

## <sup>1</sup> Appendix E. Local Operation Results

**Work in Progress – Not for Public Distribution**

## Performance Results

AM Peak Hour		2019 Existing Conditions									2045 No-Build								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)	Overall	3	A	0.34	LOS E	Y	-	-	-	Overall	3	A	0.34	LOS E	Y	-	-	-
2	Hazel Dell & Main Street (West) & stop controlled slip ramp	Overall	5	A	0.42	LOS D	Y	-	-	-	Overall	6	A	0.49	LOS D	Y	-	-	-
3	39th Street & Main Street	Overall	17	B	0.66	LOS E	Y	EBL/WBL/SBL	70/75/75	110/100/115	Overall	36	D	0.69	LOS E	Y	EBL/WBL/SBL	70/75/75	170/145/130
4	39th Street & I-5 SB On-/Off-Ramps	NBL	350	F	1.25	LOS D	N	EBTR/NB	100/300	160/355	NBL	110	F	1.12	LOS D	N	EBTR/NBLR	100/200	170/315
5	39th Street & I-5 NB On-/Off-Ramps	Overall	14	B	0.67	LOS D	Y	-	-	-	Overall	20	B	0.70	LOS D	Y	WBTR	315	330
6	15th Ave & SR 500 WB Off-Ramp	Overall	6	A	0.38	LOS E	Y	-	-	-	Overall	9	A	0.49	LOS E	Y	-	-	-
7	15th Ave & SR 500 EB On-Ramp/39th Street	Overall	7	A	0.68	LOS E	Y	-	-	-	Overall	8	A	0.69	LOS E	Y	-	-	-
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps	Overall	12	B	0.47	LOS E	Y	-	-	-	Overall	17	B	0.58	LOS E	Y	-	-	-
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps	Overall	9	A	0.47	LOS E	Y	SBL	140	150	Overall	11	B	0.58	LOS E	Y	SBL	140	175
10	4th Plain Blvd & Main Street	Overall	59	E	0.67	LOS E	Y	WBTR/SBL/ SBTR	195/50/525	235/80/660	Overall	192	F	0.76	LOS E	N	WBTR/SBL/SB TR	195/50/525	225/70/620
11	4th Plain Blvd & Broadway Street	Overall	7	A	0.42	LOS E	Y	-	-	-	Overall	6	A	0.40	LOS E	Y	-	-	-
12	4th Plain Blvd & I-5 SB On-/Off-Ramps	Overall	14	B	0.66	LOS D	Y	EBL/SBL	170/100	185/140	Overall	13	B	0.66	LOS D	Y	EBL/SBL	170/100	185/130
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	13	B	0.60	LOS D	Y	-	-	-	Overall	16	B	0.70	LOS D	Y	-	-	-
14	4th Plain Blvd & Saint Johns Blvd	Overall	8	A	0.37	LOS E	Y	EBR	75	85	Overall	7	A	0.51	LOS E	Y	-	-	-
15	4th Plain Blvd & Fort Vancouver Way	Overall	11	B	0.51	LOS E	Y	-	-	-	Overall	13	B	0.52	LOS E	Y	-	-	-
16	McLoughlin Blvd & Main Street	Overall	6	A	0.52	LOS E	Y	-	-	-	Overall	7	A	0.60	LOS E	Y	-	-	-
17	McLoughlin Blvd & Broadway Street	Overall	4	A	0.31	LOS E	Y	-	-	-	Overall	4	A	0.31	LOS E	Y	-	-	-
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-	NBR	3	A	0.01	LOS E	Y	-	-	-
19	McLoughlin Blvd & Fort Vancouver Way	Overall	10	A	0.35	LOS E	Y	-	-	-	Overall	11	B	0.40	LOS E	Y	-	-	-
20	Mill Plain Blvd & Franklin Street	Overall	15	B	0.50	LOS E	Y	SBL	50	85	Overall	19	B	0.54	LOS E	Y	SBL	50	85
21	Mill Plain Blvd WB & Columbia Street	Overall	6	A	0.32	LOS E	Y	-	-	-	Overall	5	A	0.41	LOS E	Y	-	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	4	A	0.41	LOS E	Y	-	-	-	Overall	4	A	0.50	LOS E	Y	-	-	-
23	Mill Plain Blvd WB & Main Street	Overall	14	B	0.54	LOS E	Y	SBTR	250	300	Overall	19	B	0.70	LOS E	Y	WBTL/SBTR	190/255	200/320
24	Mill Plain Blvd WB & Broadway Street	Overall	4	A	0.49	LOS E	Y	-	-	-	Overall	5	A	0.58	LOS E	Y	-	-	-
25	Mill Plain Blvd WB & C Street	Overall	14	B	0.47	LOS E	Y	-	-	-	Overall	16	B	0.59	LOS E	Y	-	-	-
26	Mill Plain Blvd EB & Columbia Street	Overall	12	B	0.65	LOS E	Y	-	-	-	Overall	12	B	0.66	LOS E	Y	-	-	-
27	Mill Plain Blvd EB & Washington Street	Overall	9	A	0.43	LOS E	Y	-	-	-	Overall	8	A	0.43	LOS E	Y	-	-	-
28	Mill Plain Blvd EB & Main Street	Overall	10	A	0.53	LOS E	Y	-	-	-	Overall	8	A	0.59	LOS E	Y	SBLT	190	200
29	Mill Plain Blvd EB & Broadway Street	Overall	11	B	0.49	LOS E	Y	EBTR	200	230	Overall	9	A	0.58	LOS E	Y	-	-	-
30	Mill Plain Blvd EB & C Street	Overall	9	A	0.46	LOS E	Y	EBTR	215	225	Overall	8	A	0.48	LOS E	Y	-	-	-
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	14	B	0.58	LOS D	Y	WBL	200	355	Overall	15	B	0.62	LOS D	Y	EBR/WBL	250/200	360/225
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	21	C	0.58	LOS D	Y	NBLT	300	355	Overall	46	D	0.62	LOS D	Y	WBT/NBL	465/250	595/355
33	Mill Plain Blvd & Fort Vancouver Way	Overall	17	B	0.55	LOS E	Y	NBLT	75	100	Overall	42	D	0.68	LOS E	Y	WBL/NBL	125/75	215/195
34	Evergreen Blvd & Columbia Street	Overall	12	B	0.38	LOS E	Y	-	-	-	Overall	12	B	0.38	LOS E	Y	-	-	-
35	Evergreen Blvd & Washington Street	Overall	19	B	0.39	LOS E	Y	-	-	-	Overall	22	C	0.42	LOS E	Y	SBLT	245	270
36	Evergreen Blvd & Main Street	Overall	10	B	0.44	LOS E	Y	-	-	-	Overall	11	B	0.44	LOS E	Y	-	-	-
37	Evergreen Blvd & Broadway Street	Overall	10	A	0.68	LOS E	Y	-	-	-	Overall	11	B	0.68	LOS E	Y	-	-	-

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## Performance Results

AM Peak Hour		2019 Existing Conditions								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
38	Evergreen Blvd & C Street	Overall	7	A	0.42	LOS E	Y	-	-	-
39	Evergreen Blvd & Fort Vancouver Way	Overall	2	A	0.14	LOS E	Y	-	-	-
40	8th Street & Columbia Street	Overall	6	A	0.50	LOS E	Y	-	-	-
41	8th Street & C Street	Overall	15	B	0.34	LOS E	Y	-	-	-
42	6th Street & Grant Street	WBL	7	A	0.18	LOS E	Y	-	-	-
43	6th Street & Esther Street	Overall	5	A	0.16	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	7	A	0.43	LOS E	Y	-	-	-
45	6th Street & Washington Street	Overall	13	B	0.40	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	5	A	0.41	LOS E	Y	-	-	-
47	6th Street & Broadway Street	EBL	5	A	0.03	LOS E	Y	-	-	-
48	6th Street & C Street	Overall	1	A	0.00	LOS D	Y	-	-	-
49	5th Street & Washington Street/I-5 SB On-Ramp	Overall	8	A	0.33	LOS D	Y	-	-	-
50	Phil Arnold Way & Esther Street	WBL	4	A	0.02	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street	EBL	4	A	0.04	LOS E	Y	-	-	-
52	Columbia Way & Esther Street	Overall	4	A	0.32	LOS E	Y	-	-	-
53	Columbia Way & Columbia Street	Overall	3	A	0.24	LOS E	Y	-	-	-
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	18	B	0.50	LOS D	Y	EBR/NBL	115/50	135/120
55	Columbia Way & Columbia Shores Blvd	Overall	18	B	0.59	LOS E	Y	SB	245	360
56	Hayden Island Dr (South) & Center Ave	Overall	8	A	0.32	V/C = 1.1	Y	-	-	-
57	Hayden Island Dr (South) & Hayden Island Dr Connector to North	Overall	5	A	0.32	V/C = 1.1	Y	-	-	-
58	Hayden Island Dr (North) & Hayden Island Dr Connector to South	Overall	3	A	0.19	LOS D	Y	-	-	-
59	I-5 SB Hayden Island Off-Ramp & Center Ave/Tomahawk Island	Overall	9	A	0.44	V/C = 0.85	Y	-	-	-
60	I-5 NB Hayden Island Off-Ramp & Tomahawk Island Dr	NBR	3	A	0.05	V/C = 0.85	Y	-	-	-
61	Tomahawk Island Dr & Jantzen Dr	NBT	12	B	0.12	LOS D	Y	-	-	-
62	Center Ave & Jantzen Ave	EBL	7	A	0.07	LOS D	Y	-	-	-
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps	Overall	26	C	0.83	V/C = 0.85	Y	WBL/NBL/ SBLT/SBR	155/175/360/ 90	285/275/370/ 275
64	Marine Dr & Vancouver Way (Loop)	Overall	6	A	0.61	V/C = 0.99	Y	NBT/NBR	55/55	70/90
65	Marine Dr and Anchor Way	SBL	10	A	0.20	LOS D	Y	-	-	-
66	I-5 NB Off-Ramp & Union Ct/Marine Way	EBL	10	A	0.28	V/C = 0.85	Y	-	-	-
67	Victory Blvd & Expo Rd	Overall	10	B	0.18	V/C = 1.1	Y	-	-	-
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	5	A	0.05	V/C = 0.85	Y	-	-	-
69	Victory Blvd & I-5 SB On-Ramp	WBL	3	A	0.10	V/C = 0.85	Y	-	-	-
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	5	A	0.41	V/C = 0.85	Y	WBTR	100	140
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	6	A	0.61	V/C = 0.85	Y	-	-	-
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	16	B	0.55	V/C = 0.85	Y	WBR	95	140
73	Columbia Blvd & MLK Blvd	Overall	25	C	0.55	V/C = 0.99	Y	NBL	150	195

2045 No-Build										
Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)		
Overall	9	A	0.42	LOS E	Y	NBL	70	80		
Overall	2	A	0.20	LOS E	Y	-	-	-		
Overall	7	A	0.50	LOS E	Y	-	-	-		
Overall	16	B	0.39	LOS E	Y	-	-	-		
WBL	11	B	0.41	LOS E	Y	WBL	100	115		
Overall	6	A	0.26	LOS E	Y	-	-	-		
Overall	8	A	0.47	LOS E	Y	-	-	-		
Overall	15	B	0.45	LOS E	Y	WBLT	200	210		
Overall	7	A	0.67	LOS E	Y	-	-	-		
EBL	15	C	0.21	LOS E	Y	-	-	-		
Overall	3	A	0.00	LOS D	Y	-	-	-		
Overall	8	A	0.44	LOS D	Y	-	-	-		
WBL	5	A	0.04	LOS E	Y	-	-	-		
EBL	7	A	0.08	LOS E	Y	-	-	-		
Overall	5	A	0.33	LOS E	Y	SBL	55	60		
Overall	108	F	0.65	LOS D	N	EBL/EBL/EBR/ NBL/SBL/SBT	855/855/115/ 50/955/955	1015/1130/23 5/160/965/10		
Overall	27	C	0.72	LOS E	Y	BL/WBR/SBLT	50/100/245	70/120/470		
Overall	8	A	0.36	V/C = 1.1	Y	-	-	-		
Overall	6	A	0.37	V/C = 0.85	Y	WBLR	85	95		
Overall	4	A	0.30	LOS D	Y	-	-	-		
Overall	11	B	0.50	V/C = 0.85	Y	-	-	-		
NBR	3	A	0.07	V/C = 0.85	Y	-	-	-		
NBL	13	B	0.20	LOS D	Y	NBLT	50	55		
EBL	8	A	0.10	LOS D	Y	-	-	-		
Overall	44	D	1.07	V/C = 0.85	N	EBL/WBL/NBL/ SBLT/SBR	500/155/175/ 360/90	730/305/295/ 500/290		
Overall	9	A	0.84	V/C = 0.99	Y	WBL/NBT/NB R	75/55/55	80/90/95		
SBL	12	B	0.30	LOS D	Y	-	-	-		
EBL	10	B	0.22	V/C = 0.85	Y	-	-	-		
Overall	12	B	0.32	V/C = 0.85	Y	-	-	-		
NBL	6	A	0.08	V/C = 1.1	Y	-	-	-		
WBL	4	A	0.16	V/C = 0.85	Y	-	-	-		
Overall	7	A	0.41	V/C = 0.85	Y	-	-	-		
Overall	8	A	0.66	V/C = 0.85	Y	-	-	-		
Overall	16	B	0.55	V/C = 0.85	Y	EBL/WBR	225/95	240/140		
Overall	28	C	0.60	V/C = 0.99	Y	WBR/NBL/SB L	125/150/200	140/195/270		

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## Performance Results

PM Peak Hour		2019 Existing Conditions									2045 No-Build								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)	Overall	5	A	0.45	LOS E	Y	-	-	-	Overall	6	A	0.46	LOS E	Y	-	-	-
2	Hazel Dell & Main Street (West) & stop controlled slip ramp	Overall	7	A	0.44	LOS D	Y	-	-	-	Overall	8	A	0.55	LOS D	Y	-	-	-
3	39th Street & Main Street	Overall	94	F	0.65	LOS E	N	EBL/WBL/ WBTR/NLB/ SBL	70/75/785/ 75/75	175/155/940/ 90/105	Overall	168	F	0.70	LOS E	N	EBL/EBTR/WB L/WBTR/NBL/ SBL	70/1425/75/7 85/75/75	175/1810/155 /980/120/130
4	39th Street & I-5 SB On-/Off-Ramps	NBL	395	F	0.90	LOS D	N	EBTR/WBL/ NBLR	100/115/300	140/150/405	NBL	490	F	1.10	LOS D	N	EBTR/WBL/W BT/NBLR	100/115/705/ 205	160/205/905/ 300
5	39th Street & I-5 NB On-/Off-Ramps	Overall	20	B	0.73	LOS D	Y	-	-	-	Overall	46	D	0.80	LOS D	Y	WBTR	315	395
6	15th Ave & SR 500 WB Off-Ramp	Overall	8	A	0.46	LOS E	Y	-	-	-	Overall	12	B	0.50	LOS E	Y	-	-	-
7	15th Ave & SR 500 EB On-Ramp/39th Street	Overall	6	A	0.55	LOS E	Y	-	-	-	Overall	7	A	0.62	LOS E	Y	-	-	-
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps	Overall	19	B	0.59	LOS E	Y	-	-	-	Overall	19	B	0.72	LOS E	Y	SBT	190	215
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps	Overall	21	C	0.59	LOS E	Y	EBL/SBL	190/140	195/175	Overall	23	C	0.72	LOS E	Y	EBL/SBL	190/140	250/170
10	4th Plain Blvd & Main Street	Overall	27	C	0.63	LOS E	Y	WBL/WBTR/ NBL/NBR/SBL	130/195/70/ 70/50	155/230/110/ 140/90	Overall	30	C	0.67	LOS E	Y	WBL/WBTR/ NBL/NBT/NB R/SBL	130/195/70/2 70/70/50	160/215/125/ 285/170/100
11	4th Plain Blvd & Broadway Street	Overall	13	B	0.52	LOS E	Y	-	-	-	Overall	14	B	0.58	LOS E	Y	-	-	-
12	4th Plain Blvd & I-5 SB On-/Off-Ramps	Overall	11	B	0.62	LOS D	Y	SBL	100	130	Overall	13	B	0.70	LOS D	Y	EBL/EBT/SBL	170/170/100	180/170/135
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	14	B	0.73	LOS D	Y	-	-	-	Overall	15	B	0.79	LOS D	Y	EBL	230	255
14	4th Plain Blvd & Saint Johns Blvd	Overall	12	B	0.48	LOS E	Y	-	-	-	Overall	13	B	0.60	LOS E	Y	-	-	-
15	4th Plain Blvd & Fort Vancouver Way	Overall	19	B	0.54	LOS E	Y	NBR/SBL	75/75	85/85	Overall	25	C	0.62	LOS E	Y	EBL/SBL	75/75	115/90
16	McLoughlin Blvd & Main Street	Overall	6	A	0.51	LOS E	Y	-	-	-	Overall	7	A	0.52	LOS E	Y	-	-	-
17	McLoughlin Blvd & Broadway Street	Overall	5	A	0.38	LOS E	Y	-	-	-	Overall	6	A	0.31	LOS E	Y	-	-	-
18	McLoughlin Blvd & F Street	NBT	7	A	0.01	LOS E	Y	-	-	-	NBR	3	A	0.01	LOS E	Y	-	-	-
19	McLoughlin Blvd & Fort Vancouver Way	Overall	10	A	0.38	LOS E	Y	-	-	-	Overall	11	B	0.39	LOS E	Y	NBL	80	95
20	Mill Plain Blvd & Franklin Street	Overall	15	B	0.55	LOS E	Y	NBL/SBL	50/50	60/80	Overall	17	B	0.59	LOS E	Y	NBL/SBL	50/50	75/85
21	Mill Plain Blvd WB & Columbia Street	Overall	20	B	0.40	LOS E	Y	-	-	-	Overall	38	D	0.47	LOS E	Y	WBLT	225	235
22	Mill Plain Blvd WB & Washington Street	Overall	8	A	0.45	LOS E	Y	-	-	-	Overall	17	B	0.46	LOS E	Y	-	-	-
23	Mill Plain Blvd WB & Main Street	Overall	14	B	0.58	LOS E	Y	-	-	-	Overall	34	C	0.67	LOS E	Y	WBLT/WBT/ WBTR/SBTR	190/190/190/ 255	200/220/230/ 270
24	Mill Plain Blvd WB & Broadway Street	Overall	13	B	0.57	LOS E	Y	-	-	-	Overall	28	C	0.60	LOS E	Y	WBLT/WBT/ WBTR	220/220/220	235/235/235
25	Mill Plain Blvd WB & C Street	Overall	25	C	0.47	LOS E	Y	SBTR	235	280	Overall	60	E	0.58	LOS E	Y	WBLT/WBT/ WBTR/SBTR	395/395/395/ 235	440/440/435/ 295
26	Mill Plain Blvd EB & Columbia Street	Overall	42	D	0.66	LOS E	Y	EBLT/EBTR/ NBTR	390/390/235	395/400/270	Overall	52	D	0.78	LOS E	Y	EBLT/EBTR/N BTR/SBLT	390/390/235/ 175	395/415/300/ 215
27	Mill Plain Blvd EB & Washington Street	Overall	29	C	0.47	LOS E	Y	EBT/EBTR	230/230	275/280	Overall	23	C	0.49	LOS E	Y	EBT/EBT/EBT R	230/230/230	240/270/285
28	Mill Plain Blvd EB & Main Street	Overall	33	C	0.67	LOS E	Y	EBLT/EBT/ EBTR/SBLT	205/205/205/ 190	270/285/265/ 195	Overall	35	D	0.76	LOS E	Y	EBLT/EBT/EB TR/NBTR/SBL	205/205/205/ 215/190	250/260/275/ 225/230
29	Mill Plain Blvd EB & Broadway Street	Overall	43	D	0.57	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBL	205/205/205/ 240/50	275/285/270/ 305/115	Overall	26	C	0.60	LOS E	Y	EBLT/EBT/EB TR/NBR/SBL	205/205/205/ 240/50	255/260/270/ 265/95
30	Mill Plain Blvd EB & C Street	Overall	35	C	0.71	LOS E	Y	EBLT/EBT/ EBTR/NBR/ SBL	215/215/215/ 285/195	305/315/305/ 285/200	Overall	28	C	0.75	LOS E	Y	EBLT/EBT/EB TR/SBL	215/215/215/ 195	280/295/290/ 205

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#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	32	C	0.84	LOS D	Y	EBT/WBL	395/200	510/255	Overall	50	D	0.91	LOS D	Y	EBT	385	560
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	26	C	0.84	LOS D	Y	EBL/NBLT	210/300	245/430	Overall	43	D	0.91	LOS D	Y	EBL/NBR	210/250	310/360
33	Mill Plain Blvd & Fort Vancouver Way	Overall	24	C	0.61	LOS E	Y	NBL/SBL	75	175	Overall	32	C	0.75	LOS E	Y	NBL	75	200
34	Evergreen Blvd & Columbia Street	Overall	14	B	0.38	LOS E	Y	EBL	50	60	Overall	17	B	0.53	LOS E	Y	EBL	50	75
35	Evergreen Blvd & Washington Street	Overall	19	B	0.47	LOS E	Y	-	-	-	Overall	20	C	0.47	LOS E	Y	-	-	-
36	Evergreen Blvd & Main Street	Overall	11	B	0.44	LOS E	Y	-	-	-	Overall	12	B	0.60	LOS E	Y	EBL	55	60
37	Evergreen Blvd & Broadway Street	Overall	12	B	0.68	LOS E	Y	-	-	-	Overall	11	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	16	B	0.42	LOS E	Y	NBL/SBL	70	95	Overall	19	B	0.49	LOS E	Y	NBL	70	120
39	Evergreen Blvd & Fort Vancouver Way	Overall	2	A	0.15	LOS E	Y	-	-	-	Overall	2	A	0.18	LOS E	Y	-	-	-
40	8th Street & Columbia Street	Overall	11	B	0.50	LOS E	Y	-	-	-	Overall	9	A	0.50	LOS E	Y	-	-	-
41	8th Street & C Street	Overall	16	B	0.33	LOS E	Y	-	-	-	Overall	18	B	0.37	LOS E	Y	-	-	-
42	6th Street & Grant Street	WBL	10	B	0.28	LOS E	Y	-	-	-	41	E	0.66	LOS E	Y	WBL	100	150	
43	6th Street & Esther Street	Overall	5	A	0.18	LOS E	Y	-	-	-	Overall	6	A	0.27	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	14	B	0.53	LOS E	Y	-	-	-	Overall	19	B	0.65	LOS E	Y	EBL	100	140
45	6th Street & Washington Street	Overall	14	B	0.63	LOS E	Y	-	-	-	Overall	19	B	0.70	LOS E	Y	WBLT/WBT	200/200	210/200
46	6th Street & Main Street	Overall	6	A	0.26	LOS E	Y	-	-	-	Overall	9	A	0.39	LOS E	Y	-	-	-
47	6th Street & Broadway Street	EBL	4	A	0.10	LOS E	Y	-	-	-	EBL	5	A	0.06	LOS E	Y	-	-	-
48	6th Street & C Street	Overall	1	A	0.00	LOS D	Y	-	-	-	Overall	2	A	0.00	LOS D	Y	-	-	-
49	5th Street & Washington Street/I-5 SB On-Ramp	Overall	15	B	0.40	LOS D	Y	-	-	-	Overall	15	B	0.51	LOS D	Y	EBR	175	185
50	Phil Arnold Way & Esther Street	WBL	5	A	0.04	LOS E	Y	-	-	-	WBR	6	A	0.06	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street	EBL	5	A	0.03	LOS E	Y	-	-	-	EBL	7	A	0.13	LOS E	Y	-	-	-
52	Columbia Way & Esther Street	Overall	6	A	0.34	LOS E	Y	-	-	-	Overall	6	A	0.37	LOS E	Y	-	-	-
53	Columbia Way & Columbia Street	Overall	4	A	0.27	LOS E	Y	-	-	-	Overall	7	A	0.34	LOS E	Y	-	-	-
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	51	D	0.63	LOS D	Y	NBL/NBT/ NBR	50/245/125	165/320/135	Overall	126	F	0.79	LOS D	N	EBR/NBL/NBT /NBR/SBL/SB L/SBT	115/50/245/1 25/375/955/9 55	230/150/265/ 145/390/1200 /1180
55	Columbia Way & Columbia Shores Blvd	Overall	179	F	0.54	LOS E	N	EBL/WBT/ WBR/SBLTR	50/710/100/ 245	155/995/185/ 290	Overall	245	F	0.68	LOS E	N	EBL/EBTR/WB T/WBR/NBLT R/SBLTR	50/620/710/1 00/345/245	185/700/970/ 170/390/415
56	Hayden Island Dr (South) & Center Ave	Overall	9	A	0.40	V/C = 1.1	Y	-	-	-	Overall	11	B	0.55	V/C = 1.1	Y	-	-	-
57	Hayden Island Dr (South) & Hayden Island Dr Connector to North	Overall	9	A	0.39	V/C = 1.1	Y	WBLR	85	105	Overall	11	B	0.51	V/C = 0.85	Y	WBLR/SBL	85/100	110/100
58	Hayden Island Dr (North) & Hayden Island Dr Connector to South	Overall	6	A	0.30	LOS D	Y	-	-	-	Overall	12	B	0.41	LOS D	Y	EBL/NBL	85/80	95/105
59	I-5 SB Hayden Island Off-Ramp & Center Ave/Tomahawk Island	Overall	9	A	0.42	V/C = 0.85	Y	-	-	-	Overall	13	B	0.53	V/C = 0.85	Y	-	-	-
60	I-5 NB Hayden Island Off-Ramp & Tomahawk Island Dr	NBR	2	A	0.05	V/C = 0.85	Y	-	-	-	NBR	3	A	0.09	V/C = 0.85	Y	-	-	-
61	Tomahawk Island Dr & Jantzen Dr	NBT	13	B	0.27	LOS D	Y	NBLT	50	65	NBL	19	C	0.53	LOS D	Y	NBLT	50	95
62	Center Ave & Jantzen Ave	EBL	8	A	0.03	LOS D	Y	-	-	-	EBL	7	A	0.05	LOS D	Y	-	-	-
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps	Overall	59	E	0.92	V/C = 0.85	Y	EBL/NBL	500/175	825/235	Overall	354	F	1.12	V/C = 0.85	N	EBL/EBL/EBT/ NBL/SBR	500/2140/214 0/175/90	765/2225/222 5/290/130

**Work in Progress – Not for Public Distribution**

**Performance Results**

PM Peak Hour		2019 Existing Conditions									2045 No-Build								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
64	Marine Dr & Vancouver Way (Loop)	Overall	9	A	0.52	V/C = 0.99	Y	WBL/NBT/ NBR	0	85/105/75	Overall	13	B	0.70	V/C = 0.99	Y	WBL/NBT/NB R	75/55/55	105/195/110
65	Marine Dr and Anchor Way	SBL	11	B	0.19	LOS D	Y	-	-	-	SBL	13	B	0.30	LOS D	Y	-	-	-
66	I-5 NB Off-Ramp & Union Ct/Marine Way	EBL	14	B	0.14	V/C = 0.85	Y	-	-	-	EBL	24	C	0.10	V/C = 0.85	Y	-	-	-
67	Victory Blvd & Expo Rd	Overall	8	A	0.52	V/C = 1.1	Y	SBL	65	75	Overall	9	A	0.75	V/C = 0.85	Y	SBL	65	105
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	10	B	0.28	V/C = 0.85	Y	-	-	-	NBL	14	B	0.42	V/C = 1.1	Y	NBR	100	125
69	Victory Blvd & I-5 SB On-Ramp	WBL	6	A	0.28	V/C = 0.85	Y	-	-	-	WBL	7	A	0.37	V/C = 0.85	Y	-	-	-
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	9	A	0.57	V/C = 0.85	Y	WBT/WBTR	185/330	275/280	Overall	185	F	0.67	V/C = 0.85	Y	EGL/WBT/WBT	100/980/150	100/1300/235
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	10	B	0.47	V/C = 0.85	Y	-	-	-	Overall	21	C	0.72	V/C = 0.85	Y	WBR/NBTR	175/540	215/610
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	9	A	0.48	V/C = 0.85	Y	WBR	95	115	Overall	10	A	0.54	V/C = 0.85	Y	WBR	95	140
73	Columbia Blvd & MLK Blvd	Overall	36	D	0.64	V/C = 0.99	Y	WBL/WBR/ NBL/SBL	140/125/150/ 200	210/210/240/ 320	Overall	46	D	0.77	V/C = 0.99	Y	EGL/WBL/WB R/NBL/SBL	/140/125/150/1/ 275/290/230/3	

**Work in Progress – Not for Public Distribution**

## Performance Results

AM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)	Overall	3	A	0.34	LOS D	Y	-	-	-	Overall	95	F	0.69	LOS E	N	EBLT/EBTR/SBL	215/215/215	1090/1080/105
2	Hazel Dell & Main Street (West) & stop controlled slip ramp	Overall	5	A	0.43	LOS D	Y	-	-	-	Overall	27	C	0.50	LOS E	Y	WBLT/WBTR	225/225	300/265
3	39th Street & Main Street	Overall	34	C	0.64	LOS E	Y	EBL/WBL/SBL	70/75/75	155/140/100	Overall	14	B	0.58	LOS E	Y	WBT/WBTR	200/200	250/250
4	39th Street & I-5 SB On-/Off-Ramps	NBL	106	F	1.14	LOS D	N	EBTR/NBLR	100/205	170/300	Overall	91	F	0.80	LOS E	N	EBLT/WBLT/SBL	245/250/235/320	190/190/190/255
5	39th Street & I-5 NB On-/Off-Ramps	Overall	20	B	0.71	LOS D	Y	WBTR	315	340	Overall	28	C	1.02	LOS E	Y	WBLT/WBT/WBTR	220/220/220	295/305/285
6	15th Ave & SR 500 WB Off-Ramp	Overall	9	A	0.49	LOS E	Y	-	-	-	Overall	218	F	0.80	LOS E	N	WBLT/WBT/WBTR	395/395/395	470/470/510
7	15th Ave & SR 500 EB On-Ramp/39th Street	Overall	7	A	0.69	LOS E	Y	-	-	-	Overall	371	F	0.76	LOS E	N	EBLT/EBTR/NBTR/SBLT	390/390/235/175	515/515/335/235
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps	Overall	16	B	0.56	LOS E	Y	-	-	-	Overall	85	F	0.47	LOS E	N	EBT/EBTR	230/230	325/315
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps	Overall	11	B	0.56	LOS E	Y	SBL	140	170	Overall	62	E	0.81	LOS E	Y	EBLT/EBT/EBTR/SBLT	205/205/205/190	290/295/290/250
10	4th Plain Blvd & Main Street	Overall	131	F	0.78	LOS E	N	WBTR/SBL/SBTR	195/50/525	235/100/640	Overall	121	F	1.02	LOS E	N	EBLT/EBT/EBTR/SBLT	205/205/205/240/50	275/275/265/355/80
11	4th Plain Blvd & Broadway Street	Overall	7	A	0.42	LOS E	Y	-	-	-	Overall	68	E	0.66	LOS E	Y	EBLT/EBT/EBTR/SBLT	215/215/215/270/195	295/285/270/270/195
12	4th Plain Blvd & I-5 SB On-/Off-Ramps	Overall	12	B	0.61	LOS D	Y	EBL	175	205	Overall	305							
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	23	C	0.57	LOS D	Y	-	-	-	Overall	305							
14	4th Plain Blvd & Saint Johns Blvd	Overall	8	A	0.53	LOS E	Y	-	-	-	Overall	305							
15	4th Plain Blvd & Fort Vancouver Way	Overall	12	B	0.51	LOS E	Y	-	-	-	Overall	305							
16	McLoughlin Blvd & Main Street	Overall	8	A	0.59	LOS E	Y	-	-	-	Overall	305							
17	McLoughlin Blvd & Broadway Street	Overall	5	A	0.32	LOS E	Y	-	-	-	Overall	305							
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-	Overall	305							
19	McLoughlin Blvd & Fort Vancouver Way	Overall	11	B	0.40	LOS E	Y	-	-	-	Overall	305							
20	Mill Plain Blvd & Franklin Street	Overall	32	C	0.59	LOS E	Y	WBL/SBL	370/50	410/90	Overall	305							
21	Mill Plain Blvd WB & Columbia Street	Overall	7	A	0.47	LOS E	Y	-	-	-	Overall	305							
22	Mill Plain Blvd WB & Washington Street	Overall	4	A	0.55	LOS E	Y	-	-	-	Overall	305							
23	Mill Plain Blvd WB & Main Street	Overall	27	C	0.77	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255	245/250/235/320	Overall	305							
24	Mill Plain Blvd WB & Broadway Street	Overall	16	B	0.90	LOS E	Y	WBLT/WBT/WBTR	220/220/220	290/300/265	Overall	305							
25	Mill Plain Blvd WB & C Street	Overall	65	E	0.73	LOS E	Y	WBLT/WBT/WBTR	395/395/395	520/520/495	Overall	305							
26	Mill Plain Blvd EB & Columbia Street	Overall	14	B	0.68	LOS E	Y	-	-	-	Overall	305							
27	Mill Plain Blvd EB & Washington Street	Overall	10	B	0.43	LOS E	Y	-	-	-	Overall	305							
28	Mill Plain Blvd EB & Main Street	Overall	11	B	0.63	LOS E	Y	SBTL	190	225	Overall	62	E	0.81	LOS E	Y	EBLT/EBT/EBTR/SBLT	205/205/205/190	290/295/290/250
29	Mill Plain Blvd EB & Broadway Street	Overall	11	B	0.90	LOS E	Y	EBTR	205	230	Overall	121	F	1.02	LOS E	N	EBLT/EBT/EBTR/SBLT	205/205/205/240/50	275/275/265/355/80
30	Mill Plain Blvd EB & C Street	Overall	11	B	0.52	LOS E	Y	EBTR/SBT	215/195	230/200	Overall	68	E	0.66	LOS E	Y	EBLT/EBT/EBTR/SBLT	215/215/215/270/195	295/285/270/270/195

**Work in Progress – Not for Public Distribution**

## Performance Results

AM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	34	C	0.62	LOS D	Y	SBL/SBR	1345/1345	1450/1545	Overall	232	F	0.68	LOS D	N	EBT/EBR/WB T/SBL/SBR	400/350/360/ 1345/1345	560/460/405/ 470/1905/188
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	20	B	0.62	LOS D	Y	-	-	-	Overall	57	E	0.68	LOS D	N	-	-	-
33	Mill Plain Blvd & Fort Vancouver Way	Overall	25	C	0.70	LOS E	Y	WBL/NBL/NBT R/SBL/SBTR	125/75	140/140	Overall	36	D	0.72	LOS E	Y	WBL/NBL	125/75	140/195
34	Evergreen Blvd & Columbia Street	Overall	8	A	0.38	LOS E	Y	-	-	-	Overall	8	A	0.43	LOS E	Y	-	-	-
35	Evergreen Blvd & Washington Street	Overall	23	C	0.42	LOS E	Y	SBLT	245	270	Overall	26	C	0.42	LOS E	Y	SBLT	245	275
36	Evergreen Blvd & Main Street	Overall	12	B	0.44	LOS E	Y	-	-	-	Overall	16	B	0.44	LOS E	Y	-	-	-
37	Evergreen Blvd & Broadway Street	Overall	17	B	0.68	LOS E	Y	-	-	-	Overall	15	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	78	E	0.60	LOS E	Y	WBL/NBL/NBT R/SBL/SBTR	50/70/485/65/ 240	75/150/585/8 0/305	Overall	14	B	0.42	LOS E	Y	-	-	-
39	Evergreen Blvd & Fort Vancouver Way	Overall	2	A	0.21	LOS E	Y	-	-	-	Overall	2	A	0.21	LOS E	Y	-	-	-
40	8th Street & Columbia Street	Overall	14	B	0.77	LOS E	Y	NBL/NBTR	65/215	145/325	Overall	15	B	0.72	LOS E	Y	NBL/NBTR	65/215	155/320
41	8th Street & C Street	Overall	44	D	0.61	LOS E	Y	NBL/NBT/SBTR	75/220/485	120/270/550	Overall	21	C	0.38	LOS E	Y	-	-	-
42	6th Street & Grant Street	WBL	10	A	0.26	LOS E	Y	-	-	-	WBL	10	B	0.30	LOS E	Y	-	-	-
43	6th Street & Esther Street	Overall	6	A	0.14	LOS E	Y	-	-	-	Overall	6	A	0.14	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	16	B	0.60	LOS E	Y	NBL/NBTR	55/200	130/250	Overall	16	B	0.60	LOS E	Y	NBL/NBTR	55/200	130/250
45	6th Street & Washington Street	Overall	10	A	0.40	LOS E	Y	-	-	-	Overall	8	A	0.40	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	5	A	0.25	LOS E	Y	-	-	-	Overall	4	A	0.06	LOS E	Y	-	-	-
47	6th Street & Broadway Street	SBL	6	A	0.06	LOS E	Y	-	-	-	SBR	4	A	0.02	LOS E	Y	-	-	-
48	6th Street & C Street/I-5 SB On-Ramp	NBT	7	A	0.47	LOS D	Y	-	-	-	EB	1	A	0.00	LOS D	Y	-	-	-
49	5th Street & Washington Street	Overall	6	A	0.39	LOS D	Y	-	-	-	WBL	18	B	0.62	LOS E	Y	-	-	-
49A	5th Street & Main St	Overall	4	A	0.22	LOS E	Y	-	-	-	Overall	3	A	0.13	LOS D	Y	-	-	-
50	Phil Arnold Way & Esther Street	WBL	7	A	0.37	LOS E	Y	-	-	-									
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	EBL	17	B	0.62	LOS E	Y	SWLR/SWR	140/140	245/170									
51A	Phil Arnold Way & Main St/SR 14 EB On-Ramp	Overall	3	A	0.13	LOS D	Y	-	-	-									
52	Columbia Way & Esther Street	Overall	6	A	0.34	LOS E	Y	SBL	55	85									
53	Columbia Way & Columbia Street	Overall	6	A	0.27	LOS E	Y	-	-	-									
53A	Columbia Way & Main St	Overall	15	B	0.28	LOS E	Y	-	-	-									
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	83	F	0.63	LOS D	N	EBL/EBL/EBR/ NBL	855/855/115/ 50	905/1060/240/ 155									
55	Columbia Way & Columbia Shores Blvd	Overall	27	C	0.70	LOS D	Y	EBL/WBR/SBLT R	50/100/245	60/120/465									
56	Hayden Island Dr (South) & Center Ave	Overall	6	A	0.48	LOS D	Y	-	-	-									
57A	Hayden Island Dr (South) & Arterial Bridge Access Rd	Overall	10	B	0.79	LOS D	Y	-	-	-									
58A	Hayden Island Dr (South) & Jantzen Dr	NBL	8	A	0.46	LOS D	Y	-	-	-									

Work in Progress – Not for Public Distribution

## Performance Results

AM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
59	Center Ave & N Tomahawk Island Dr	Overall	10	B	0.40	LOS D	Y	-	-	-									
59A	Tomahawk Island Dr & Arterial Bridge Access	Overall	16	B	0.72	LOS D	Y	-	-	-									
61	Tomahawk Island Dr & Jantzen Dr	Overall	9	A	0.79	LOS D	Y	-	-	-									
62A	I-5 SB Hayden Island Off-Ramp & Tomahawk Island Dr	Overall	5	A	0.36	V/C = 0.75	Y	-	-	-									
62B	I-5 NB Hayden Island On-Ramp & Tomahawk Island Dr	Overall	2	A	0.43	V/C = 0.75	Y	-	-	-									
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps	Overall	217	F	0.83	V/C = 0.75	N	EBL/EBT/EBT	650/1100/1100	810/1410/1180									
64	Marine Dr & Vancouver Way	Overall	7	A	0.36	V/C = 0.80	Y	-	-	-									
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St	Overall	5	A	0.54	V/C = 0.75	Y	-	-	-									
64B	I-5 NB Marine Drive Off-Ramp & N Pier 99 St	Overall	4	A	0.51	V/C = 0.75	Y	-	-	-									
64C	N Vancouver Way & N Pier 99 St	Overall	8	A	0.51	V/C = 0.75	Y	-	-	-									
65	Marine Dr and Anchor Way	SBL	7	A	0.11	LOS D	Y	-	-	-									
67	Victory Blvd & Expo Rd	Overall	12	B	0.32	V/C = 0.75	Y	-	-	-									
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	7	A	0.08	V/C = 0.75	Y	-	-	-									
69	Victory Blvd & I-5 SB On-Ramp	WBL	4	A	0.17	V/C = 0.75	Y	-	-	-									
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	5	A	0.41	V/C = 0.75	Y	WBTR	100	135									
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	9	A	0.66	V/C = 0.75	Y	-	-	-									
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	16	B	0.57	V/C = 0.75	Y	EBL/WBR	225/95	250/150									
73	Columbia Blvd & MLK Blvd	Overall	29	C	0.62	V/C = 0.75	Y	WBL/WBR/NB L/SBL	140/125/150/ 200	140/150/205/ 295									

<sup>1</sup>The Modified LPA Alternative includes 2 P&R locations. The Evergreen Site 2 which is bounded by Broadway Street, C Street, E 8th Street, and E 7th Street and the Waterfront Site 3 which is located west of Columbia Street at the intersection of W 4th Street.

<sup>2</sup>The Modified LPA Design Option includes the same P&R locations as the Modified LPA Alternative.

**Work in Progress – Not for Public Distribution**

## Performance Results

PM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)	Overall	6	A	0.46	LOS D	Y	-	-	-	Overall	253	F	0.65	LOS E	N	EBL/EBT/EBTR/NBL/NBTR/SBL	160/945/945/50/485/50/380	220/1285/1275/105/520/150/435
2	Hazel Dell & Main Street (West) & stop controlled slip ramp	Overall	8	A	0.50	LOS D	Y	-	-	-	Overall	19	B	0.48	LOS E	Y	WBLT/SBTR	225/255	265/325
3	39th Street & Main Street	Overall	137	F	0.68	LOS E	N	EBL/EBTR/WBL/WBT/NBL/SBL	70/1425/75/785/75/75	175/1725/155/955/110/120	Overall	117	F	0.47	LOS E	N	WBLT/WBT/SBTR	200/200/270	275/210/370
4	39th Street & I-5 SB On-/Off-Ramps	NBL	291	F	1.07	LOS D	N	EBTR/WBL/WBT/NBLR	100/115/705/205	140/175/775/310	Overall	156	F	0.68	LOS E	N	WBLT/WBT/NBLT/SBTR	190/190/190/190/255	250/250/200/245/320
5	39th Street & I-5 NB On-/Off-Ramps	Overall	39	D	0.81	LOS D	Y	EBL/WBTR	125/315	125/390	Overall	100	F	1.17	LOS E	N	WBLT/WBT/SBTR	220/220/265	280/295/330
6	15th Ave & SR 500 WB Off-Ramp	Overall	12	B	0.49	LOS E	Y	-	-	-	Overall	215	F	0.64	LOS E	N	WBLT/WBT/NBLT/SBTR	395/395/395/195/235	495/530/550/245/290
7	15th Ave & SR 500 EB On-Ramp/39th Street	Overall	7	A	0.60	LOS E	Y	-	-	-	Overall	208	F	0.82	LOS E	N	EBLT/EBTR/NBTR/SBLT	390/390/235/175	565/450/270/245
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps	Overall	17	B	0.66	LOS E	Y	-	-	-	Overall	80	F	0.55	LOS E	N	EBLT/EBTR/SBLT	230/230/180	275/260/215
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps	Overall	20	B	0.66	LOS E	Y	EBL/SBL	190/140	210/175	Overall	154	F	0.91	LOS E	N	EBLT/EBTR/EBTR/NBTR/SBLT	205/205/205/215/190	255/270/235/265/235
10	4th Plain Blvd & Main Street	Overall	29	C	0.68	LOS E	Y	WBL/WBTR/NBL/NBR/SBL	130/195/70/70/50	165/235/120/155/100	Overall	253	F	0.65	LOS E	N	EBL/EBT/EBTR/NBL/NBTR/SBL/SBTR	160/945/945/50/485/50/380	220/1285/1275/105/520/150/435
11	4th Plain Blvd & Broadway Street	Overall	15	B	0.60	LOS E	Y	WBL	125	135	Overall	19	B	0.48	LOS E	Y	WBLT/SBTR	225/255	265/325
12	4th Plain Blvd & I-5 SB On-/Off-Ramps	Overall	12	B	0.52	LOS D	Y	EBL	175	185	Overall	117	F	0.47	LOS E	N	WBL/WBT/SBTR	200/200/270	275/210/370
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	12	B	0.63	LOS D	Y	-	-	-	Overall	156	F	0.68	LOS E	N	WBLT/WBT/WBTR/NBLT/SBTR	190/190/190/190/255	250/250/200/245/320
14	4th Plain Blvd & Saint Johns Blvd	Overall	18	B	0.65	LOS E	Y	EBL	115	140	Overall	100	F	1.17	LOS E	N	WBLT/WBT/SBTR	220/220/265	280/295/330
15	4th Plain Blvd & Fort Vancouver Way	Overall	26	C	0.66	LOS E	Y	EBL/SBL	75/75	100/105	Overall	215	F	0.64	LOS E	N	WBLT/WBT/NBLT/SBTR	395/395/395/195/235	495/530/550/245/290
16	McLoughlin Blvd & Main Street	Overall	6	A	0.51	LOS E	Y	-	-	-	Overall	208	F	0.82	LOS E	N	EBLT/EBTR/NBTR/SBLT	390/390/235/175	565/450/270/245
17	McLoughlin Blvd & Broadway Street	Overall	5	A	0.38	LOS E	Y	-	-	-	Overall	80	F	0.55	LOS E	N	EBLT/EBTR/SBLT	230/230/180	275/260/215
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-	Overall	154	F	0.91	LOS E	N	EBLT/EBTR/EBTR/NBTR/SBLT	205/205/205/215/190	255/270/235/265/235
19	McLoughlin Blvd & Fort Vancouver Way	Overall	11	B	0.39	LOS E	Y	NBL	80	85	Overall	253	F	0.65	LOS E	N	EBL/EBT/EBTR/NBL/NBTR/SBL/SBTR	160/945/945/50/485/50/380	220/1285/1275/105/520/150/435
20	Mill Plain Blvd & Franklin Street	Overall	16	B	0.62	LOS E	Y	NBL/SBL	50/50	65/85	Overall	19	B	0.48	LOS E	Y	WBLT/SBTR	225/255	265/325
21	Mill Plain Blvd WB & Columbia Street	Overall	32	C	0.48	LOS E	Y	-	-	-	Overall	117	F	0.47	LOS E	N	WBL/WBT/SBTR	200/200/270	275/210/370
22	Mill Plain Blvd WB & Washington Street	Overall	31	C	0.47	LOS E	Y	WBL	200	205	Overall	156	F	0.68	LOS E	N	WBLT/WBT/WBTR/NBLT/SBTR	190/190/190/190/255	250/250/200/245/320
23	Mill Plain Blvd WB & Main Street	Overall	36	D	0.67	LOS E	Y	WBLT/WBT/NBLT/SBTR	190/190/190/255	220/195/210/275	Overall	100	F	1.17	LOS E	N	WBLT/WBT/SBTR	220/220/265	280/295/330
24	Mill Plain Blvd WB & Broadway Street	Overall	41	D	0.68	LOS E	Y	WBLT/WBT/SBTR	220/220/265	275/240/290	Overall	215	F	0.64	LOS E	N	WBLT/WBT/WBTR/NBLT/SBTR	395/395/395/195/235	495/530/550/245/290
25	Mill Plain Blvd WB & C Street	Overall	120	F	0.57	LOS E	N	WBLT/WBT/WBTR/SBTR	395/395/395/235	520/510/510/315	Overall	208	F	0.82	LOS E	N	EBLT/EBTR/NBTR/SBLT	390/390/235/175	565/450/270/245
26	Mill Plain Blvd EB & Columbia Street	Overall	49	D	0.80	LOS E	Y	EBLT/EBTR/NBTR/SBLT	90/390/235/17	35/455/305/200	Overall	80	F	0.55	LOS E	N	EBLT/EBTR/SBLT	230/230/180	275/260/215
27	Mill Plain Blvd EB & Washington Street	Overall	26	C	0.52	LOS E	Y	EBT/EBTR/SBLT	230/230/180	265/295/205	Overall	154	F	0.91	LOS E	N	EBLT/EBTR/EBTR/NBTR/SBLT	205/205/205/215/190	255/270/235/265/235
28	Mill Plain Blvd EB & Main Street	Overall	49	D	0.82	LOS E	Y	EBLT/EBTR/EBTR/NBTR/SBLT	205/205/205/215/190	240/265/275/260/210	Overall	253	F	0.65	LOS E	N	EBL/EBT/EBTR/NBL/NBTR/SBL/SBTR	160/945/945/50/485/50/380	220/1285/1275/105/520/150/435

**Work in Progress – Not for Public Distribution**

## Performance Results

PM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>									
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	
29	Mill Plain Blvd EB & Broadway Street	Overall	56	E	0.68	LOS E	Y	EBLT/EBT/EBTR/NBTR/SBL/SBT	205/205/205/R/NBTR/SBL/SBT	230/250/270/240/50/200	230/250/270/345/140/220	Overall	276	F	1.17	LOS E	N	EBT/EBTR/NBTR/SBL	205/205/240/50	215/280/300/115
30	Mill Plain Blvd EB & C Street	Overall	53	D	0.97	LOS E	Y	EBLT/EBT/EBTR/NBTR/NBR/SBL	215/215/215/R/NBTR/NBR/SBL	270/280/295/270/270/195	270/280/295/360/355/260	Overall	123	F	1.14	LOS E	N	EBLT/EBT/EBTR/NBTR/NBR/SBL	215/215/215/270/270/195	240/280/255/380/420/210
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	86	F	1.04	LOS D	N	EBT/EBT/EBT/SBR	75/375/375/1310	10/520/550/1380	Overall	182	F	1.61	LOS D	N	EBT/WBL/WBT/SBL/SBR	375/355/355/1315/1315	625/365/500/1795/1820	
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	89	F	1.04	LOS D	N	EBL/EBL/NBL/NBLT/NBR	355/595/595/400	740/630/730/630	355/595/595/400/730/740/630	Overall	331	F	1.61	LOS D	N	EBL/WBT/NBL/NBLT/NBR	355/645/595/595/350	490/820/640/650/600
33	Mill Plain Blvd & Fort Vancouver Way	Overall	30	C	0.64	LOS E	Y	NBL	75	205	Overall	64	E	0.77	LOS E	Y	WBL/WBT/WBTR/NBL/NBT/SBTR	125/620/620/75/685/550	175/715/770/235/910/650	
34	Evergreen Blvd & Columbia Street	Overall	25	C	0.67	LOS E	Y	EBL/SBLTR	50/225	75/245	Overall	27	C	0.68	LOS E	Y	EBL/SBLTR	50/225	80/265	
35	Evergreen Blvd & Washington Street	Overall	20	B	0.48	LOS E	Y	SBLT	245	255	Overall	23	C	0.48	LOS E	Y	SBLT	245	260	
36	Evergreen Blvd & Main Street	Overall	12	B	0.62	LOS E	Y	-	-	-	Overall	14	B	0.63	LOS E	Y	-	-	-	
37	Evergreen Blvd & Broadway Street	Overall	11	B	0.68	LOS E	Y	-	-	-	Overall	13	B	0.68	LOS E	Y	NBLT	240	245	
38	Evergreen Blvd & C Street	Overall	41	D	0.71	LOS E	Y	WBL/NBL/NBT R/SBL	50/70/485/65	60/135/570/95	Overall	17	B	0.42	LOS E	Y	-	-	-	
39	Evergreen Blvd & Fort Vancouver Way	Overall	3	A	0.19	LOS E	Y	-	-	-	Overall	3	A	0.19	LOS E	Y	NBLTR	510	555	
40	8th Street & Columbia Street	Overall	11	B	0.59	LOS E	Y	NBL/NBTR	65/215	70/255	Overall	12	B	0.59	LOS E	Y	NBL/NBTR	65/215	90/325	
41	8th Street & C Street	Overall	35	C	0.52	LOS E	Y	NBL/NBT	75/220	130/245	Overall	14	B	0.34	LOS E	Y	NBL	75	85	
42	6th Street & Grant Street	WBL	23	C	0.41	LOS E	Y	-	-	-	WBL	24	C	0.45	LOS E	Y	WBL	100	165	
43	6th Street & Esther Street	Overall	6	A	0.19	LOS E	Y	-	-	-	Overall	6	A	0.24	LOS E	Y	-	-	-	
44	6th Street & Columbia Street	Overall	18	B	0.68	LOS E	Y	NBL/NBTR/SBL	55/200/60	95/245/70	Overall	20	B	0.77	LOS E	Y	NBL/NBTR/SBL	55/200/60	100/225/75	
45	6th Street & Washington Street	Overall	12	B	0.45	LOS E	Y	-	-	-	Overall	11	B	0.41	LOS E	Y	-	-	-	
46	6th Street & Main Street	Overall	8	A	0.25	LOS E	Y	EBL	50	65	Overall	6	A	0.13	LOS E	Y	EBL	50	60	
47	6th Street & Broadway Street	SBL	9	A	0.14	LOS E	Y	-	-	-	SBL	7	A	0.03	LOS E	Y	-	-	-	
48	6th Street & C Street/I-5 SB On-Ramp	EBR	7	A	0.41	LOS D	Y	-	-	-	EB	0	A	0.00	LOS D	Y	-	-	-	
49	5th Street & Washington Street	Overall	4	A	0.38	LOS D	Y	-	-	-	WBL	15	B	0.59	LOS E	Y	WBLTR/WBR	585/585	795/690	
49A	5th Street & Main St	Overall	7	A	0.43	LOS E	Y	-	-	-	Overall	5	A	0.40	LOS D	Y	-	-	-	
50	Phil Arnold Way & Esther Street	WBL	9	A	0.27	LOS E	Y	-	-	-										
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	EBL	10	A	0.59	LOS E	Y	-	-	-										
51A	Phil Arnold Way & Main St/SR 14 EB On-Ramp	Overall	5	A	0.40	LOS D	Y	-	-	-										
52	Columbia Way & Esther Street	Overall	6	A	0.44	LOS E	Y	-	-	-										
53	Columbia Way & Columbia Street	Overall	6	A	0.34	LOS E	Y	-	-	-										
53A	Columbia Way & Main St	Overall	9	A	0.24	LOS E	Y	-	-	-										
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	64	E	0.72	LOS D	N	EBR/NBL/NBT/NBR	115/50/245/1	150/150/265/155										

**Work in Progress – Not for Public Distribution**

**Performance Results**

PM Peak Hour		2045 Modified LPA <sup>1</sup>									2045 Modified LPA Design Option <sup>2</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
55	Columbia Way & Columbia Shores Blvd	Overall	295	F	0.63	LOS D	N	EBL/EBTR/WBT/WBR/NBLTR/SBLTR	50/620/710/100/345/245	190/755/930/165/470/370									
56	Hayden Island Dr (South) & Center Ave	Overall	6	A	0.47	LOS D	Y	-	-	-									
57A	Hayden Island Dr (South) & Arterial Bridge Access Rd	Overall	9	A	0.69	LOS D	Y	-	-	-									
58A	Hayden Island Dr (South) & Jantzen Dr	NBL	10	B	0.59	LOS D	Y	-	-	-									
59	Center Ave & N Tomahawk Island Dr	Overall	5	A	0.38	LOS D	Y	-	-	-									
59A	Tomahawk Island Dr & Arterial Bridge Access	Overall	14	B	0.64	LOS D	Y	-	-	-									
61	Tomahawk Island Dr & Jantzen Dr	EBL	19	C	1.11	LOS D	Y	WBL	85	90									
62A	I-5 SB Hayden Island Off-Ramp & Tomahawk Island Dr	Overall	8	A	0.42	V/C = 0.75	Y	-	-	-									
62B	I-5 NB Hayden Island On-Ramp & Tomahawk Island Dr	Overall	3	A	0.64	V/C = 0.75	Y	-	-	-									
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps	Overall	70	E	0.76	V/C = 0.75	N	-	-	-									
64	Marine Dr & Vancouver Way	Overall	14	B	0.94	V/C = 0.80	N	-	-	-									
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St	Overall	5	A	0.37	V/C = 0.75	Y	-	-	-									
64B	I-5 NB Marine Drive Off-Ramp & N Pier 99 St	Overall	4	A	0.38	V/C = 0.75	Y	-	-	-									
64C	N Vancouver Way & N Pier 99 St	Overall	8	A	0.46	V/C = 0.75	Y	-	-	-									
65	Marine Dr and Anchor Way	SBL	11	B	0.31	LOS D	Y	-	-	-									
67	Victory Blvd & Expo Rd	Overall	9	A	0.69	V/C = 0.75	Y	SBL	65	95									
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	14	B	0.36	V/C = 0.75	Y	NBR	100	115									
69	Victory Blvd & I-5 SB On-Ramp	WBL	7	A	0.32	V/C = 0.75	Y	-	-	-									
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	13	B	0.59	V/C = 0.75	Y	-	-	-									
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	22	C	0.81	V/C = 0.75	Y	WBR/NBTR	175/540	185/635									
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	20	C	0.66	V/C = 0.75	Y	WBR	95	235									
73	Columbia Blvd & MLK Blvd	Overall	71	E	0.81	V/C = 0.75	Y	EBL/EBR/WBL/WBT/WBT/WB R/NBL/SBL	140/300/140/710/125/150/200	295/390/280/895/305/225/365									

<sup>1</sup>The Modified LPA Alternative includes 2 P&R locations. The Evergreen Site 2 which is bounded by Broadway Street, C Street, E 8th Street, and E 7th Street and the Waterfront Site 3 which is located west of Columbia Street at the intersection of W 4th Street.

<sup>2</sup>The Modified LPA Design Option includes the same P&R locations as the Modified LPA Alternative.

**Work in Progress – Not for Public Distribution**

## Performance Results

AM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)																		
2	Hazel Dell & Main Street (West) & stop controlled slip ramp																		
3	39th Street & Main Street																		
4	39th Street & I-5 SB On-/Off-Ramps																		
5	39th Street & I-5 NB On-/Off-Ramps																		
6	15th Ave & SR 500 WB Off-Ramp																		
7	15th Ave & SR 500 EB On-Ramp/39th Street																		
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps																		
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps																		
10	4th Plain Blvd & Main Street																		
11	4th Plain Blvd & Broadway Street																		
12	4th Plain Blvd & I-5 SB On-/Off-Ramps																		
13	4th Plain Blvd & I-5 NB On-/Off-Ramps																		
14	4th Plain Blvd & Saint Johns Blvd																		
15	4th Plain Blvd & Fort Vancouver Way																		
16	McLoughlin Blvd & Main Street	Overall	8	A	0.59	LOS E	Y	-	-	-		Overall	8	A	0.59	LOS E	Y	-	-
17	McLoughlin Blvd & Broadway Street	Overall	5	A	0.32	LOS E	Y	-	-	-		Overall	4	A	0.32	LOS E	Y	-	-
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-		NBR	3	A	0.01	LOS E	Y	-	-
19	McLoughlin Blvd & Fort Vancouver Way	Overall	11	B	0.40	LOS E	Y	-	-	-		Overall	11	B	0.40	LOS E	Y	-	-
20	Mill Plain Blvd & Franklin Street	Overall	34	C	0.59	LOS E	Y	WBL/SBL	370/50	400/85		Overall	41	D	0.59	LOS E	Y	WBL/SBL	370/50
21	Mill Plain Blvd WB & Columbia Street	Overall	6	A	0.46	LOS E	Y	-	-	-		Overall	6	A	0.47	LOS E	Y	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	4	A	0.59	LOS E	Y	-	-	-		Overall	4	A	0.55	LOS E	Y	-	-
23	Mill Plain Blvd WB & Main Street	Overall	25	C	0.77	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255	245/245/235/320		Overall	27	C	0.77	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255
24	Mill Plain Blvd WB & Broadway Street	Overall	16	B	0.90	LOS E	Y	WBLT/WBT/WBTR	220/220/220	295/310/260		Overall	18	B	0.90	LOS E	Y	WBLT/WBT/WBTR	220/220/220
25	Mill Plain Blvd WB & C Street	Overall	76	E	0.73	LOS E	Y	WBLT/WBT/WBTR	395/395/395	525/515/490		Overall	90	F	0.73	LOS E	N	WBLT/WBT/WBTR	395/395/395
26	Mill Plain Blvd EB & Columbia Street	Overall	13	B	0.68	LOS E	Y	-	-	-		Overall	12	B	0.68	LOS E	Y	-	-
27	Mill Plain Blvd EB & Washington Street	Overall	10	A	0.43	LOS E	Y	-	-	-		Overall	10	A	0.43	LOS E	Y	-	-
28	Mill Plain Blvd EB & Main Street	Overall	10	B	0.61	LOS E	Y	SBLT	190	210		Overall	10	B	0.63	LOS E	Y	SBLT	190
29	Mill Plain Blvd EB & Broadway Street	Overall	11	B	0.90	LOS E	Y	EBTR	205	230		Overall	11	B	0.90	LOS E	Y	EBTR/SBL	205/50
30	Mill Plain Blvd EB & C Street	Overall	10	B	0.52	LOS E	Y	-	-	-		Overall	10	B	0.52	LOS E	Y	EBTR/SBL	215
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	28	C	0.62	LOS D	Y	SBL/SBR	1345/1345	1360/1470		Overall	42	D	0.62	LOS D	Y	SBL/SBR	1345/1345
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	19	B	0.62	LOS D	Y	-	-	-		Overall	20	B	0.62	LOS D	Y	-	-
33	Mill Plain Blvd & Fort Vancouver Way	Overall	26	C	0.70	LOS E	Y	WBL/NBL	125/75	160/145		Overall	25	C	0.70	LOS E	Y	NBL	75
34	Evergreen Blvd & Columbia Street	Overall	8	A	0.42	LOS E	Y	-	-	-		Overall	8	A	0.38	LOS E	Y	-	-
35	Evergreen Blvd & Washington Street	Overall	23	C	0.43	LOS E	Y	SBLT	245	285									
36	Evergreen Blvd & Main Street	Overall	11	B	0.44	LOS E	Y	-	-	-		Overall	12	B	0.44	LOS E	Y	-	-

**Work in Progress – Not for Public Distribution**

## Performance Results

AM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
37	Evergreen Blvd & Broadway Street	Overall	15	B	0.68	LOS E	Y	-	-	-	Overall	15	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	36	D	0.58	LOS E	Y	WBL/NBL/NBT R/SBTR	50/70/485/24 0	70/140/515/2 75	Overall	47	D	0.57	LOS E	Y	WBL/NBL/NB TR/SBTR	50/70/485/24 0	70/140/515/2 90
39	Evergreen Blvd & Fort Vancouver Way																		
40	8th Street & Columbia Street	Overall	13	B	0.60	LOS E	Y	NBL/NBTR	65/215	165/330	Overall	15	B	0.79	LOS E	Y	NBL/NBTR	65/215	165/335
41	8th Street & C Street	Overall	26	C	0.50	LOS E	Y	NBL/NBT	75/220	120/255	Overall	43	D	0.61	LOS E	Y	NBL/NBT/SBT R	75/220/485	120/255/530
42	6th Street & Grant Street																		
43	6th Street & Esther Street	Overall	6	A	0.19	LOS E	Y	-	-	-	Overall	17	B	0.72	LOS E	Y	NBL/NBTR	55/200	130/245
44	6th Street & Columbia Street	Overall	17	B	0.62	LOS E	Y	NBL/NBTR	55/200	135/240	Overall	10	A	0.40	LOS E	Y	-	-	-
45	6th Street & Washington Street	Overall	10	A	0.40	LOS E	Y	-	-	-	Overall	5	A	0.26	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	5	A	0.25	LOS E	Y	-	-	-	EBR	22	C	0.68	LOS E	Y	SWLR/SWR	585/585	780/680
47	6th Street & Broadway Street	NBR	6	A	0.05	LOS E	Y	-	-	-	Overall	3	A	0.13	LOS D	Y	-	-	-
48	6th Street & C Street/I-5 SB On-Ramp										Overall	8	A	0.46	LOS E	Y	SBL	100	145
49	5th Street & Washington Street	Overall	6	A	0.47	LOS D	Y	-	-	-	Overall	10	B	0.32	LOS E	Y	-	-	-
49A	5th Street & Main St	Overall	5	A	0.24	LOS E	Y	-	-	-									
50	Phil Arnold Way & Esther Street	NBL	7	A	0.37	LOS E	Y	-	-	-									
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	WBL	18	B	0.61	LOS E	Y	SWLR/SWR	140/140	260/185									
51A	Phil Arnold Way & Main St/SR 14 EB On-Ramp	Overall	5	A	0.40	LOS D	Y	-	-	-									
52	Columbia Way & Esther Street	Overall	6	A	0.34	LOS E	Y	SBL	55	80									
53	Columbia Way & Columbia Street																		
53A	Columbia Way & Main St	Overall	14	B	0.28	LOS E	Y	-	-	-									
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)																		
55	Columbia Way & Columbia Shores Blvd																		
56	Hayden Island Dr (South) & Center Ave																		
57A	Hayden Island Dr (South) & Arterial Bridge Access Rd																		
58A	Hayden Island Dr (South) & Jantzen Dr																		
59	Center Ave & N Tomahawk Island Dr																		
59A	Tomahawk Island Dr & Arterial Bridge Access																		
61	Tomahawk Island Dr & Jantzen Dr																		
62A	I-5 SB Hayden Island Off-Ramp & Tomahawk Island Dr																		
62B	I-5 NB Hayden Island On-Ramp & Tomahawk Island Dr																		
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps																		
64	Marine Dr & Vancouver Way																		
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St																		
64B	I-5 NB Marine Drive Off-Ramp & N Pier 99 St																		
64C	N Vancouver Way & N Pier 99 St																		

## Performance Results

AM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
65	Marine Dr and Anchor Way																		
67	Victory Blvd & Expo Rd																		
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp																		
69	Victory Blvd & I-5 SB On-Ramp																		
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd																		
71	Interstate Ave/Denver Ave & Schmeer Rd																		
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp																		
73	Columbia Blvd & MLK Blvd																		

<sup>3</sup>The P&R locations are assumed to be the Evergreen Site 1 which is west of I-5 between the Vancouver Community Library and a cinema complex and the Waterfront Site 1 which is between Columbia Street and Washington Street from W 4th Street to W 3rd Street

<sup>4</sup>The P&R locations are assumed to be the Evergreen Site 2 which is bounded by Broadway Street, C Street, E 8th Street, and E 7th Street and the Waterfront Site 2 which would be built underneath I-5 east of Washington Street

**Work in Progress – Not for Public Distribution**

## Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
1	Ross Street & Main Street (Hwy 99)																		
2	Hazel Dell & Main Street (West) & stop controlled slip ramp																		
3	39th Street & Main Street																		
4	39th Street & I-5 SB On-/Off-Ramps																		
5	39th Street & I-5 NB On-/Off-Ramps																		
6	15th Ave & SR 500 WB Off-Ramp																		
7	15th Ave & SR 500 EB On-Ramp/39th Street																		
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps																		
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps																		
10	4th Plain Blvd & Main Street																		
11	4th Plain Blvd & Broadway Street																		
12	4th Plain Blvd & I-5 SB On-/Off-Ramps																		
13	4th Plain Blvd & I-5 NB On-/Off-Ramps																		
14	4th Plain Blvd & Saint Johns Blvd																		
15	4th Plain Blvd & Fort Vancouver Way																		
16	McLoughlin Blvd & Main Street	Overall	7	A	0.51	LOS E	Y	-	-	-		Overall	6	A	0.51	LOS E	Y	-	-
17	McLoughlin Blvd & Broadway Street	Overall	6	A	0.38	LOS E	Y	-	-	-		Overall	6	A	0.38	LOS E	Y	-	-
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-		NBR	3	A	0.01	LOS E	Y	-	-
19	McLoughlin Blvd & Fort Vancouver Way	Overall	11	B	0.39	LOS E	Y	NBL	80	85		Overall	11	B	0.39	LOS E	Y	NBL	80
20	Mill Plain Blvd & Franklin Street	Overall	21	C	0.62	LOS E	Y	NBL/SBL	50/50	65/85		Overall	24	C	0.62	LOS E	Y	NBL/SBL	50/50
21	Mill Plain Blvd WB & Columbia Street	Overall	17	B	0.48	LOS E	Y	-	-	-		Overall	20	B	0.48	LOS E	Y	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	36	D	0.46	LOS E	Y	WBL	200	215		Overall	19	B	0.47	LOS E	Y	-	-
23	Mill Plain Blvd WB & Main Street	Overall	50	D	0.67	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255	240/200/200/290		Overall	28	C	0.67	LOS E	Y	WBLT/SBTR	190/255
24	Mill Plain Blvd WB & Broadway Street	Overall	38	D	0.67	LOS E	Y	WBLT/WBT	220/220	275/230		Overall	30	C	0.68	LOS E	Y	WBLT/WBT	220/220
25	Mill Plain Blvd WB & C Street	Overall	125	F	0.57	LOS E	N	WBLT/WBT/WBTR/SBTR	395/395/395/235	515/510/505/320		Overall	89	F	0.57	LOS E	N	WBLT/WBT/WBTR/SBTR	395/395/395/235
26	Mill Plain Blvd EB & Columbia Street	Overall	41	D	0.80	LOS E	Y	EBLT/EBTR/NBTR	390/390/235	440/450/300		Overall	47	D	0.80	LOS E	Y	EBLT/EBTR/NBTR/SBLT	390/390/235/175
27	Mill Plain Blvd EB & Washington Street	Overall	25	C	0.51	LOS E	Y	EBT/EBTR/SBLT	230/230/180	260/290/210		Overall	24	C	0.52	LOS E	Y	EBT/EBTR/SBLT	230/230/180
28	Mill Plain Blvd EB & Main Street	Overall	57	E	0.84	LOS E	Y	EBLT/EBT/EBTR/NBTR/SBLT	205/205/205/215/190	245/265/260/270/240		Overall	36	D	0.82	LOS E	Y	EBLT/EBT/EBTR/NBTR/SBLT	205/205/205/215/190
29	Mill Plain Blvd EB & Broadway Street	Overall	45	D	0.67	LOS E	Y	EBLT/EBT/EBTR/NBTR/SBLT	205/205/205/240/50	230/250/265/335/120		Overall	55	E	0.68	LOS E	Y	EBLT/EBT/EBTR/NBTR/SBLT/SBT	205/205/205/240/50/200
30	Mill Plain Blvd EB & C Street	Overall	47	D	0.98	LOS E	Y	EBLT/EBT/EBTR/NBT/NBR/SBL	215/215/215/270/270/195	265/280/280/365/355/260		Overall	53	D	0.97	LOS E	Y	EBLT/EBT/EBTR/NBT/NBR/SBL	215/215/215/270/270/195
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	86	F	1.04	LOS D	N	EBT/SBL/SBR	375/990/990	550/1045/1070		Overall	62	E	1.04	LOS D	N	EBT	375
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	94	F	1.04	LOS D	N	EBL/NBL/NBLT/NBR	355/595/595/350	400/745/750/630		Overall	72	E	1.04	LOS D	N	EBL/NBL/NBLT/NBR	355/595/595/350

**Work in Progress – Not for Public Distribution**

## Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
33	Mill Plain Blvd & Fort Vancouver Way	Overall	34	C	0.76	LOS E	Y	NBL	75	210	Overall	31	C	0.76	LOS E	Y	NBL	75	210
34	Evergreen Blvd & Columbia Street	Overall	17	B	0.59	LOS E	Y	EBL	50	75	Overall	21	C	0.67	LOS E	Y	EBL/WBL/SBL TR	50/70/225	75/75/230
35	Evergreen Blvd & Washington Street	Overall	20	C	0.48	LOS E	Y	SBLT	245	260	Overall	12	B	0.62	LOS E	Y	-	-	-
36	Evergreen Blvd & Main Street	Overall	12	B	0.63	LOS E	Y	-	-	-	Overall	11	B	0.68	LOS E	Y	-	-	-
37	Evergreen Blvd & Broadway Street	Overall	11	B	0.68	LOS E	Y	-	-	-	Overall	41	D	0.71	LOS E	Y	WBL/NBL/NB TR/SBL	50/70/485/65	60/140/575/85
38	Evergreen Blvd & C Street	Overall	17	B	0.72	LOS E	Y	WBL/NBL	50/70	75/130	Overall	13	B	0.67	LOS E	Y	NBL/NBTR	65/215	80/290
39	Evergreen Blvd & Fort Vancouver Way										Overall	33	C	0.52	LOS E	Y	NBL/NBT	75/220	130/245
40	8th Street & Columbia Street	Overall	13	B	0.65	LOS E	Y	NBL/NBTR	65/215	75/285	Overall	23	C	0.75	LOS E	Y	NBL/NBTR/SB L	55/200/60	110/215/75
41	8th Street & C Street	Overall	27	C	0.46	LOS E	Y	NBL/NBT	75/220	100/240	Overall	12	B	0.48	LOS E	Y	-	-	-
42	6th Street & Grant Street										Overall	8	A	0.25	LOS E	Y	EBL	50	75
43	6th Street & Esther Street	Overall	6	A	0.19	LOS E	Y	-	-	-	NBT	38	D	0.52	LOS E	Y	NBT/SWLR/S WR	345/140/140	395/235/145
44	6th Street & Columbia Street	Overall	19	B	0.70	LOS E	Y	NBL/NBTR	55/200	110/220	Overall	5	A	0.40	LOS D	Y	-	-	-
45	6th Street & Washington Street	Overall	12	B	0.45	LOS E	Y	-	-	-	Overall	23	C	0.42	LOS E	Y	EBL	150	160
46	6th Street & Main Street	Overall	7	A	0.27	LOS E	Y	EBL	50	65	Overall	11	B	0.42	LOS E	Y	-	-	-
47	6th Street & Broadway Street	SBL	9	A	0.15	LOS E	Y	-	-	-									
48	6th Street & C Street/I-5 SB On-Ramp																		
49	5th Street & Washington Street	Overall	11	B	0.46	LOS D	Y	-	-	-									
49A	5th Street & Main St	Overall	10	A	0.01	LOS E	Y	EBLTR	200	205									
50	Phil Arnold Way & Esther Street	EBL	9	A	0.27	LOS E	Y	-	-	-									
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	WBL	13	B	0.02	LOS E	Y	SWLR	140	155									
51A	Phil Arnold Way & Main St/SR 14 EB On-Ramp	Overall	5	A	0.40	LOS D	Y	-	-	-									
52	Columbia Way & Esther Street	Overall	6	A	0.44	LOS E	Y	-	-	-									
53	Columbia Way & Columbia Street																		
53A	Columbia Way & Main St	Overall	9	A	0.24	LOS E	Y	-	-	-									
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)																		
55	Columbia Way & Columbia Shores Blvd																		
56	Hayden Island Dr (South) & Center Ave																		
57A	Hayden Island Dr (South) & Arterial Bridge Access Rd																		
58A	Hayden Island Dr (South) & Jantzen Dr																		
59	Center Ave & N Tomahawk Island Dr																		
59A	Tomahawk Island Dr & Arterial Bridge Access																		
61	Tomahawk Island Dr & Jantzen Dr																		
62A	I-5 SB Hayden Island Off-Ramp & Tomahawk Island Dr																		
62B	I-5 NB Hayden Island On-Ramp & Tomahawk Island Dr																		

## Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 <sup>3</sup>									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 <sup>4</sup>								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	Approach/ Movement	Delay (s)	LOS	ICU / v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps																		
64	Marine Dr & Vancouver Way																		
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St																		
64B	I-5 NB Marine Drive Off-Ramp & N Pier 99 St																		
64C	N Vancouver Way & N Pier 99 St																		
65	Marine Dr and Anchor Way																		
67	Victory Blvd & Expo Rd																		
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp																		
69	Victory Blvd & I-5 SB On-Ramp																		
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd																		
71	Interstate Ave/Denver Ave & Schmeer Rd																		
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp																		
73	Columbia Blvd & MLK Blvd																		

<sup>3</sup>The P&R locations are assumed to be the Evergreen Site 1 which is west of I-5 between the Vancouver Community Library and a cinema complex and the Waterfront Site 1 which is between Columbia Street and Washington Street from W 4th Street to W 3rd Street

<sup>4</sup>The P&R locations are assumed to be the Evergreen Site 2 which is bounded by Broadway Street, C Street, E 8th Street, and E 7th Street and the Waterfront Site 2 which would be built underneath I-5 east of Washington Street