# Appendix B Municipal Scan 

City of Hamilton Public Works Department Transportation, Operations \& Maintenance Division

November 4, 2020

## Municipal Scan

| Municipality/Scan Category | Findings |
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| Brampton |  |
| Overview | City-cleared sidewalks include those: <br> - On roads like Main Street and Bramalea Road (arterial roads) <br> - In front of City parks and recreation facilities <br> - Curb-faced (example: no grass boulevard) <br> - Behind a property (reverse frontage) <br> - On a road with Brampton Transit/Züm bus stop locations with permanent transit service |
| Amount to Initiate Plowing | N/A |
| Completion Time | N/A |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | - The City provides a Snow Removal Financial Assistance Program to assist senior citizens and physically challenged homeowners with costs incurred from hiring a contractor to remove snow from their sidewalks and driveways |
| Comments | N/A |
| Links | https://www.brampton.ca//en/residents/Roads/snow-removal/Pages/snow-removal-faqs.aspx |
| Burlington |  |
| Overview | - Provides snow removal services throughout the City <br> - Maintain 850 km of sidewalks |
| Amount to Initiate Plowing | Begins after snow accumulates in excess of 5 cm |
| Completion Time | - After roads are cleared <br> - Generally, within 48 hours after the snow has stopped falling <br> - Sidewalks on primary and secondary roads are plowed first, followed by residential |
| Finish Surface Condition | Plowed to a snow packed service level |
| Seniors/ People with Disabilities | N/A |
| Comments | Windrow clearing program for persons with disabilities (for snow left at the bottom of driveways by roadway plows) |
| Links | https://www.burlington.ca/en/services-for-you/snow-removal.asp |
| Calgary |  |
| Overview | - The City is required to clear sidewalks bordering and on City property <br> - Property owners/occupants responsible for clearing snow and ice from the sidewalks bordering their property |
| Amount to Initiate Plowing | N/A |
| Completion Time | Within 24 hours of a snowfall ending |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | N/A |


| Comments | N/A |
| :---: | :---: |
| Links | https://www.calgary.ca/CSPS/ABS/Pages/Bylaws-by-topic/SnowShovelling.aspx |
| Guelph |  |
| Overview | - Clear snow from 701 km of sidewalk, 180 crosswalks, crossings, steps, walkways, and 590 bus stops throughout the city <br> - Sidewalks are prioritized based on pedestrian traffic volume and proximity to high use facilities, such as schools, hospitals, and public buildings. |
| Amount to Initiate Plowing | - In Guelph, there are eleven zones for snow plowing and sanding, including multi-use pathways, which are prioritized into two classifications: <br> - High priority sidewalks: serviced first after 4 cm of snow accumulates. <br> - Residential sidewalks: serviced after 8 cm of snow |
| Completion Time | Within 24 hours of a snowfall ending |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | N/A |
| Comments | N/A |
| Links | https://guelph.ca/living/getting-around/snow-removal/sidewalk-snow-removal/ |
| Kitchener |  |
| Overview | Clears snow on sidewalks around City-owned facilities, walkways and parks |
| Amount to Initiate Plowing | N/A |
| Completion Time | N/A |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | Snow Angel program |
| Comments | - New winter 2019/2020 pilot projects: <br> - Snow event pilot ( 40 km by contractor) <br> - Full-service pilot ( 40 km by City staff) <br> - Proactive bylaw pilot <br> - Assisted sidewalk and windrow clearing services to eligible seniors and persons with a disability |
| Links | https://www.kitchener.ca/en/in-your-neighbourhood/snowremoval.aspx http://www.tritag.ca/static/uploads/TriTAG-Winter-sidewalkreport.pdf |
| London |  |
| Overview | - Provides a sidewalk snow removal service (arterials, collectors and residential roads?) <br> - $1,500 \mathrm{~km}$ of sidewalk |
| Amount to Initiate Plowing | Plowing starts at 8 cm accumulation |
| Completion Time | Cleared within 48 hours |


| Finish Surface Condition | Plowed to a snow packed service level |
| :---: | :---: |
| Seniors/ People with Disabilities | Snow Angels |
| Comments | Downtown merchants and/or property owners are required to clear the sidewalk front their businesses. |
| Links | http://www.london.ca/residents/Roads-Transportation/RoadMaintenance/Pages/WinterFAQs.aspx |
| Mississauga |  |
| Overview | - Priority sidewalks on major priority roads, bus stops, pedestrian crossings, multi-use trails <br> - The City clears about $1,600 \mathrm{~km}$ of priority sidewalks which represents approximately $55 \%$ of the total length of sidewalks in the City |
| Amount to Initiate Plowing | (a) Less than 8 cm : salting only <br> (b) 8 to 15 cm : plowing and salting <br> (c) 15 to 30 cm : plowing and salting <br> (d) 30 cm or back to back storms: plowing and salting |
| Completion Time | (a) Within 12 hours after the end of a snowfall <br> (b) Cleared within 12 hours after the end of a snowfall <br> (c) Cleared within 24 hours after the end of a snowfall <br> (d) More than 24 hours after the end of a snowfall |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | N/A |
| Comments | N/A |
| Links | http://www.mississauga.ca/portal/residents/levelsofservice |
| Montreal |  |
| Overview | N/A |
| Amount to Initiate Plowing | - Salt and gravel spreading as soon as the roads and sidewalks become slippery <br> - Plowing as soon as there is 2.5 cm on the ground <br> - Loading as soon as there is 10 to 15 cm of snow on the ground |
| Completion Time | Operations carried out continuously until the streets and sidewalks are cleared and safe |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | N/A |
| Comments | Operations carried out continuously until the streets and sidewalks are cleared and safe |
| Links | https://montreal.ca/en/topics/snow-removal-sidewalks-and-streets |


| Newmarket |  |  |  |  |
| ---: | :--- | :--- | :---: | :---: |
| Overview |  |  |  | $\begin{array}{l}\text { Newmarket Council approved a phased-in sidewalk snow- } \\ \text { clearing program that will clear 100 per cent of all sidewalks, } \\ \text { walkways and paved trails in Newmarket (pending budget } \\ \text { approval each year) }\end{array}$ |
| Sidewalks constructed after 2013 are considered growth and |  |  |  |  |
| will be added to the sidewalks snow-clearing list |  |  |  |  |
| separately. This is because most sidewalks within new |  |  |  |  |
| subdivisions have not be assumed by the Town |  |  |  |  |$\}$


| Completion Time | End of snowfall time needed to clear snow: <br> - Level 1 within 4 hours (bare surface) <br> - Level 2: within 12 hours (bare surface where directly adjacent to arterial roads) <br> - Level 3 : within 16 hours (bare surface where directly adjacent to arterial roads) |
| :---: | :---: |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | N/A |
| Comments | Some initiatives are underway to keep sidewalks clear: <br> - A pilot project that uses a "crosshatch blade" on some sidewalk-clearing vehicles to break up ice more easily <br> - More ice-breaking machines <br> - Pre-treating certain sidewalks with a calcium solution <br> - Changing the snow clearing work schedule to city crews can tackle sidewalks 24 hours a day, seven days a week <br> - Two reviews of its snow clearing practices and standards |
| Links | Initiatives <br> - https://ottawacitizen.com/news/local-news/city-to-make-clearing-sidewalks-a-priority-this-winter <br> Maintenance Quality Standards <br> - https://app06.ottawa.ca/calendar/ottawa/citycouncil/ttc/2003 (05-21/Annex\%20B(TUP-SOP-0004)\%20- <br> \%20Roads\%20and\%20Sidewalks.htm <br> Overview <br> - https://ottawa.ca/en/parking-roads-and-travel/road-and-sidewalk-maintenance/winter-maintenance |
| St. Catharines |  |
| Overview | Private property owners are responsible for clearing the full width of sidewalks in front of, beside of and/or at the rear of their property. |
| Amount to Initiate Plowing | N/A |
| Completion Time | Bare concrete within 24 hours |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | The City offers snow removal services for qualified seniors and individuals with physical disabilities to assist with the removal of snow/ice from City sidewalks. |
| Comments | N/A |
| Links | https://www.stcatharines.ca/en/livein/Snow-RemovalSidewalks.asp |


| Toronto |  |
| :---: | :---: |
| Overview | - Sidewalk plows clear about 6,400 km of Toronto's $7,900 \mathrm{~km}$ of sidewalk <br> - In older parts of Toronto, narrow sidewalks, obstructions and obstacles prevent plows from working safely <br> - Approximately $1,400 \mathrm{~km}$ ( $17.7 \%$ ), are not mechanically cleared of snow and ice by the City |
| Amount to Initiate Plowing | - Plowing starts at 2 cm accumulation on high volume sidewalks i.e. arterials, bus routes <br> - 8 cm on low volume sidewalks |
| Completion Time | - Approximately 13 hours to clear high and low pedestrian volume sidewalks after a snowfall <br> - The service can take up to 72 hours after the snow has stopped |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | The City offers a sidewalk clearing service for seniors and people with a disability who live in any area where sidewalks cannot be plowed. |
| Comments | The City is conducting a trial program on 250 km of sidewalks that aren't being cleared right now, using new technology and smaller plows, to test the feasibility and effectiveness of using new equipment to clear narrower sidewalks. |
| Links | https://www.toronto.ca/services-payments/streets-parking-transportation/road-maintenance/winter-maintenance/clearing-snow-and-ice-from-your-property/ |
| Windsor |  |
| Overview | - Owners and tenants are required to remove snow or ice in front of their property within 12 hours <br> - Owners or tenants of commercial properties have 4 hours following the snowfall or formation of ice <br> - The abutting property owner is responsible to clean the wheelchair ramp up to the edge of the pavement <br> - Presently there is no formal policy to clear bus stops, in snowfall events in excess of 15 cm accumulation, Transit Windsor priority $1 \& 2$ bus stops will be cleared |
| Amount to Initiate Plowing | N/A |
| Completion Time | N/A |
| Finish Surface Condition | N/A |
| Seniors/ People with Disabilities | The City coordinates a Snow Angels program for seniors and persons with disabilities. |
| Comments | N/A |
| Links | https://www.citywindsor.ca/residents/maintenanceandfieldservice s/Snow-Removal/Pages/Snow-Removal.aspx |


| St. John's* |  |
| :---: | :---: |
| Overview | - Sidewalk snow clearing begins at 4 a.m. each morning <br> - School areas are completed first then staff move to the priority 1 sidewalks <br> - The City has designated 161 km of sidewalk to be cleared on a regular basis during the winter season |
| Amount to Initiate Plowing | Plowing initiated at 3 cm |
| Completion Time | Clearing time estimated at 4-7 days |
| Finish Surface Condition | Bare |
| Seniors/ People with Disabilities | N/A |
| Comments | N/A |
| Links | http://www.stjohns.ca/living-st-johns/city-services/snow-clearing/service-and-priority |
| Quebec City* |  |
| Overview | N/A |
| Amount to Initiate Plowing | - High traffic and gradients $>8 \%: 5 \mathrm{~cm}$ <br> - School zones, gradients $>5 \%$, or presence of either old age home, blind individual, or person with reduced mobility: 5 cm <br> - Other: 5 cm |
| Completion Time | Total snowfall dependent: <br> - Class 1 and 2 sidewalks must be done on a priority basis |
| Finish Surface Condition | - High traffic and gradients $>8 \%$ : Bare <br> - School zones, gradients $>5 \%$, or presence of either old age home, blind individual, or person with reduced mobility: Bare or with sand/salt for traction <br> - Other: Abrasives for traction and salt on iced surfaces as |
| Seniors/ People with Disabilities | N/A |
| Comments | N/A |
| Links | N/A |
| Winnipeg* |  |
| Overview | N/A |
| Amount to Initiate Plowing | Plowing shall commence when an inspection, following a 5 cm snowfall accumulation or equivalent local drifting conditions, indicates a necessity for a clearing operation <br> - Priority 3 streets: 8 cm <br> - Near Senior Citizen Complexes: 5 cm |
| Completion Time | - The snow clearing operations shall be completed within thirtysix hours following the end of an average storm <br> - Priority 3 streets: within 5 working days (sidewalks in the immediate vicinity of elementary schools shall be prioritized) <br> - Near Senior Citizen Complexes: within thirty-six hours |


| Finish Surface Condition | $\bullet$ | Sidewalks on Priority 1 and 2 streets shall normally be <br> maintained to a compacted snow surface |
| ---: | :--- | :--- |
|  | $\bullet$Sidewalks on Priority 1 and 2 streets within the downtown shall <br> generally be plowed to a paved surface whenever conditions <br> allow |  |
|  | $\bullet$ | Priority 3: compacted snow surface |


| Regina |  | Overview |
| ---: | :--- | :--- |
|  | $\begin{array}{l}\text { Snow and ice on residential sidewalks is the responsibility of } \\ \text { the property owner/resident. } \\ \text { All properties in Regina's downtown must clear ice and snow } \\ \text { from the sidewalk adjacent to their property with } 24 \text { hours of a } \\ \text { storm }\end{array}$ |  |
| Businesses, apartments and vacant lots outside of downtown |  |  |$]$

*Information taken from KPMG Study - Winter Maintenance Leading Practice Survey

