal	2	Replace		6.69	7.45	12.58	3.17	6.23	6.51	0.00	5.13	6.00	5.02	58.78	56
57	K	Yellow South	Roundabout	4	Replace		3.45	8.41	8.22	14.19	4.94	6.51	0.00	2.66	6.00	4.35	58.73	57
58	E	Pink	Signal	4	Replace		4.49	0.91	8.12	15.14	6.23	4.59	0.00	7.47	6.00	4.99	57.93	58
59	N	Purple	Signal	4	Existing as Bike/Ped, New Bridge		2.62	9.38	8.30	14.19	3.64	6.46	3.00	5.07	3.00	2.28	57.93	59
60	F	Teal	Roundabout	3	Replace		5.21	7.64	9.47	12.74	6.23	3.29	0.00	3.40	6.00	3.82	57.79	60
61	C	Teal	Roundabout	2	Replace		6.62	7.60	12.80	6.18	6.71	4.42	0.00	2.72	6.00	4.61	57.64	61
62	C'	Pink	Roundabout	2	Replace		5.93	8.56	10.94	7.04	6.71	4.95	0.00	2.72	6.00	4.70	57.54	62
63	K	Blue	Roundabout	4	Replace		3.45	8.41	9.15	14.19	4.12	6.51	0.00	2.66	6.00	3.05	57.54	63
64	E	Yellow South	Roundabout	4	Replace		5.31	2.74	7.68	15.14	4.94	6.51	0.00	4.73	6.00	4.47	57.52	64
65	K	Pink	Roundabout	4	Replace		3.34	6.59	8.12	14.19	6.23	6.08	0.00	2.66	6.00	4.32	57.52	65
66	K	Teal	Roundabout	4	Replace		3.34	6.54	9.98	14.19	6.23	4.42	0.00	2.66	6.00	3.90	57.25	66
67	C'	Teal	Roundabout	2	Replace		6.62	7.64	12.80	7.04	6.71	3.29	0.00	2.72	6.00	4.36	57.18	67
68	A'	Teal	Signal	2	Replace		6.59	4.71	13.31	3.17	7.53	4.42	0.00	5.13	6.00	6.09	56.94	68
69	C	Pink	Roundabout	2	Replace		5.93	8.51	10.94	6.18	6.71	4.95	0.00	2.72	6.00	4.94	56.88	69
70	E	Yellow South	Signal	4	Truss Replace		3.21	4.57	7.84	15.14	4.94	5.44	3.00	7.47	3.00	1.93	56.52	70
71	N	Teal	Signal	4	Existing as Bike/Ped, New Bridge		2.62	9.38	8.55	14.19	5.27	4.06	3.00	4.04	3.00	2.00	56.10	71
72	L	Yellow Center	Signal	2	Rehab	w/ bridge detour	3.93	8.41	11.62	4.12	7.53	6.74	3.00	5.13	1.50	3.92	55.90	72
73	A'	Blue	Roundabout	2	Replace		7.41	5.63	12.58	3.17	6.23	7.64	0.00	2.72	6.00	4.47	55.84	73
74	E	Blue	Roundabout	4	Replace		5.31	2.74	8.09	15.14	4.12	6.51	0.00	4.73	6.00	3.18	55.82	74
75	N	Purple	Roundabout	4	Existing as Bike/Ped, New Bridge		3.34	9.38	8.30	14.19	3.64	6.46	3.00	2.98	3.00	1.46	55.75	75
76	F	Yellow South	Roundabout	3	Truss Replace		3.93	10.38	7.84	12.74	4.94	5.44	3.00	3.40	3.00	1.02	55.69	76
77	E	Pink	Roundabout	4	Replace		5.21	0.91	8.12	15.14	6.23	4.59	0.00	4.73	6.00	4.38	55.31	77
78	A	Yellow Center	Signal	2	Rehab	w/ bridge detour	3.93	8.41	11.66	3.17	7.53	6.74	3.00	5.13	1.50	4.07	55.13	78
79	C'	Yellow South	Roundabout	2	Truss Replace		4.65	10.38	12.34	7.04	4.94	5.44	3.00	2.72	3.00	1.48	54.99	79
80	N	Pink	Signal	4	Existing as Bike/Ped, New Bridge		2.62	7.55	5.98	14.19	5.27	5.72	3.00	5.39	3.00	2.26	54.98	80
81	C	Yellow South	Roundabout	2	Truss Replace		4.65	10.34	12.34	6.18	5.42	5.44	3.00	2.72	3.00	1.69	54.77	81
82	A'	Yellow South	Roundabout	2	Replace		7.41	5.63	12.21	3.17	6.71	7.64	0.00	2.72	6.00	3.19	54.67	82
83	N	Teal	Roundabout	4	Existing as Bike/Ped, New Bridge		3.34	9.38	8.55	14.19	5.27	4.06	3.00	2.66	3.00	1.10	54.55	83
84	A'	Pink	Signal	2	Replace		5.90	3.80	10.94	3.17	7.53	5.72	0.00	5.13	6.00	6.33	54.51	84
85	L	Yellow Center	Signal	2	Rehab	w/ bridge detour and phase 2 seismic	3.93	8.41	11.62	4.12	7.05	6.38	3.00	5.13	3.00	1.84	54.49	85
86	K	Yellow South	Roundabout	4	Truss Replace		2.76	8.41	8.38	14.19	4.94	5.44	3.00	2.66	3.00	1.34	54.11	86

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	Cross Section	Alignment	Interchange Type	2,3,4 lane	Rehab vs. replace	Differentiation	1. Aesthetics	2. Bike and Ped	3. Community Qual of Life	4. Auto, Freight, Emgerncy Veh.	5. Construction	7. Natural Env.	8. Material Use	9. Mass Transit	10. Seismic	6. Cost	Updated Weights Decision Score	Updated Weights Ranking
87	E	Teal	Roundabout	4	Replace		5.21	0.00	9.47	15.14	6.23	3.29	0.00	4.73	6.00	4.05	54.11	87
88	A	Yellow Center	Signal	2	Rehab	w/ bridge detour and phase 2 seismic	3.93	8.41	11.66	3.17	7.05	6.38	3.00	5.13	3.00	1.98	53.71	88
89	A'	Pink	Roundabout	2	Replace		6.62	4.76	10.94	3.17	7.53	6.08	0.00	2.72	6.00	5.75	53.56	89
90	N	Blue	Signal	4	Existing as Bike/Ped, New Bridge		2.03	9.38	6.01	14.19	3.64	5.80	3.00	5.39	3.00	0.86	53.30	90
91	L	Yellow Center	Signal	2	Rehab		3.93	8.41	12.38	4.12	1.44	6.74	3.00	5.13	1.50	6.61	53.25	91
92	N	Pink	Roundabout	4	Existing as Bike/Ped, New Bridge		3.34	7.55	5.98	14.19	5.27	5.72	3.00	3.30	3.00	1.47	52.83	92
93	A	Yellow Center	Signal	2	Rehab		3.93	8.41	12.41	3.17	1.44	6.74	3.00	5.13	1.50	6.76	52.49	93
94	N	Blue	Roundabout	4	Existing as Bike/Ped, New Bridge		2.76	9.38	6.01	14.19	3.64	5.80	3.00	4.68	3.00	0.02	52.46	94
95	A'	Teal	Roundabout	2	Replace		7.31	2.88	12.80	3.17	7.53	4.42	0.00	2.72	6.00	5.40	52.23	95
96	L	Yellow Center	Roundabout	2	Rehab	w/ bridge detour	4.65	5.63	11.62	4.12	7.53	7.29	3.00	2.72	1.50	4.17	52.21	96
97	E	Yellow South	Roundabout	4	Truss Replace		3.93	2.74	7.84	15.14	4.94	5.44	3.00	4.73	3.00	1.21	51.97	97
98	I	Yellow Center	Signal	2	Rehab	w/ bridge detour	2.03	7.36	12.03	3.17	7.53	7.29	3.00	3.70	1.50	4.31	51.91	98
99	L	Yellow Center	Signal	2	Rehab	w/ phase 2 seismic	3.93	8.41	12.38	4.12	0.96	6.38	3.00	5.13	3.00	4.53	51.84	99
100	A'	Yellow South	Signal	2	Truss Replace		3.93	8.41	12.37	3.17	6.23	5.44	3.00	5.13	3.00	1.03	51.71	100
101	A	Yellow Center	Signal	2	Rehab	w/ phase 2 seismic	3.93	8.41	12.41	3.17	0.96	6.38	3.00	5.13	3.00	4.67	51.06	101
102	A	Yellow Center	Roundabout	2	Rehab	w/ bridge detour	4.65	5.63	11.66	3.17	7.53	7.29	3.00	2.72	1.50	3.45	50.59	102
103	I	Yellow Center	Signal	2	Rehab	w/ bridge detour and phase 2 seismic	2.03	7.36	12.03	3.17	7.05	6.93	3.00	3.70	3.00	2.23	50.49	103
104	L	Yellow Center	Roundabout	2	Rehab	w/ bridge detour and phase 2 seismic	4.65	5.63	11.62	4.12	7.05	6.93	3.00	2.72	3.00	1.23	49.94	104
105	M	Purple	Signal	2	Existing as Bike/Ped, New Bridge		2.62	9.38	9.96	5.08	3.64	6.46	3.00	3.05	3.00	3.12	49.30	105
106	I	Yellow Center	Signal	2	Rehab		2.03	7.36	12.78	3.17	1.44	7.29	3.00	3.70	1.50	7.00	49.26	106
107	A	Yellow Center	Roundabout	2	Rehab	w/ bridge detour and phase 2 seismic	4.65	5.63	11.66	3.17	7.05	6.93	3.00	2.72	3.00	1.37	49.17	107
108	L	Yellow Center	Roundabout	2	Rehab		4.65	5.63	12.38	4.12	1.44	7.29	3.00	2.72	1.50	6.00	48.71	108
109	M	Teal	Signal	2	Existing as Bike/Ped, New Bridge		2.62	9.38	10.21	5.08	5.27	5.19	3.00	2.02	3.00	2.91	48.68	109
110	A	Yellow Center	Roundabout	2	Rehab		4.65	5.63	12.41	3.17	1.44	7.29	3.00	2.72	1.50	6.14	47.94	110
111	I	Yellow Center	Signal	2	Rehab	w/ phase 2 seismic	2.03	7.36	12.78	3.17	0.96	6.93	3.00	3.70	3.00	4.91	47.84	111
112	M	Pink	Signal	2	Existing as Bike/Ped, New Bridge		2.62	7.55	7.64	5.08	5.27	6.85	3.00	3.38	3.00	3.12	47.51	112
113	A'	Yellow South	Roundabout	2	Truss Replace		4.65	5.63	12.37	3.17	6.23	6.57	3.00	2.72	3.00	0.00	47.33	113
114	L	Yellow Center	Roundabout	2	Rehab	w/ phase 2 seismic	4.65	5.63	12.38	4.12	0.96	6.93	3.00	2.72	3.00	3.91	47.29	114

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115	M	Purple	Roundabout	2	Existing as Bike/Ped, New Bridge		3.34	9.38	9.96	5.08	3.64	6.46	3.00	0.96	3.00	2.42	47.23	115
116	M	Teal	Roundabout	2	Existing as Bike/Ped, New Bridge		3.34	9.38	10.21	5.08	5.27	5.19	3.00	0.64	3.00	2.09	47.21	116
117	I	Yellow Center	Roundabout	2	Rehab	w/ bridge detour	2.76	4.57	12.03	3.17	7.53	7.29	3.00	1.29	1.50	3.67	46.79	117
118	A	Yellow Center	Roundabout	2	Rehab	w/ phase 2 seismic	4.65	5.63	12.41	3.17	0.96	6.93	3.00	2.72	3.00	4.05	46.51	118
119	M	Blue	Signal	2	Existing as Bike/Ped, New Bridge		2.03	9.38	7.70	5.08	3.64	6.93	3.00	3.38	3.00	1.62	45.75	119
120	M	Pink	Roundabout	2	Existing as Bike/Ped, New Bridge		3.34	7.55	7.64	5.08	5.27	6.85	3.00	1.29	3.00	2.42	45.44	120
121	I	Yellow Center	Roundabout	2	Rehab	w/ bridge detour and phase 2 seismic	2.76	4.57	12.03	3.17	7.05	6.93	3.00	1.29	3.00	1.59	45.37	121
122	M	Blue	Roundabout	2	Existing as Bike/Ped, New Bridge		2.76	9.38	7.70	5.08	3.64	6.93	3.00	2.66	3.00	0.95	45.08	122
123	I	Yellow Center	Roundabout	2	Rehab		2.76	4.57	12.78	3.17	1.44	7.29	3.00	1.29	1.50	6.36	44.14	123
124	I	Yellow Center	Roundabout	2	Rehab	w/ phase 2 seismic	2.76	4.57	12.78	3.17	0.96	6.93	3.00	1.29	3.00	4.27	42.72	124