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**TO:** GENERAL COMMITTEE

**SUBJECT:** CUMMING DRIVE TRAFFIC CALMING UPDATE

**WARD:** 6

**PREPARED BY AND KEY CONTACT:** J. MACDONALD, C.E.T.  
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**SUBMITTED BY:** D. FRIARY  
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**CHIEF ADMINISTRATIVE OFFICER APPROVAL:** M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

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### **RECOMMENDED MOTION**

1. That Staff Report RPF010-17 on the Cumming Drive Traffic Calming update be received for information purposes.

### **PURPOSE & BACKGROUND**

2. In June 2016 Council adopted motion 16-G-136 which is to review the effectiveness of permanent traffic calming measures on Stapleton Place and Cumming Drive which stated:  

“That staff in the Roads, Parks, and Fleet Department record traffic information (speed, collisions, etc) at Stapleton Place and Cumming Drive prior to and after the installation of the permanent traffic calming measures and report back to General Committee with the results in Fall 2017, to review the effectiveness of the permanent traffic calming measures.”
3. In the summer of 2016, the City of Barrie implemented permanent traffic calming measures on Cumming Drive. The measures that were implemented were:
  - a) Raised intersection at Cumming Drive and Stapleton Place; and
  - b) Curb bump outs on Cumming Drive near Cumming Park.
4. Cumming Drive is a local roadway with a pavement width of 8.5 metres, sidewalk on the north side and a daily volume of 1,300 vehicles. Please refer to Appendix “A” for the study area.
5. Cumming Park is located on the north side of Cumming Drive at the intersection of Stapleton Place. This park acts as a trail head for walking trails through the Ardagh Bluffs.
6. The City has received historical concerns along Cumming Drive regarding speeding vehicles and cut through traffic. As a result staff have implemented various temporary measures as part of the temporary traffic calming project along Cumming Drive between Stapleton Place and Bloom Crescent since 2011 which include temporary speed cushions, and temporary curb bump outs.

**ANALYSIS**

7. Staff conducted before and after speed studies along Cumming Drive between Stapleton Place and Bloom Crescent to compare the 85<sup>th</sup> percentile speed of the roadway to evaluate the effectiveness of the permanent traffic calming measures. The 85<sup>th</sup> percentile speed is the speed at which 85% of vehicles travel at or below. These studies were conducted during a typical weekday (Tuesday, Wednesday, and Thursday) during the school year to capture consistent traffic patterns. The results of the studies are as follows:

- a) June 2015 – 59 km/h; and
- b) September 2017 – 50 km/h.

8. The reduction in the 85<sup>th</sup> percentile speed by 9 km/h aligns motorist's speeds to be in compliance with the 50km/h speed limit which improves the operation and safety of the roadway.

9. Staff have reviewed the collision history on Cumming Drive, between Stapleton Place and Bloom Crescent back to January 2005 and found seven (7) reported collisions. The summary of the collisions is as follows:

Type	Year
Vehicle pulling out of private driveway colliding with car	September 2010, January 2016
Vehicle speeding through the bend and lost control	May 2010, April 2012
Side swiped	March 2011
Vehicle turning from Cumming Drive collided with car on Stapleton Place	March 2010
Vehicle turning from Cumming Drive collided with car on Bloom Crescent	January 2005

10. Based on the results of the investigation there have been two (2) reported collisions along Cumming Drive between Stapleton Place and Bloom Crescent regarding vehicles speeding. The collision in May 2010 occurred before any temporary calming measures were implemented on Cumming Drive and the collision in April 2012 occurred prior to the 2012 temporary measures being installed.

11. There have not been any reported collisions on Cumming Drive between Stapleton Place and Bloom Crescent since the implementation of the permanent traffic calming measures.

**ENVIRONMENTAL MATTERS**

12. There are no environmental matters related to the recommendation.

**ALTERNATIVES**

13. There are no alternatives related to the recommendation.

**FINANCIAL**

14. There are no financial matters related to the recommendation.

**LINKAGE TO 2014-2018 STRATEGIC PLAN**

15. The effectiveness of the permanent traffic calming measures on Cumming Drive included in this Staff Report are related to well-planned transportation to improve roadway safety as identified in the 2014-2018 Strategic Plan.

Appendix A

