

Appendix 1 of Staff Report SRPI.23.016



Automated Speed Limit Guidelines FORM A - Automated Speed Limit Guidelines Spreadsheet

Version:
10-Apr-09

Name of Corridor:	Berwick Crescent		
Segment Evaluated:	16th Avenue	to	Berwick Crescent
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	965 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Minor	Prevailing Speed: (85th Percentile - for information only)	km/h
# Through Lanes	1 lane	Policy: (Maximum Posted Speed)	50 km/h
Per Direction:			

		RISK	Score
A1	GEOMETRY (Horizontal)	Higher	3
A2	GEOMETRY (Vertical)	Lower	1
A3	AVERAGE LANE WIDTH	Medium	4
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Higher	9
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	2
	STOP controlled intersection	1	
	Signalized intersection	1	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	2	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	127	
	Right-in / Right-out only	0	
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Higher	9

Total Risk Score:

48

Recommended Posted
Speed Limit (km/h):

As determined by road characteristics

40

As determined by policy

50

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

Comments:

Berwick Cr @ Berwick Cr counted as a STOP controlled intersection.

Access to townhouses counted as a driveway.

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Name of Corridor:	Pemberton Road			
Segment Evaluated:	Bathurst Street	to	Wainwright Avenue	
Geographic Region:	Ontario			
Road Agency:	City of Richmond Hill			
Road Classification:	Local	Length of Corridor:	1,080	m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)		km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50	km/h
Major / Minor:	Minor	Prevailing Speed: (85th Percentile - for information only)		km/h
# Through Lanes	1 lane	Policy: (Maximum Posted Speed)	50	km/h
Per Direction:				

		RISK	Score
A1	GEOMETRY (Horizontal)	Lower	1
A2	GEOMETRY (Vertical)	Lower	1
A3	AVERAGE LANE WIDTH	Medium	4
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Higher	9
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	1
	STOP controlled intersection	3	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	2	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	96	
	Right-in / Right-out only	0	
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Higher	9

Total Risk Score:

45

Recommended Posted
Speed Limit (km/h):

As determined by road characteristics

40

As determined by policy

50

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

Comments:

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Name of Corridor:	Puccini Drive/Poplar Drive		
Segment Evaluated:	Bathurst Street	to	Parker Avenue
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	1,430 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Major	Prevailing Speed: (85th Percentile - for information only)	43 km/h
# Through Lanes	1 lane	Policy: (Maximum Posted Speed)	50 km/h
Per Direction:			

RISK		Score	
A1	GEOMETRY (Horizontal)	Medium	2
A2	GEOMETRY (Vertical)	Lower	1
A3	AVERAGE LANE WIDTH	Medium	4
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Higher	9
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	2
	STOP controlled intersection	2	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	99	
	Right-in / Right-out only	0	
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Higher	9

Total Risk Score:

47

Recommended Posted
Speed Limit (km/h):

As determined by road characteristics

40

As determined by policy

50

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

Comments:

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Name of Corridor:	Rothbury Road		
Segment Evaluated:	Brookside Road	to	Gamble Road
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Collector	Length of Corridor:	1,190 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Minor	Prevailing Speed: (85th Percentile - for information only)	51 km/h
# Through Lanes	1 lane	Policy: (Maximum Posted Speed)	50 km/h
Per Direction:			

		RISK	Score
A1	GEOMETRY (Horizontal)	Medium	2
A2	GEOMETRY (Vertical)	Lower	1
A3	AVERAGE LANE WIDTH	Medium	4
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Medium	6
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	13
	STOP controlled intersection	3	
	Signalized intersection	0	
	Roundabout or traffic circle	1	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	4	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	88	
	Right-in / Right-out only	0	
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Higher	9

Total Risk Score:

55

Recommended Posted
Speed Limit (km/h):

As determined by road characteristics

40

As determined by policy

50

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

Comments:

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Name of Corridor:	Sandbanks Drive		
Segment Evaluated:	Nantucket Drive	to	Bayview Park Lane
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	650 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Major	Prevailing Speed: (85th Percentile - for information only)	55 km/h
# Through Lanes	1 lane	Policy: (Maximum Posted Speed)	50 km/h
Per Direction:			

		RISK	Score
A1	GEOMETRY (Horizontal)	Higher	3
A2	GEOMETRY (Vertical)	Medium	2
A3	AVERAGE LANE WIDTH	Medium	4
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Medium	6
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	1
	STOP controlled intersection	2	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	40	
	Right-in / Right-out only	0	
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Medium	6

Total Risk Score:

42

Recommended Posted
Speed Limit (km/h):

As determined by road characteristics

40

As determined by policy

50

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

Comments: