

# Appendix 1 of Staff Report SRPI.22.023



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

Version:  
10-Apr-09

Name of Corridor:	Bridgeport Street/Libby Boulevard		
Segment Evaluated:	Richmond Street	to	Rumble Avenue
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	508 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	Medium	6
D	PAVEMENT SURFACE	Lower	1
E1	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	3
	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	3	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	32	
	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:

44

### 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:

Bridgeport Street and Libby Boulevard, from Richmond Street to Rumble Avenue, are residential local roads with 20 metres right-of-way and 8.0 metres pavement width. A sidewalk exists along the east side of the roads.

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Name of Corridor:	Church Street South		
Segment Evaluated:	Sunshine Drive	to	Centre Street East
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	2,000 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	60 km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Major	Prevailing Speed: (85th Percentile - for information only)	58 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	5	
	Signalized intersection	1	
	Roundabout or traffic circle	0	
	Crosswalk	1	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	6	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	115	
	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:

Church St S, from Sunshine Dr to Centre St E is a residential local road. The road segment has variable right-of-way (15-20 m) and pavement width (8.0-8.5 m). Sidewalks exist along: east side between Centre St E and Harding Blvd; both sides between Harding Blvd and 140 m east of Weldrick Rd E; and south side between 140 m east of Weldrick Rd E and Sunshine Dr.

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Name of Corridor:	Elmwood Avenue		
Segment Evaluated:	Yonge Street	to	70 m east of Lennox Avenue
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	700 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Minor	Prevailing Speed: (85th Percentile - for information only)	56 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	Lower	2
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	4
	STOP controlled intersection	2	
	Signalized intersection	1	
	Roundabout or traffic circle	0	
	Crosswalk	1	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	3	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	49	
	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:

46

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:

Elmwood Avenue, from Yonge Street to a point 70 m east of Lennox Avenue is a residential local road (20 metres right-of-way). The road segment has a pavement width of 8.5 metres and a sidewalk exists along the south side of the road

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

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Name of Corridor:	Roseview Avenue		
Segment Evaluated:	Church Street South	to	Pugsley Avenue
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	500 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)	45 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	3
	STOP controlled intersection	2	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	3	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	36	
	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:

44

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:

Roseview Avenue, from Church Street South to Pugsley Avenue is a residential local road (20 metres right-of-way). The road segment has a pavement width of 7.3 metres. Sidewalks exist along both sides of the road between Church Street South and Ruggles Avenue, and along the south side between Ruggles Avenue and Pugsley Avenue

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

Version:  
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Name of Corridor:	Goode Street		
Segment Evaluated:	Toporowski Avenue	to	Heritage Hollow Estate Street
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	520 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)	47 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	3
	STOP controlled intersection	1	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
	Sidestreet STOP-controlled or lane	5	
E2	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences	15
	Left turn movements permitted	57	
	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:

Goode Street, from Toporowski Avenue to Heritage Hollow Estate Street is a residential local road (20 metres right-of-way). The road has a pavement width of 8.5 metres. A sidewalk exists along the east side of the road.

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

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Name of Corridor:	Wainwright Avenue		
Segment Evaluated:	West Limit of Wainwright Ave	to	Marsi Road
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	500 m
Urban / Rural:	Urban	Design Speed: (Required for Freeway, Expressway, Highway)	
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	50 km/h
Major / Minor:	Minor	Prevailing Speed: (85th Percentile - for information only)	42 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	3
	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	53	
	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:

Wainwright Avenue, from Marsi Road to West Limit of Wainwright Avenue is a local residential road (20 metres right-of-way). The road segment has a pavement width of 8.5 metres. A sidewalk exists along the east and south side of the road.

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Version:  
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Name of Corridor:	Yongehurst Street		
Segment Evaluated:	Kersey Crescent	to	Yonge Street
Geographic Region:	Ontario		
Road Agency:	City of Richmond Hill		
Road Classification:	Local	Length of Corridor:	840 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)	60 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	Lower	2
B	ROADSIDE HAZARDS	Lower	1
C1	PEDESTRIAN EXPOSURE	Lower	3
C2	CYCLIST EXPOSURE	Medium	6
D	PAVEMENT SURFACE	Lower	1
E1	<b>NUMBER OF INTERSECTIONS WITH PUBLIC ROADS</b>	<i>Number of Occurrences</i>	1
	STOP controlled intersection	2	
	Signalized intersection	0	
	Roundabout or traffic circle	0	
	Crosswalk	0	
	Active, at-grade railroad crossing	0	
E2	<b>NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS</b>	<i>Number of Occurrences</i>	15
	Left turn movements permitted	82	
	Right-in / Right-out only	0	
E3	<b>NUMBER OF INTERCHANGES</b>	<i>Number of Occurrences</i>	0
	Number of interchanges along corridor	0	
F	ON-STREET PARKING	Higher	9

**Total Risk Score:**

40

**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:

Yongehurst Road, from Kersey Crescent to Yonge Street is a residential local road (20 metres right-of-way). The road segment has a pavement width of 8.5 metres. A sidewalk exists along the north side of the road.