



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Transportation Operations and Maintenance Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	January 13, 2020
SUBJECT/REPORT NO:	City of Hamilton Vision Zero Action Plan 2019 - 2025 Update (PW19015(a)) (City Wide) (Outstanding Business List Item)
WARD(S) AFFECTED:	City Wide
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SUBMITTED BY: SIGNATURE:	Edward Soldo Director, Transportation Operations & Maintenance Public Works Department

RECOMMENDATIONS

- (a) That the Hamilton Police Services Board be requested to review the feasibility of implementing a dedicated City-wide Traffic Enforcement Unit;
- (b) That the Hamilton Police Services Board, Hamilton-Wentworth District School Board and Hamilton-Wentworth Catholic District School Board be requested to review the feasibility of implementing school bus enforcement cameras;
- (c) That the City of Hamilton Strategic Road Safety Committee Terms of Reference, attached as Appendix "C" to Report PW19015(a), be approved; and,
- (d) That the Vision Zero Action Plan 2019 – 2025 Update, be identified as complete and removed from the Public Works Committee Outstanding Business List.

EXECUTIVE SUMMARY

Vision Zero is a road safety philosophy based on a fundamental principle; fatalities and serious injuries on our roads are preventable, no loss of life is acceptable, and roadway authorities should strive to reduce traffic-related deaths and injuries to zero.

The transportation system should be designed to anticipate errors, so the consequences do not result in injuries or fatalities. These changes can be completed through physical roadway design and through a safe speed, safe system approach.

In 2019, City Council approved the Vision Zero Action Plan 2019-2025, during which time staff were directed to report back in six months to provide an update. The plan addresses safety for the most vulnerable users of our transportation system: pedestrians, school children, older adults and cyclists.

The City of Hamilton has made significant progress on improving roadway safety, between 2017 and 2018, the number of injury collisions have been reduced by 20% as identified in Report PW19104 - City of Hamilton Annual Collision Report (2018).

Report PW19015(a) provides an update on actions taken to date in working towards meeting the goals of the Vision Zero Action Plan.

Alternatives for Consideration – Not Applicable

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: There are no costs associated with the recommendations but a summary of costs and spending commitments for road safety and Vision Zero Initiatives are outlined under the Analysis and Rationale for Recommendations Section on Page 7.

Staffing: N/A

Legal: N/A

HISTORICAL BACKGROUND

At the February 4, 2019 Public Works Committee and subsequent City Council meeting, Council approved the Hamilton Strategic Road Safety Program and Vision Zero Action Plan 2019 – 2025 Report PW19015.

As part of this report, the following motion was approved:

- (a) Comprehensive report on Vision Zero efforts, including an outline of vehicle traffic safety improvements to date, pedestrian safety initiatives, cycling initiatives, and seniors initiatives;
- (b) A summary of estimation of cost of all 2019 traffic safety initiatives that may have been financed through the capital budget, operating budget, Ward area rating budget, or other available funding sources;

- (c) Details of neighbourhood outreach programs that have been conducted;
- (d) An analysis of evaluation, which are incorporated as part of the Vision Zero Plan; and
- (e) Identification of additional improvements that could be made, including Capital, operating and funding implications.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

N/A

RELEVANT CONSULTATION

The following City of Hamilton Departments/Divisions have been consulted in the development of this report:

- City Clerks;
- Corporate Services, Finance & Administration;
- Corporate Services, Risk Management;
- Hamilton Police Services; and
- Transportation Planning

The following external party was consulted for this report:

- Members of the Hamilton Strategic Road Safety Committee

ANALYSIS AND RATIONALE FOR RECOMMENDATIONS

The Hamilton Strategic Road Safety Program and Vision Zero Action Plan 2019 – 2025 report is a detailed comprehensive plan to work towards zero serious injury and fatalities on Hamilton roadways. The report outlines a number of priority action items under the 5 E's (Evaluation, Engineering, Enforcement, Engagement and Education).

As requested by Council, the following update to the Vision Zero Action Plan is provided, it should be noted due to the limited timeframe requested for response, many of the actions are ongoing and therefore cannot be fully reported in the context of initiative completion.

Evaluation

Annual Collision Report – The data from this report (PW19104) concludes that injury collisions have declined by 20% from 2017 to 2018. Early review of 2019 collision statistics are showing an expected further reduction in injury collisions for the year.

Traffic Safety Module – Works to implement the software are ongoing, with a focus on facilitating cross communication between digital operating programs. It is expected these works will be completed in 2020 providing staff with a fully integrated system that will enhance data analysis capabilities to identify high risk safety improvement areas.

Evaluation of Fatal Collisions – Beginning in 2019, staff began reviewing each fatal collision location within a week of the collision. In 2018, 11 fatal collisions occurred in the City of Hamilton which was a 32% reduction from 2017 (16 fatal collisions). Statistics to the end of May 2019 have shown a further reduction in fatal collisions to date compared to the same time period in 2018. Further details can be found in Report PW19104, page 41.

Engineering

Neighbourhood Speed Limit Reductions – Council has approved the implementation of speed limit reductions on local roadway within designated neighbourhoods to 40 km/h and 30 km/h in school zones. Installations have begun and the first 45 neighbourhoods across the City of Hamilton will be completed by spring 2020.

Collision Counter Measure Program – Staff have established a formal and regularly occurring road safety audit program to examine high collision and injury locations as identified in the 2017 and 2018 Annual Collision Reports. A total of eight locations have been completed to date and staff will be proceeding with implementing modifications as required. A full list of locations being reviewed is attached to Report 19015(a) as Appendix “A”.

Traffic Calming – As of September 2019, staff have completed the installation of speed cushions at 88 locations throughout the City of Hamilton, which is attached to Report PW19015(a) as Appendix “B”.

Two-way Street Conversion Review – Staff are currently completing a review of one-way to two-way conversions to determine the impact of converting roadways from a safety and collision perspective. This evaluation is expected to be completed in early 2020.

Cycling and Pedestrian Networks – In 2019, 11 roadways have been identified for the implementation of cycling infrastructure and have been completed or are ongoing. These locations are as follows:

- Locke Street – George Street to Hunter Street;
- Cannon Street – James Street to Sherman Avenue;
- Cannon Street – Sherman Avenue to Tim Hortons Field;
- Britannia Avenue – Cannon Street to Woodward Avenue;
- Rymal Road – Upper Paradise Road to West 5th Street;
- Limeridge Road – Bonaventure Drive to Hawkridge Avenue;
- Echovalley Drive – Stockbridge Gardens to Mud Street;
- Creighton Road/Market Street – Governor's Road to Hatt Street;
- Governor's Road – Davidson Boulevard to Creighton Road;
- Avonsyde Parkway – Parkside Drive to Dundas Street; and
- Parkside Drive – Hollybush Drive to Main Street

Providing dedicated cycling infrastructure and the creation of a cohesive cycling network helps achieve the goals of Vision Zero. Transportation Operations staff, in cooperation with Transportation Planning, will further evaluate the cycling network through design and collision analysis as identified in the Annual Collision Report.

Road Safety Audits - The City of Hamilton will be partnering with McMaster University to undertake collision analytics at nine intersections with a focus on pedestrian and cyclist safety. This project is expected to continue through 2019 and completed by the summer of 2020.

The City of Hamilton has partnered with Mohawk College to undertake road safety audits on rural roadways. This project is expected to begin in November of 2019 and completed by early 2020.

Complete Streets Guide

Transportation Planning in collaboration with Transportation Operations & Maintenance are undertaking the development of a Complete Streets Guide. As part of this guide, a safe system approach will be integrated into the design guidelines for different roadway classifications and cross sections. This will ensure that future roadway construction projects address the needs of all users and balance mobility needs within a Complete-Livable-Better (CLB) Streets approach as defined in the Transportation Master Plan.

Enforcement

Traffic Enforcement Unit – The Hamilton Strategic Road Safety Committee recommend the Hamilton Police Services Board be requested to review the feasibility of establishing a Traffic Enforcement Unit.

Motor Vehicle Collision Reporting – Hamilton Police Services and Public Works staff have met to discuss various issues related to motor vehicle collision reporting.

Discussions will continue to identify opportunities for enhancements to this service.

Automated Speed Enforcement (ASE) – The City of Hamilton is a member of the ASE working group and has been collaborating in partnership with other municipalities throughout Ontario to develop the ASE program. A separate report that assesses the potential implementation options of ASE for Council consideration has been developed (PW20002).

School Bus Enforcement Cameras – A number of municipalities have begun to explore school bus enforcement cameras and are considering implementing programs. Staff will be monitoring these pilot programs and discussing with staff from other municipalities to determine the feasibility of implementing a similar program in the City of Hamilton. As discussed at the Hamilton Strategic Road Safety Committee, it is recommended that this item be referred to the Hamilton Police Services Board and School Boards for consideration and that they be requested to review the feasibility of operating a program in Hamilton. The system would be implemented on school buses that are under contract to the school boards. Enforcement resourcing from Hamilton Police Services will need to be assessed.

Engagement

Membership of the Hamilton Strategic Road Safety Committee – Meetings are held on a quarterly basis and now have representation from Hamilton Police Services, Hamilton Public Health, Ministry of Transportation of Ontario, City of Hamilton Public Works Department, the Hamilton Public and Catholic School Boards, Hamilton Fire Department, Hamilton Street Railway, Chair of Seniors Advisory Committee and the Chair from the Hamilton Cycling Committee. Additional members continue to be reviewed.

City of Hamilton Strategic Road Safety Committee Terms of Reference - An update to the terms of reference has been completed and is attached to Report PW19015(a) as Appendix “C”.

Implementation of Open Data Approach and Interactive Vision Zero Website – Staff are currently working on the launch of the website and various application connectivity issues in hopes that this material will be made available in 2020.

Develop a Neighbourhood Vision Zero Tool Kit and Partnership with Environment Hamilton – Keith, Kirkendall North and Butler neighbourhoods have been assigned to Environment Hamilton to conduct comprehensive neighbourhood safety reviews. Consultation began in October and will proceed into 2020. In addition, staff are working to develop a new traffic calming policy and neighborhood review tool kit.

Societal Impacts - Hamilton Public Health is currently working on collision data related to pedestrian and cyclist collisions with a viewpoint on societal impacts. It is expected this work will continue through 2019 and completed in 2020.

Education

The City of Hamilton has developed a series of traffic safety campaigns focused on ensuring motorists, pedestrians and cyclists understand the importance of road safety which is attached to Report PW19015(a) as Appendix “D”. Emphasizing a variety of aspects of Vision Zero under the key safety umbrellas of safe speeds, safe roads, safe vehicles and safe drivers. These campaigns were targeted to specific audiences with pointed key messages for each. The campaigns included:

- Speeding (March 2019);
- Distracted Driving (April 2019);
- Pedestrian Crossovers (May 2019);
- Cycling Safety (June 2019);
- “Slow Down, Move Over” (July 2019);
- Back to School Safety (August/September 2019);
- Roundabouts (October 2019);
- Red Light Cameras (November 2019); and
- Winter Driving (December 2019).

The City of Hamilton, the Ministry of Transportation Ontario and other municipal partners, are working together to explore potential partnership with digital mapping providers to assist in raising awareness of road safety priorities.

Cost Summary

The following is a summary of costs and spending commitments for road safety and Vision Zero Initiatives:

Activity	Fund	2019 Budget	2019 Cost/Commitment
Neighbourhood Speed Reductions	Capital	\$400,000	\$125,100
Traffic Calming	Capital	\$373,300	\$269,500
Pedestrian Crossovers	Capital	\$1,000,000	\$417,100
Safety Initiatives	Operating	\$1,850,000	\$1,412,700
Speed Cushions	Area Rating		\$210,300
	Total:	\$3,623,300	\$2,434,700

ALTERNATIVES FOR CONSIDERATION

N/A

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Community Engagement and Participation

Hamilton has an open, transparent and accessible approach to City government that engages with and empowers all citizens to be involved in their community.

Healthy and Safe Communities

Hamilton is a safe and supportive City where people are active, healthy, and have a high quality of life.

Clean and Green

Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.

Built Environment and Infrastructure

Hamilton is supported by state of the art infrastructure, transportation options, buildings and public spaces that create a dynamic City.

Our People and Performance

Hamiltonians have a high level of trust and confidence in their City government.

APPENDICES AND SCHEDULES ATTACHED

Appendix “A” to Report PW19015(a) – Collision Counter Measure Program

Appendix “B” to Report PW19015(a) – 2019 Traffic Calming Locations

Appendix “C” to Report PW19015(a) – Road Safety Committee Terms of Reference

Appendix “D” to Report PW19015(a) – Public Education Campaigns