

Appendix B: Bicycle Level of Service Results





Bicycle Level of Service – Segments

Type of Bikeway		LOS
Physically Separated Bikeway (cycl	e tracks, protected bike lanes and multi-use paths). Physical separation refers to, but is not	Α
limited to, curbs, raised medians, bo	Illards and parking lanes (adjacent to the bike lane along the travelled way i.e. not curbside).	Α
Bike Lanes Not Adjacent Parking La		
	1 travel lane in each direction	Α
	2 travel lanes in each direction separated by a raised median	В
No. of Travel Lanes	2 travel lanes in each direction without a separating median	С
	More than 2 travel lanes in each direction	D
	≥ 1.8 m wide bike lane (includes marked buffer and paved gutter width)	Α
Bike Lane Width	≥1.5 m to <1.8 m wide bike lane (includes marked buffer and paved gutter width)	В
	≥1.2 m to <1.5 m wide bike lane (includes marked buffer and paved gutter width)	С
	≤ 50 km/h operating speed	Α
Operating Speed	60 km/h operating speed	C
	≥ 70 km/h operating speed	E
Bike lane blockage	Rare	A
(commercial areas)	Frequent	C
,	arking Lane - Select Worst Scoring Criteria	
	1 travel lane in each direction	Α
No. of Travel Lanes	2 or more travel lanes in each direction	C
	4.5 m wide bike lane plus parking lane (includes marked buffer and paved gutter width)	A
	4.25 m wide bike lane plus parking lane (includes marked buffer and paved gutter width)	В В
Bike Lane and Parking Lane Width	4.23 III wide blike lane plus parking lane (includes marked builer and paved gutter width)	
	≤ 4.0 m wide bike lane plus parking lane (includes marked buffer and paved gutter width)	С
	< 40 km/h operating speed	Α
0	50 km/h operating speed	В
Operating Speed	60 km/h operating speed	D
	> 70 km/h operating speed	F
Bike lane blockage	Rare	Α
(commercial areas)	Frequent	С
Mixed Traffic	· ·	
mad Irano	2 travel lanes; ≤ 40 km/h; no marked centerline or classified as residential	Α
	2 to 3 travel lanes; ≤ 40 km/h	В
	2 travel lanes; 50 km/h; no marked centerline or classified as residential	В
No. of Travel Lanes and Operating	2 to 3 travel lanes; 50 km/h	D
Speed	4 to 5 travel lanes; ≤ 40 km/h	D
Оресси	4 to 5 travel lanes; ≥ 50 km/h	E
	6 or more travel lanes; ≤ 40 km/h	E
	> 60 km/h	F
Unsignalized Crossing along Route		•
	3 or less lanes being crossed; ≤ 40 km/h	Α
	4 to 5 lanes being crossed; ≤ 40 km/h	В
	3 or less lanes being crossed; 50 km/h	В
	4 to 5 lanes being crossed; 50 km/h	С
No. of Travel Lanes on Side Street	3 or less lanes being crossed; 60 km/h	С
and Operating Speed	4 to 5 lanes being crossed; 60 km/h	D
portang oppos	6 or more lanes being crossed; ≤ 40 km/h	Е
	3 or less lanes being crossed; ≥ 65 km/h	E
	6 or more lanes being crossed; ≥ 50 km/h	F
	4 to 5 lanes being crossed; ≥ 65 km/h	F
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	5 or less lanes being crossed; ≤ 40 km/h	A
	3 or less lanes being crossed; 50 km/h	A
	6 or more lanes being crossed; ≤ 40 km/h	В
	4 to 5 lanes being crossed; 50 km/h	В
	3 or less lanes being crossed; 60 km/h	В
No. of Travel Lanes on Side Street and Operating Speed	6 or more lanes being crossed; 50 km/h	C
	4 to 5 lanes being crossed; 60 km/h	C
	3 or less lanes being crossed; ≥ 65 km/h	D
	6 or more lanes being crossed; 60 km/h	E
	4 to 5 lanes being crossed; ≥ 65 km/h	E
	6 or more lanes being crossed; ≥ 65 km/h	F

Source: City of Ottawa's MMLOS Analysis Guidelines







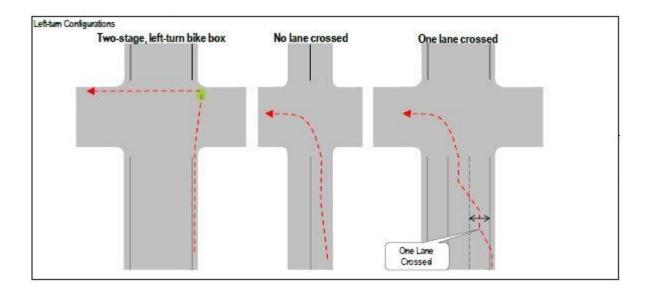
Bicycle Level of Service – Intersections

Bikeway and Intersection Type		LOS
Bike Lanes or higher order facility or	n a Signalized Intersection Approach	
Right-turn Lane and Turning Speed of	No impact on LTC (as lown as quality facility marries to the yight of any type laws of the wise see market hite	lance holoui
Motorists	No impact on LTS (as long as cycling facility remains to the right of any turn lane - otherwise see pocket bike	ianes below)
	Two-stage, left-turn bike box; ≤ 50 km/h	Α
	No lane crossed, ≤ 50 km/h	В
	1 lane crossed, ≤ 40 km/h	В
Cyclist Making a Left-turn and	No lane crossed, ≥ 60 km/h	С
Operating Speed of Motorists (refer	1 lane crossed, 50 km/h	C
to figure)	2 or more lanes crossed, ≤ 40 km/h	D
b ilgure)	1 lane crossed, ≥ 60 km/h	E
	2 or more lanes crossed, ≥ 50 km/h	F
	All other single left-turn lane configurations	F
	Dual left-turn lanes (shared or exclusive)	F
Pocket Bike Lanes on a Signalized In	ntersection Approach	
	Right-turn lane introduced to the right of the bike lane and ≤ 50 m long, turning speed ≤ 25 km/h (based on	В
	curb radii and angle of intersection)	
	Right-turn lane introduced to the right of the bike lane and > 50 m long, turning speed ≤ 30 km/h (based on	D
Right-turn Lane and Turning Speed of		
Motorists	Bike lane shifts to the left of the right-turn lane, turning speed ≤ 25 km/h (based on curb	D
	radii and angle of intersection)	
	Right-turn lane with any other configurations	F
	Dual right-turn lanes (shared or exclusive)	F
	Two-stage, left-ham bike box;≤50 km/h	Α
	No lane crossed, ≤ 50 km/h	В
	1 lane crossed, ≤ 40 km/h	В
Cyclist Making a Left-turn and	No lane crossed, ≥ 60 km/h	С
Operating Speed of Motorists (refer	1 lane crossed, 50 km/h	С
to figure)	2 or more lanes crossed, ≤ 40 km/h	D
2-9-07	1 lane crossed, ≥ 60 km/h	E
	2 or more lanes crossed, ≥ 50 km/h	F
	All other single left-turn lane configurations	F
	Dual left-turn lanes (shared or exclusive)	F
Mixed Traffic on a Signalized Interse		
	Right-turn lane 25 to 50 m long, turning speed ≤ 25 km/h (based on curb radii and angle of intersection)	D
	Right-turn lane 25 to 50 m long, turning speed > 25 km/h (based on curb radii and angle of intersection)	E
Motorists	Right-turn lane longer than 50 m	F
	Dual right-turn lanes (shared or exclusive)	F
	Two-stage, left-turn bike box; ≤ 50 km/h	A
	No lane crossed, ≤ 50 km/h	В
	1 lane crossed, ≤ 40 km/h	В
Cyclist Making a Left-turn and	No lane crossed, ≥ 60 km/h	D
Operating Speed of Motorists (refer	1 lane crossed, 50 km/h	D
to figure)	2 or more lanes crossed, ≤ 40 km/h	D
	1 lane crossed, ≥ 60 km/h	F
	2 or more lanes crossed, ≥ 50 km/h	F
	All other single left-turn lane configurations	F
	Dual left-turn lanes (shared or exclusive)	F









Source: City of Ottawa's MMLOS Analysis Guidelines





Existing (2020) Segment BLOS Results for East – West Corridors

Corridor	Segment	Eastbound PLOS	Westbound PLOS
Portage Pkwy	Applewood Cres and Edgeley Blvd	E	E
Portage Pkwy	Edgeley Blvd and Buttermill Ave	D	D
Portage Pkwy	Buttermill Ave and Millway Ave	D	D
Portage Pkwy	Millway Ave and Jane St	D	D
Apple Mill Rd	Applewood Cres and Commerce St	A	A
Apple Mill Rd	Commerce St and Edgeley Blvd	A	A
Apple Mill Rd	Edgeley Blvd and Transit Square	A	A
Apple Mill Rd	Transit Square and Millway Ave	A	A
Apple Mill Rd	Millway Ave and Jane St	A	A
New Park Pl	Edgeley Blvd and TTC Plaza	D	D
New Park Pl	TTC Plaza and Millway Ave	В	В
Barnes Court	West of Creditstone Road	В	В
McCleary Court	East of Creditstone Road	В	В
McCleary Court	West of Creditstone Road	В	В
Highway 7	Colossus Dr and Applewood Cres	A	A
Highway 7	Applewood Cres and Commerce St	Α	A
Highway 7	Commerce St and Edgeley Blvd	D	D
Highway 7	Edgeley Blvd and Millway Ave	D	D
Highway 7	Millway Ave and Jane St	D	D
Highway 7	Jane St and Maplecrete Rd	D	D
Highway 7	Maplecrete Rd and Creditstone Rd	D	D
Commerce St	Commerce St and Interchange Way (North)	D	D
Commerce St	Commerce St and Interchange Way (South)	D	D
Doughton Rd	Jane St and Maplecrete Rd	D	D
Doughton Rd	Maplecrete Rd and Creditstone Rd	D	D
Doughton Rd	East of Creditstone Road	D	D
Freshway Dr	East of Creditstone Road	В	В







Corridor	Segment	Eastbound PLOS	Westbound PLOS
Interchange Way	Commerce St and Interchange Way	D	D
Interchange Way	Interchange Way and Exchange Ave	D	D
Interchange Way	Exchange Ave and Jane St	D	D
Exchange Ave	West of Peelar Rd	D	D
Peelar Rd	Peelar Rd and Maplecrete Rd	В	В
Peelar Rd	Maplecrete Rd and Creditstone Rd	В	В

Existing (2020) Segment BLOS Results for North-South Corridors

Corridor	Segment	Northbound PLOS	Southbound PLOS
Applewood Cres	Portage Pkwy and Apple Mill Rd	A	E
Applewood Cres	Apple Mill Rd and Highway 7	A	E
Commerce St	Apple Mill Rd and Highway 7	D	D
Commerce St	Highway 7 and Commerce St	D	D
Commerce St	Commerce St and Commerce St	D	D
Commerce St	Commerce St and Interchange Way	D	D
Edgeley Blvd	Portage Pkwy and Apple Mill Rd	Е	E
Edgeley Blvd	Apple Mill Rd and New Park Pl	Е	Е
Edgeley Blvd	New Park Pl and Highway 7	Е	E
Interchange Way	Highway 7 and Commerce St	Е	Е
Interchange Way	Commerce St and Commerce St	D	D
Interchange Way	Commerce St and Interchange Way	D	D
Exchange Ave	Interchange Way and Exchange Ave	D	D
Millway Ave	Portage Pkwy and Apple Mill Rd	С	A
Millway Ave	Apple Mill Rd and New Park Pl	С	С
Millway Ave	New Park Pl and Hwy 7	С	С
Jane St	Portage Pkwy and Apple Mill Rd	Е	E







Corridor	Segment	Northbound PLOS	Southbound PLOS
Jane St	Apple Mill Rd and Highway 7	E	Е
Jane St	Highway 7 and Doughton Rd	Е	E
Jane St	Doughton Rd and Interchange Way	Е	E
Jane St	Interchange Way and Hwy 407 WB Off- Ramp	E	E
Jane St	Hwy 407 WB and EB Off-Ramps	Е	E
Peelar Rd	Interchange Way and Peelar Rd	D	D
Maplecrete Rd	North of Highway 7	D	D
Maplecrete Rd	Highway 7 and Doughton Rd	D	D
Maplecrete Rd	Doughton Rd and Peelar Rd	D	D
Creditstone Rd	North of Barnes Ct	D	D
Creditstone Rd	Barnes Ct and McCleary Ct	D	D
Creditstone Rd	McCleary Ct and Highway 7	E	E
Creditstone Rd	Highway 7 and Doughton Rd	D	D
Creditstone Rd	Doughton Rd and Freshway Dr	В	В
Creditstone Rd	Freshway Dr and Peelar Rd	В	В
Creditstone Rd	South of Peelar Road	В	В

Existing (2020) Intersection BLOS Results

Intersection	Approach	Bicycle LOS
	North	В
Portage Parkway and Applewood Crescent	South	В
Portage Parkway and Applewood Crescent	East	D
	West	D
	North	D
Doutage Denkryey and Edgeley Plyd	South	D
Portage Parkway and Edgeley Blvd	East	D
	West	F





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Intersection	Approach	Bicycle LOS
	North	В
Portage Parkway and Millway Avenue	South	D
Fortage Farkway and Millway Avenue	East	В
	West	В
	North	F
Portage Parkway and Jane Street	South	F
Portage Parkway and Jane Street	East	D
	West	D
	North	В
Apple Mill Road and Applewood Crescent	South	В
	East	В
	South	D
Apple Mill Road and Commerce Street	East	A
	West	A
	North	D
Apple Will Dood and Edwaley Dayleyand	South	D
Apple Mill Road and Edgeley Boulevard	East	В
	West	В
	North	A
Apple Mill Dand and Millerey Assessed	South	A
Apple Mill Road and Millway Avenue	East	A
	West	A
	North	С
Apple Mill Road and Jane Street	South	F
	West	В
	North	D
Craditatora Road and McCleamy Count	South	D
Creditstone Road and McCleary Court	East	В
	West	В
	North	F
Highway 7 and Calagana Drive	South	В
Highway 7 and Colossus Drive	East	В
	West	В







Intersection	Approach	Bicycle LOS
	North	В
Highway 7 and Applewood Crescent	South	F
Ingriway 7 and Applewood Crescent	East	С
	West	С
	North	F
Highway 7 and Commerce Street	South	D
riigiiway 7 and commerce street	East	A
	West	A
	North	F
Highway 7 and Edgeley Blvd	South	Е
Trigitway 7 and Edgerey bivd	East	A
	West	A
	North	D
Highway 7 and Millway Ave	South	D
Trigitway 7 and minway Ave	East	A
	West	A
	North	F
Highway 7 and Jane Street	South	F
riigiiway 7 and jane street	East	A
	West	D
	North	D
Highway 7 and Maplecrete Road	South	D
Trigitway 7 and mapicerete Road	East	A
	West	A
	North	F
Highway 7 and Creditstone Road	South	D
Trighway 7 and Creditstone Road	East	A
	West	A
	North	D
Interchange Way and Interchange Way	East	D
	West	D
Jana Street and Daughten Bood	North	F
Jane Street and Doughton Road	South	F





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Intersection	Approach	Bicycle LOS
	East	D
	North	F
Jana Straat and Internal anga Mary	South	F
Jane Street and Interchange Way	East	В
	West	D
	North	С
Jane Street and Highway 407 WB Off-Ramp	South	F
	East	F
	North	С
Jane Street and Highway 407 EB Off-Ramp	South	С
	West	F

