

Traffic Calming (Speed Humps) - Charlottetown Boulevard

Date: June 25, 2024

To: Scarborough Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 25, Scarborough-Rouge Park

SUMMARY

This staff report is about a matter that Community Council has delegated authority from City Council to make a final decision.

Transportation Services is recommending the installation of speed humps on Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East. Staff's assessment indicates that the criteria as set out in the updated Traffic Calming Policy has been satisfied. Therefore, speed humps should be installed on Charlottetown Boulevard.

RECOMMENDATIONS

The Director, Traffic Management, Transportation Services recommends that:

1. Scarborough Community Council authorize the installation of speed humps on Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East.
2. Scarborough Community Council direct the City Solicitor to prepare a by-law to alter the roadway for the installation of eight speed humps on Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East, generally as shown on Attachments 3 and 4, Drawings TC-300 and TC-301 dated May 2024, attached to the report entitled "Traffic Calming (Speed Humps) - Charlottetown Boulevard" from the Director, Traffic Management, Transportation Services.

FINANCIAL IMPACT

The estimated cost for installing eight speed humps on Charlottetown Boulevard is \$32,000.00. Funding would be subject to availability and competing priorities within the Transportation Services 2025 Capital Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services received a request from the Ward Councillor, on behalf of area residents, to investigate the feasibility of installing speed humps on Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East. The residents are concerned that motorists travel at a high rate of speed on Charlottetown Boulevard.

Existing Conditions

Charlottetown Boulevard is characterized by the following conditions:

- It is a two-lane, north-south, collector roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume varies from approximately 1,300 to 1,600 vehicles
- The speed limit is 30 km/h
- Heavy trucks are prohibited at all times
- Northbound and southbound U-turns are prohibited at all times between Elkwood Drive and Lawrence Avenue East
- There is no Toronto Transit Commission (TTC) service provided
- There are sidewalks located on both sides of the street

The land use in the area consists of detached and semi-detached residential dwellings. Charlottetown Junior Public School, Sir Oliver Mowat Collegiate Institute, Port Union Community Recreation Centre and Charlottetown Park are located between Lawrence Avenue East and Elkwood Drive. Accordingly, Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East, is designated as a Community Safety Zone.

A map of the area and proposed locations of the speed humps is included in Attachments 3 and 4.

Study Results

As part of the assessment of the warrant criteria, two vehicle speed and volume studies were conducted on Charlottetown Boulevard from April 18 to 20, 2023. The results of the studies were evaluated against the warrant criteria for Traffic Calming as adopted by the City Council. The study results on Charlottetown Boulevard are summarized in Table 1.

Table 1: Charlottetown Boulevard Speed and Volume Study Results

Road section	Daily Traffic Volume	85th percentile speed criteria		95th percentile speed criteria	
		Results	Warrant Requirement	Results	Warrant Requirement
Charlottetown Boulevard, between Conference Boulevard to McCulley Street	1,606	42 km/h	38 km/h	47 km/h	45 km/h
Charlottetown Boulevard, between McCulley Street to Lawrence Avenue East	1,267	43 km/h	38 km/h	48 km/h	45 km/h

Based on the study results, both sections of Charlottetown Boulevard have satisfied the warrant criteria for the 85th and 95th percentile speeds. Additionally, all blocks are over the minimum 120 metre length requirement.

The investigation concluded that the eligibility and warrant criteria outlined in the updated Traffic Calming Policy have been satisfied. Therefore, staff recommend the installation of speed humps on Charlottetown Boulevard.

Relative Priority and Other Impacts

In the event that the number of approved requests for roadway traffic calming measures exceeds the budget allocated for installation, funding for approved installations will be prioritized using a Prioritization Score. This score is made up of a Quantitative Score and a Qualitative Score.

The Quantitative Score is based on the results of the data collection, including travel speeds and traffic volumes to prioritize locations with higher vehicle speeds and volumes.

The Qualitative Score includes:

- Collision history to prioritize locations with a history of serious injury or fatal collisions and those involving a pedestrian or cyclist
- Equity to prioritize equity-deserving communities with a high-concentration of priority populations and those that are transportation disadvantaged
- Expected presence of vulnerable road users (elderly population, school children and pedestrians, including transit riders) to prioritize locations with a higher risk of fatal and serious injury collisions

The Quantitative and Qualitative Scores are averaged to provide the complete Prioritization Score. Charlottetown Boulevard, between Conference Boulevard and Lawrence Avenue East, scored 30 ranking points out of a possible 100.

No alterations to parking regulations will be required, nor will the number of parking spaces be affected by the installation of speed humps. Installation of speed humps will have minimal effect on winter services, street cleaning and garbage collection.

Consultation with emergency services (Toronto Police Service, Toronto Fire Services and Toronto Paramedic Services) is required to ensure that the design and layout of a traffic calming proposal does not unduly affect their operations. Emergency services were advised of this proposal.

Toronto Fire Services responded and advised of potential delays in emergency responses but expressed support for initiatives that enhance community safety. A copy of their full response is included in Attachment 5. Toronto Paramedic Services have also provided their comments. A copy of their full response is included in Attachment 6. Toronto Police Service has not provided comments back at the time of writing this report. Installing speed humps will result in slower operating speeds for all vehicles, including emergency service vehicles.

The Ward Councillor has been advised of the recommendations in this report.

CONTACT

Dan Clement, CET, Manager Traffic Operations (Area 1), Transportation Services
416-397-5021, Dan.Clement@toronto.ca

SIGNATURE

Roger Browne, M.A.Sc., P. Eng.
Director, Traffic Management, Transportation Services

ATTACHMENTS

Attachment 1: Traffic Calming Warrant - Charlottetown Boulevard, between Conference Boulevard and McCulley Street

Attachment 2: Traffic Calming Warrant - Charlottetown Boulevard, McCulley Street and Lawrence Avenue East

Attachment 3: Speed Hump Locations Plan - Charlottetown Boulevard, Lawrence Avenue East - Conference Boulevard, TC-300 (Matchline, see drawing TC-301)

Attachment 4: Speed Hump Locations Plan - Charlottetown Boulevard, Lawrence Avenue East - Conference Boulevard, TC-301

Attachment 5: Letter from Toronto Fire Services, dated February 20, 2024

Attachment 6: Letter from Toronto Paramedic Services, dated April 3, 2024

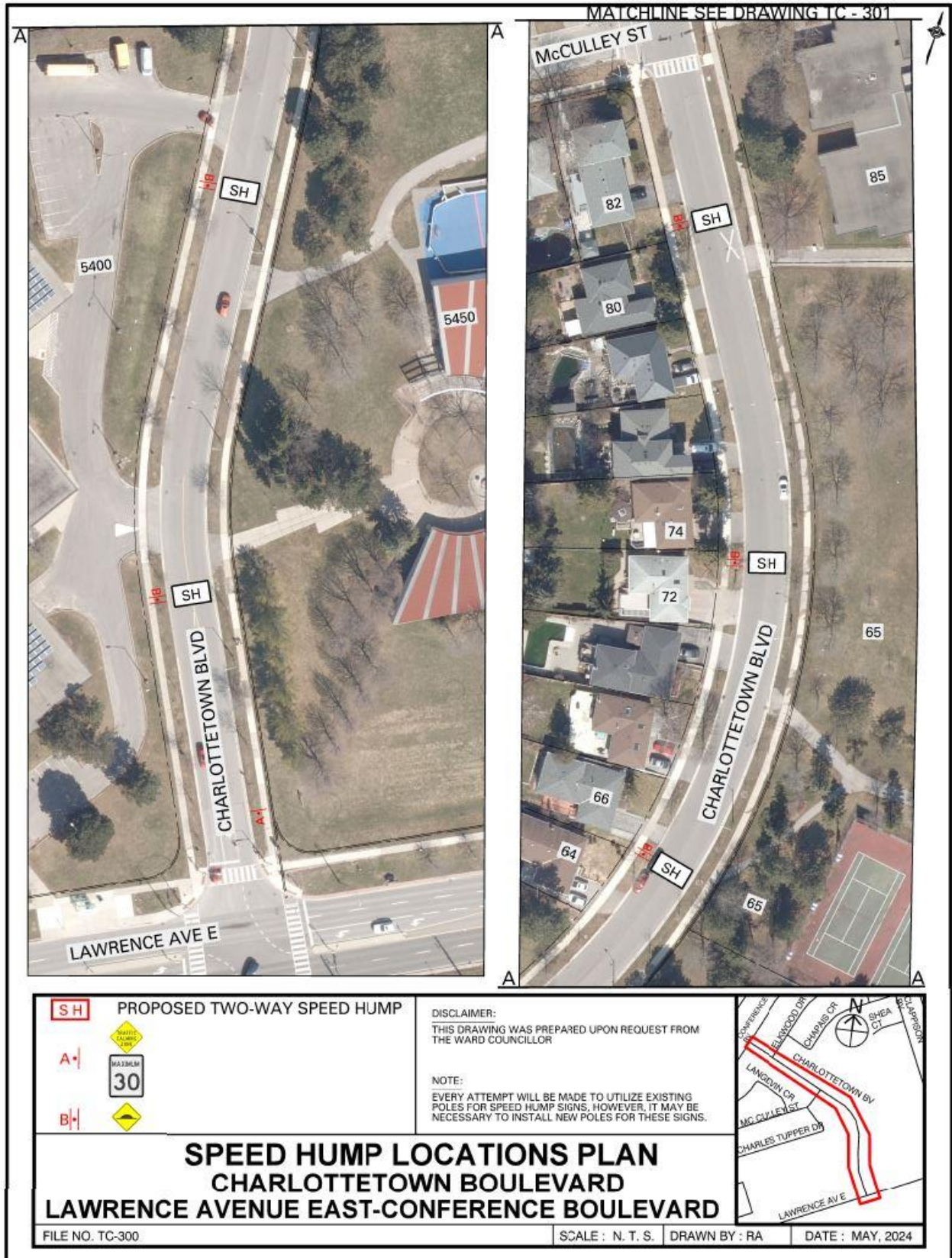
Attachment 1: Traffic Calming Warrant - Charlottetown Boulevard, between Conference Boulevard and McCulley Street

Criteria		Requirement	Warrant Satisfied?
Community Support		A direct request from the Ward Councillor OR identified by Transportation Services in consultation with the Ward Councillor	Yes
Eligibility Criteria	Road Classification	Classified as a local or collector roadway, according to the Toronto Road Classification System	Yes
	Sidewalks	Presence of a sidewalk on at least one side of a local roadway and both sides of a collector roadway is preferred but not required	Yes
	Traffic Volume	Maximum average daily traffic volume of less than 8,000 vehicles per day	Yes
	Road Grade	Maximum roadway grade of up to 5%, can be considered in locations where the road grade is between 5% and 8% with additional review	Yes
	Emergency Services	No significant impacts on emergency services, including Toronto Fire, Paramedic and Police Services	No
	Transit Services	No significant impacts to regularly scheduled Toronto Transit Commission (TTC) services	N/A
Warrant Criteria	Minimum Block Length	Minimum block length of 120 metres based on the measured distance from centre to centre of controlled intersections AND	Yes (270 m)
	85th percentile speed	Minimum 85th percentile speed of 8 km/h over the warranted speed limit OR	Yes (42 km/h)
	95th percentile speed	Minimum 95th percentile speed of 15 km/h over the warranted speed limit	Yes (47 km/h)

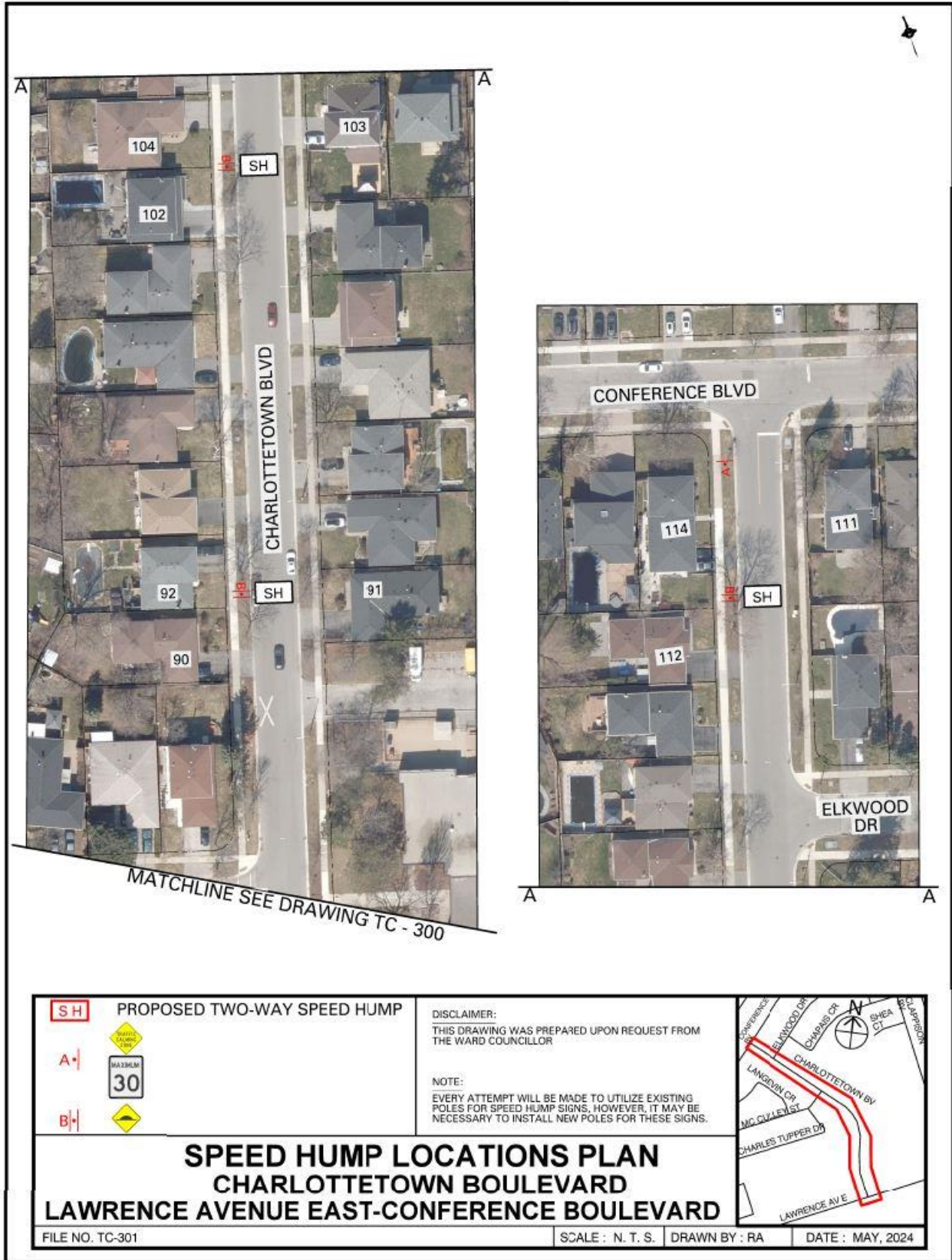
Attachment 2: Traffic Calming Warrant - Charlottetown Boulevard, McCulley Street and Lawrence Avenue East

Criteria		Requirement	Warrant Satisfied?
Community Support		A direct request from the Ward Councillor OR identified by Transportation Services in consultation with the Ward Councillor	Yes
Eligibility Criteria	Road Classification	Classified as a local or collector roadway, according to the Toronto Road Classification System	Yes
	Sidewalks	Presence of a sidewalk on at least one side of a local roadway and both sides of a collector roadway is preferred but not required	Yes
	Traffic Volume	Maximum average daily traffic volume of less than 8,000 vehicles per day	Yes
	Road Grade	Maximum roadway grade of up to 5%, can be considered in locations where the road grade is between 5% and 8% with additional review	Yes
	Emergency Services	No significant impacts on emergency services, including Toronto Fire, Paramedic and Police Services	No
	Transit Services	No significant impacts to regularly scheduled Toronto Transit Commission (TTC) services	N/A
Warrant Criteria	Minimum Block Length	Minimum block length of 120 metres based on the measured distance from centre to centre of controlled intersections AND	Yes (400 m)
	85th percentile speed	Minimum 85th percentile speed of 8 km/h over the warranted speed limit OR	Yes (43 km/h)
	95th percentile speed	Minimum 95th percentile speed of 15 km/h over the warranted speed limit	Yes (48 km/h)

Attachment 3: Speed Hump Locations Plan - Charlottetown Boulevard, Lawrence Avenue East - Conference Boulevard, TC-300 (Matchline, see drawing TC-301)



Attachment 4: Speed Hump Locations Plan - Charlottetown Boulevard, Lawrence Avenue East - Conference Boulevard, TC-301



Attachment 5: Letter from Toronto Fire Services, dated February 20, 2024



Matthew Pegg
Fire Chief and General Manager

Paul Raftis
Deputy City Manager
Community & Social Services
|

Fire Services
4330 Dufferin Street
Toronto, Ontario M3H 5R9

Email: OfficeoftheFireChief@toronto.ca

February 20th, 2024

Omar Omar
Engineering Technologist Tech 1
Transportation Services
City of Toronto

RE: Charlottetown Blvd (Between Lawrence Avenue East and Conference Blvd.) Speed Hump Investigative Summary

We are in receipt of and have reviewed the proposal for installation of traffic calming measures (speed humps) on **Charlottetown Blvd (Between Lawrence Avenue East and Conference Blvd.)** and provide the following comments.

Toronto Fire Services does not support this proposed speed hump installation as it may negatively impact service delivery. The physical restrictions imposed by speed humps have a greater impact on fire vehicles. Response time increases with every obstacle encountered responding to any emergency incident and the cumulative impact of several speed humps can increase responses times.

Toronto Fire Services is supportive of initiatives that improve safety for all citizens of and visitors to the City of Toronto. However, careful consideration must be given to accepting a delay to emergency response vehicles as a compromise to combat the risks presented by all vehicular traffic. Our recommendation is that non-physical measures be considered and evaluated to determine if desired results can be obtained without imposing a physical obstacle to emergency vehicles.

Regards,

Joseph Del Vasto
District Chief
Emergency Planning
Toronto Fire Services
(416) 338-9136



Attachment 6: Letter from Toronto Paramedic Services, dated April 3, 2024

RE: Speed humps - Charlottetown Blvd from Conference Blvd to Lawrence Ave E



Atif Sharif
To Omar Omar

 You replied to this message on 03/04/2024 10:38 AM.

Good morning Omar,

No concerns with the installation of speed humps on Charlottetown Blvd.

Thank you,

Atif Sharif
A/Commander - Policy, Projects & Process Improvement
Office of the Chief
Toronto Paramedic Services
Tel: 416-397-7493

