

1 Appendix D. Local Operation Results

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	26	C	0.69	LOS E	Y	EBL/WBL/SBL	70/75/75	160/480/120
4	39th Street & I-5 SB On-/Off-Ramps	NBL	350	F	1.25	LOS D	N	EBTR/NB	100/300	160/355	NBL	82	F	1.10	LOS D	N	EB/NB	100/300	165/395
5	39th Street & I-5 NB On-/Off-Ramps	Overall	14	B	0.67	LOS D	Y	-	-	-	Overall	19	B	0.70	LOS D	Y	-	-	-
6	15th Ave & SR 500 WB Off-Ramp	Overall	6	A	0.38	LOS E	Y	-	-	-	Overall	8	A	0.45	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	18	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	12	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	159	F	0.76	LOS E	N	WBTR/SBL/ SBTR	195/50/525	230/90/600
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	14	B	0.66	LOS D	Y	EBL/SBL	170/100	190/135
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	13	B	0.60	LOS D	Y	-	-	-	Overall	13	B	0.64	LOS D	Y	-	-	-
14	4th Plain Blvd & Saint Johns Blvd	Overall	8	A	0.37	LOS E	Y	EBR	75	85	Overall	6	A	0.41	LOS E	Y	-	-	-
15	4th Plain Blvd & Fort Vancouver Way	Overall	11	B	0.51	LOS E	Y	-	-	-	Overall	11	B	0.51	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	18	B	0.55	LOS E	Y	SBL	50	85
21	Mill Plain Blvd WB & Columbia Street	Overall	6	A	0.32	LOS E	Y	-	-	-	Overall	6	A	0.41	LOS E	Y	-	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	4	A	0.41	LOS E	Y	-	-	-	Overall	3	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	17	B	0.71	LOS E	Y	SB	255	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	0.67	LOS E	Y	-	-	-
27	Mill Plain Blvd EB & Washington Street	Overall	9	A	0.43	LOS E	Y	-	-	-	Overall	9	A	0.43	LOS E	Y	-	-	-
28	Mill Plain Blvd EB & Main Street	Overall	10	A	0.53	LOS E	Y	-	-	-	Overall	9	A	0.61	LOS E	Y	SB	190	200
29	Mill Plain Blvd EB & Broadway Street	Overall	11	B	0.49	LOS E	Y	EBTR	200	230	Overall	11	B	0.58	LOS E	Y	EBTR/SBL	205/50	230/55
30	Mill Plain Blvd EB & C Street	Overall	9	A	0.46	LOS E	Y	EBTR	215	225	Overall	10	A	0.51	LOS E	Y	EBTR	215	225
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	14	B	0.58	LOS D	Y	WBL	200	355	Overall	13	B	0.78	LOS D	Y	WBL	200	325
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	21	C	0.58	LOS D	Y	NBLT	300	355	Overall	39	D	0.78	LOS D	Y	WBT/NBLT/N BR	475/300/300	610/450/320
33	Mill Plain Blvd & Fort Vancouver Way	Overall	17	B	0.55	LOS E	Y	NBLT	75	100	Overall	49	D	0.65	LOS E	Y	WBL/WBT/W BR/NBL	125/615/615/ 75	275/715/690/ 195
34	Evergreen Blvd & Columbia Street	Overall	12	B	0.38	LOS E	Y	-	-	-	Overall	12	B	0.38	LOS E	Y	-	EXCEED	EXCEED
35	Evergreen Blvd & Washington Street	Overall	19	B	0.39	LOS E	Y	-	-	-	Overall	23	C	0.41	LOS E	Y	SBLT	245	265
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	-	-	-

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	0.25	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 = 1.1	Y	-	-	-
60	I-5 NB Hayden Island Off-Ramp & Tomahawk Island Dr	NBR	3	A	0.05	V/C = 1.1	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 = 1.1	Y	WBL/NBL/ SBLT/SBR	155/175/360/ 90	285/275/370/ 275
64	Marine Dr & Vancouver Way (Loop)	Overall	6	A	0.46	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 = 1.1	Y	-	-	-
67	Victory Blvd & Expo Rd	Overall	10	B	0.16	V/C = 1.1	Y	-	-	-
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	5	A	0.05	V/C = 1.1	Y	-	-	-
69	Victory Blvd & I-5 SB On-Ramp	WBL	3	A	0.10	V/C = 1.1	Y	-	-	-
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	5	A	0.41	V/C = 1.1	Y	WBTR	100	140
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	6	A	0.61	V/C = 1.1	Y	-	-	-
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	16	B	0.55	V/C = 1.1	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	9	A	0.35	LOS E	Y	WBL	100	120
Overall	6	A	0.26	LOS E	Y	-	-	-
Overall	8	A	0.47	LOS E	Y	-	-	-
Overall	14	B	0.44	LOS E	Y	-	-	-
Overall	7	A	0.32	LOS E	Y	-	-	-
EBL	11	B	0.06	LOS E	Y	-	-	-
Overall	3	A	0.00	LOS D	Y	-	-	-
Overall	8	A	0.38	LOS D	Y	-	-	-
WBL	5	A	0.03	LOS E	Y	-	-	-
EBL	6	A	0.08	LOS E	Y	-	-	-
Overall	4	A	0.32	LOS E	Y	-	-	-
Overall	4	A	0.25	LOS E	Y	-	-	-
Overall	118	F	0.65	LOS D	N	EBL/EBR/ NBL/SBT	855/115/50/9 55	1120/235/170 /1035
Overall	29	C	0.72	LOS E	Y	EBL/WBR/SB	50/100/245	65/135/465
Overall	8	A	0.36	V/C = 1.1	Y	-	-	-
Overall	7	A	0.37	V/C = 1.1	Y	WB	85	100
Overall	4	A	0.30	LOS D	Y	-	-	-
Overall	11	B	0.50	V/C = 1.1	Y	-	-	-
NBR	3	A	0.07	V/C = 1.1	Y	-	-	-
NBL	14	B	0.20	LOS D	Y	NB	50	55
EBL	7	A	0.10	LOS D	Y	-	-	-
Overall	41	D	1.00	V/C = 1.1	Y	EBL/WBL/ NBL/SBLT/ SBR	500/155/175/ 360/90	710/305/290/ 475/285
Overall	9	A	0.54	V/C = 0.99	Y	WBL/NBT/ NBR	75/55/55	81/100/95
SBL	10	B	0.30	LOS D	Y	-	-	-
EBL	11	B	0.22	V/C = 1.1	Y	-	-	-
Overall	11	B	0.19	V/C = 1.1	Y	-	-	-
NBL	6	A	0.08	V/C = 1.1	Y	-	-	-
WBL	4	A	0.16	V/C = 1.1	Y	-	-	-
Overall	5	A	0.41	V/C = 1.1	Y	-	-	-
Overall	9	A	0.66	V/C = 1.1	Y	-	-	-
Overall	16	B	0.55	V/C = 1.1	Y	EBL/WBR	225/95	245/135
Overall	28	C	0.60	V/C = 0.99	Y	WBR/NBL/ SBL	125/150/200	130/195/265

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	9	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	172	F	0.70	LOS E	N	EBL/EBTR/ WBL/WBTR/ NBL/SBL	70/1425/75/7 85/75/75	175/1736/160 /935/115/120
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	307	F	1.10	LOS D	N	EBTR/WBL/W BT/NBLR	100/115/705/ 300	160/240/950/ 370
5	39th Street & I-5 NB On-/Off-Ramps	Overall	20	B	0.73	LOS D	Y	-	-	-	Overall	34	C	0.80	LOS D	Y	WB/NB	315/425	395/520
6	15th Ave & SR 500 WB Off-Ramp	Overall	8	A	0.46	LOS E	Y	-	-	-	Overall	11	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	8	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	18	B	0.72	LOS E	Y	-	EXCEED	EXCEED
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	22	C	0.72	LOS E	Y	EBL/SBL	190/140	245/175
10	4th Plain Blvd & Main Street	Overall	27	C	0.63	LOS E	Y	WBL/WBTR/ NBL/NBR/SBL	130/195/70/7 0/50	155/230/110/ 140/90	Overall	30	C	0.67	LOS E	Y	WBL/WBTR/ NBL/NBR/ NBR/SBL	130/195/70/2 70/70/50	155/230/130/ 300/165/115
11	4th Plain Blvd & Broadway Street	Overall	13	B	0.52	LOS E	Y	-	-	-	Overall	14	B	0.58	LOS E	Y	WBL	125	130
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/SBL	170/100	185/135
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	14	B	0.73	LOS D	Y	-	-	-	Overall	14	B	0.79	LOS D	Y	EBL	230	260
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	NBR/SBL	75/75	80/100
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	5	A	0.31	LOS E	Y	-	-	-
18	McLoughlin Blvd & F Street	NBT	7	A	0.01	LOS E	Y	-	-	-	NBR	3	A	0.00	LOS E	Y	-	-	-
19	McLoughlin Blvd & Fort Vancouver Way	Overall	10	A	0.38	LOS E	Y	-	-	-	Overall	13	B	0.39	LOS E	Y	NBL	80	85
20	Mill Plain Blvd & Franklin Street	Overall	15	B	0.55	LOS E	Y	NBL/SBL	50/50	60/80	Overall	110	F	0.59	LOS E	N	NBL/SBL	50/50	75/95
21	Mill Plain Blvd WB & Columbia Street	Overall	20	B	0.40	LOS E	Y	-	-	-	Overall	111	F	0.47	LOS E	N	WBTL/SB	225/255	280/300
22	Mill Plain Blvd WB & Washington Street	Overall	8	A	0.45	LOS E	Y	-	-	-	Overall	63	E	0.46	LOS E	Y	WBTL/WBTR	200/200	225/220
23	Mill Plain Blvd WB & Main Street	Overall	14	B	0.58	LOS E	Y	-	-	-	Overall	101	F	0.67	LOS E	N	WBTL/WBT/ WBTR/SB	190/190/190/ 255	250/235/240/ 300
24	Mill Plain Blvd WB & Broadway Street	Overall	13	B	0.57	LOS E	Y	-	-	-	Overall	86	F	0.60	LOS E	N	WBTL/WBT/ WBTR	220/220/220	275/275/265
25	Mill Plain Blvd WB & C Street	Overall	25	C	0.47	LOS E	Y	SBTR	235	280	Overall	197	F	0.58	LOS E	N	WBTL/WBT/ WBTR/SBTR	395/395/395/ 235	520/520/510/ 300
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	175	F	0.78	LOS E	N	EBLT/EBTR/N B/SB	390/390/235/ 175	505/495/310/ 225
27	Mill Plain Blvd EB & Washington Street	Overall	29	C	0.47	LOS E	Y	EBT/EBTR	230/230	275/280	Overall	49	D	0.49	LOS E	Y	EBT/EBT/ EBTR	230/230/230	285/295/305
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	86	F	0.76	LOS E	N	EBLT/EBT/EB TR/NB/SB	205/205/205/ 215/190	275/285/285/ 240/240
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	78	E	0.60	LOS E	Y	EBLT/EBT/EB TR/NB/SBL	205/205/205/ 240/50	280/285/280/ 335/120
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	72	E	0.75	LOS E	Y	EBLT/EBT/ EBTR/NBR/ SBL	215/215/215/ 285/195	300/310/300/ 325/210

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#	Intersection	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
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	26	C	0.84	LOS D	Y	EBL/NBLT	210/300	245/430
33	Mill Plain Blvd & Fort Vancouver Way	Overall	24	C	0.61	LOS E	Y	NBL/SBL	75	175
34	Evergreen Blvd & Columbia Street	Overall	14	B	0.38	LOS E	Y	EBL	50	60
35	Evergreen Blvd & Washington Street	Overall	19	B	0.47	LOS E	Y	-	-	-
36	Evergreen Blvd & Main Street	Overall	11	B	0.44	LOS E	Y	-	-	-
37	Evergreen Blvd & Broadway Street	Overall	12	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	16	B	0.42	LOS E	Y	NBL/SBL	70	95
39	Evergreen Blvd & Fort Vancouver Way	Overall	2	A	0.15	LOS E	Y	-	-	-
40	8th Street & Columbia Street	Overall	11	B	0.50	LOS E	Y	-	-	-
41	8th Street & C Street	Overall	16	B	0.33	LOS E	Y	-	-	-
42	6th Street & Grant Street	WBL	10	B	0.28	LOS E	Y	-	-	-
43	6th Street & Esther Street	Overall	5	A	0.18	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	14	B	0.53	LOS E	Y	-	-	-
45	6th Street & Washington Street	Overall	14	B	0.63	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	6	A	0.39	LOS E	Y	-	-	-
47	6th Street & Broadway Street	EBL	4	A	0.10	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	15	B	0.40	LOS D	Y	-	-	-
50	Phil Arnold Way & Esther Street	WBL	5	A	0.04	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street	EBL	5	A	0.03	LOS E	Y	-	-	-
52	Columbia Way & Esther Street	Overall	6	A	0.34	LOS E	Y	-	-	-
53	Columbia Way & Columbia Street	Overall	4	A	0.27	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
55	Columbia Way & Columbia Shores Blvd	Overall	179	F	0.54	LOS E	N	EBL/WBT/ WBR/SBLTR	50/710/100/2 45	155/995/185/ 290
56	Hayden Island Dr (South) & Center Ave	Overall	9	A	0.40	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
58	Hayden Island Dr (North) & Hayden Island Dr Connector to South	Overall	6	A	0.30	LOS D	Y	-	-	-
59	I-5 SB Hayden Island Off-Ramp & Center Ave/Tomahawk Island	Overall	9	A	0.42	V/C = 1.1	Y	-	-	-
60	I-5 NB Hayden Island Off-Ramp & Tomahawk Island Dr	NBR	2	A	0.05	V/C = 1.1	Y	-	-	-
61	Tomahawk Island Dr & Jantzen Dr	NBT	13	B	0.27	LOS D	Y	NBLT	50	65
62	Center Ave & Jantzen Ave	EBL	8	A	0.03	LOS D	Y	-	-	-
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps	Overall	59	E	0.92	V/C = 1.1	Y	EBL/NBL	500/175	825/235

2045 No-Build								
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
Overall	124	F	0.99	LOS D	N	EBT/WBL/ SBL/SBR	395/200/980/ 980	615/300/1005 /1020
Overall	46	D	0.99	LOS D	Y	EBL/NBLT/ NBR	210/300/300	240/410/440
Overall	50	D	0.75	LOS E	Y	NBL	75	200
Overall	16	B	0.53	LOS E	Y	EBL	50	80
Overall	21	C	0.47	LOS E	Y	WBL	60	65
Overall	12	B	0.03	LOS E	Y	EBL	55	65
Overall	11	B	0.68	LOS E	Y	-	-	-
Overall	18	B	0.49	LOS E	Y	NBL	70	120
Overall	2	A	0.18	LOS E	Y	-	-	-
Overall	9	A	0.50	LOS E	Y	-	-	-
Overall	18	B	0.37	LOS E	Y	-	-	-
Overall	39	E	0.00	LOS E	Y	WBL	100	145
Overall	6	A	0.27	LOS E	Y	-	-	-
Overall	19	B	0.65	LOS E	Y	EBL	100	140
Overall	17	B	0.70	LOS E	Y	WBLT/WBTR	200/200	210/205
Overall	8	A	0.43	LOS E	Y	-	-	-
EBL	6	A	0.06	LOS E	Y	-	-	-
Overall	1	A	0.00	LOS D	Y	-	-	-
Overall	15	B	0.51	LOS D	Y	EBR	175	180
WBR	3	A	0.00	LOS E	Y	-	-	-
EBL	8	A	0.00	LOS E	Y	-	-	-
Overall	6	A	0.34	LOS E	Y	-	-	-
Overall	6	A	0.34	LOS E	Y	-	-	-
Overall	158	F	0.79	LOS D	N	EBR/NBL/ NBT/NBR/ SBL2/SBL/ SBT	115/50/245/1 25/375/955/9 55	230/150/265/ 140/410/1280 /1190
Overall	299	F	0.68	LOS E	N	EBL/EBTR/ WBT/WBR/ NB/SB	50/620/710/1 00/345/2445	180/785/935/ 165/396/415
Overall	8	A	0.55	V/C = 1.1	Y	-	-	-
Overall	7	A	0.51	V/C = 1.1	Y	WB	85	100
Overall	4	A	0.41	LOS D	Y	-	-	-
Overall	11	B	0.53	V/C = 1.1	Y	-	-	-
NBR	3	A	0.09	V/C = 1.1	Y	-	-	-
NBL	14	B	0.53	LOS D	Y	NBLT	50	55
EBL	7	A	0.05	LOS D	Y	-	-	-
Overall	41	D	1.09	V/C = 1.1	Y	EBL/WBL/ NBL/SBLT/SB	500/155/175/ 360/90	710/305/290/ 475/285

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	0.44	V/C = 0.99	Y	WBL/NBT/ NBR	0	85/105/75	Overall	9	A	0.50	V/C = 0.99	Y	WBL/NBT/ NBR	75/55/55	80/100/95
65	Marine Dr and Anchor Way	SBL	11	B	0.19	LOS D	Y	-	-	-	SBL	10	B	0.30	LOS D	Y	-	-	-
66	I-5 NB Off-Ramp & Union Ct/Marine Way	EBL	14	B	0.14	V/C = 1.1	Y	-	-	-	EBL	11	B	0.10	V/C = 1.1	Y	-	-	-
67	Victory Blvd & Expo Rd	Overall	8	A	0.34	V/C = 1.1	Y	SBL	65	75	Overall	11	B	0.40	V/C = 1.1	Y	-	-	-
68	Victory Blvd & Interstate Ave/Denver Ave NB Off-Ramp	NBL	10	B	0.28	V/C = 1.1	Y	-	-	-	NBL	6	A	0.42	V/C = 1.1	Y	-	-	-
69	Victory Blvd & I-5 SB On-Ramp	WBL	6	A	0.28	V/C = 1.1	Y	-	-	-	WBL	4	A	0.37	V/C = 1.1	Y	-	-	-
70	Victory Blvd & I-5 NB Off-Ramp/Whitaker Rd	Overall	9	A	0.57	V/C = 1.1	Y	WBT/WBTR	185/330	275/280	Overall	5	A	0.68	V/C = 1.1	Y	-	-	-
71	Interstate Ave/Denver Ave & Schmeer Rd	Overall	10	B	0.47	V/C = 1.1	Y	-	-	-	Overall	9	A	0.73	V/C = 1.1	Y	-	-	-
72	Columbia Blvd & I-5 NB/SB On-/Off-Ramp	Overall	9	A	0.48	V/C = 1.1	Y	WBR	95	115	Overall	16	B	0.54	V/C = 1.1	Y	EBL/WBR	225/95	245/135
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	28	C	0.77	V/C = 0.99	Y	WBR/NBL/ SBL	125/150/200	130/195/265

Performance Results

AM Peak Hour		2045 Modified LPA ¹								
#	Intersection	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	77	E	0.62	LOS D	N	WBL/WBT/ SBL/SBR	200/365/990/ 990	255/420/1210 /1295
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	39	D	0.62	LOS D	Y	WBL/WBT	300/635	500/795
33	Mill Plain Blvd & Fort Vancouver Way	Overall	79	E	0.66	LOS E	Y	WBL/WBT/ NBL	125/615/75	185/655/165
34	Evergreen Blvd & Columbia Street	Overall	8	A	0.38	LOS E	Y	-	-	-
35	Evergreen Blvd & Washington Street	Overall	22	C	0.42	LOS E	Y	SBLT	245	260
36	Evergreen Blvd & Main Street	Overall	12	B	0.44	LOS E	Y	-	-	-
37	Evergreen Blvd & Broadway Street	Overall	16	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	47	D	0.57	LOS E	Y	WBL/NBL/ NBTR/SBTR	50/70/785/24 0	75/140/515/2 95
39	Evergreen Blvd & Fort Vancouver Way	Overall	2	A	0.20	LOS E	Y	-	-	-
40	8th Street & Columbia Street	Overall	13	B	0.67	LOS E	Y	NBL/NBTR	65/215	150/320
41	8th Street & C Street	Overall	38	D	0.58	LOS E	Y	NBL/NB/SB	75/220/485	120/260/500
42	6th Street & Grant Street	WBL	11	B	0.34	LOS E	Y	-	-	-
43	6th Street & Esther Street	Overall	6	A	0.15	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	16	B	0.63	LOS E	Y	NBL/NBTR	55/200	130/255
45	6th Street & Washington Street	Overall	9	A	0.40	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	5	A	0.23	LOS E	Y	-	-	-
47	6th Street & Broadway Street	SBL	6	A	0.05	LOS E	Y	-	-	-
48	6th Street & C Street/I-5 SB On-Ramp	NBT	7	A	0.34	LOS D	Y	-	-	-
49	5th Street & Washington Street	Overall	6	A	0.39	LOS D	Y	-	-	-
49A	5th Street & Main St	Overall	4	A	0.22	LOS E	Y	-	-	-
50	Phil Arnold Way & Esther Street	WBL	7	A	0.39	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	EBL	57	F	0.74	LOS E	N	SW	585	850
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	0.35	LOS E	Y	SBL	55	80
53	Columbia Way & Columbia Street	Overall	6	A	0.36	LOS E	Y	-	-	-
53A	Columbia Way & Main St	Overall	0	A	0.22	LOS E	Y	-	-	-
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	81	F	0.63	LOS D	N	EBL/EBR/NBL/ SBT	855/115/50/9 55	930/240/155/ 965
55	Columbia Way & Columbia Shores Blvd	Overall	27	C	0.70	LOS D	Y	EBL/WBR/SB	50/100/245	60/125/460
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	11	B	0.58	LOS D	Y	-	-	-
58A	Hayden Island Dr (South) & Jantzen Dr	NBL	8	A	0.46	LOS D	Y	-	-	-
59	Center Ave & N Tomahawk Island Dr	Overall	10	A	0.40	LOS D	Y	-	-	-

2045 Modified LPA Design Option ²								
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
Overall	641	F	0.68	LOS D	N	WBL/WBT/ SBL/SBR	200/365/1345 /1345	335/490/1530 /1460
Overall	183	F	0.68	LOS D	N	WBL/WBT/ NBL/NBLT/ NBR	300/635/555/ 555/350	420/745/720/ 745/515
Overall	935	F	0.68	LOS E	N	WBL/WBT/ NBL/NBT/ SBTR	125/615/75/6 85/550	220/735/235/ 975/720
Overall	8	A	0.43	LOS E	Y	-	-	-
Overall	28	C	0.42	LOS E	Y	SBLT	245	280
Overall	16	B	0.44	LOS E	Y	-	-	-
Overall	14	B	0.68	LOS E	Y	-	-	-
Overall	17	B	0.42	LOS E	Y	-	-	-
Overall	2	A	0.20	LOS E	Y	-	-	-
Overall	16	B	0.72	LOS E	Y	NBL/NBTR	65/215	145/320
Overall	23	C	0.38	LOS E	Y	-	-	-
WBL	13	B	0.36	LOS E	Y	-	-	-
Overall	6	A	0.15	LOS E	Y	-	-	-
Overall	16	B	0.63	LOS E	Y	NBL/NBTR/ SBL	55/200/60	130/245/65
Overall	9	A	0.40	LOS E	Y	-	-	-
Overall	4	A	0.21	LOS E	Y	-	-	-
SBR	3	A	0.02	LOS E	Y	-	-	-
EB	1	A	0.00	LOS D	Y	-	-	-
WBL	6	A	0.74	LOS E	Y	WBLTR/WBR	585/585	835/840
Overall	3	A	0.13	LOS D	Y	-	-	-

Performance Results

AM Peak Hour		2045 Modified LPA ¹								
#	Intersection	Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
59A	Tomahawk Island Dr & Arterial Bridge Access	Overall	18	B	0.72	LOS D	Y	-	-	-
61	Tomahawk Island Dr & Jantzen Dr	Overall	9	A	0.63	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	206	F	0.83	V/C = 0.75	N	EBL/EBT	650/1100	805/1525
64	Marine Dr & Vancouver Way	Overall	8	A	0.40	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	-	-	-

2045 Modified LPA Design Option ²									
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)	

Performance Results

PM Peak Hour		2045 Modified LPA ¹									2045 Modified LPA Design Option ²									
#	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	-	-	-										
2	Hazel Dell & Main Street (West) & stop controlled slip ramp	Overall	8	A	0.50	LOS D	Y	-	-	-										
3	39th Street & Main Street	Overall	164	F	0.68	LOS E	N	EBL/EBTR/WB L/WBTR/NBL/ SBL	70/1425/75/7 85/75/75	175/1825/155 /970/105/120										
4	39th Street & I-5 SB On-/Off-Ramps	NBL	544	F	1.07	LOS D	N	EBTR/WBL/ WBT/NBLR	100/115/705/ 300	165/230/920/ 355										
5	39th Street & I-5 NB On-/Off-Ramps	Overall	46	D	0.81	LOS D	Y	WBTR/NB	315/425	395/505										
6	15th Ave & SR 500 WB Off-Ramp	Overall	21	C	0.49	LOS E	Y	-	-	-										
7	15th Ave & SR 500 EB On-Ramp/39th Street	Overall	7	A	0.60	LOS E	Y	SBT/SBR	285/185	335/260										
8	Saint Johns Blvd & SR 500 WB On-/Off-Ramps	Overall	16	B	0.66	LOS E	Y	-	-	-										
9	Saint Johns Blvd & SR 500 EB On-/Off-Ramps	Overall	19	B	0.66	LOS E	Y	EBL/SBL	190/140	215/175										
10	4th Plain Blvd & Main Street	Overall	29	C	0.68	LOS E	Y	WBL/WBTR/ NBR/SBL	130/195/70/7 0/50	170/240/120/ 160/105										
11	4th Plain Blvd & Broadway Street	Overall	14	B	0.60	LOS E	Y	WBL	125	150										
12	4th Plain Blvd & I-5 SB On-/Off-Ramps	Overall	12	B	0.52	LOS D	Y	EBL	175	215										
13	4th Plain Blvd & I-5 NB On-/Off-Ramps	Overall	12	B	0.63	LOS D	Y	-	-	-										
14	4th Plain Blvd & Saint Johns Blvd	Overall	18	B	0.65	LOS E	Y	-	EXCEED	EXCEED										
15	4th Plain Blvd & Fort Vancouver Way	Overall	26	C	0.66	LOS E	Y	NBR/SBL	75/75	85/85										
16	McLoughlin Blvd & Main Street	Overall	7	A	0.51	LOS E	Y	-	-	-										
17	McLoughlin Blvd & Broadway Street	Overall	6	A	0.38	LOS E	Y	-	-	-										
18	McLoughlin Blvd & F Street	NBR	3	A	0.01	LOS E	Y	-	-	-										
19	McLoughlin Blvd & Fort Vancouver Way	Overall	11	B	0.39	LOS E	Y	-	EXCEED	EXCEED										
20	Mill Plain Blvd & Franklin Street	Overall	16	B	0.62	LOS E	Y	NBL/SBL	50/50	65/85	Overall	450	F	0.65	LOS E	N	EBL/EBT/ EBTR/NBL/ NBTR/SBL/ SBTR	160/945/945/ 50/485/50/38 0	220/1285/127 5/105/520/15 0/435	
21	Mill Plain Blvd WB & Columbia Street	Overall	19	B	0.48	LOS E	Y	NBLT	175	180	Overall	126	F	0.48	LOS E	N	WBLT/SBTR	225/255	265/325	
22	Mill Plain Blvd WB & Washington Street	Overall	33	C	0.47	LOS E	Y	-	EXCEED	EXCEED	Overall	289	F	0.47	LOS E	N	WBL/WBT/ SBTR	200/200/270	275/210/370	
23	Mill Plain Blvd WB & Main Street	Overall	35	D	0.67	LOS E	Y	WBLT/WBTR/ NBLT/SBTR	190/190/190/ 255	225/195/200/ 260	Overall	349	F	0.68	LOS E	N	WBLT/WBT/ WBTR// NBLT/SBTR	190/190/190/ 190/255	250/250/200/ 245/320	
24	Mill Plain Blvd WB & Broadway Street	Overall	32	C	0.68	LOS E	Y	WBLT/WBT	220/220	260/240	Overall	192	F	1.17	LOS E	N	WBLT/WBT/S BTR	220/220/265	280/295/330	
25	Mill Plain Blvd WB & C Street	Overall	102	F	0.57	LOS E	N	WBLT/WBT/W BTR/SBTR	395/395/395/ 235	475/465/470/ 310	Overall	690	F	0.64	LOS E	N	WBLT/WBT/ WBTR/NBLT/ SBTR	395/395/395/ 195/235	495/530/550/ 245/290	
26	Mill Plain Blvd EB & Columbia Street	Overall	41	D	0.80	LOS E	Y	EBTR/NBTR/ SBLT	390/235/175	420/300/195	Overall	238	F	0.82	LOS E	N	EBLT/EBTR/N BTR/SBLT	390/390/235/ 175	565/450/270/ 245	
27	Mill Plain Blvd EB & Washington Street	Overall	26	C	0.52	LOS E	Y	EBT/EBTR/ SBLT	230/230/180	250/285/205	Overall	51	D	0.55	LOS E	Y	EBT/EBTR/ SBLT	230/230/180	275/260/215	
28	Mill Plain Blvd EB & Main Street	Overall	48	D	0.82	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBLT	205/205/205/ 215/190	230/250/270/ 260/210	Overall	213	F	0.91	LOS E	N	EBLT/EBT/ EBTR/NBTR/ SBLT	205/205/205/ 215/190	255/270/235/ 265/235	

Performance Results

PM Peak Hour		2045 Modified LPA ¹										2045 Modified LPA Design Option ²									
#	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	54	D	0.68	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBL	205/205/205/ 240/50	230/245/265/ 345/135	Overall	187	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	49	D	0.97	LOS E	Y	EBLT/EBT/ EBTR/NBT/ NBR/SBL	215/215/215/ 270/270/195	275/280/285/ 365/360/260	Overall	194	F	1.14	LOS E	N	EBLT/EBT/ EBTR/NBT/ 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	73	E	1.04	LOS D	N	EBT	375	560	Overall	462	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	80	F	1.04	LOS D	N	EBL/NBL/ NBLT	355/595/595	410/645/625	Overall	634	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	195	Overall	302	F	0.77	LOS E	N	WBL/WBT/W BTR/NBL/NB T/SBTR	125/620/620/ 75/685/550	175/715/770/ 235/910/650		
34	Evergreen Blvd & Columbia Street	Overall	23	C	0.67	LOS E	Y	EBL/SB	50/225	80/230	Overall	30	C	0.68	LOS E	Y	EBL/SBLTR	50/225	EXCEED		
35	Evergreen Blvd & Washington Street	Overall	21	C	0.48	LOS E	Y	SBLT	245	255	Overall	23	C	0.48	LOS E	Y	SBLT	245.00	260.00		
36	Evergreen Blvd & Main Street	Overall	12	B	0.62	LOS E	Y	EBL	55	60	Overall	13	B	0.63	LOS E	Y	-	-	-		
37	Evergreen Blvd & Broadway Street	Overall	12	B	0.68	LOS E	Y	-	-	-	Overall	15	B	0.68	LOS E	Y	NBLT	240.00	245.00		
38	Evergreen Blvd & C Street	Overall	43	D	0.71	LOS E	Y	WBL/NBL/ NBTR/SBL	50/70/485/65	65/140/575/95	Overall	19	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	510.00	555.00		
40	8th Street & Columbia Street	Overall	15	B	0.67	LOS E	Y	NBL/NBTR	65/215	70/300	Overall	19	B	0.67	LOS E	Y	NBL/NBTR	65/215	90/325		
41	8th Street & C Street	Overall	34	C	0.52	LOS E	Y	NBL/NBT	75/220	130/245	Overall	14	B	0.34	LOS E	Y	NBL	75.00	85.00		
42	6th Street & Grant Street	WBL	46	E	0.74	LOS E	Y	WBL	100	160	WBL	109	F	0.73	LOS E	N	WBL	100.00	165.00		
43	6th Street & Esther Street	Overall	6	A	0.24	LOS E	Y	-	-	-	Overall	6	A	0.24	LOS E	Y	-	-	-		
44	6th Street & Columbia Street	Overall	20	C	0.72	LOS E	Y	NBL/NBTR/ SBL	55/200/60	110/220/65	Overall	21	C	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	-	EXCEED	EXCEED	Overall	11	B	0.41	LOS E	Y	-	-	-		
46	6th Street & Main Street	Overall	7	A	0.29	LOS E	Y	EBL	50	65	Overall	6	A	0.29	LOS E	Y	EBL	50.00	60.00		
47	6th Street & Broadway Street	SBL	9	A	0.14	LOS E	Y	-	-	-	SBR	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	5	A	0.38	LOS D	Y	-	-	-											
49A	5th Street & Main St	Overall	6	A	0.43	LOS E	Y	-	-	-											
50	Phil Arnold Way & Esther Street	WBL	10	A	0.31	LOS E	Y	-	-	-											
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	EBL	78	F	0.37	LOS E	N	SW	585	870	WBL	8	A	0.37	LOS E	Y	WBLTR/WBR	585/585	795/690		
51A	Phil Arnold Way & Main St/SR 14 EB On-Ramp	Overall	5	A	0.40	LOS D	Y	-	-	-	Overall	5	A	0.40	LOS D	Y	-	-	-		
52	Columbia Way & Esther Street	Overall	7	A	0.47	LOS E	Y	-	-	-											
53	Columbia Way & Columbia Street	Overall	7	A	0.42	LOS E	Y	-	-	-											
53A	Columbia Way & Main St	Overall	0	A	0.24	LOS E	Y	-	-	-											
54	Columbia House Blvd & SR 14 EB/WB On-/Off-Ramp (SPUI)	Overall	62	E	0.72	LOS D	N	EBR/NBL/NBT/ NBR	115/50/245/1 25	180/150/265/ 155											

Performance Results

PM Peak Hour		2045 Modified LPA ¹								
#	Intersection	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	294	F	0.63	LOS D	N	EBL/EBTR/ WBT/WBR/ NB/SB	50/620/710/1 00/345/245	180/757/930/ 155/450/370
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	0.52	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	6	A	0.38	LOS D	Y	-	-	-
59A	Tomahawk Island Dr & Arterial Bridge Access	Overall	13	B	0.64	LOS D	Y	-	-	-
61	Tomahawk Island Dr & Jantzen Dr	EBL	18	C	0.79	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	69	E	0.76	V/C = 0.75	N	EBL/EBT	650/2135	720/3045
64	Marine Dr & Vancouver Way	Overall	14	B	0.65	V/C = 0.80	Y	-	-	-
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St	Overall	5	A	0.37	V/C = 0.75	Y	-	-	-

2045 Modified LPA Design Option ²								
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
[Redacted Data]								

Performance Results

AM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 ³									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 ⁴									
#	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	4	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	27	C	0.60	LOS E	Y	WBL/SBL	370/50	380/90	Overall	33	C	0.60	LOS E	Y	WBL/SBL	370/50	415/90	
21	Mill Plain Blvd WB & Columbia Street	Overall	11	B	0.46	LOS E	Y	-	-	-	Overall	12	B	0.47	LOS E	Y	-	-	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	6	A	0.59	LOS E	Y	-	-	-	Overall	7	A	0.55	LOS E	Y	-	-	-	-
23	Mill Plain Blvd WB & Main Street	Overall	46	D	0.77	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255	245/245/235/325	Overall	51	D	0.77	LOS E	Y	WBLT/WBT/WBTR/SBTR	190/190/190/255	250/245/245/330	
24	Mill Plain Blvd WB & Broadway Street	Overall	19	B	0.92	LOS E	Y	WBLT/WBT/WBTR	220/220/220	290/315/270	Overall	22	C	0.92	LOS E	Y	WBLT/WBT/WBTR	220/220/220/	285/315/295	
25	Mill Plain Blvd WB & C Street	Overall	100	F	0.73	LOS E	N	WBLT/WBT/WBTR	395/395/395	520/525/510	Overall	122	F	0.73	LOS E	N	WBLT/WBT/WBTR	395/395/395	515/515/495	
26	Mill Plain Blvd EB & Columbia Street	Overall	24	C	0.70	LOS E	Y	-	-	-	Overall	24	C	0.70	LOS E	Y	SBLT	175	195	
27	Mill Plain Blvd EB & Washington Street	Overall	15	B	0.44	LOS E	Y	EBTR	230	280	Overall	16	B	0.44	LOS E	Y	EBT/EBTR	230/230	235/285	
28	Mill Plain Blvd EB & Main Street	Overall	14	B	0.63	LOS E	Y	EBTR/SBLT	205/190	260/220	Overall	16	B	0.65	LOS E	Y	EBTR/SBLT	205/190	265/240	
29	Mill Plain Blvd EB & Broadway Street	Overall	14	B	0.92	LOS E	Y	EBTR/SBL	205/50	255/55	Overall	15	B	0.92	LOS E	Y	EBTR	205	255	
30	Mill Plain Blvd EB & C Street	Overall	11	B	0.55	LOS E	Y	EBTR	215	245	Overall	12	B	0.55	LOS E	Y	EBTR	215	240	
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	68	E	0.62	LOS D	N	WBL/WBT/SBL/SBR	200/365/1345/1345	235/390/1755/1815	Overall	59	E	0.62	LOS D	N	WBL/WBT/SBL/SBR	200/365/1345/1345	240/390/1595/1675	
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	33	C	0.62	LOS D	Y	WBL/WBT	300/635	505/795	Overall	33	C	0.62	LOS D	Y	WBL/WBT	300/635	490/770	
33	Mill Plain Blvd & Fort Vancouver Way	Overall	51	D	0.66	LOS E	Y	WBL/WBT/NBL	125/620/75	215/635/175	Overall	47	D	0.66	LOS E	Y	WBL/NBL	125/75	155/155	
34	Evergreen Blvd & Columbia Street	Overall	7	A	0.41	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	290										
36	Evergreen Blvd & Main Street	Overall	11	B	0.44	LOS E	Y	-	-	-	Overall	12	B	0.44	LOS E	Y	-	-	-	-

Performance Results

AM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 ³								
#	Intersection	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	-	-	-
38	Evergreen Blvd & C Street	Overall	38	D	0.58	LOS E	Y	WBL/NBL/ NBTR/SBTR	50/70/485/24 0	70/145/525/2 65
39	Evergreen Blvd & Fort Vancouver Way									
40	8th Street & Columbia Street	Overall	12	B	0.78	LOS E	Y	NBL/NBTR	65/215	150/320
41	8th Street & C Street	Overall	25	C	0.48	LOS E	Y	NBL/NBT	75/220	115/250
42	6th Street & Grant Street									
43	6th Street & Esther Street	Overall	6	A	0.15	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	16	B	0.62	LOS E	Y	NBL/NBTR	55/200	125/250
45	6th Street & Washington Street	Overall	9	A	0.40	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	5	A	0.27	LOS E	Y	-	-	-
47	6th Street & Broadway Street	NBR	6	A	0.05	LOS E	Y	-	-	-
48	6th Street & C Street/I-5 SB On-Ramp									
49	5th Street & Washington Street	Overall	10	A	0.47	LOS D	Y	-	-	-
49A	5th Street & Main St	Overall	6	A	0.24	LOS E	Y	-	-	-
50	Phil Arnold Way & Esther Street	NBL	11	B	0.39	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	WBL	7	A	0.67	LOS E	Y	WBLTR/WBR	585/585	860/855
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	3	A	0.35	LOS E	Y	SBL	55	80
53	Columbia Way & Columbia Street									
53A	Columbia Way & Main St	Overall	0	A	0.22	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									

2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 ⁴								
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
Overall	16	B	0.68	LOS E	Y	-	-	-
Overall	43	D	0.57	LOS E	Y	WBL/NBL/ NBTR/SBL/ SBTR	50/70/485/65/ 240	70/145/520/7 0/285
Overall	13	B	0.67	LOS E	Y	NBL/NBTR	65/215	150/325
Overall	37	D	0.58	LOS E	Y	NBL/NBT	75/220	120/255
Overall	16	B	0.72	LOS E	Y	NBL/NBTR	55/200	120/250
Overall	10	A	0.40	LOS E	Y	-	-	-
Overall	5	A	0.25	LOS E	Y	-	-	-
EBR	8	A	0.82	LOS E	Y	WBLTR/WBR	585/585	755/745
Overall	3	A	0.13	LOS D	Y	-	-	-
Overall	8	A	0.49	LOS E	Y	SBL	100	140
Overall	0	A	0.22	LOS E	Y	-	-	-

Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 ³									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 ⁴									
#	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	7	A	0.51	LOS E	Y	-	-	-	-
17	McLoughlin Blvd & Broadway Street	Overall	5	A	0.38	LOS E	Y	-	-	-	Overall	5	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	12	B	0.39	LOS E	Y	NBL	80	95.00	Overall	12	B	0.39	LOS E	Y	-	-	-	-
20	Mill Plain Blvd & Franklin Street	Overall	17	B	0.62	LOS E	Y	NBL/SBL	50/50	75/85	Overall	16	B	0.62	LOS E	Y	NBL/SBL	50/50	70/85	
21	Mill Plain Blvd WB & Columbia Street	Overall	22	C	0.48	LOS E	Y	-	-	-	Overall	23	C	0.48	LOS E	Y	-	-	-	-
22	Mill Plain Blvd WB & Washington Street	Overall	29	C	0.46	LOS E	Y	WBL	200.00	220.00	Overall	32	C	0.47	LOS E	Y	WBL	200.00	230.00	
23	Mill Plain Blvd WB & Main Street	Overall	43	D	0.67	LOS E	Y	WBLT/SBTR	190/255	240/290	Overall	38	D	0.67	LOS E	Y	WBLT/NBLT/ SBTR	190/190/255	245/215/285	
24	Mill Plain Blvd WB & Broadway Street	Overall	30	C	0.67	LOS E	Y	WBLT/WBT	220/220	270/240	Overall	32	C	0.68	LOS E	Y	WBLT/WBT	220/220	280/255	
25	Mill Plain Blvd WB & C Street	Overall	117	F	0.57	LOS E	N	WBLT/WBT/W BTR/SBTR	395/395/395/ 235	510/485/480/ 325	Overall	97	F	0.57	LOS E	N	WBLT/WBT/ WBTR/SBTR	395/395/395/ 235	510/505/495/ 310	
26	Mill Plain Blvd EB & Columbia Street	Overall	37	D	0.80	LOS E	Y	EBLT/EBTR/ NBTR/SBLT	390/390/235/ 175	395/430/295/ 180	Overall	47	D	0.80	LOS E	Y	EBLT/EBTR/N BTR/SBLT	390/390/235/ 175	420/450/300/ 185	
27	Mill Plain Blvd EB & Washington Street	Overall	25	C	0.51	LOS E	Y	EBT/EBTR/ SBLT	230/230/180	260/300/215	Overall	25	C	0.52	LOS E	Y	EBT/EBTR/ SBLT	230/230/180	260/295/2125	
28	Mill Plain Blvd EB & Main Street	Overall	43	D	0.84	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBLT	205/205/205/ 215/190	235/250/265/ 265/225	Overall	58	E	0.82	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBLT	205/205/205/ 215/190	250/270/265/ 260/225	
29	Mill Plain Blvd EB & Broadway Street	Overall	49	D	0.67	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBL	205/205/205/ 240/200	245/260/265/ 330/200	Overall	52	D	0.68	LOS E	Y	EBLT/EBT/ EBTR/NBTR/ SBL	205/205/205/ 240/50	235/250/270/ 335/125	
30	Mill Plain Blvd EB & C Street	Overall	60	E	0.98	LOS E	Y	EBLT/EBT/ EBTR/NBT/ NBR/SBL	215/215/215/ 270/270/195	280/285/285/ 375/355/265	Overall	51	D	0.97	LOS E	Y	EBLT/EBT/ EBTR/NBT/ NBR/SBL	215/215/215/ 270/270/195	270/280/290/ 340/360/255/ 105	
31	Mill Plain Blvd & I-5 SB On-/Off-Ramps	Overall	79	E	1.04	LOS D	N	EBT	375.00	575.00	Overall	74	E	1.04	LOS D	N	EBT/SBR	375/990	570/1000	
32	Mill Plain Blvd & I-5 NB On-/Off-Ramps	Overall	86	F	1.04	LOS D	N	EBL/NBL/ NBLT/NBR	355/595/595/ 350	405/680/685/ 480	Overall	79	E	1.04	LOS D	N	EBL/NBL/ NBLT/NBR	355/595/595/ 350	405/675/675/ 480	

Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 ³								
#	Intersection	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	33	C	0.76	LOS E	Y	NBL	75.00	200.00
34	Evergreen Blvd & Columbia Street	Overall	18	B	0.59	LOS E	Y	EBL/WBL/ SBLTR	50/70/225	80/80/230
35	Evergreen Blvd & Washington Street	Overall	20	B	0.48	LOS E	Y	SBLT	245.00	255.00
36	Evergreen Blvd & Main Street	Overall	12	B	0.63	LOS E	Y	EBL	55.00	60.00
37	Evergreen Blvd & Broadway Street	Overall	10	B	0.68	LOS E	Y	-	-	-
38	Evergreen Blvd & C Street	Overall	245	F	0.72	LOS E	N	WBL/NBL/ NBTR/SBL	50/70/485/65	65/155/545/85
39	Evergreen Blvd & Fort Vancouver Way									
40	8th Street & Columbia Street	Overall	12	B	0.65	LOS E	Y	NBL/NBTR	65/215	80/275
41	8th Street & C Street	Overall	28	C	0.46	LOS E	Y	NBL/NBT	75/220	100/240
42	6th Street & Grant Street									
43	6th Street & Esther Street	Overall	6	A	0.24	LOS E	Y	-	-	-
44	6th Street & Columbia Street	Overall	19	B	0.70	LOS E	Y	NBL/NBTR/ SBL	55/200/60	110/225/65
45	6th Street & Washington Street	Overall	11	B	0.45	LOS E	Y	-	-	-
46	6th Street & Main Street	Overall	7	A	0.31	LOS E	Y	EBL	50.00	65.00
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	B	0.55	LOS E	Y	EBLTR	200.00	205.00
50	Phil Arnold Way & Esther Street	EBL	10	B	0.31	LOS E	Y	-	-	-
51	Phil Arnold Way & Columbia Street/SR-14 WB Off-ramp	WBL	7	A	0.37	LOS E	Y	WBLTR/WBR	585/585	780/660
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	7	A	0.47	LOS E	Y	-	-	-
53	Columbia Way & Columbia Street									
53A	Columbia Way & Main St	Overall	0	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									
63	Marine Dr/MLK Blvd & I-5 NB/SB On-/Off-Ramps									

2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 ⁴								
Approach/ Movement	Delay (s)	LOS	ICU/ v/c	Standard	Meets Standard	Queue Movement	Storage Length	95% Queue (ft)
Overall	30	C	0.76	LOS E	Y	NBL	75.00	205.00
Overall	19	B	0.67	LOS E	Y	EBL	50.00	75.00
Overall	12	B	0.62	LOS E	Y	-	-	-
Overall	11	B	0.68	LOS E	Y	-	-	-
Overall	40	D	0.71	LOS E	Y	WBL/NBL/ NBTR/SBL	50/70/485/65/ 240	60/140/570/90
Overall	13	B	0.67	LOS E	Y	NBL/NBTR	65/215	125/250
Overall	38	D	0.52	LOS E	Y	NBL/NBT	75/220	125/250
Overall	23	C	0.75	LOS E	Y	NBL/NBTR/ SBL	55/200/60	105/225/75
Overall	13	B	0.48	LOS E	Y	SBLT	210.00	215.00
Overall	9	A	0.31	LOS E	Y	EBL	50.00	70.00
NBT	9	A	0.45	LOS E	Y	WBLTR/WBR	585/585	915/855
Overall	5	A	0.40	LOS D	Y	-	-	-
Overall	9	A	0.50	LOS E	Y	-	-	-
Overall	0	A	0.24	LOS E	Y	-	-	-

Performance Results

PM Peak Hour		2045 Modified LPA Park and Ride Sites: Evergreen #1, Waterfront #1 ³									2045 Modified LPA Park and Ride Sites: Evergreen #2, Waterfront #2 ⁴									
#	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																			
64A	I-5 SB Marine Drive On-Ramp & N Pier 99 St																			