

## **Traffic Calming (Speed Humps) – Bain Avenue**

Date: March 23, 2023

To: Toronto and East York Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 14, Toronto-Danforth

### **SUMMARY**

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

Transportation Services has reviewed the need for traffic calming (speed humps) on Bain Avenue, between Broadview Avenue and Ingham Avenue. The assessment indicates the warrant criteria as set out in the City of Toronto's Traffic Calming Policy has not been satisfied. Therefore, staff do not recommend the installation of speed humps on Bain Avenue.

### **RECOMMENDATIONS**

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The Director, Traffic Management, Transportation Services recommends that:

1. Toronto and East York Community Council not authorize the installation of traffic calming (speed humps) on Bain Avenue, between Broadview Avenue and Ingham Avenue.

### **FINANCIAL IMPACT**

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There are no financial impacts resulting from the adoption of the recommendation in this report.

If Toronto and East York Community Council amends the recommendation in this report and approves the installation of speed humps on Bain Avenue, the estimated cost of installing four speed humps is \$16,000.00. Funding would be subject to availability and competing priorities within the Transportation Services 2023 Capital Budget.

## **DECISION HISTORY**

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This report addresses a new initiative.

## **COMMENTS**

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Transportation Services received a petition from the Ward Councillor, on behalf of area residents, to investigate the feasibility of installing physical traffic calming measures on Bain Avenue, between Broadview Avenue and Ingham Avenue, to address concerns with speeding vehicles.

### **Existing Conditions**

Bain Avenue is characterized by the following conditions:

- It is a single-lane, east/west, local roadway
- It operates one-way eastbound traffic on a pavement width of approximately 7.4 metres
- The daily one-way traffic volume is approximately 860 vehicles
- The speed limit is 30 km/h
- Heavy trucks are prohibited at all times
- 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 single-family residential dwellings. Bain Avenue, between Broadview Avenue and Ingham Avenue, is designated as a Community Safety Zone. Withrow Avenue Junior Public School and Holy Eucharist Ukrainian Catholic Church are located on this section of Bain Avenue.

A map of the proposed locations of the requested speed humps is included in Attachment 2.

### **Study Results**

In order for speed humps to be recommended on a street, the criteria as set out in the City of Toronto's Traffic Calming Policy must be satisfied. The warrant criteria includes factors such as vehicle speed and volume, road widths, pedestrian facilities and gradient. Details of the warrant criteria are included in Attachment 1.

A three-day mid-block speed and volume study was conducted on Bain Avenue during a mid-week period from October 25 to October 27, 2022. Data was gathered mid-block on Bain Avenue, between Broadview Avenue and Ingham Avenue.

Based on the study results, the overall warrant for traffic calming was not met for the following reasons:

- **Minimum Volume:** The average daily traffic volume of 864 vehicles for the subject segment of Bain Avenue, is less than the required minimum of 1,000 vehicles per day needed to satisfy the traffic calming installation criteria.
- **Minimum Speed:** The operating speed, which is the speed at which 85 percent of traffic is travelling at or below, was observed at 29 km/h. In order for speed humps to be technically warranted the operating speed must be a minimum of 10 km/h over the warranted speed limit. The operating speed of 29 km/h is 11 km/h less than the warranted speed of 40 km/h and less than the required 10 km/h minimum.

As required by the Traffic Calming Policy, staff evaluated the speeds of vehicles against the warranted speed of 40 km/h and not the posted speed of 30 km/h.

The overall investigation concluded that the warrant criteria as outlined in the Traffic Calming Policy has not been satisfied. Therefore, staff do not recommend the installation of speed humps on Bain Avenue, between Broadview Avenue and Ingham Avenue.

### **Alternate Recommendations**

If, despite the findings above, Toronto and East York Community Council decides to proceed with installing speed humps on Bain Avenue, between Broadview Avenue and Ingham Avenue, it may approve the following:

"That the Toronto and East York Community Council:

1. Direct the Director of Traffic Management, Transportation Services, request the City Clerk to poll eligible householders on Bain Avenue, between Broadview Avenue and Ingham Avenue, to determine whether residents support the installation of traffic calming, in accordance with the City of Toronto Traffic Calming Policy.
2. Subject to favourable results of the poll:
  - a. authorize the installation of traffic calming (speed humps) on Bain Avenue, between Broadview Avenue and Ingham Avenue.
  - b. direct the City Solicitor to prepare a by-law to alter sections of the roadway to install four speed humps on Bain Avenue, between Broadview Avenue and Ingham Avenue, for traffic calming purposes, generally as shown on Attachment 2, Drawing TC-131, dated March 2023 and attached to the report entitled "Traffic Calming (Speed Humps) - Bain Avenue", dated March 23, 2023 from the Director, Traffic Management, Transportation Services."

The estimated cost for installing four speed humps on Bain Avenue is \$16,000.00. The installation of speed humps on Bain Avenue would be subject to availability in Transportation Services 2023 Capital Budget and competing priorities.

## **Polling Requirement**

The City of Toronto Traffic Calming Policy requires that the City Clerk (Polling Registry Services) formally poll property owners/occupants who are directly affected by the installation of traffic calming measures.

Under the policy, the poll will be considered in favour of traffic calming if it satisfies the following requirements:

- A response rate of 50 percent plus one
- A response rate of 25 percent if the subject street is within a Community Safety Zone or a School Speed Zone
- A support rate of at least 60 percent of the valid responses

Subject to approval by Community Council of the alternate recommendations in this report, the City Clerk will poll property owners/occupants. Should the results support installing traffic calming measures on Bain Avenue, between Broadview Avenue and Ingham Avenue, Transportation Services staff will schedule installation based on relative need and competing priorities.

## **Relative Priority and Other Impacts**

Relative need and priority of speed humps installation is based on a technical assessment of traffic volume, vehicle speed percentages, speed-related collisions, and the presence of schools, parks, seniors' residences or bicycle routes. Bain Avenue, between Broadview Avenue and Ingham Avenue, scored 19 ranking points out of a possible 100.

No alterations to parking regulations would be required, nor would 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. However, installing speed humps will result in slower operating speeds for all vehicles, including emergency service vehicles.

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. Comments have not been received back at the time of writing this report from Toronto Police Service, Toronto Paramedic Services or Toronto Fire Services.

The Ward Councillor has been advised of the recommendation of this staff report.

## **CONTACT**

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

## **SIGNATURE**

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

## **ATTACHMENTS**

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Attachment 1: Traffic Calming Warrant Criteria – Bain Avenue

Attachment 2: Speed Hump Locations Plan: Bain Avenue, Broadview Avenue - Ingham Avenue

## Attachment 1: Traffic Calming Warrant Criteria – Bain Avenue

| Warrant Criteria            | Requirement                                                                                                                                                                                                                                                                                       | Warrant Satisfied?         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Petition                    | Petition signed by at least 25% of the households on the street and/or 10% multiple family rental dwellings<br>OR<br>A direct request from the Ward Councillor                                                                                                                                    | Yes                        |
| Impacts to Adjacent Streets | No significant traffic impacts on adjacent streets                                                                                                                                                                                                                                                | Yes                        |
| Sidewalks                   | Are there continuous sidewalks on at least one side of street (both sides for collector or higher classification)<br>OR<br>On-streets where no sidewalks exist, installation of sidewalks on at least one side must first be considered                                                           | Yes                        |
| Road Grade                  | Road grade 5% or less OR between 5% and 8% road grade may be considered. Investigation must determine installation to be safe.                                                                                                                                                                    | Yes                        |
| Emergency Response          | Emergency Services have noted that the impact of traffic calming, specifically speed humps, will not significantly affect service delivery                                                                                                                                                        | N/A<br>(Awaiting response) |
| Minimum Speed               | The 85th percentile speed must be a minimum of 10 km/h over the warranted speed limit and the traffic volume warrant must be satisfied<br>OR<br>On-streets where the 85th percentile speed exceeds the warranted speed limit by a minimum of 15 km/h, there is no minimum traffic volume required | No (29 km/h)               |
| Traffic Volumes             | Local road traffic volume must be between 1,000 and 8,000 vehicles per day<br>OR<br>Collector road traffic volume must be between 2,500 and 8,000 vehicles per day                                                                                                                                | No (864 vpd)               |
| Minimum Block Length        | On-streets where mid-block traffic calming measures are proposed, the minimum block length must exceed 120 metres                                                                                                                                                                                 | Yes                        |
| Transit Service             | Impacts on regularly scheduled Toronto Transit Commission (TTC) service, vehicles will not be significant (as determined in consultation with TTC staff)                                                                                                                                          | Yes                        |

# Attachment 2: Speed Hump Locations Plan: Bain Avenue, Broadview Avenue - Ingham Avenue

