

**IMPROVED SAFETY PERFORMANCE
FUNCTIONS FOR SIGNALIZED
INTERSECTIONS**

Appendix E Final Report

SPR 756



Oregon Department of Transportation

APPENDIX E

SITE INFORMATION

APPENDIX E – SITE INFORMATION

LIST OF TABLES IN APPENDIX E

Table E.1: Region 1 County List	5
Table E.2: Location and Geometric Configuration – Intersection #1	7
Table E.3: Lane Geometry – Intersection #1	8
Table E.4: Location and Geometric Configuration – Intersection #2	10
Table E.5: Lane Geometry – Intersection #2	11
Table E.6: Location and Geometric Configuration – Intersection #3	13
Table E.7: Lane Geometry – Intersection #3	14
Table E.8: Location and Geometric Configuration – Intersection #4	16
Table E.9: Lane Geometry – Intersection #4	17
Table E.10: Location and Geometric Configuration – Intersection #5	19
Table E.11: Lane Geometry – Intersection #5	20
Table E.12: Location and Geometric Configuration – Intersection #6	22
Table E.13: Lane Geometry – Intersection #6	23
Table E.14: Location and Geometric Configuration – Intersection #7	25
Table E.15: Lane Geometry – Intersection #7	26
Table E.16: Location and Geometric Configuration – Intersection #8	28
Table E.17: Lane Geometry – Intersection #8	29
Table E.18: Location and Geometric Configuration – Intersection #9	31
Table E.19: Lane Geometry – Intersection #9	32
Table E.20: Location and Geometric Configuration – Intersection #10	34
Table E.21: Lane Geometry – Intersection #10	35
Table E.22: Location and Geometric Configuration – Intersection #11	37
Table E.23: Lane Geometry – Intersection #11	38
Table E.24: Location and Geometric Configuration – Intersection #12	40
Table E.25: Lane Geometry – Intersection #12	41
Table E.26: Region 2 County List	42
Table E.27: Location and Geometric Configuration – Intersection #13	44
Table E.28: Lane Geometry – Intersection #13	45
Table E.29: Location and Geometric Configuration – Intersection #14	47
Table E.30: Lane Geometry – Intersection #14	48
Table E.31: Location and Geometric Configuration – Intersection #15	50
Table E.32: Lane Geometry – Intersection #15	51
Table E.33: Location and Geometric Configuration – Intersection #16	53
Table E.34: Lane Geometry – Intersection #16	54
Table E.35: Location and Geometric Configuration – Intersection #17	56
Table E.36: Lane Geometry – Intersection #17	57
Table E.37: Location and Geometric Configuration – Intersection #18	59
Table E.38: Lane Geometry – Intersection #18	60
Table E.39: Location and Geometric Configuration – Intersection #19	62
Table E.40: Lane Geometry – Intersection #19	63
Table E.41: Location and Geometric Configuration – Intersection #20	65
Table E.42: Lane Geometry – Intersection #20	66
Table E.43: Location and Geometric Configuration – Intersection #21	68
Table E.44: Lane Geometry – Intersection #21	69
Table E.45: Location and Geometric Configuration – Intersection #22	71
Table E.46: Lane Geometry – Intersection #22	72
Table E.47: Location and Geometric Configuration – Intersection #23	74
Table E.48: Lane Geometry – Intersection #23	75
Table E.49: Location and Geometric Configuration – Intersection #24	77
Table E.50: Lane Geometry – Intersection #24	78

Table E.51: Location and Geometric Configuration – Intersection #25	80
Table E.52: Lane Geometry – Intersection #25	81
Table E.53: Location and Geometric Configuration – Intersection #26	83
Table E.54: Lane Geometry – Intersection #26 Lane Geometry – Intersection #26	84
Table E.55: Location and Geometric Configuration – Intersection #27	86
Table E.56: Lane Geometry – Intersection #27	87
Table E.57: Location and Geometric Configuration – Intersection #28	89
Table E.58: Lane Geometry – Intersection #28	90
Table E.59: Region 3	91
Table E.60: Location and Geometric Configuration – Intersection #29	93
Table E.61: Lane Geometry – Intersection #29	94
Table E.62: Location and Geometric Configuration – Intersection #30	96
Table E.63: Lane Geometry – Intersection #30	97
Table E.64: Location and Geometric Configuration – Intersection #31	99
Table E.65: Lane Geometry – Intersection #31	100
Table E.66: Location and Geometric Configuration – Intersection #32	102
Table E.67: Lane Geometry – Intersection #32	103
Table E.68: Location and Geometric Configuration – Intersection #33	105
Table E.69: Lane Geometry – Intersection #33	106
Table E.70: Location and Geometric Configuration – Intersection #34	108
Table E.71: Lane Geometry – Intersection #34	109
Table E.72: Location and Geometric Configuration – Intersection #35	111
Table E.73: Lane Geometry – Intersection #35	112
Table E.74: Location and Geometric Configuration – Intersection #36	114
Table E.75: Lane Geometry – Intersection #36	115
Table E.76: Location and Geometric Configuration – Intersection #37	117
Table E.77: Lane Geometry – Intersection #37	118
Table E.78: Region 4	119
Table E.79: Location and Geometric Configuration – Intersection #38	121
Table E.80: Lane Geometry – Intersection #38	122
Table E.81: Location and Geometric Configuration – Intersection #39	124
Table E.82: Lane Geometry – Intersection #39	125
Table E.83: Location and Geometric Configuration – Intersection #40	127
Table E.84: Lane Geometry – Intersection #40	128
Table E.85: Location and Geometric Configuration – Intersection #41	130
Table E.86: Lane Geometry – Intersection #41	131
Table E.87: Location and Geometric Configuration – Intersection #42	133
Table E.88: Lane Geometry – Intersection #42	134
Table E.89: Location and Geometric Configuration – Intersection #43	136
Table E.90: Lane Geometry – Intersection #43	137
Table E.91: Location and Geometric Configuration – Intersection #44	139
Table E.92: Lane Geometry – Intersection #44	140
Table E.93: Region 5	141
Table E.94: Location and Geometric Configuration – Intersection #45	143
Table E.95: Lane Geometry – Intersection #45	144
Table E.96: Location and Geometric Configuration – Intersection #46	146
Table E.97: Lane Geometry – Intersection #46	147
Table E.98: Location and Geometric Configuration – Intersection #47	149
Table E.99: Lane Geometry – Intersection #47	150
Table E.100: Location and Geometric Configuration – Intersection #48	152
Table E.101: Lane Geometry – Intersection #48	153
Table E.102: Location and Geometric Configuration – Intersection #49	155
Table E.103: Lane Geometry – Intersection #49	156
Table E.104: Location and Geometric Configuration – Intersection #50	158
Table E.105: Lane Geometry – Intersection #50	159

LIST OF FIGURES IN APPENDIX E

Figure E.2: Photos for Intersection #1	6
Figure E.3: Photos for Intersection #2	9
Figure E.4: Photos for Intersection #3	12
Figure E.5: Photos for Intersection #4	15
Figure E.6: Photos for Intersection #5	18
Figure E.7: Photos for Intersection #6	21
Figure E.8: Photos for Intersection #7	24
Figure E.9: Photos for Intersection #8	27
Figure E.10: Photos for Intersection #9	30
Figure E.11: Photos for Intersection #10	33
Figure E.12: Photos for Intersection #11	36
Figure E.13: Photos for Intersection #12	39
Figure E.14: Photos for Intersection #13	43
Figure E.15: Photos for Intersection #14	46
Figure E.16: Photos for Intersection #15	49
Figure E.17: Photos for Intersection #16	52
Figure E.18: Photos for Intersection #17	55
Figure E.19: Photos for Intersection #18	58
Figure E.20: Photos for Intersection #19	61
Figure E.21: Photos for Intersection #20	64
Figure E.22: Photos for Intersection #21	67
Figure E.23: Photos for Intersection #22	70
Figure E.24: Photos for Intersection #23	73
Figure E.25: Photos for Intersection #24	76
Figure E.26: Photos for Intersection #25	79
Figure E.27: Photos for Intersection #26	82
Figure E.28: Photos for Intersection #27	85
Figure E.29: Photos for Intersection #28	88
Figure E.30: Photos for Intersection #29	92
Figure E.31: Photos for Intersection #30	95
Figure E.32: Photos for Intersection #31	98
Figure E.33: Photos for Intersection #32	101
Figure E.34: Photos for Intersection #33	104
Figure E.35: Photos for Intersection #34	107
Figure E.36: Photos for Intersection #35	110
Figure E.37: Photos for Intersection #36	113
Figure E.38: Photos for Intersection #37	116
Figure E.39: Photos for Intersection #38	120
Figure E.40: Photos for Intersection #39	123
Figure E.41: Photos for Intersection #40	126
Figure E.42: Photos for Intersection #41	129
Figure E.43: Photos for Intersection #42	132
Figure E.44: Photos for Intersection #43	135
Figure E.45: Photos for Intersection #44	138
Figure E.46: Photos for Intersection #45	142
Figure E.47: Photos for Intersection #46	145
Figure E.48: Photos for Intersection #47	148
Figure E.49: Photos for Intersection #48	151
Figure E.50: Photos for Intersection #49	154
Figure E.51: Photos for Intersection #50	157

E. REGION 1 COUNTY LIST

Table E.1:Region 1 County List

County ID	County Name
03	Clackmas
14	Hood River
26	Multnomah
34	Washington

Intersection 1: SE Sunnyside at SE Stevens Rd., Happy Valley (Clackamas County)



Aerial Photo



Street View

Figure E.1: Photos for Intersection #1

Table E.2: Location and Geometric Configuration – Intersection #1

Location	Latitude:45.433403		Longitude:-122.561669	
Milepost	0.52			
Int. Type ¹	1			
ODOT Region	Region 1			
Road 1 Name	SE Sunnyside	Road 2 Name	SE Stevens Rd.	
No. of lanes ²	5 (2,2,TWLTL)	No. of lanes ²	4 (2,2)	
Road No.	--	Road No.	--	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	WB	EB	NB	SB
Speed Limit (mph)	40	40	10	35
Road Width ³ (Face-face, ft)	71	88	47	62
Road Width at Int. ³ (Face-face at stop bar, ft)	96	109	47	67
Closest Int. Upstream ⁴ (ft. behind stop bar)	135	481	255	148
Closest Int. Downstream ⁴ (ft. behind stop bar)	332	512	303	423
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	--	--
Dwy. Location	0	0	0	0
Dwy. Type	0	0	0	0
Median Type	4	4	1	4
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	4	4
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	1	12	12	1
Signs on Traffic Light Pole/Span wire	7, 9, 10	7, 2, 11	1, 4	1, 4, 2
Pedestrian Crossing Light	1	1	1	2

Table E.3: Lane Geometry – Intersection #1

Description	Road 1	Road 2	Description	Road 1
Exclusive Left Turn Lane per direction ⁶	1	2	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	1
Exclusive Thru Lane ⁶	2	2	0	0
Shared - Right Turn & Thru Lane ⁶	1	0	0	0
Exclusive Right Turn Lane ⁶	0	1	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	1	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	143	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	132	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	166	279	N/A	175
Left Turn Lane - Taper Length ⁷ (ft.)	74	286	N/A	92
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	4
Exclusive Right Turn Lane Signalization ¹¹	0	5	0	3

Intersection 2: SE Sunnyside Road at SE 152nd Avenue, Happy Valley (Clackamas County)



Figure E.2: Photos for Intersection #2

Table E.4: Location and Geometric Configuration – Intersection #2

Location	Latitude: 45.425264		Longitude: -122.507192	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 1			
Road 1 Name	SE Sunnyside Rd.	Road 2 Name	SE 152 nd Ave.	
No. of lanes ²	4 (2,2)	No. of lanes ²	NB: 3 (1,1,TWLTL), SB: 2 (1,1)	
Road No.	--	Road No.	--	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	WB	EB	NB	SB
Speed Limit (mph)	40	40	35	35
Road Width ³ (Face-face, ft)	71	72	45	42
Road Width at Int. ³ (Face-face at stop bar, ft)	77	92	63	53
Closest Int. Upstream ⁴ (ft. behind stop bar)	1426	1233	328	576
Closest Int. Downstream ⁴ (ft. behind stop bar)	1339	1530	712	466
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	217	--
Dwy. Location	0	0	1	0
Dwy. Type	0	0	2	0
Median Type	4	4	2	4
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	3	3
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	1	1	12	12
Signs on Traffic Light Pole/Span wire	0	2	0	0
Pedestrian Crossing Light	1	1	1	1

Table E.5: Lane Geometry – Intersection #2

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	2	0	0
Shared - Right Turn & Thru Lane ⁶	1	0	1	1
Exclusive Right Turn Lane ⁶	0	1	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	150	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	113	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	101	289	168	205
Left Turn Lane - Taper Length ⁷ (ft.)	684	84	74	108
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	5	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1	0	0

Intersection 3: NW Evergreen Pkwy. at NW Stucki Place, Hillsboro (Washington County)



Figure E.3: Photos for Intersection #3

Table E.6: Location and Geometric Configuration – Intersection #3

Location	Latitude:45.540639		Longitude-122.874272					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	NW Evergreen Pkwy.		Road 2 Name NW Stucki Pl.					
No. of lanes ²	4 (2,2)		No. of lanes ² NB: 5 (2,2,TWLTL), SB: 5 (3,2)					
Road No.	--		Road No. --					
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB EB		NB SB					
Speed Limit (mph)	40 40		45 45					
Road Width ³ (Face-face, ft)	68 70		71 59					
Road Width at Int. ³ (Face-face at stop bar, ft)	74 71		74 62					
Closest Int. Upstream ⁴ (ft. behind stop bar)	1388 572		1217 324					
Closest Int. Downstream ⁴ (ft. behind stop bar)	695 1512		448 1337					
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	521	521	--	--	195	429	--	--
Dwy. Location	1	2	0	0	2	2	0	0
Dwy. Type	2	1	0	0	2	2	0	0
Median Type	4		4		2		4	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		4	
Bus Stop Near Int.	3		1		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		428		N/A		N/A	
Traffic Control Device ⁵	1		12		1		1	
Signs on Traffic Light Pole/Span wire	0		0		0		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.7: Lane Geometry – Intersection #3

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	1	1
Shared - Right Turn & Thru Lane ⁶	0	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	171	176	103	99
Left Turn Lane - Taper Length ⁷ (ft.)	68	69	48	N/A
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 4: SW Hart Road at SW 155th Avenue, Beaverton (Washington County)



Aerial Photo



Street View

Figure E.4: Photos for Intersection #4

Table E.8: Location and Geometric Configuration – Intersection #4

Location	Latitude: 45.465658		Longitude: -122.836267					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	SW Hart Rd.	Road 2 Name	SW 155 th Ave.					
No. of lanes ²	2 (1,1)	No. of lanes ²	2 (1,1)					
Road No.	--	Road No.	--					
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB	EB	NB	SB				
Speed Limit (mph)	35	35	30	25				
Road Width ³ (Face-face, ft)	44	41	47	44				
Road Width at Int. ³ (Face-face at stop bar, ft)	48	46	54	53				
Closest Int. Upstream ⁴ (ft. behind stop bar)	425	742	727	142				
Closest Int. Downstream ⁴ (ft. behind stop bar)	831	514	225	813				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	361	455	85	96	--	--
Dwy. Location	0	0	2	2	2	1	0	0
Dwy. Type	0	0	1	1	1	5	0	0
Median Type	1	2	1	1				
On-Street Parking	4	4	4	4				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A				
Bike Lane	3	3	3	3				
Bus Stop Near Int.	2	2	3	3				
Bus Stops Location (ft. behind stop bar)	64	81	N/A	N/A				
Traffic Control Device ⁵	1	1	1	1				
Signs on Traffic Light Pole/Span wire	6	6	6	6				
Pedestrian Crossing Light	1	1	1	1				

Table E.9: Lane Geometry – Intersection #4

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	200	109	200	107
Left Turn Lane - Taper Length ⁷ (ft.)	109	91	105	87
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	1	1
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 5: Cascade Hwy. (OR 213) at S Douglas Loop / S Molalla Ave., Oregon City (Clackamas County)



Aerial Photo



Street View

Figure E.5: Photos for Intersection #5

Table E.10: Location and Geometric Configuration – Intersection #5

Location	Latitude: 45.323166		Longitude: -122.578744	
Milepost	--			
Int. Type ¹				
ODOT Region	Region 1			
Road 1 Name	Cascade Hwy.	Road 2 Name	S Douglas Loop / S Molalla Ave.	
No. of lanes ²	4 (2,2)	No. of lanes ²	2 (1,1)	
Road No.	OR 213	Road No.	--	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	45	45	35	35
Road Width ³ (Face-face, ft)	71	75	48	50
Road Width at Int. ³ (Face-face at stop bar, ft)	99	102	77	91
Closest Int. Upstream ⁴ (ft. behind stop bar)	1068	3086	354	340
Closest Int. Downstream ⁴ (ft. behind stop bar)	3219	704	457	486
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	--	--
Dwy. Location	0	0	2	0
Dwy. Type	0	0	2	0
Median Type	4	1	1	1
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	4	3
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	2	2	2	13
Signs on Traffic Light Pole/Span wire	0	0	2	2
Pedestrian Crossing Light	1	1	1	1

Table E.11: Lane Geometry – Intersection #5

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	2	1	1
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	1	1	1	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	100	356	308	N/A
Right Turn Lane - Taper Length ⁷ (ft.)	114	166	120	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	621	523	296	148
Left Turn Lane - Taper Length ⁷ (ft.)	140	132	74	73
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1	5

Intersection 6: SE Division St at SE 11th Ave., Portland (Clackamas County)



Aerial Photo



Street View

Figure E.6: Photos for Intersection #6

Table E.12: Location and Geometric Configuration – Intersection #6

Location	Latitude: 45.504858		Longitude: -122.654743	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 1			
Road 1 Name	SE Division St.		Road 2 Name	SE 11 th Ave.
No. of lanes ²	2 (1,1)		No. of lanes ²	2 (2,0)
Road No.	--		Road No.	--
Description	Road 1		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	WB		EB	
Speed Limit (mph)	25		30	
Road Width ³ (Face-face, ft)	34		36	
Road Width at Int. ³ (Face-face at stop bar, ft)	33		36	
Closest Int. Upstream ⁴ (ft. behind stop bar)	191		211	
Closest Int. Downstream ⁴ (ft. behind stop bar)	272		251	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	23	68	138	--
Dwy. Location	2	2	2	0
Dwy. Type	2	2	5	0
Median Type	1		1	
On-Street Parking	3		3	
On-Street Parking Location (ends ft. behind stop bar)	0		0	
Bike Lane	4		4	
Bus Stop Near Int.	1, 2		3	
Bus Stops Location (ft. behind stop bar)	130, 185		N/A	
Traffic Control Device ⁵	2		2	
Signs on Traffic Light Pole/Span wire	6, 13		13	
Pedestrian Crossing Light	1		1	

Table E.13: Lane Geometry – Intersection #6

Description	Road 1	Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	0
Shared - Left Turn & Thru Lane ⁶	1	0	1
Exclusive Thru Lane ⁶	0	0	0
Shared - Right Turn & Thru Lane ⁶	0	1	1
Exclusive Right Turn Lane ⁶	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	6 & 2	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	0	0

Intersection 7: NE Sandy Blvd at NE 22nd Ave. / NE Glisan St., Portland (Multnomah County)



Aerial Photo



Street View

Figure E.7: Photos for Intersection #7

Table E.14: Location and Geometric Configuration – Intersection #7

Location	Latitude: 45.526500		Longitude: -122.643408	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 1			
Road 1 Name	NE Sandy Blvd.		Road 2 Name	NE 22 nd Ave./NE Glisan St.
No. of lanes ²	4 (2,2)		No. of lanes ²	3 (1,1,TWLTL)
Road No.	--		Road No.	--
Description	Road 1		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	NB		SB	
Speed Limit (mph)	30		30	
Road Width ³ (Face-face, ft)	57		56	
Road Width at Int. ³ (Face-face at stop bar, ft)	65		56	
Closest Int. Upstream ⁴ (ft. behind stop bar)	277		227	
Closest Int. Downstream ⁴ (ft. behind stop bar)	300		323	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	11	94
Dwy. Location	0	0	2	1
Dwy. Type	0	0	2	2
Median Type	1		1	
On-Street Parking	2		1	
On-Street Parking Location (ends ft. behind stop bar)	44		25	
Bike Lane	4		4	
Bus Stop Near Int.	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A	
Traffic Control Device ⁵	1		1	
Signs on Traffic Light Pole/Span wire	0		12	
Pedestrian Crossing Light	1		1	

Table E.15: Lane Geometry – Intersection #7

Description	Road 1		Road 2
Exclusive Left Turn Lane per direction ⁶	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0
Exclusive Thru Lane ⁶	1	1	0
Shared - Right Turn & Thru Lane ⁶	1	1	0
Exclusive Right Turn Lane ⁶	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	1
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	60	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	65	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	1
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0

Intersection 8: SE McLoughlin (OR 99E) Blvd. at SE Courtney Ave. (Clackamas County)



Aerial Photo



Street View

Figure E.8: Photos for Intersection #8

Table E.16: Location and Geometric Configuration – Intersection #8

Location	Latitude: 45.423099		Longitude: -122.633489					
Milepost	7.37							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	SE McLoughlin Blvd.	Road 2 Name	SE Courtney Ave.					
No. of lanes ²	5 (2,2,TWLTL)	No. of lanes ²	2 (1,1)					
Road No.	OR 99E	Road No.	--					
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	NB	SB	WB	EB				
Speed Limit (mph)	40	40	30	30				
Road Width ³ (Face-face, ft)	77	84	38	40				
Road Width at Int. ³ (Face-face at stop bar, ft)	87	87	40	40				
Closest Int. Upstream ⁴ (ft. behind stop bar)	879	329	495	993				
Closest Int. Downstream ⁴ (ft. behind stop bar)	394	949	1125	607				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	29	98	365	114	63	80	40	40
Dwy. Location	2	1	2	2	1	2	1	2
Dwy. Type	2	2	2	2	2	2	2	2
Median Type	2	2	1	1				
On-Street Parking	4	4	4	4				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A				
Bike Lane	3	3	3	3				
Bus Stop Near Int.	3	2, 1	3	3				
Bus Stops Location (ft. behind stop bar)	N/A	82, 154	N/A	N/A				
Traffic Control Device ⁵	2	2	2	2				
Signs on Traffic Light Pole/Span wire	2	2	0	0				
Pedestrian Crossing Light	1	1	1	1				

Table E.17: Lane Geometry – Intersection #8

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	2	0	0
Shared - Right Turn & Thru Lane ⁶	0	0	1	1
Exclusive Right Turn Lane ⁶	1	1	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	144	99	77	N/A
Right Turn Lane - Taper Length ⁷ (ft)	146	168	591	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	151	154	N/A	129
Left Turn Lane - Taper Length ⁷ (ft.)	142	143	N/A	68
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	0	0	0

Intersection 9: SE Burnside Rd. at SE 3rd St., Gresham (Multnomah County)



Aerial Photo



Street View

Figure E.9: Photos for Intersection #9

Table E.18: Location and Geometric Configuration – Intersection #9

Location	Latitude: 45.496550		Longitude: -122.408231	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 1			
Road 1 Name	SE Burnside Rd.	Road 2 Name	SE 3 rd St.	
No. of lanes ²	5 (2,2,TWLTL)	No. of lanes ²	WB: 3 (1,1,TWLTL), EB: 2 (1,1)	
Road No.	--	Road No.	--	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	SB	NB	WB	EB
Speed Limit (mph)	35	35	25	25
Road Width ³ (Face-face, ft)	74	73	37	39
Road Width at Int. ³ (Face-face at stop bar, ft)	76	74	41	47
Closest Int. Upstream ⁴ (ft. behind stop bar)	222	466	131	606
Closest Int. Downstream ⁴ (ft. behind stop bar)	522	1198	1005	230
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	298	--
Dwy. Location	0	0	1	0
Dwy. Type	0	0	2	0
Median Type	4	2	1	1
On-Street Parking	4	4	4	3
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	315
Bike Lane	3	3	4	4
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	2	2	2	2
Signs on Traffic Light Pole/Span wire	0	0	0	0
Pedestrian Crossing Light	1	1	1	1

Table E.19: Lane Geometry – Intersection #9

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	166	100	101	61
Left Turn Lane - Taper Length ⁷ (ft.)	85	42	71	50
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	2	2
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 10: W Burnside St. at 21st Ave., Portland (Multnomah County)



Aerial Photo



Street View

Figure E.10: Photos for Intersection #10

Table E.20: Location and Geometric Configuration – Intersection #10

Location	Latitude: 45.522939		Longitude: -122.694283					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	W Burnside St.	Road 2 Name	21 st Ave.					
No. of lanes ²	4 (2,2)	No. of lanes ²	2 (1,1)					
Road No.	--	Road No.	--					
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB	EB	NB	SB				
Speed Limit (mph)	25	25	20	20				
Road Width ³ (Face-face, ft)	44	43	36	35				
Road Width at Int. ³ (Face-face at stop bar, ft)	44	43	36	35				
Closest Int. Upstream ⁴ (ft. behind stop bar)	113	224	192	281				
Closest Int. Downstream ⁴ (ft. behind stop bar)	278	169	348	262				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	13	87	95	150	79	130	31	111
Dwy. Location	1	1	2	1	2	1	1	2
Dwy. Type	2	2	2	2	2	2	2	2
Median Type	1	1	6	1				
On-Street Parking	4	4	3	3				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	20	24				
Bike Lane	4	4	4	4				
Bus Stop Near Int.	3	1	3	3				
Bus Stops Location (ft. behind stop bar)	N/A	17	N/A	N/A				
Traffic Control Device ⁵	2	2	2	2				
Signs on Traffic Light Pole/Span wire	12	12	0	0				
Pedestrian Crossing Light	1	1	1	1				

Table E.21: Lane Geometry – Intersection #10

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	1	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 11: SE Powell Blvd. (US 26) at SE 174th Ave., Portland (Multnomah County)



Aerial Photo



Street View

Figure E.11: Photos for Intersection #11

Table E.22: Location and Geometric Configuration – Intersection #11

Location	Latitude: 45.492309		Longitude: -122.484673					
Milepost	9.87							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	SE Powell Blvd.		Road 2 Name	SE 174 th Ave.				
No. of lanes ²	3 (1,1,TWLTL)		No. of lanes ²	2 (1,1)				
Road No.	US 26		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB EB		NB SB					
Speed Limit (mph)	40 40		35 35					
Road Width ³ (Face-face, ft)	65 64		54 36					
Road Width at Int. ³ (Face-face at stop bar, ft)	52 72		57 59					
Closest Int. Upstream ⁴ (ft. behind stop bar)	665 447		333 575					
Closest Int. Downstream ⁴ (ft. behind stop bar)	530 753		683 419					
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	95	124	243	275	60	187	76	154
Dwy. Location	1	2	1	2	1	1	2	1
Dwy. Type	2	2	2	1	2	1	2	5
Median Type	2		2		1		1	
On-Street Parking	4		4		4		1	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		Unclear	
Bike Lane	3		3		4		4	
Bus Stop Near Int.	1		3		3		3	
Bus Stops Location (ft. behind stop bar)	18		N/A		N/A		N/A	
Traffic Control Device ⁵	2		2		2		2	
Signs on Traffic Light Pole/Span wire	0		2		3, 2		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.23: Lane Geometry – Intersection #11

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	1	1	0
Shared - Right Turn & Thru Lane ⁶	1	0	0	1
Exclusive Right Turn Lane ⁶	0	1	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	97	94	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	130	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	115	106	152	47
Left Turn Lane - Taper Length ⁷ (ft.)	86	43	118	72
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1	5	0

Intersection 12: SE Sunnyside Rd. at SE 132nd Ave., Happy Valley (Clackamas County)



Aerial Photo



Street View

Figure E.12: Photos for Intersection #12

Table E.24: Location and Geometric Configuration – Intersection #12

Location	Latitude:45.426778		Longitude-122.527736					
Milepost	2.62							
Int. Type ¹	1							
ODOT Region	Region 1							
Road 1 Name	SE Sunnyside Rd.	Road 2 Name	SE 132 nd Ave.					
No. of lanes ²	4 (2,2)	No. of lanes ²	2 (1,1)					
Road No.	--	Road No.	--					
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	NB	SB	WB	EB				
Speed Limit (mph)	30	25	40	40				
Road Width ³ (Face-face, ft)	48	34	74	68				
Road Width at Int. ³ (Face-face at stop bar, ft)	66	58	81	76				
Closest Int. Upstream ⁴ (ft. behind stop bar)	71	406	1389	497				
Closest Int. Downstream ⁴ (ft. behind stop bar)	530	183	604	1499				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	133	194	564	--	315	--
Dwy. Location	0	0	2	1	1	0	1	0
Dwy. Type	0	0	4	2	4	0	2	0
Median Type	1	1	4	4				
On-Street Parking	4	4	4	4				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A				
Bike Lane	3	3	3	3				
Bus Stop Near Int.	3	3	1	3				
Bus Stops Location (ft. behind stop bar)	N/A	N/A	25	N/A				
Traffic Control Device ⁵	1	1	1	1				
Signs on Traffic Light Pole/Span wire	2, 5	5	0	0				
Pedestrian Crossing Light	1	1	1	1				

Table E.25: Lane Geometry – Intersection #12

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	0	1	1
Shared - Right Turn & Thru Lane ⁶	0	1	1	1
Exclusive Right Turn Lane ⁶	1	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	97	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	84	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	101	132	226	95
Left Turn Lane - Taper Length ⁷ (ft.)	135	64	79	84
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	1	5	5
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	0	0	0

REGION 2 SITES FOR MODEL

Table E.26: Region 2 County List

County ID	County Name
02	Benton
04	Clatsop
05	Columbia
20	Lane
21	Lincoln
22	Linn
24	Marion
27	Polk
29	Tillamook
36	Yamhill

Intersection 13: Pearl St. / Amazon Pkwy. at 19th Ave., Eugene (Lane County)



Aerial Photo



Street View

Figure E.13: Photos for Intersection #13

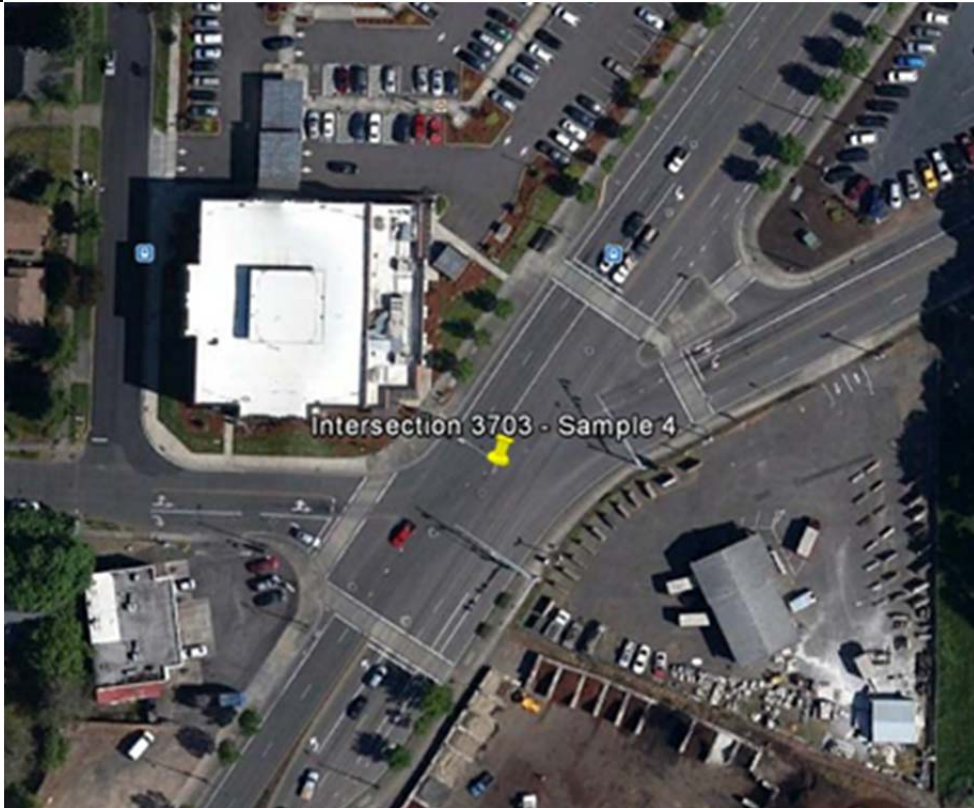
Table E.27: Location and Geometric Configuration – Intersection #13

Location	Latitude:44.038866		Longitude-123.089685					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 2							
Road 1 Name	Pearl St. / Amazon Pkwy.			Road 2 Name		19 th Ave.		
No. of lanes ²	NB: 2 (1,1),SB: 2 (2,0)			No. of lanes ²		2 (1,1)		
Road No.	--			Road No.		--		
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	35		25		25		25	
Road Width ³ (Face-face, ft)	33		40		38		32	
Road Width at Int. ³ (Face-face at stop bar, ft)	41		38		41		33	
Closest Int. Upstream ⁴ (ft. behind stop bar)	1956		328		325		326	
Closest Int. Downstream ⁴ (ft. behind stop bar)	410		2039		399		398	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	72	146	85	165	173	200	47	69
Dwy. Location	2	2	1	2	2	2	1	2
Dwy. Type	1	1	1	1	6	6	1	1
Median Type	1		1		1		1	
On-Street Parking	4		2		4		3	
On-Street Parking Location (ends ft. behind stop bar)	N/A		175		N/A		unclear	
Bike Lane	3		3		1		4	
Bus Stop Near Int.	2		3		2		2	
Bus Stops Location (ft. behind stop bar)	212		N/A		118		293	
Traffic Control Device ⁵	2		2		2		2	
Signs on Traffic Light Pole/Span wire	1, 2		1		5, 3		4	
Pedestrian Crossing Light	1		1		1		1	

Table E.28: Lane Geometry – Intersection #13

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	1	0
Shared - Right Turn & Thru Lane ⁶	0	1	0	1
Exclusive Right Turn Lane ⁶	1	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	75	108	98	N/A
Right Turn Lane - Taper Length ⁷ (ft)	74	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	93	108	86	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	--	--	41	N/A
Offset Left Turn Lane ⁸	1	1	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	2	2	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	0	2	2	2
Exclusive Right Turn Lane Signalization ¹¹	1	0	0	0

Intersection 14: Fairgrounds Rd. NE / Portland Rd. NE (OR 99E) at Highland Ave. / Silverton Rd., Salem (Marion County)



Aerial Photo



Street View

Figure E.14: Photos for Intersection #14

Table E.29: Location and Geometric Configuration – Intersection #14

Location	Latitude:44.960158		Longitude:-123.015447	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Fairgrounds Rd. NE / Portland Rd. NE		Road 2 Name	Highland Ave. / Silverton Rd.
No. of lanes ²	5 (2,2,TWLT)		No. of lanes ²	WB: 4 (2,2), EB: 2 (1,1)
Road No.	OR 99E		Road No.	OR 213
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	30	35	35	25
Road Width ³ (Face-face, ft)	68	76	43	31
Road Width at Int. ³ (Face-face at stop bar, ft)	80	67	39	54
Closest Int. Upstream ⁴ (ft. behind stop bar)	142	227	51	125
Closest Int. Downstream ⁴ (ft. behind stop bar)	311	845	361	1280
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	74	166
Dwy. Location	0	0	2	1
Dwy. Type	0	0	3	2
Median Type	4	2	1	6
On-Street Parking	4	2	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	49	N/A	N/A
Bike Lane	3	3	4	4
Bus Stop Near Int.	3	1	3	3
Bus Stops Location (ft. behind stop bar)	N/A	5	N/A	N/A
Traffic Control Device ⁵	1	1	1	12
Signs on Traffic Light Pole/Span wire	3,2,6	6	1,4	4,2
Pedestrian Crossing Light	2	1	2	1

Table E.30: Lane Geometry – Intersection #14

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	1
Exclusive Thru Lane ⁶	2	2	0	0
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	1	0	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	54	N/A	N/A	103
Right Turn Lane - Taper Length ⁷ (ft)	39	N/A	N/A	45
Left Turn Lane Length ⁷ (ft. behind stop bar)	68	74	237	103
Left Turn Lane - Taper Length ⁷ (ft.)	69	61	N/A	N/A
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	3	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	4	1
Exclusive Right Turn Lane Signalization ¹¹	3	0	0	1

Intersection 15: N Pacific Hwy. (OR 99E) at Witham Rd. / E Lincoln St., Woodburn (Marion County)



Figure E.15: Photos for Intersection #15

Table E.31: Location and Geometric Configuration – Intersection #15

Location	Latitude: 45.142633		Longitude: -122.838911					
Milepost	32.41							
Int. Type ¹	1							
ODOT Region	Region 2							
Road 1 Name	N Pacific Hwy.		Road 2 Name	Witham Rd. / E Lincoln St.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	2 (1,1)				
Road No.	OR 99E		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	35		35		35		25	
Road Width ³ (Face-face, ft)	58		73		36		32	
Road Width at Int. ³ (Face-face at stop bar, ft)	60		75		41		44	
Closest Int. Upstream ⁴ (ft. behind stop bar)	276		539		3945		98	
Closest Int. Downstream ⁴ (ft. behind stop bar)	614		349		201		4039	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	23	83	264	391	39	140	43	--
Dwy. Location	1	2	1	1	2	2	1	0
Dwy. Type	2	2	2	2	2	2	2	0
Median Type	2		2		1		1	
On-Street Parking	4		4		3		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		154		N/A	
Bike Lane	4		3		4		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		0		0		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.32: Lane Geometry – Intersection #15

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	48	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	86	99	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	33	61	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	5	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1	0

Intersection 16: Broadway St. at Salem Pkwy. (OR 99E), Salem (Marion County)



Aerial Photo



Street View

Figure E.16: Photos for Intersection #16

Table E.33: Location and Geometric Configuration – Intersection #16

Location	Latitude: 44.967682		Longitude: -123.028536	
Milepost	3.16			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Broadway St.	Road 2 Name	Salem Pkwy.	
No. of lanes ²	4 (2,2)	No. of lanes ²	4 (2,2)*	
Road No.	--	Road No.	OR 99E	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	NB	SB
Speed Limit (mph)	35	35	45	45
Road Width ³ (Face-face, ft)	49	76	73	73
Road Width at Int. ³ (Face-face at stop bar, ft)	107	86	97	85
Closest Int. Upstream ⁴ (ft. behind stop bar)	363	457	879	2729
Closest Int. Downstream ⁴ (ft. behind stop bar)	599	508	2876	1028
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	--	--
Dwy. Location	0	0	0	0
Dwy. Type	0	0	0	0
Median Type	1	1	1	1
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	4	4	3	3
Bus Stop Near Int.	2	1	3	3
Bus Stops Location (ft. behind stop bar)	334	380	N/A	N/A
Traffic Control Device ⁵	1	12	12	1
Signs on Traffic Light Pole/Span wire	2, 24	0	0	0
Pedestrian Crossing Light	1	1	1	1

*Unusable center lane on Salem Pkwy.

Table E.34: Lane Geometry – Intersection #16

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	1	1	2
Shared - Right Turn & Thru Lane ⁶	0	1	1	0
Exclusive Right Turn Lane ⁶	1	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	1
Right Turn Lane Length ⁷ (ft. behind stop bar)	99	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	197	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	119	201	130	247
Left Turn Lane - Taper Length ⁷ (ft.)	78	144	97	145
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	1
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	0	1	0

Intersection 17: NE Hawthorne Ave. at NE D St., Salem (Marion County)

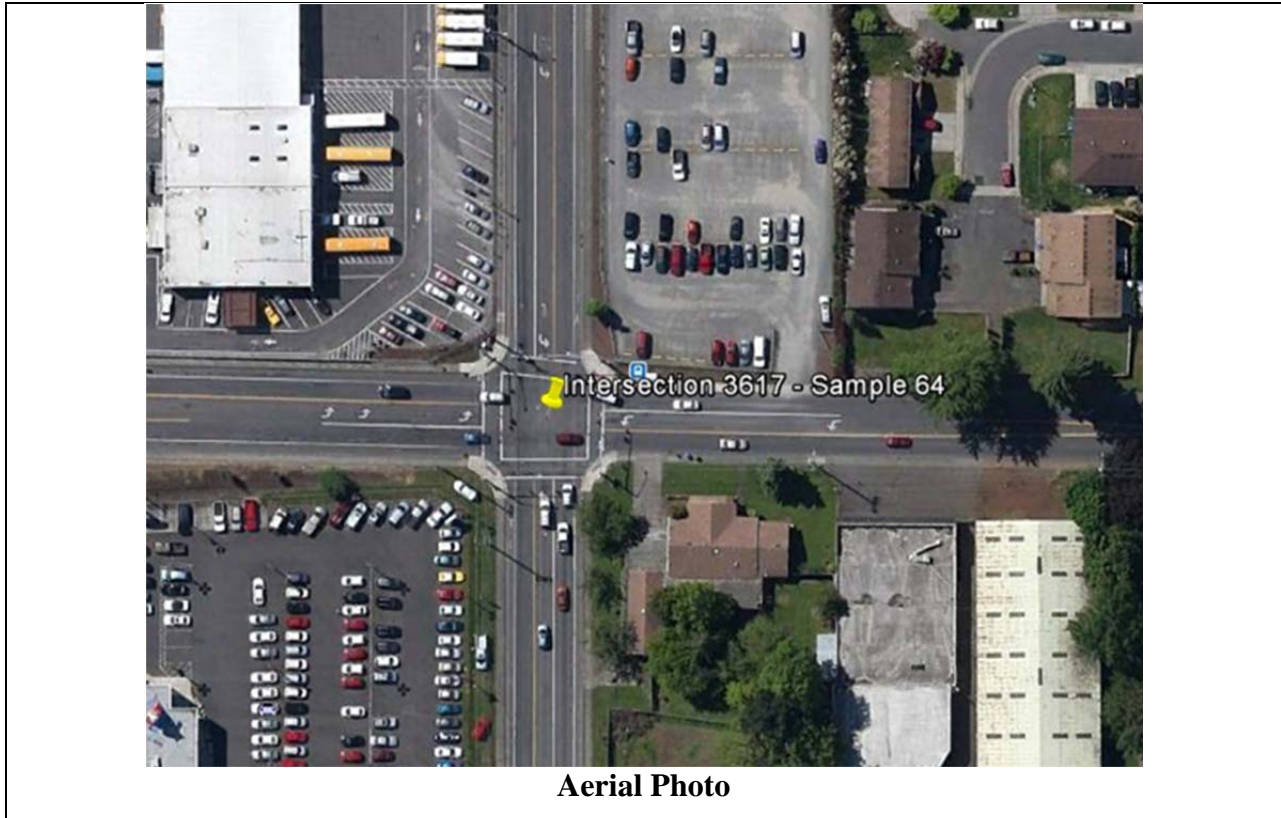


Figure E.17: Photos for Intersection #17

Table E.35: Location and Geometric Configuration – Intersection #17

Location	Latitude: 44.943181		Longitude: -122.991861					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 2							
Road 1 Name	NE Hawthorne Ave.		Road 2 Name	NE D St.				
No. of lanes ²	3 (1,1,TWLTL)		No. of lanes ²	WB: 3 (1,1,TWLTL), EB: 2 (1,1)				
Road No.	--		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	NB	SB	WB	EB				
Speed Limit (mph)	35	35	30	30				
Road Width ³ (Face-face, ft)	46	46	50	37				
Road Width at Int. ³ (Face-face at stop bar, ft)	49	50	52	42				
Closest Int. Upstream ⁴ (ft. behind stop bar)	1267	1937	826	406				
Closest Int. Downstream ⁴ (ft. behind stop bar)	2009	1337	480	898				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	314	344	1167	201	--	--	28	117
Dwy. Location	1	2	1	1	0	0	2	1
Dwy. Type	5	1	1	3	0	0	1	5
Median Type	2	2	1	1				
On-Street Parking	4	4	4	4				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A				
Bike Lane	3	3	3	4				
Bus Stop Near Int.	3	3	3	1				
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	29.45				
Traffic Control Device ⁵	1	1	1	1				
Signs on Traffic Light Pole/Span wire	6, 15	6	6	6				
Pedestrian Crossing Light	1	1	1	1				

Table E.36: Lane Geometry – Intersection #17

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	196	1934	97	144
Left Turn Lane - Taper Length ⁷ (ft.)	80	78	78	77
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 18: NE Commercial St. (OR 99E) at NE Pine St., Salem (Marion County)



Aerial Photo



Street View

Figure E.18: Photos for Intersection #18

Table E.37: Location and Geometric Configuration – Intersection #18

Location	Latitude: 44.962259		Longitude: -123.032736			
Milepost	3.64					
Int. Type ¹	1					
ODOT Region	Region 2					
Road 1 Name	Commercial St. NE		Road 2 Name Pine St. NE			
No. of lanes ²	3		No. of lanes ² 2 (1,1)			
Road No.	OR 99E		Road No. --			
Description	Road 1 (One Way)		Road 2			
Direction (NB, SB, WB, EB)	SB		WB	EB		
Speed Limit (mph)	35		30	30		
Road Width ³ (Face-face, ft)	43		44	44		
Road Width at Int. ³ (Face-face at stop bar, ft)	46		48	47		
Closest Int. Upstream ⁴ (ft. behind stop bar)	317		282	281		
Closest Int. Downstream ⁴ (ft. behind stop bar)	601		349	350		
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	17	43	45	142	56	71
Dwy. Location	2	1	1	2	1	2
Dwy. Type	2	2	2	2	2	2
Median Type	6		1	1		
On-Street Parking	4		4	3		
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A	151		
Bike Lane	2		3	4		
Bus Stop Near Int.	1		3	3		
Bus Stops Location (ft. behind stop bar)	17		N/A	N/A		
Traffic Control Device ⁵	1		1	1		
Signs on Traffic Light Pole/Span wire	0		5, 13	12, 13		
Pedestrian Crossing Light	1		1	1		

Table E.38: Lane Geometry – Intersection #18

Description	Road 1 (One Way)	Road 2	
Exclusive Left Turn Lane per direction ⁶	0	1	0
Shared - Left Turn & Thru Lane ⁶	1	0	0
Exclusive Thru Lane ⁶	1	1	0
Shared - Right Turn & Thru Lane ⁶	1	0	1
Exclusive Right Turn Lane ⁶	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	75	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	85	N/A
Offset Left Turn Lane ⁸	3	3	2
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	1	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0

Intersection 19: Pearl St. at 13th Ave., Eugene (Lane County)



Aerial Photo



Street View

Figure E.19: Photos for Intersection #19

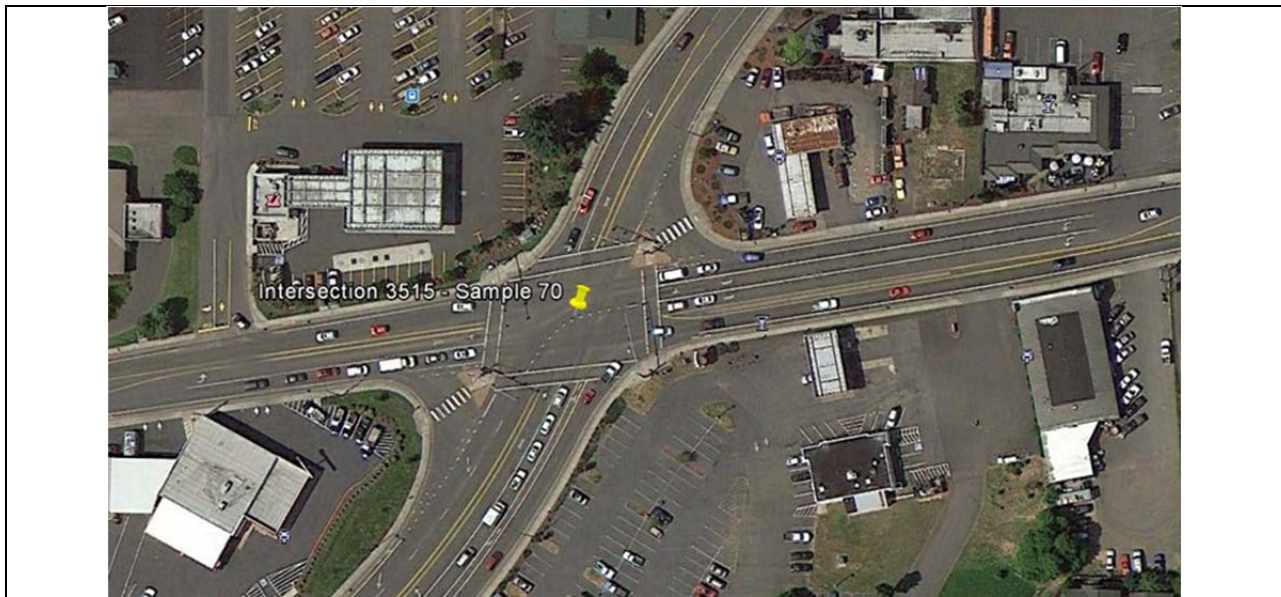
Table E.39: Location and Geometric Configuration – Intersection #19

Location	Latitude: 44.045513		Longitude: -123.089688	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Pearl St.	Road 2 Name	13 th Ave.	
No. of lanes ²	2	No. of lanes ²	2	
Road No.	--	Road No.	--	
Description	Road 1 (One Way)		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	SB		EB	
Speed Limit (mph)	25		20	
Road Width ³ (Face-face, ft)	32		38	
Road Width at Int. ³ (Face-face at stop bar, ft)	33		39	
Closest Int. Upstream ⁴ (ft. behind stop bar)	348		333	
Closest Int. Downstream ⁴ (ft. behind stop bar)	416		400	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	46	167	66	103
Dwy. Location	1	1	2	2
Dwy. Type	1	1	2	2
Median Type	6		6	
On-Street Parking	2		1	
On-Street Parking Location (ends ft. behind stop bar)	15		30	
Bike Lane	1		2	
Bus Stop Near Int.	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A	
Traffic Control Device ⁵	2		2	
Signs on Traffic Light Pole/Span wire	4, 3		3, 16, 2	
Pedestrian Crossing Light	1		1	

Table E.40: Lane Geometry – Intersection #19

Description	Road 1 (One Way)	Road 2 (One Way)
Exclusive Left Turn Lane per direction ⁶	0	0
Shared - Left Turn & Thru Lane ⁶	1	0
Exclusive Thru Lane ⁶	1	2
Shared - Right Turn & Thru Lane ⁶	0	0
Exclusive Right Turn Lane ⁶	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0
Free Right Turn Lane ⁶	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	80
Right Turn Lane - Taper Length ⁷ (ft)	N/A	63
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A
Offset Left Turn Lane ⁸	3	3
Are chevrons properly oriented? ⁹	3	3
Channelization ¹⁰	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	2

Intersection 20: Ellendale Ave. at Kings Valley Hwy., Dallas (Polk County)



Aerial Photo



Street View

Figure E.20: Photos for Intersection #20

Table E.41: Location and Geometric Configuration – Intersection #20

Location	Latitude: 44.929422		Longitude: 123.311924	
Milepost	2.63			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Ellendale Ave.	Road 2 Name	Kings Valley Hwy.	
No. of lanes ²	3 (1,1,TWLTL)	No. of lanes ²	3 (1,1,TWLTL)	
Road No.	--	Road No.	OR 223	
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	WB	EB	NB	SB
Speed Limit (mph)	35	25	30	30
Road Width ³ (Face-face, ft)	45	45	44	46
Road Width at Int. ³ (Face-face at stop bar, ft)	66	64	101	78
Closest Int. Upstream ⁴ (ft. behind stop bar)	972	199	385	248
Closest Int. Downstream ⁴ (ft. behind stop bar)	319	1121	362	506
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	150	195	--	--
Dwy. Location	1	1	0	0
Dwy. Type	2	5	0	0
Median Type	2	2	2	2
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	3	3
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	1	1	1	12
Signs on Traffic Light Pole/Span wire	0	0	11	0
Pedestrian Crossing Light	1	1	1	1

Table E.42: Lane Geometry – Intersection #20

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	2	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	1	0
Shared - Right Turn & Thru Lane ⁶	0	0	0	1
Exclusive Right Turn Lane ⁶	0	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	1	1	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	268	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	92	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	342	231	204	128
Left Turn Lane - Taper Length ⁷ (ft.)	120	92	106	67
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	1	1	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	5	0

Intersection 21: N Delta Hwy. at Green Acres Rd., Eugene (Lane County)



Aerial Photo



Street View

Figure E.21: Photos for Intersection #21

Table E.43: Location and Geometric Configuration – Intersection #21

Location	Latitude: 44.094255		Longitude: -123.097940	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	N Delta Hwy.		Road 2 Name	Green Acres Rd.
No. of lanes ²	NB: 3 (2,1)	SB: 3(1,1,TWLT L)	No. of lanes ²	3 (3,0)
Road No.	--		Road No.	--
Description	Road 1		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	NB		SB	
Speed Limit (mph)	45		40	
Road Width ³ (Face-face, ft)	379		41	
Road Width at Int. ³ (Face-face at stop bar, ft)	575		66	
Closest Int. Upstream ⁴ (ft. behind stop bar)	477		288	
Closest Int. Downstream ⁴ (ft. behind stop bar)	372		574	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	258	269	--	--
Dwy. Location	1	2	0	0
Dwy. Type	2	3	0	0
Median Type	1		2	
On-Street Parking	4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A	
Bike Lane	3		3	
Bus Stop Near Int.	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A	
Traffic Control Device ⁵	1		1	
Signs on Traffic Light Pole/Span wire	12, 3, 2, 11		0	
Pedestrian Crossing Light	1		2	

Table E.44: Lane Geometry – Intersection #21

Description	Road 1		Road 2
Exclusive Left Turn Lane per direction ⁶	0	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0
Exclusive Thru Lane ⁶	1	1	1
Shared - Right Turn & Thru Lane ⁶	0	0	0
Exclusive Right Turn Lane ⁶	1	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	120
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	64
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	2	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	3	1
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	6	1	1

Intersection 22: Lancaster Dr. at Cooley Dr., Salem (Marion County)



Aerial Photo



Street View

Figure E.22: Photos for Intersection #22

Table E.45: Location and Geometric Configuration – Intersection #22

Location	Latitude: 44.977094		Longitude: -122.983351					
Milepost	4.44							
Int. Type ¹	1							
ODOT Region	Region 2							
Road 1 Name	Lancaster Dr.		Road 2 Name	Cooley Dr.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	WB: 2 (1,1), EB: 4 (2,2)				
Road No.	--		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	NB	SB	WB	EB				
Speed Limit (mph)	35	35	20	25				
Road Width ³ (Face-face, ft)	66	67	55	33				
Road Width at Int. ³ (Face-face at stop bar, ft)	82	66	63	38				
Closest Int. Upstream ⁴ (ft. behind stop bar)	514	813	581	214				
Closest Int. Downstream ⁴ (ft. behind stop bar)	832	573	326	677				
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	118	279	231	421	--	--	48	103
Dwy. Location	2	1	1	2	0	0	2	2
Dwy. Type	1	1	4	1	0	0	1	1
Median Type	2	2	4	6				
On-Street Parking	4	4	4	3				
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	109				
Bike Lane	3	3	4	4				
Bus Stop Near Int.	2	2	3	3				
Bus Stops Location (ft. behind stop bar)	279	732	N/A	N/A				
Traffic Control Device ⁵	2	2	2	1				
Signs on Traffic Light Pole/Span wire	11	0	1, 4, 2	0				
Pedestrian Crossing Light	1	1	1	2				

Table E.46: Lane Geometry – Intersection #22

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	0
Exclusive Thru Lane ⁶	2	1	0	0
Shared - Right Turn & Thru Lane ⁶	0	1	0	0
Exclusive Right Turn Lane ⁶	1	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	107	N/A	113	N/A
Right Turn Lane - Taper Length ⁷ (ft.)	60	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	138	151	113	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	92	73	76	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	4	1, 4
Exclusive Right Turn Lane Signalization ¹¹	5	0	1	0

Intersection 23: NW Doaks Ferry Rd. at NW Orchard Heights Rd., Salem (Polk County)



Aerial Photo



Street View

Figure E.23: Photos for Intersection #23

Table E.47: Location and Geometric Configuration – Intersection #23

Location	Latitude: 44.960461		Longitude: -123.079776					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 2							
Road 1 Name	Doaks Ferry Rd.		Road 2 Name	Orchard Heights Rd.				
No. of lanes ²	NB: 3 (1,1,TWLTL), SB: 2 (1,1)		No. of lanes ²	3 (1,1,TWLTL)				
Road No.	--		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	NB SB		WB EB					
Speed Limit (mph)	35 35		40 40					
Road Width ³ (Face-face, ft)	470 46		47 49					
Road Width at Int. ³ (Face-face at stop bar, ft)	56 523		59 54					
Closest Int. Upstream ⁴ (ft. behind stop bar)	508 2656		665 887					
Closest Int. Downstream ⁴ (ft. behind stop bar)	2740 569		960 742					
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	277	392	236	603	24	114	348	863
Dwy. Location	2	1	2	2	1	1	2	2
Dwy. Type	1	1	1	5	1	1	1	1
Median Type	2		1		2		2	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		3		2		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		211		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	5		6		6		6	
Pedestrian Crossing Light	1		1		1		1	

Table E.48: Lane Geometry – Intersection #23

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	203	143	201	190
Left Turn Lane - Taper Length ⁷ (ft.)	151	69	97	99
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 24: Main St. / Cascade Hwy. NE (OR 213) at Water St. (OR 214), Silverton (Marion County)



Aerial Photo



Street View

Figure E.24: Photos for Intersection #24

Table E.49: Location and Geometric Configuration – Intersection #24

Location	Latitude: 45.005125		Longitude: -122.783105			
Milepost	50.68					
Int. Type ¹	1					
ODOT Region	Region 2					
Road 1 Name	Main St. / Cascade Hwy. NE		Road 2 Name	Water St.		
No. of lanes ²	2 (1,1)		No. of lanes ²	2 (2,0)		
Road No.	OR 213		Road No.	OR 214		
Description	Road 1			Road 2		
Direction (NB, SB, WB, EB)	WB		EB	SB		
Speed Limit (mph)	25		25	20		
Road Width ³ (Face-face, ft)	44		39	41		
Road Width at Int. ³ (Face-face at stop bar, ft)	44		38	40		
Closest Int. Upstream ⁴ (ft. behind stop bar)	254		280	165		
Closest Int. Downstream ⁴ (ft. behind stop bar)	337		350	229		
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	153	--	256	261	90	--
Dwy. Location	1	0	1	2	2	0
Dwy. Type	2	0	2	2	2	0
Median Type	1		1	6		
On-Street Parking	3		2	3		
On-Street Parking Location (ends ft. behind stop bar)	18		153	16		
Bike Lane	4		4	4		
Bus Stop Near Int.	3		3	3		
Bus Stops Location (ft. behind stop bar)	N/A		N/A	N/A		
Traffic Control Device ⁵	4		4	4		
Signs on Traffic Light Pole/Span wire	0		0	0		
Pedestrian Crossing Light	2		2	2		

Table E.50: Lane Geometry – Intersection #24

Description	Road 1		Road 2
Exclusive Left Turn Lane per direction ⁶	0	0	0
Shared - Left Turn & Thru Lane ⁶	1	0	1
Exclusive Thru Lane ⁶	0	1	0
Shared - Right Turn & Thru Lane ⁶	0	0	1
Exclusive Right Turn Lane ⁶	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	102	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	45	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	2	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	0	0	0
Exclusive Right Turn Lane Signalization ¹¹	0	0	0

Intersection 25: Marion St. (OR 22) at Commercial St., Salem, (Marion County)



Aerial Photo



Street View

Figure E.25: Photos for Intersection #25

Table E.51: Location and Geometric Configuration – Intersection #25

Location	Latitude: 44.94485 8		Longitude: -123.038449	
Milepost	26.17			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Marion St.	Road 2 Name	Commercial St.	
No. of lanes ²	3 (3,0)	No. of lanes ²	3 (3,0)	
Road No.	OR 22	Road No.	--	
Description	Road 1 (One Way)		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	WB		SB	
Speed Limit (mph)	25		25	
Road Width ³ (Face-face, ft)	65		70	
Road Width at Int. ³ (Face-face at stop bar, ft)	69		57	
Closest Int. Upstream ⁴ (ft. behind stop bar)	351		345	
Closest Int. Downstream ⁴ (ft. behind stop bar)	3011		416	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	74	123	--	--
Dwy. Location	2	2	0	0
Dwy. Type	2	2	0	0
Median Type	6		6	
On-Street Parking	3		3	
On-Street Parking Location (ends ft. behind stop bar)	193	19	25	65
Bike Lane	4		4	
Bus Stop Near Int.	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A	
Traffic Control Device ⁵	1		1	
Signs on Traffic Light Pole/Span wire	1, 4, 3, 3		13, 4, 2	
Pedestrian Crossing Light	1		1	

Table E.52: Lane Geometry – Intersection #25

Description	Road 1 (One Way)	Road 2
Exclusive Left Turn Lane per direction ⁶	1	0
Shared - Left Turn & Thru Lane ⁶	1	0
Exclusive Thru Lane ⁶	2	2
Shared - Right Turn & Thru Lane ⁶	0	1
Exclusive Right Turn Lane ⁶	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0
Free Right Turn Lane ⁶	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	134
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	140	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	51	N/A
Offset Left Turn Lane ⁸	3	3
Are chevrons properly oriented? ⁹	3	3
Channelization ¹⁰	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1

Intersection 26: Pringle Rd. at Madrona Ave., Salem, (Marion County)



Aerial Photo



Street View

Figure E.26: Photos for Intersection #26

Table E.53: Location and Geometric Configuration – Intersection #26

Location	Latitude: 44.904700		Longitude: -123.025923	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	Pringle Rd.		Road 2 Name	Madrona Ave.
No. of lanes ²	2 (1,1)		No. of lanes ²	WB: 2 (1,1), EB: 3 (1,1,TWLTL)
Road No.	--		Road No.	--
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	25	35	35	25
Road Width ³ (Face-face, ft)	43	43	37	36
Road Width at Int. ³ (Face-face at stop bar, ft)	43	44	47	42
Closest Int. Upstream ⁴ (ft. behind stop bar)	185	233	492	1173
Closest Int. Downstream ⁴ (ft. behind stop bar)	324	274	1263	581
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	53	--	58	75
Dwy. Location	1	0	2	1
Dwy. Type	1	0	2	1
Median Type	1	1	1	2
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	3	4
Bus Stop Near Int.	3	1	3	3
Bus Stops Location (ft. behind stop bar)	N/A	208	N/A	N/A
Traffic Control Device ⁵	1	1	1	1
Signs on Traffic Light Pole/Span wire	6	6	6	6
Pedestrian Crossing Light	1	1	1	1

Table E.54: Lane Geometry – Intersection #26 Lane Geometry – Intersection #26

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	110	151	146	180
Left Turn Lane - Taper Length ⁷ (ft.)	67	71	78	138
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 27: W Pacific Hwy. (OR 99) at Irving Rd., Eugene (Lane County)



Aerial Photo



Street View

Figure E.27: Photos for Intersection #27

Table E.55: Location and Geometric Configuration – Intersection #27

Location	Latitude: 44.103257		Longitude: -123.172209	
Milepost	117.89			
Int. Type ¹	1			
ODOT Region	Region 2			
Road 1 Name	W Pacific Hwy.		Road 2 Name	Irving Rd.
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	WB: 3 (1,1,TWLTL) , EB: 2 (1,1)
Road No.	OR 99		Road No.	--
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB		WB	
	SB		EB	
Speed Limit (mph)	55		35	
	55		55	
Road Width ³ (Face-face, ft)	82		46	
	81		35	
Road Width at Int. ³ (Face-face at stop bar, ft)	87		60	
	84		42	
Closest Int. Upstream ⁴ (ft. behind stop bar)	1772		93	
	4381		9401	
Closest Int. Downstream ⁴ (ft. behind stop bar)	4491		9547	
	1872		190	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	504	811	240	532
	178	322	142	252
Dwy. Location	2	1	1	1
	2	1	2	2
Dwy. Type	3	3	2	2
	3	3	3	3
Median Type	2		2	
	2		1	
On-Street Parking	4		4	
	4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A	
	N/A		N/A	
Bike Lane	3		3	
	3		3	
Bus Stop Near Int.	3		2, 1	
	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		199, 296	
	N/A		N/A	
Traffic Control Device ⁵	1		12	
	1		1	
Signs on Traffic Light Pole/Span wire	0		2	
	0		2	
Pedestrian Crossing Light	1		1	
	1		1	

Table E.56: Lane Geometry – Intersection #27

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	1
Exclusive Thru Lane ⁶	2	2	0	0
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	0	0	1	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	1	1	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	287	173	93	188
Right Turn Lane - Taper Length ⁷ (ft)	136	118	99	226
Left Turn Lane Length ⁷ (ft. behind stop bar)	194	203	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	76	84	N/A	N/A
Offset Left Turn Lane ⁸	2	2	2	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	1	1	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	5	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1	1

Intersection 28: 6th Ave. (OR 99) at Garfield St. (OR 126), Eugene (Lane County)



Aerial Photo



Street View

Figure E.28: Photos for Intersection #28

Table E.57: Location and Geometric Configuration – Intersection #28

Location	Latitude: 44.053353		Longitude: -123.122751	
Milepost	122.19			
Int. Type ¹	1			
DOT Region	Region 2			
Road 1 Name	6 th Ave.	Road 2 Name	Garfield St.	
No. of lanes ²	4 (4,0)	No. of lanes ²	NB: 4 (2,2), SB: 2 (1,1)	
Road No.	OR 99	Road No.	OR 126	
Description	Road 1 (One Way)		Road 2	
Direction (NB, SB, WB, EB)	NB		NB	SB
Speed Limit (mph)	30		30	30
Road Width ³ (Face-face, ft)	39		40	42
Road Width at Int. ³ (Face-face at stop bar, ft)	44		39	42
Closest Int. Upstream ⁴ (ft. behind stop bar)	623		342	394
Closest Int. Downstream ⁴ (ft. behind stop bar)	438		486	433
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	51	71	47	99
Dwy. Location	2	1	1	2
Dwy. Type	2	2	2	2
Median Type	6		1	1
On-Street Parking	4		4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A	N/A
Bike Lane	4		4	4
Bus Stop Near Int.	3		3	3
Bus Stops Location (ft. behind stop bar)	N/A		N/A	N/A
Traffic Control Device ⁵	1		1	1
Signs on Traffic Light Pole/Span wire	1, 2, 3, 3		3, 5	3, 4
Pedestrian Crossing Light	1		1	1

Table E.58: Lane Geometry – Intersection #28

Description	Road 1	Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0
Shared - Left Turn & Thru Lane ⁶	0	0	0
Exclusive Thru Lane ⁶	2	1	1
Shared - Right Turn & Thru Lane ⁶	0	0	1
Exclusive Right Turn Lane ⁶	1	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	107
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	107
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	1	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	0	0

REGION 3 SITES FOR MODEL

Table E.59: Region 3

County ID	County Name
06	Coos
08	Curry
10	Douglas
15	Jackson
17	Josephine

Intersection 29: Main St. at Ross / Lozier Ln., Medford (Jackson County)



Aerial Photo



Street View

Figure E.29: Photos for Intersection #29

Table E.60: Location and Geometric Configuration – Intersection #29

Location	Latitude: 42.323642		Longitude: -122.899605					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 3							
Road 1 Name	Main St.		Road 2 Name	Ross Ln. / Lozier Ln.				
No. of lanes ²	3 (1,1,TWLTL)		No. of lanes ²	3 (1,1,TWLTL)				
Road No.	--		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB EB		NB SB					
Speed Limit (mph)	30 35		30 30					
Road Width ³ (Face-face, ft)	40 69		35 44					
Road Width at Int. ³ (Face-face at stop bar, ft)	54 71		49 76					
Closest Int. Upstream ⁴ (ft. behind stop bar)	282 668		503 645					
Closest Int. Downstream ⁴ (ft. behind stop bar)	492 396		742 604					
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	51	103	89	255	47	107	--	--
Dwy. Location	2	2	1	1	1	2	0	0
Dwy. Type	2	2	2	2	2	2	0	0
Median Type	2		2		2		2	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		4		3	
Bus Stop Near Int.	1		1		3		3	
Bus Stops Location (ft. behind stop bar)	422		364		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		0		0		2	
Pedestrian Crossing Light	1		1		1		1	

Table E.61: Lane Geometry – Intersection #29

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	1
Shared - Right Turn & Thru Lane ⁶	0	0	1	0
Exclusive Right Turn Lane ⁶	0	1	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	1	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	142	127	N/A	291
Right Turn Lane - Taper Length ⁷ (ft)	56	94	N/A	97
Left Turn Lane Length ⁷ (ft. behind stop bar)	102	119	116	131
Left Turn Lane - Taper Length ⁷ (ft.)	131	134	77	95
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	1	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	3	5	5
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1	0	5

Intersection 30: Ashland St. (OR 66) at Walker Ave., Ashland (Jackson County)



Aerial Photo



Street View

Figure E.30: Photos for Intersection #30

Table E.62: Location and Geometric Configuration – Intersection #30

Location	Latitude: 42.185447		Longitude: -122.688144					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 3							
Road 1 Name	Ashland St.		Road 2 Name	Walker Ave.				
No. of lanes ²	WB: 5 (2,2,TWLTL), EB: 4 (2,2)		No. of lanes ²	2 (1,1)				
Road No.	OR 66		Road No.	--				
Description	Road 1		Road 2					
Direction (NB, SB, WB, EB)	WB EB		NB SB					
Speed Limit (mph)	30 30		25 25					
Road Width ³ (Face-face, ft)	68 68		34 35					
Road Width at Int. ³ (Face-face at stop bar, ft)	71 71		38 38					
Closest Int. Upstream ⁴ (ft. behind stop bar)	781 880		565 391					
Closest Int. Downstream ⁴ (ft. behind stop bar)	376 840		485 659					
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	147	212	25	263	47	178	76	101
Dwy. Location	1	1	1	1	1	2	2	2
Dwy. Type	2	2	2	2	2	2	2	2
Median Type	2		4		1		1	
On-Street Parking	4		4		4		2	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		119	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		1		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		589		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	17		17		0		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.63: Lane Geometry – Intersection #30

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	1	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	106	112	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	69	71	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 31: Crater Lake Ave. at Brookhurst St., Medford (Jackson County)



Aerial Photo



Street View

Figure E.31: Photos for Intersection #31

Table E.64: Location and Geometric Configuration – Intersection #31

Location	Latitude: 42.347475		Longitude: -122.856823	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 3			
Road 1 Name	Crater Lake Ave.		Road 2 Name	Brookhurst St.
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	2 (1,1)
Road No.	--		Road No.	--
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	35	35	25	25
Road Width ³ (Face-face, ft)	59	58	33	33
Road Width at Int. ³ (Face-face at stop bar, ft)	73	62	31	51
Closest Int. Upstream ⁴ (ft. behind stop bar)	817	663	657	247
Closest Int. Downstream ⁴ (ft. behind stop bar)	721	872	340	750
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	261	330	85	168
Dwy. Location	2	2	1	1
Dwy. Type	1	1	1	1
Median Type	2	2	1	1
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	4	4	4	4
Bus Stop Near Int.	3	1	3	3
Bus Stops Location (ft. behind stop bar)	N/A	131	N/A	N/A
Traffic Control Device ⁵	2	2	2	1
Signs on Traffic Light Pole/Span wire	5, 18	5	0	0
Pedestrian Crossing Light	1	1	1	1

Table E.65: Lane Geometry – Intersection #31

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	1
Free Right Turn Lane ⁶	0	0	1	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	86	81	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	66	68	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	1	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 32: Crater Lake Hwy. (OR 62) at Linn Rd., Eagle Point (Jackson County)



Aerial Photo



Street View

Figure E.32: Photos for Intersection #32

Table E.66: Location and Geometric Configuration – Intersection #32

Location	Latitude: 42.472264		Longitude: -122.811974	
Milepost	10.09			
Int. Type ¹	1			
ODOT Region	Region 3			
Road 1 Name	Crater Lake Hwy.		Road 2 Name	Linn Rd.
No. of lanes ²	NB: 4 (2,2) , SB: 2 (1,1)		No. of lanes ²	2 (1,1)
Road No.	OR 62		Road No.	--
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	55	55	25	35
Road Width ³ (Face-face, ft)	91	42	42	62
Road Width at Int. ³ (Face-face at stop bar, ft)	122	96	92	107
Closest Int. Upstream ⁴ (ft. behind stop bar)	1027	2217	367	165
Closest Int. Downstream ⁴ (ft. behind stop bar)	2361	1170	308	511
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	221	507	1526	2128
Dwy. Location	1	1	2	2
Dwy. Type	2	5	2	1
Median Type	4	1	1	4
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	3	3
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	12	12	1	1
Signs on Traffic Light Pole/Span wire	2, 19	2	2	2
Pedestrian Crossing Light	1	1	1	1

Table E.67: Lane Geometry – Intersection #32

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	2	1	1
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	1	1	1	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	157	393	134	116
Right Turn Lane - Taper Length ⁷ (ft)	N/A	171	62	89
Left Turn Lane Length ⁷ (ft. behind stop bar)	250	135	101	118
Left Turn Lane - Taper Length ⁷ (ft.)	130	129	162	76
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	5	5
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	1	1	1

Intersection 33: Lozier Ln. at W Stewart Ave., Medford (Jackson County)



Aerial Photo



Street View

Figure E.33: Photos for Intersection #33

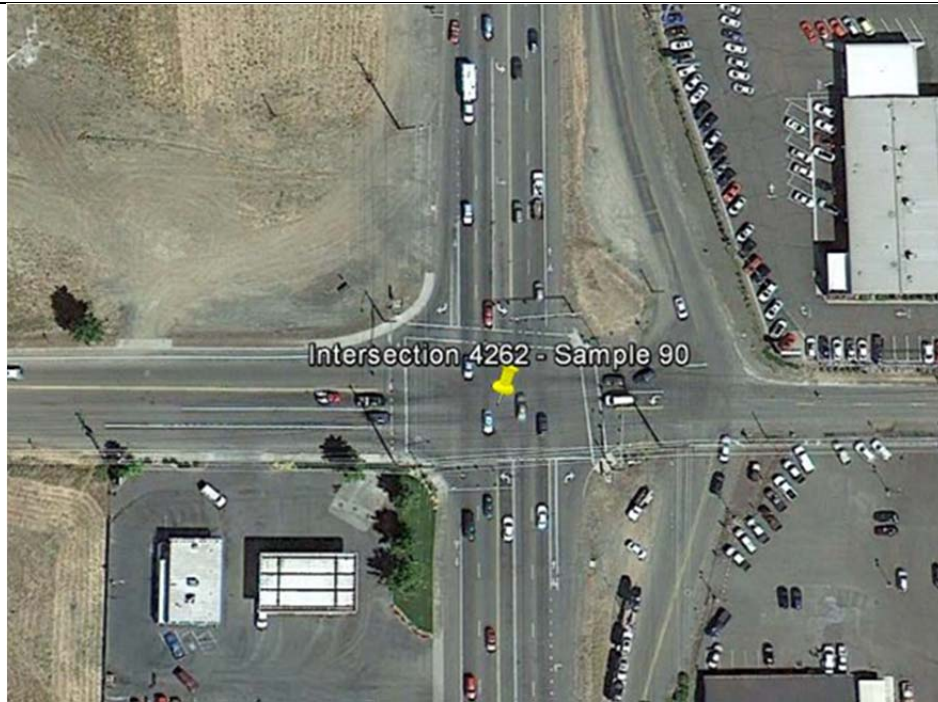
Table E.68: Location and Geometric Configuration – Intersection #33

Location	Latitude: 42.312233		Longitude: 122.899639					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 3							
Road 1 Name	Lozier Ln.		Road 2 Name	W Stewart Ave.				
No. of lanes ²	2 (1,1)		No. of lanes ²	2 (1,1)				
Road No.	--		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	30		30		35		35	
Road Width ³ (Face-face, ft)	41		24		34		27	
Road Width at Int. ³ (Face-face at stop bar, ft)	54		51		52		52	
Closest Int. Upstream ⁴ (ft. behind stop bar)	367		1591		1016		749	
Closest Int. Downstream ⁴ (ft. behind stop bar)	1670		445		828		1095	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	219	0	50	172	72	148	140	323
Dwy. Location	1	--	2	2	1	2	1	1
Dwy. Type	0	--	2	1	2	1	1	2
Median Type	1		1		1		1	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	5		5		6		6	
Pedestrian Crossing Light	1		1		1		1	

Table E.69: Lane Geometry – Intersection #33

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	167	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	99	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	100	N/A	137	167
Left Turn Lane - Taper Length ⁷ (ft.)	50	N/A	75	83
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	1	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 34: Crater Lake Hwy. (OR 62) at E Vilas Rd., Medford (Jackson County)



Aerial Photo



Street View

Figure E.34: Photos for Intersection #34

Table E.70: Location and Geometric Configuration – Intersection #34

Location	Latitude: 42.389110		Longitude: -122.855964					
Milepost	3.64							
Int. Type ¹	1							
ODOT Region	Region 3							
Road 1 Name	Crater Lake Hwy.		Road 2 Name	E Vilas Rd.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	WB: 2(1,1), EB: 3 (1,1,TWLTL)				
Road No.	OR 62		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	45		45		45		45	
Road Width ³ (Face-face, ft)	79		79		56		48	
Road Width at Int. ³ (Face-face at stop bar, ft)	111		110		63		81	
Closest Int. Upstream ⁴ (ft. behind stop bar)	1518		1863		45		1924	
Closest Int. Downstream ⁴ (ft. behind stop bar)	1954		1610		2069		191	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	150	--	68	126	--	--	111	177
Dwy. Location	2	0	1	1	0	0	1	2
Dwy. Type	2	0	5	5	0	0	2	5
Median Type	2		2		1		2	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		4		3	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		2		5		2, 5	
Pedestrian Crossing Light	1		1		1		2	

Table E.71: Lane Geometry – Intersection #34

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	2	0	1
Shared - Right Turn & Thru Lane ⁶	0	0	1	0
Exclusive Right Turn Lane ⁶	1	1	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	92	772	N/A	202
Right Turn Lane - Taper Length ⁷ (ft)	148	177	N/A	148
Left Turn Lane Length ⁷ (ft. behind stop bar)	244	200	43	148
Left Turn Lane - Taper Length ⁷ (ft.)	151	139	N/A	175
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	1	1
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	1

Intersection 35: Highland Dr. at Barnett Rd., Medford (Jackson County)



Aerial Photo



Street View

Figure E.35: Photos for Intersection #35

Table E.72: Location and Geometric Configuration – Intersection #35

Location	Latitude: 42.315733		Longitude: 122.849750					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 3							
Road 1 Name	Highland Dr.		Road 2 Name	Barnett Rd.				
No. of lanes ²	NB: 4 (2,2), SB: 2 (1,1)		No. of lanes ²	4 (2,2)				
Road No.	--		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	35		35		35		35	
Road Width ³ (Face-face, ft)	88		42		63		81	
Road Width at Int. ³ (Face-face at stop bar, ft)	107		77		97		101	
Closest Int. Upstream ⁴ (ft. behind stop bar)	1238		867		995		611	
Closest Int. Downstream ⁴ (ft. behind stop bar)	976		1361		732		1121	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	244*	386	105**	339	76	124
Dwy. Location	0	0	2	2	1	1	1	1
Dwy. Type	0	0	5	2	5	2	2	2
Median Type	4		1		4		4	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		3		1		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		6560		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	11		0		0		11	
Pedestrian Crossing Light	1		1		1		1	

*Driveway under construction

**Driveway no longer exists

Table E.73: Lane Geometry – Intersection #35

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	2	2
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	2	1	1	2
Shared - Right Turn & Thru Lane ⁶	0	1	1	0
Exclusive Right Turn Lane ⁶	1	0	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	602	N/A	N/A	290
Right Turn Lane - Taper Length ⁷ (ft)	101	N/A	N/A	102
Left Turn Lane Length ⁷ (ft. behind stop bar)	464	244	340	291
Left Turn Lane - Taper Length ⁷ (ft.)	77	88	117	126
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	3	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	5	0	0	5

Intersection 36: S Riverside Ave. (OR 99) at E 10th St., Medford (Jackson County)



Aerial Photo



Street View

Figure E.36: Photos for Intersection #36

Table E.74: Location and Geometric Configuration – Intersection #36

Location	Latitude: 42.324450		Longitude: -122.868506	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 3			
Road 1 Name	S Riverside Ave.	Road 2 Name	E 10 th St.	
No. of lanes ²	3 (3,0)	No. of lanes ²	WB: 3 (2,1), EB: 4 (2,2)	
Road No.	OR 99	Road No.	--	
Description	Road 1 (One Way)		Road 2	
Direction (NB, SB, WB, EB)	NB		WB	EB
Speed Limit (mph)	30		25	25
Road Width ³ (Face-face, ft)	46		44	52
Road Width at Int. ³ (Face-face at stop bar, ft)	44		43	49
Closest Int. Upstream ⁴ (ft. behind stop bar)	540		543	328
Closest Int. Downstream ⁴ (ft. behind stop bar)	471		400	204
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	80	178	--	--
Dwy. Location	2	2	0	0
Dwy. Type	2	2	0	0
Median Type	6		1	1
On-Street Parking	2		4	4
On-Street Parking Location (ends ft. behind stop bar)	127		N/A	N/A
Bike Lane	5		3	3
Bus Stop Near Int.	3		3	3
Bus Stops Location (ft. behind stop bar)	N/A		N/A	N/A
Traffic Control Device ⁵	1		1	1
Signs on Traffic Light Pole/Span wire	2		13, 2	13
Pedestrian Crossing Light	1		1	1

Table E.75: Lane Geometry – Intersection #36

Description	Road 1 (One Way)	Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	1
Shared - Left Turn & Thru Lane ⁶	1	0	0
Exclusive Thru Lane ⁶	2	1	1
Shared - Right Turn & Thru Lane ⁶	0	0	0
Exclusive Right Turn Lane ⁶	1	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	82	89	N/A
Right Turn Lane - Taper Length ⁷ (ft)	41	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	125
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	3
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	1	1	0

Intersection 37: E Barnett Rd. at Ellendale Dr., Medford (Jackson County)



Aerial Photo



Street View

Figure E.37: Photos for Intersection #37

Table E.76: Location and Geometric Configuration – Intersection #37

Location	Latitude: 42.315761		Longitude: -122.845647	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 3			
Road 1 Name	E Barnett Rd.		Road 2 Name	Ellendale Dr.
No. of lanes ²	WB: 5 (2,2,TWLT L)	EB: 4 (2,2)	No. of lanes ²	2 (1,1)
Road No.	--		Road No.	--
Description	Road 1		Road 2	
Direction (NB, SB, WB, EB)	WB	EB	NB	SB
Speed Limit (mph)	35	35	35	25
Road Width ³ (Face-face, ft)	50	78	37	36
Road Width at Int. ³ (Face-face at stop bar, ft)	54	65	42	42
Closest Int. Upstream ⁴ (ft. behind stop bar)	1069	998	634	640
Closest Int. Downstream ⁴ (ft. behind stop bar)	1070	1148	746	731
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	91	204	209	220
Dwy. Location	2	1	2	1
Dwy. Type	2	2	2	4
Median Type	2	1	2	1
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	4	3	4	4
Bus Stop Near Int.	2	1	3	3
Bus Stops Location (ft. behind stop bar)	142	608	N/A	N/A
Traffic Control Device ⁵	1	1	1	12
Signs on Traffic Light Pole/Span wire	0	0	6	6
Pedestrian Crossing Light	1	1	1	1

Table E.77: Lane Geometry – Intersection #37

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	78	144	108	94
Left Turn Lane - Taper Length ⁷ (ft.)	76	96	97	73
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

REGION 4 SITES FOR MODEL

Table E.78: Region 4

County ID	County Name
07	Crook
09	Deschutes
11	Gilliam
16	Jefferson
18	Klamath
19	Lake
28	Sherman
33	Wasco
35	Wheeler

Intersection 38: 4th St. (US 26) at B St., Madras (Jefferson County)



Aerial Photo



Street View

Figure E.38: Photos for Intersection #38

Table E.79: Location and Geometric Configuration – Intersection #38

Location	Latitude: 44.635954		Longitude: -121.130632			
Milepost	92.3					
Int. Type ¹	1					
ODOT Region	Region 4					
Road 1 Name	4 th St.		Road 2 Name		B St.	
No. of lanes ²	2		No. of lanes ²		WB: 4 (2,2), EB: 3 (2,1)	
Road No.	US 26		Road No.		--	
Description	Road 1 (One Way)			Road 2		
Direction (NB, SB, WB, EB)	SB			WB		EB
Speed Limit (mph)	25			25		25
Road Width ³ (Face-face, ft)	52			51		52
Road Width at Int. ³ (Face-face at stop bar, ft)	52			51		52
Closest Int. Upstream ⁴ (ft. behind stop bar)	354			214		305
Closest Int. Downstream ⁴ (ft. behind stop bar)	459			372		277
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	45	227	87	149	45	67
Dwy. Location	2	1	2	2	2	2
Dwy. Type	5	2	2	2	2	2
Median Type	6			1		1
On-Street Parking	3			4		1
On-Street Parking Location (ends ft. behind stop bar)	0			N/A		186
Bike Lane	2			4		1
Bus Stop Near Int.	3			3		3
Bus Stops Location (ft. behind stop bar)	N/A			N/A		N/A
Traffic Control Device ⁵	1			1		1
Signs on Traffic Light Pole/Span wire	0			5, 13		13
Pedestrian Crossing Light	1			1		1

Table E.80: Lane Geometry – Intersection #38

Description	Road 1 (One Way)	Road 2	
Exclusive Left Turn Lane per direction ⁶	0	1	0
Shared - Left Turn & Thru Lane ⁶	1	0	0
Exclusive Thru Lane ⁶	0	1	1
Shared - Right Turn & Thru Lane ⁶	1	0	1
Exclusive Right Turn Lane ⁶	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	103	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	1	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1

Intersection 39: NW Newport / NW Greenwood Ave. at NW Wall St., Bend (Deschutes County)



Aerial Photo



Street View

Figure E.39: Photos for Intersection #39

Table E.81: Location and Geometric Configuration – Intersection #39

Location	Latitude: 44.060438		Longitude: -121.312524			
Milepost	--					
Int. Type ¹	1					
ODOT Region	Region 4					
Road 1 Name	NW Newport Ave. / NW Greenwood Ave.		Road 2 Name	*NW Wall St.		
No. of lanes ²	WB: 4 (2,2), EB: 4 (3,1)		No. of lanes ²	SB: 3 (2,1)		
Road No.	--		Road No.	--		
Description	Road 1			Road 2		
Direction (NB, SB, WB, EB)	WB		EB	SB		
Speed Limit (mph)	20		20	20		
Road Width ³ (Face-face, ft)	55		59	55		
Road Width at Int. ³ (Face-face at stop bar, ft)	59		66	55		
Closest Int. Upstream ⁴ (ft. behind stop bar)	300		144	460		
Closest Int. Downstream ⁴ (ft. behind stop bar)	892		377	369		
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	154	--	119	-	85	283
Dwy. Location	2	0	1	0	1	1
Dwy. Type	2	0	2	0	2	2
Median Type	1		4	1		
On-Street Parking	1		1	3		
On-Street Parking Location (ends ft. behind stop bar)	26		66	119		
Bike Lane	4		3	4		
Bus Stop Near Int.	3		3	3		
Bus Stops Location (ft. behind stop bar)	N/A		N/A	N/A		
Traffic Control Device ⁵	1		1	1		
Signs on Traffic Light Pole/Span wire	1, 3		0	2		
Pedestrian Crossing Light	1		1	1		

*NB lane starts at intersection

Table E.82: Lane Geometry – Intersection #39

Description	Road 1		Road 2
Exclusive Left Turn Lane per direction ⁶	1	1	0
Shared - Left Turn & Thru Lane ⁶	0	0	1
Exclusive Thru Lane ⁶	1	1	1
Shared - Right Turn & Thru Lane ⁶	0	1	0
Exclusive Right Turn Lane ⁶	0	0	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	54
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1

Intersection 40: E 8th St. at Olney / Penn Ave., Bend (Deschutes County)



Aerial Photo



Street View

Figure E.40: Photos for Intersection #40

Table E.83: Location and Geometric Configuration – Intersection #40

Location	Latitude: 44.065621		Longitude: -121.293782					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 4							
Road 1 Name	E 8 th St.		Road 2 Name		Olney Ave. / Penn Ave.			
No. of lanes ²	3 (1,1,TWLTL)		No. of lanes ²		2 (1,1)			
Road No.	--		Road No.		--			
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WE		EB	
Speed Limit (mph)	35		35		35		25	
Road Width ³ (Face-face, ft)	40		40		36		34	
Road Width at Int. ³ (Face-face at stop bar, ft)	52		49		53		53	
Closest Int. Upstream ⁴ (ft. behind stop bar)	162		284		222		894	
Closest Int. Downstream ⁴ (ft. behind stop bar)	393		274		1000		315	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	73	95	115	121	50	106	571	627
Dwy. Location	2	1	2	1	2	1	1	2
Dwy. Type	2	2	2	1	1	1	1	1
Median Type	1		2		1		1	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		0		2		1	
Pedestrian Crossing Light	1		1		1		1	

Table E.84: Lane Geometry – Intersection #40

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	1	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	1
Exclusive Right Turn Lane ⁶	0	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	92	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	62	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	59	91	213
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A	92
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	6	6	6	6
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 41: SE 3rd St. (US 97) at Division St. / Brosterhous Rd., Bend (Deschutes County)



Aerial Photo



Street View

Figure E.41: Photos for Intersection #41

Table E.85: Location and Geometric Configuration – Intersection #41

Location	Latitude: 44.036460		Longitude: -121.304781					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 4							
Road 1 Name	SE 3 rd St.		Road 2 Name	Division St. / Brosterhous Rd.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	2 (1,1)				
Road No.	US 97		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB (NE)		SB (SW)		WB (NW)		EB (SE)	
Speed Limit (mph)	35		35		40		30	
Road Width ³ (Face-face, ft)	73		72		48		47	
Road Width at Int. ³ (Face-face at stop bar, ft)	72		80		46		58	
Closest Int. Upstream ⁴ (ft. behind stop bar)	905		695		287		229	
Closest Int. Downstream ⁴ (ft. behind stop bar)	774		983		344		400	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	222	291	93	174	54	276	163	--
Dwy. Location	2	1	2	2	1	2	2	0
Dwy. Type	2	2	2	2	2	2	2	0
Median Type	2		2		1		1	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		1		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		500		N/A		N/A	
Traffic Control Device ⁵	2		2		2		2	
Signs on Traffic Light Pole/Span wire	0		0		5		5, 2	
Pedestrian Crossing Light	1		1		1		1	

Table E.86: Lane Geometry – Intersection #41

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	1	1
Exclusive Thru Lane ⁶	2	2	0	0
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	0	0	1	1
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	1	1	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	88
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	137	112	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	74	83	N/A	N/A
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	1	1	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 42: Rimrock Way / NW 19th St. at Antler Ave., Redmond (Deschutes County)



Aerial Photo



Street View

Figure E.42: Photos for Intersection #42

Table E.87: Location and Geometric Configuration – Intersection #42

Location	Latitude: 44.276453		Longitude: -121.189251					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 4							
Road 1 Name	Rimrock Way / NW 19 th St.		Road 2 Name	Antler Ave.				
No. of lanes ²	NB: 3 (1,1,TWLTL), SB: 2 (1,1)		No. of lanes ²	2 (1,1)				
Road No.	--		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	35		35		25		35	
Road Width ³ (Face-face, ft)	45		46		35		39	
Road Width at Int. ³ (Face-face at stop bar, ft)	45		46		54		45	
Closest Int. Upstream ⁴ (ft. behind stop bar)	916		468		595		813	
Closest Int. Downstream ⁴ (ft. behind stop bar)	564		1017		916		703	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	270	327	258	--	280	355	6456	--
Dwy. Location	2	1	2	0	1	2	2	0
Dwy. Type	5	1	4	0	4	1	4	0
Median Type	2		1		1		1	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	3		3		3		3	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	4		4		3, 2		4	
Pedestrian Crossing Light	1		1		1		1	

Table E.88: Lane Geometry – Intersection #42

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	0	0	1	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	1
Exclusive Right Turn Lane ⁶	0	0	1	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	247	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	91.70	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	169	251	150	117
Left Turn Lane - Taper Length ⁷ (ft.)	95	78	70	68
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	5	5	5
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	1	0

Intersection 43: Bend Pkwy. (US 97) at Powers Rd., Bend (Deschutes County)



Aerial Photo



Street View

Figure E.43: Photos for Intersection #43

Table E.89: Location and Geometric Configuration – Intersection #43

Location	Latitude: 44.028700		Longitude: -121.315920	
Milepost	139.98			
Int. Type ¹	1			
ODOT Region	Region 4			
Road 1 Name	Bend Pky		Road 2 Name	Powers Rd.
No. of lanes ²	4 (2,2)		No. of lanes ²	WB: 3 (1,2), EB: 2 (1,1)
Road No.	US 97		Road No.	--
Description	Road 1			
	Road 1		Road 2	
Direction (NB, SB, WB, EB)	NB	SB	WB	EB
Speed Limit (mph)	45	45	35	35
Road Width ³ (Face-face, ft)	31	31	46	46
Road Width at Int. ³ (Face-face at stop bar, ft)	32	34	54	52
Closest Int. Upstream ⁴ (ft. behind stop bar)	1618	1416	356	289
Closest Int. Downstream ⁴ (ft. behind stop bar)	593	482	430	495
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	--	--
Dwy. Location	0	0	0	0
Dwy. Type	0	0	0	0
Median Type	4	4	1	1
On-Street Parking	4	4	4	4
On-Street Parking Location (ends ft. behind stop bar)	N/A	N/A	N/A	N/A
Bike Lane	3	3	3	3
Bus Stop Near Int.	3	3	3	3
Bus Stops Location (ft. behind stop bar)	N/A	N/A	N/A	N/A
Traffic Control Device ⁵	12*	12*	1	1
Signs on Traffic Light Pole/Span wire	3	3	25	8, 12
Pedestrian Crossing Light	1	1	1	1

Table E.90: Lane Geometry – Intersection #43

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	1	2
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 44: Main St. (US 97) at 6th St., Klamath Falls (Klamath County)



Aerial Photo



Street View

Figure E.44: Photos for Intersection #44

Table E.91: Location and Geometric Configuration – Intersection #44

Location	Latitude: 42.224750		Longitude: -121.782564	
Milepost	--			
Int. Type ¹	1			
ODOT Region	Region 4			
Road 1 Name	Main St.	Road 2 Name	6 th St.	
No. of lanes ²	2	No. of lanes ²	2	
Road No.	US 97	Road No.	--	
Description	Road 1 (One Way)		Road 2 (One Way)	
Direction (NB, SB, WB, EB)	SB (Southwest)		NB (Northeast)	
Speed Limit (mph)	20		30	
Road Width ³ (Face-face, ft)	47		42	
Road Width at Int. ³ (Face-face at stop bar, ft)	47		42	
Closest Int. Upstream ⁴ (ft. behind stop bar)	261		236	
Closest Int. Downstream ⁴ (ft. behind stop bar)	319		302	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	105	145
Dwy. Location	0	0	2	2
Dwy. Type	0	0	5	2
Median Type	6		6	
On-Street Parking	3*		2	
On-Street Parking Location (ends ft. behind stop bar)	22		20	
Bike Lane	4		4	
Bus Stop Near Int.	3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A	
Traffic Control Device ⁵	2		2	
Signs on Traffic Light Pole/Span wire	13		1, 4, 13	
Pedestrian Crossing Light	1		1	

*2 hour parking and No parking from 3 a.m. to 6 a.m.

Table E.92: Lane Geometry – Intersection #44

Description	Road 1	Road 2
Exclusive Left Turn Lane per direction ⁶	0	1
Shared - Left Turn & Thru Lane ⁶	0	1
Exclusive Thru Lane ⁶	1	0
Shared - Right Turn & Thru Lane ⁶	1	0
Exclusive Right Turn Lane ⁶	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0
Free Right Turn Lane ⁶	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A
Offset Left Turn Lane ⁸	3	3
Are chevrons properly oriented? ⁹	3	3
Channelization ¹⁰	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	1
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0

REGION 5 SITES FOR MODEL

Table E.93: Region 5

County ID	County Name
01	Baker
12	Grant
13	Harney
23	Malheur
25	Morrow
30	Umatilla
31	Union
32	Wallowa

Intersection 45: Court Ave. (US 30) at S Main St., Pendleton (Umatilla County)



Aerial Photo



Street View

Figure E.45: Photos for Intersection #45

Table E.94: Location and Geometric Configuration – Intersection #45

Location	Latitude: 45.672959		Longitude: -118.786542			
Milepost	3.42					
Int. Type ¹	1					
ODOT Region	Region 4					
Road 1 Name	Court Ave. (One Way)		Road 2 Name		S Main St.	
No. of lanes ²	2		No. of lanes ²		4 (2,2)	
Road No.	US 30		Road No.		--	
Description	Road 1 (One Way)			Road 2		
Direction (NB, SB, WB, EB)	WB			NB		SB
Speed Limit (mph)	20			25		25
Road Width ³ (Face-face, ft)	53			56		55
Road Width at Int. ³ (Face-face at stop bar, ft)	53			56		55
Closest Int. Upstream ⁴ (ft. behind stop bar)	204			338		301
Closest Int. Downstream ⁴ (ft. behind stop bar)	277			373		410
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	--	--	--	--
Dwy. Location	0	0	0	0	0	0
Dwy. Type	0	0	0	0	0	0
Median Type	6			1		1
On-Street Parking	3			3		3
On-Street Parking Location (ends ft. behind stop bar)	20			16		11
Bike Lane	4			4		4
Bus Stop Near Int.	3			3		3
Bus Stops Location (ft. behind stop bar)	N/A			N/A		N/A
Traffic Control Device ⁵	12			1		1
Signs on Traffic Light Pole/Span wire	0			13		13
Pedestrian Crossing Light	1			1		1

Table E.95: Lane Geometry – Intersection #45

Description	Road 1 (One Way)	Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	0
Shared - Left Turn & Thru Lane ⁶	1	1	0
Exclusive Thru Lane ⁶	0	1	1
Shared - Right Turn & Thru Lane ⁶	1	0	1
Exclusive Right Turn Lane ⁶	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0
Free Right Turn Lane ⁶	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3
Are chevrons properly oriented? ⁹	3	3	3
Channelization ¹⁰	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	0	0

Intersection 46: SW 4th Ave. at SW 4th St., Ontario (Malheur County)



Aerial Photo



Street View

Figure E.46: Photos for Intersection #46

Table E.96: Location and Geometric Configuration – Intersection #46

Location	Latitude: 44.023925		Longitude: -116.969067					
Milepost	--							
Int. Type ¹	1							
ODOT Region	Region 5							
Road 1 Name	SW 4 th Ave.		Road 2 Name	SW 4 th St.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	2 (1,1)				
Road No.	--		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	WB		EB		NB		SB	
Speed Limit (mph)	30		30		25		25	
Road Width ³ (Face-face, ft)	63		62		46		46	
Road Width at Int. ³ (Face-face at stop bar, ft)	70		74		54		58	
Closest Int. Upstream ⁴ (ft. behind stop bar)	260		273		247		254	
Closest Int. Downstream ⁴ (ft. behind stop bar)	347		333		342		334	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	64	102	38	128	45	62	71	89
Dwy. Location	1	1	2	2	1	2	2	1
Dwy. Type	2	2	2	2	5	2	2	2
Median Type	2		2		1		1	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	4		4		1		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		20		5, 1, 4		5, 2, 4	
Pedestrian Crossing Light	1		1		1		1	

Table E.97: Lane Geometry – Intersection #46

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	1	0	0
Free Right Turn Lane ⁶	0	1	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	136	115
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	99	80	136	115
Left Turn Lane - Taper Length ⁷ (ft.)	63	62	N/A	N/A
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	1	1
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 47: John Day Hwy. (US 26) at N Canyon Rd. (US 395), John Day (Grant County)



Aerial Photo



Street View

Figure E.47: Photos for Intersection #47

Table E.98: Location and Geometric Configuration – Intersection #47

Location	Latitude: 44.416104		Longitude: -118.952667					
Milepost	162.29							
Int. Type ¹	1							
ODOT Region	Region 5							
Road 1 Name	John Day Hwy.		Road 2 Name		N Canyon Blvd.			
No. of lanes ²	2 (1,1)		No. of lanes ²		2 (1,1)			
Road No.	US 26		Road No.		US 395			
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	WB		EB		NB		SB	
Speed Limit (mph)	25		25		25		20	
Road Width ³ (Face-face, ft)	46		43		48		36	
Road Width at Int. ³ (Face-face at stop bar, ft)	49		46		61		36	
Closest Int. Upstream ⁴ (ft. behind stop bar)	317		197		308		567	
Closest Int. Downstream ⁴ (ft. behind stop bar)	280		399		647		386	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	--	--	104	122	86	134	65	118
Dwy. Location	0	0	1	1	2	1	1	2
Dwy. Type	0	0	2	2	2	2	2	2
Median Type	1		1		1		6	
On-Street Parking	3		3		3		3	
On-Street Parking Location (ends ft. behind stop bar)	17 / 70		132 / 56		141 / 163		96 / 26	
Bike Lane	4		4		4		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		0		0		1	
Pedestrian Crossing Light	1		1		1		1	

Table E.99: Lane Geometry – Intersection #47

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	0	0	0	0
Shared - Left Turn & Thru Lane ⁶	0	1	1	0
Exclusive Thru Lane ⁶	0	0	1	0
Shared - Right Turn & Thru Lane ⁶	0	0	0	0
Exclusive Right Turn Lane ⁶	0	1	0	0
Shared – Left turn / thru / right turn lane ⁶	1	0	0	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	131	112	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	N/A	N/A	N/A	N/A
Offset Left Turn Lane ⁸	3	3	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	0	0	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1	1	0

Intersection 48: N 1st St. (US 395) at E Gladys Ave., Hermiston (Umatilla County)



Aerial Photo



Street View

Figure E.48: Photos for Intersection #48

Table E.100: Location and Geometric Configuration – Intersection #48

Location	Latitude: 45.841428		Longitude: -119.290220					
Milepost	5.4							
Int. Type ¹	1							
ODOT Region	Region 5							
Road 1 Name	N 1 st St.		Road 2 Name		E Gladys Ave.			
No. of lanes ²	NB: 4 (2,2), SB: 5 (2,2,TWLTL)		No. of lanes ²		2 (1,1)			
Road No.	US 395		Road No.		--			
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	30		30		25		25	
Road Width ³ (Face-face, ft)	54		64		47		34	
Road Width at Int. ³ (Face-face at stop bar, ft)	59		67		44		71	
Closest Int. Upstream ⁴ (ft. behind stop bar)	248		887		306		388	
Closest Int. Downstream ⁴ (ft. behind stop bar)	974		336		485		396	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	97	120	219	91	22	56	163	219
Dwy. Location	2	1	2	2	1	2	1	2
Dwy. Type	2	2	2	2	2	2	2	5
Median Type	1		2		6		1	
On-Street Parking	4		4		2		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		151		N/A	
Bike Lane	4		4		4		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	0		0		0		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.101: Lane Geometry – Intersection #48

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	1	1
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	1	1
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	0	0
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	63	69	79	79
Left Turn Lane - Taper Length ⁷ (ft.)	56	51	29	N/A
Offset Left Turn Lane ⁸	2	2	2	2
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	5	5	5	5
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

Intersection 49: Umatilla Stanfield Hwy. (US 395) at 4th St., Hermiston (Umatilla County)



Aerial Photo



Street View

Figure E.49: Photos for Intersection #49

Table E.102: Location and Geometric Configuration – Intersection #49

Location	Latitude: 45.833340		Longitude: -119.285113					
Milepost	6.03							
Int. Type ¹	1							
ODOT Region	Region 5							
Road 1 Name	Umatilla Stanfield Hwy.		Road 2 Name	4 th St.				
No. of lanes ²	NB: 5 (2,2,TWLTL)		SB: 6 (3,2,TWLTL)	2 (1,1)				
Road No.	US 395		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB (NW)		SB (SE)		NB		SB	
Speed Limit (mph)	35		35		25		25	
Road Width ³ (Face-face, ft)	67		75		38		42	
Road Width at Int. ³ (Face-face at stop bar, ft)	86		110		45		57	
Closest Int. Upstream ⁴ (ft. behind stop bar)	763		714		1960		496	
Closest Int. Downstream ⁴ (ft. behind stop bar)	822		860		635		20962	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	187	245	259	277	52	181	89	106
Dwy. Location	2	2	1	2	2	1	2	1
Dwy. Type	2	2	2	2	2	2	4	2
Median Type	2		2		1		1	
On-Street Parking	4		4		4		3	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		Unclear	
Bike Lane	4		4		4		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		1		1	
Signs on Traffic Light Pole/Span wire	5		5, 2		0		0	
Pedestrian Crossing Light	1		1		1		1	

Table E.103: Lane Geometry – Intersection #49

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	2	0	0
Shared - Right Turn & Thru Lane ⁶	1	0	0	0
Exclusive Right Turn Lane ⁶	0	1	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	1	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	103	N/A	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	46	N/A	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	1	1	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	1	1	1	1
Exclusive Right Turn Lane Signalization ¹¹	0	1	0	0

Intersection 50: N 1st St./Umatilla-Stanfield Hwy. (US 395) at Jennie Ave., Hermiston (Umatilla County)



Aerial Photo



Street View

Figure E.50: Photos for Intersection #50

Table E.104: Location and Geometric Configuration – Intersection #50

Location	Latitude: 45.845858		Longitude: -119.290173					
Milepost	5.09							
Int. Type ¹	1							
ODOT Region	Region 5							
Road 1 Name	N 1 st St. / Umatilla-Stanfield Hwy.		Road 2 Name	Jennie Ave.				
No. of lanes ²	5 (2,2,TWLTL)		No. of lanes ²	2 (1,1)				
Road No.	US 395		Road No.	--				
Description	Road 1				Road 2			
Direction (NB, SB, WB, EB)	NB		SB		WB		EB	
Speed Limit (mph)	30		30		25		25	
Road Width ³ (Face-face, ft)	66		65		32		41	
Road Width at Int. ³ (Face-face at stop bar, ft)	69		71		33		41	
Closest Int. Upstream ⁴ (ft. behind stop bar)	417		287		225		440	
Closest Int. Downstream ⁴ (ft. behind stop bar)	352		479		536		312	
1 st & 2 nd Closest Dwy. to Int. (ft. behind stop bar)	156	290	70	184	67*	107	35	191
Dwy. Location	2	1	1	2	2	1	1	1
Dwy. Type	2	2	2	2	2	2	2	2
Median Type	2		2		6		6	
On-Street Parking	4		4		4		4	
On-Street Parking Location (ends ft. behind stop bar)	N/A		N/A		N/A		N/A	
Bike Lane	4		4		4		4	
Bus Stop Near Int.	3		3		3		3	
Bus Stops Location (ft. behind stop bar)	N/A		N/A		N/A		N/A	
Traffic Control Device ⁵	1		1		12		12	
Signs on Traffic Light Pole/Span wire	0		0		0		0	
Pedestrian Crossing Light	1		1		1		1	

*Recently added driveway. Added after September 2012

Table E.105: Lane Geometry – Intersection #50

Description	Road 1		Road 2	
Exclusive Left Turn Lane per direction ⁶	1	1	0	0
Shared - Left Turn & Thru Lane ⁶	0	0	0	0
Exclusive Thru Lane ⁶	1	1	0	0
Shared - Right Turn & Thru Lane ⁶	1	1	0	0
Exclusive Right Turn Lane ⁶	0	0	0	0
Shared – Left turn / thru / right turn lane ⁶	0	0	1	1
Free Right Turn Lane ⁶	0	0	0	0
Right Turn Lane Length ⁷ (ft. behind stop bar)	N/A	N/A	N/A	N/A
Right Turn Lane - Taper Length ⁷ (ft)	N/A	N/A	N/A	N/A
Left Turn Lane Length ⁷ (ft. behind stop bar)	89	86	N/A	N/A
Left Turn Lane - Taper Length ⁷ (ft.)	60	70	N/A	N/A
Offset Left Turn Lane ⁸	2	2	3	3
Are chevrons properly oriented? ⁹	3	3	3	3
Channelization ¹⁰	3	3	3	3
Exclusive Left Turn Lane Signalization ¹¹	3	3	0	0
Shared turn & thru lane/Exclusive Thru Lane Signalization ¹¹	2	2	2	2
Exclusive Right Turn Lane Signalization ¹¹	0	0	0	0

