



Hamilton

**PW19022(c)
Item #8.1**

Winter Sidewalk Snow Clearing

Public Works Committee
April 19, 2021

WINTER CONTROL PROGRAM

Mission:

To ensure safe public access to municipal transportation infrastructure through planned Winter Control Program activities. Respond to winter events efficiently and effectively in order to service City inventory of:

- 6,478 lane kilometers of roadway including escarpment accesses, parkways and bridges
- 2,300 bus stops
- 397 out of the 2,445 lane kilometers of municipal sidewalk (Ancaster, municipally owned property, along reverse frontages, school frontages (charge back basis))
- \$33.7 M Operating Budget (2021)

Core Activities:

Key program activities include:

- Winter road patrol – condition monitoring
- Road anti-icing and de-icing
- Snow plowing
- Snow removal and disposal
- Sidewalk Snow Clearing
- Snow Storage Site Management



WINTER SIDEWALK SNOW CLEARING

Existing Level of Service

The City maintains Municipal roadways as per Ontario Regulation 239/02 - Minimum Maintenance Standards for Municipal Highways - made under the Municipal Act, 2001 (MMS).

The City currently provides partial snow clearing winter control for sidewalks to clear 397 km of the approximate 2,445 km of sidewalks across Hamilton. Response standard for snow clearing is within 24 hours of the end of a winter event.

By-law No. 03-296 requires that every occupant or owner shall, within 24 hours of the cessation of a winter storm event, or within 24 hours of the cessation of a series of consecutive winter storm events, remove and clear all snow and ice from sidewalks abutting the highways in front of, or alongside, or at the rear of any occupied or unoccupied lot or vacant lot.

Snow Angels Program that is coordinated through the Healthy & Safe Communities Department. This program involves the recruitment of volunteers to clear snow on sidewalks, walkways and driveway entrances left by snow plows for eligible seniors and individuals with disabilities in the Hamilton area.



WINTER SIDEWALK SNOW CLEARING

Level of Service Enhancement Options

- Scenario 1 – Base Case (existing Service) – 397 lane kilometers
- Scenario 2 – Priority 1 and 2A Roadways (includes all transit routes) – Maintaining sidewalks in the base case plus the addition of an estimated 783 km of sidewalk.
- Scenario 3 – City Wide Roadways – Maintaining all sidewalks in the city.

Scenario	Sidewalk (km)	Percent Inventory (%)	Activation Trigger	Service Level A	Previous Estimated Costs (\$ M)	Updated Estimated Costs (\$ M)	Service Level B	Updated Estimated Costs (\$M)
1	397	16.2	Snow covered	Clear and application of salt	\$1.58 (2019 Budget)	\$2.1 (2021 Budget)	Clear and application of salt	\$2.1 (2021 Budget)
2	1,180	48.2	5 cm accumulation on City sidewalks on Priority 1 and 2A roadways plus existing level of service	Snow packed condition with de-icing material application	\$3.06 - \$3.36	\$4.44	Clear and application of salt	\$4.83
3	2,445	100	5 cm accumulation on all City sidewalks	Snow packed condition with de-icing material application	\$5.11 - \$5.36	\$8.07	Clear and application of salt	\$9.07

WINTER SIDEWALK SNOW CLEARING

Next Steps

Sidewalk Clearing Program

As part of the 2021 Operating Budget deliberations – Motion - That the matter respecting the Sidewalk Snow Clearing Program Options, be referred to the Public Works Committee for further discussion.

Key Considerations

- Implementation of any enhanced level of service would require significant lead time to implement.
- Development of turn key tender (outcome based contract - contractor to provide equipment, materials, staging yards) and route development would require consulting services.
- Tender would be released to industry to bid and report back to Council in late Fall of 2021.
- Final tender costs would be incorporated into 2022 Operating Budget.
- Target time frame would be the Winter of 2022 (November). Lead time is required for contractors to obtain equipment, materials, supplies.