

City of Niagara Falls Winter Maintenance Policy Plan



1. City of Niagara Falls Mission Statement

The Corporation of the City of Niagara Falls is dedicated to providing accountable and quality services that promote a safe, prosperous, and attractive community in which to live, work, play, and visit.

2. City of Niagara Falls Winter Maintenance - Purpose Statement

The City of Niagara Falls will provide safe, reliable, efficient, and environmentally responsible winter maintenance service within the City of Niagara Falls in accordance with its approved level of service policies and accepted standards.

3. Winter Maintenance Plan - Objective & Scope

Objective

The objective of this Winter Maintenance Plan is to define level of service to be maintained and procedures to be followed, to reduce the hazards resulting from winter snow and ice, in order to maintain the City's roadways and sidewalks in a safe condition.

Winter maintenance standards establish levels of service for snow and ice control across the City, for various classes and priorities of roadways and sidewalks, to ensure the safe and efficient movement of people, goods and services, throughout the community. These levels of service recognize the difference in traffic conditions and associated required risk management, on the various classes of roadways and sidewalks. Additionally, the standards indicate that levels of service may not be met until after the cessation of a winter storm or snowfall event.

The winter maintenance procedures included in this document dictate the actions to be taken in order to maintain the above noted standards. The procedures, in connection with the standards recognize that winter control measures cannot be carried out on all roadways and sidewalks at the same time, and due to the associated required risk management, must follow the priorities as defined by the priority classifications of the roadways and sidewalks.

The City cannot be expected to totally negate the impacts of winter storms, but by following the Winter Maintenance Plan, the City can minimize the negative impacts of winter storms through a well-managed consistent approach.

Scope

This plan applies to public streets under the jurisdiction of the City of Niagara Falls. The City maintains over 1,170 lane kilometres of roadway.

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4. Roadway Classifications

On November 1, 2002, Ontario Regulation 239/02 came into effect. This Provincial regulation sets out “Minimum Maintenance Standards for Municipal Highways”. The regulation includes minimum maintenance standards for “snow accumulation” and “icy roads”, both winter maintenance concerns. On May 3, 2018 Ontario Regulation 239/02 amendment came into effect.

The levels of service for the minimum maintenance standards vary according to the classification of the road, street, or highway. The standards classify roads, streets, or highways based on Average Annual Daily Traffic (AADT) and on the posted or statutory Speed Limit in six (6) roadway classifications. The Maintenance Standard’s for Municipal Highways is attached in **Appendix A**.

In January 2019, City Council adopted these maintenance standards as prescribed in Ontario Regulation 239/02.

The City of Niagara Falls roadway classifications and corresponding levels of service for clearing “snow accumulation” and treating “icy roads” as presented in this 2018/2019 Winter Maintenance Plan, meet or exceed the Maintenance Standards, as set out in the Provincial regulation.

A map entitled, “City of Niagara Falls” - Priority Roadways”, identifying roadway classes is attached as **Appendix B**. The City does not have any Class 1 roadways within its jurisdiction, therefore the following classifications apply:

Class	Description
2	Arterial and Collector roads with Average Daily Traffic (ADT) greater than 23,000 , Business Improvement Areas and Major Rural roads
3	Collector roads and Transit roads with Average Daily Traffic (ADT) greater than 15,000
4	Local Residential, Commercial, and Minor Hard Surfaced Rural roads with Average Daily Traffic (ADT) between 6,000 and 7,999
5	Local Residential Roads with Average Daily Traffic (ADT) between 500 and 2,999
6	Local Residential Roads with Average Daily Traffic (ADT) between 0 - 499

Roadways for which the Regional Municipality of Niagara is responsible for winter maintenance areas shown in **Appendix C**.

5. Level of Service for Roadways

The following table summarizes the level of winter maintenance service that the City of Niagara Falls will provide:

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Class Winter Hazard Description – Appendix D

For Class 2 & 3 roadways, treating and plowing of roads commences as soon as snow begins to accumulate:

- 2 Snow Accumulation** The objective is essentially bare pavement, to be reached as soon as possible, after a storm has ended, and normally within six (6) hours.
- 2 Ice Formation on Roadways** To monitor the weather and if there is a substantial probability of ice forming on a roadway, treat the roadway, if practicable, to prevent ice formation within eight (8) hours. Starting from the time that the municipality determines is the appropriate time to deploy resources for that purpose.
- 2 Icy Road** The objective is to treat the icy roadway as soon as possible after becoming aware that the road is icy, and normally within four (4) hours.
- 3 Snow Accumulation** The objective is essentially centre bare pavement, to be reached, as soon as possible, after a storm has ended, and normally within twelve (12) hours.
- 3 Ice Formation on Roadways** To monitor the weather and if there is a substantial probability of ice forming on a roadway, treat the roadway, if practicable, to prevent ice formation within sixteen (16) hours. Starting from the time that the municipality determines is the appropriate time to deploy resources for that purpose.
- 3 Icy Road** The objective is to treat the icy roadway as soon as possible after becoming aware that the road is icy, and normally within eight (8) hours.

Once 8 cm of snow has accumulated:

- 4 Snow Accumulation** The objective is essentially centre bare pavement, to be reached as soon as possible, after a storm has ended, and normally within sixteen (16) hours.
 - 4 Ice Formation on Roadways** To monitor the weather and if there is a substantial probability of ice forming on a roadway, treat the roadway, if practicable, to prevent ice formation within twenty-four (24) hours. Starting from the time that the municipality determines is the appropriate time to deploy resources for that purpose.
 - 4 Icy Road** The objective is to treat the icy roadway as soon as possible after becoming aware that the road is icy, and normally within twelve (12) hours.
 - 5 Snow Accumulation** The objective is to make the road as safe as possible, to be reached, as soon as possible, after a storm has ended and normally within twenty-four (24) hours.
 - 5 Ice Formation on Roadways** To monitor the weather and if there is a substantial probability of ice forming on a roadway, treat the roadway, if practicable, to prevent ice formation within twenty-four (24) hours. Starting from the time that the municipality determines is the appropriate time to deploy resources for that purpose.
 - 5 Icy Road** The objective is to treat the icy roadway as soon as possible after becoming aware that the road is icy, and normally within sixteen (16) hours.
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It is acknowledged that conditions may occur which temporarily prevent achieving the levels of service as detailed in this document. In such cases, the municipality may declare a ‘Significant Event’; attempts will be made to keep Class 2 and 3 roads as clear as possible by utilizing all maintenance equipment at maximum efficiency. Following the end of the weather hazard in respect of which a ‘Significant Event’ was declared by the municipality, the municipality shall;

- (a) That the Director of Municipal Works or his/her designate will declare the end of the significant weather event when the authorized person(s) determines that the municipality can provide winter maintenance services that meets the requirements of the tables outline line in sections 4 and 5 or the timeframes set out in section 16 of the regulation O.Reg.366/18, s. 5, s.7, s8; and
- (b) Treat icy roadways in accordance with section 5. O.Reg.366/18, s.8

Winter operations will continue until the prescribed level of service is achieved where conditions permit. Should conditions not permit accomplishment of the prescribed level of service, operations shall continue as required to maintain as good a driving service as possible.

5 (a). Bicycle Lanes

Bicycle lane means, a portion of a roadway that has been designated by pavement markings or signage for the preferential or exclusive use of cyclists.

After becoming aware of the fact that the snow accumulation on a bicycle lane is greater than the depth set out in the Table – Snow Accumulation – Bicycle Lanes (see Appendix D), to deploy resources as soon as practicable to address the snow accumulation; and

After the snow accumulation has ended, to address the snow accumulation so as to reduce the snow to a depth less than or equal to the depth set out in the Table to this section to provide a minimum bicycle lane width of the lessor of one metre or the actual bicycle lane width.

6. Roadway Procedures

As a snow event draws near and snow begins to fall, the staff chemically treats the Class 2 & 3 roads, hills and the mist affected areas near the Falls with a salt mixture (de-icing) to prevent ice from adhering to the road. Plowing of Class 2 and 3 roads is conducted as snow accumulates. When the depth of snow has reached approximately 8 cm, plowing operations typically commence on all roadway classifications. Plowing and de-icing/sanding continue, with respect to each class of roadway, in accordance with its classification and level of service standards.

For plowing, the City is divided into routes. The **route map included in the appendices** identifies the areas to be cleared and the general priority in each area. The objective, during a storm, is to keep traffic moving in a safe and efficient manner. Therefore, depending on the storm conditions, it may be necessary to plow mainline routes several times before other roadways are plowed.

Winter control procedures will be initiated by one of the Streets Supervisors in conjunction with one of the Shift Supervisors, as weather and road conditions demand. Monitoring of weather forecasts, patrol reports and other information, as may be available, may allow preparations for winter control operations to be initiated prior to the beginning of an actual event.

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The Streets Division staff member on patrol, will notify the assigned Shift Supervisor of changing road and weather conditions. The Shift Supervisor will, as may be required, make the appropriate call outs, to initiate winter control operations.

During and upon completion of winter control roadway operations, a daily record is maintained and updated, indicating the roadway winter maintenance activities carried out. A copy of this record is attached as **Appendix E.**

Cul-de-sacs and dead-ends with a short turning radius are difficult for wing plows to manoeuvre in. Municipal Works utilizes contract services as well as staff and equipment to perform winter maintenance activities for cul-de-sacs to plow them in a timely manner. With contractors and staff plowing cul-de-sacs, both cul-de-sac and street plowing should be finished within 2-hours after the truck plows have completed the street clearing on the connecting street.

Clearing of railway crossings falls under the Road Authority. Road surfaces on the approaches shall be cleaned to ensure that vehicles are able to stop clear of the track. Snow windrows will be removed when obstructing visibility at a level crossing. De-icing or abrasive products usually used on the road surface to reduce the risk of sliding and improve braking for vehicles shall not be used directly on the track as malfunctioning of the automatic equipment may occur.

7. Spreading Sand, Salt, or Other Chemicals

Salt is applied to Class 2 & 3 roadways early in a storm event in order to prevent snow from adhering to the pavement. If plowing is required, the plow is then able to clear the pavement completely. Salting may be repeated, as necessary, until an essentially bare pavement condition is achieved. Critical areas, such as steep hills, curves, bridges, intersections and approaches to railway crossings receive top priority. They are often salted in advance of a storm event in order to further reduce the potential for problems. It is the City's goal to minimize the use of salt due to its potential effect on our environment. To this end, salt is only applied to maintain safe driving conditions. Salt is not normally used in residential areas. Instead, sand is spread to provide traction and reduce slippery conditions. In addition, salt is not used on any roads when temperatures become so low that it can no longer effectively melt ice.

8. Regulating Parking

Public knowledge of the City's by-laws with respect to parking during winter months is essential for proper implementation of the winter maintenance program. By-law 89-2000, A By-Law Regulating Parking and Traffic on City Roads, Section 205.01.11, prohibits parking on roadways, "between the hours of 2:00 a.m. and 6:00 a.m., except those vehicles which have, "an on-street overnight parking permit". **Appendix F**

9. Snow Removal

Removal of snow will take place on streets taking into consideration public safety, snow storage capability, emergency access routes, street parking requirements, vehicle and pedestrian traffic volumes, and parking lot capacity.

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Snow removal begins in the downtown and business areas. Snow removal usually commences when snow windrows reach a height of one meter. As equipment is required to windrow snow for removal purposes, this operation may require the removal of vehicles parked in contravention of the parking by-law as pickup is usually done between 12 midnight and 8 a.m. following the snow storm.

Cul-de-sacs are cleared by contractor and City loaders during regular plowing operations.

9. (a) Level of Service Crosswalks and Bus Shelters

When a winter event is deemed concluded by City of Niagara Falls – Municipal Works, resources to clear snow from bus shelters and stops are deployed to ensure public transit amenities are as safe and accessible as possible.

Transit Services designates bus shelters and stops into two designations based on level of use and requirement for snow removal. All bus shelters and stops are reviewed annually to confirm designations.

Descriptions:

- Priority Bus Stop: identified as more frequently used by City transit riders. To be plowed/sanded or de-iced as required and to be considered passable within 24 hours after the conclusion of a winter event.
- Local Bus Stop: identified as local in nature that receives regular use. To be plowed/ sanded or de-iced as required and to be considered passable within 72 hours after the conclusion of a winter event.

Appendix G

School Crossings

When a winter event is deemed concluded, resources to clear snow from designated school crossing guard locations are deployed to ensure these facilities are as safe and accessible as possible. The City of Niagara Falls – Transportation Services designates school crossing locations. All school crossing guard locations are reviewed annually to confirm designations.

Description:

School Crossings: identified as locations and/or on-road crosswalks supervised by a City designated adult crossing guard. To be plowed/ sanded or de-iced as required and to be considered passable within 24 hours after the conclusion of a winter event. **Appendix H**

10. Level of Service for Sidewalks

The City currently has 600 km of sidewalk allocated on various road classifications. Not all of the sidewalks in the City of Niagara Falls receive snow control services. The sidewalks that are kept plowed in the winter are serviced in a manner similar to street plowing according to a priority system. High priority sidewalks are along heavily travelled pedestrian routes along main and arterial streets, including school and bus routes, in front of public buildings, including the hospital, and in the business areas. School routes will be plowed 12 a.m. - 8 a.m. Sunday through Thursday attending the areas fronting the schools. A map of the sidewalk

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routes and representative sidewalk patrol is attached as **Appendix I**.

Winter Sidewalk Patrol. If determined by the municipality that the weather monitoring indicates that there is a substantial probability of snow accumulation on sidewalks in excess of 8 cm, ice formation on sidewalks or icy sidewalks, the standard for patrolling sidewalks is to patrol representative sidewalks at intervals deemed necessary by the municipality.

Once sidewalk beats are plowed, City staff will conduct a repetitive monitoring and salting of the entire sidewalk beats during the period until the next snowfall.

Sidewalks are plowed only after the snow accumulation exceeds 8 cm.

No person shall deposit snow or ice from private property on the sidewalk or the roadway of any highway. Any person found guilty of this offence is liable to a fine as prescribed in By-law #89-2000

11. Allowing for Variable Weather Conditions

During extraordinary snow and ice events, additional personnel and equipment may be utilized to supplement operations. During periods of extended continuous snowfall or freezing rain, operations may be focussed on primary transportation routes and emergency service delivery locations and may be performed on a limited scale.

Snow and ice control operations should be conducted when weather conditions do not endanger the safety of employees or equipment, and operations are effective. Factors that may delay operations include severe cold, significant winds, limited visibility and rapid accumulation of snow and/or ice.

Staff will utilize weather forecasting information to predict and pro-actively respond to winter storm events.

12. Pot Holes

Pothole means a hole in the surface of a roadway caused by any means, including wear or subsidence of the road surface or subsurface. If a pothole exceeds both the surface area and depth set in Table 1, 2, 3 of O. Reg. 239/02, s. 6 (Tables 1, 2, 3) – **Appendix I**, as the case may be, the standard is to repair the pothole within the time set out in the corresponding table, as appropriate, after becoming aware of the fact.

The surface area and depth of a pothole may be determined in accordance with the act as applicable, by a municipal employee, agent or contractor whose duties or responsibilities include road patrol, and highway maintenance. For the purpose of this section, the surface area of a pothole does not include any area that is merely depressed and not yet broken fully through the surface of the roadway. During the winter months pothole repair material will be a cold asphalt (cold patch) as a temporary measure until the hot asphalt becomes available in the spring.

13. Winter Preparations

Snow Fence

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The erection of snow fence at strategic locations is done in order to trap snow and deposit it on the ground surface before it accumulates on the street. It is erected in the Fall and removed in the Spring in locations where heavy drifting has historically occurred.

Snow Markers

Snow markers are placed in order to identify hazardous conditions or for outlining the turning radii on roads and sidewalks. They are placed and removed during the same time period as snow fence.

Salt Boxes

Salt boxes are placed in areas where traction is a potential problem, such as at steep road or street grades, or at major intersections where stop/start manoeuvres are hindered by slippery conditions.

14. Record Keeping

A detailed daily record shall be maintained identifying the times that equipment is deployed and noting when the Level of Service Objectives has been met. This information will be reviewed regularly in order to compare performance against service levels. See **Appendix E**.

15. Human Resources

The Director of Municipal Works is ultimately responsible for winter control operations within the City of Niagara Falls. The Manager of Roadways, reporting to the Director, is directly responsible for winter maintenance operations. The Streets Supervisors and Shift Supervisors have the front line management level responsibility for directing the winter control operations.

The Streets Division is comprised of Streets Division staff with four Supervisors and a Dispatcher/Timekeeper that support the operation. A separate crew of “trackless” sidewalk plow operators, clear designated City sidewalks. Mechanics in the Fleet Maintenance Division provide mechanical support.

16. Responsibilities of Residents

Providing information to the public is a vital part of winter maintenance services. Residents need to know how they can help facilitate snow clearing and what to expect in terms of a response to winter storms. Information will be advertised periodically throughout the winter control season advising residents of the City’s winter control activities and requirements. This notification will inform the public of normal winter control activities and, in effect, lists the “do’s and don’ts” that they, as responsible citizens, should be aware of in order to help the Streets staff efficiently maintain their roadways and sidewalks.

17. Managing Complaints & Requests for Service

During snow and ice control operations, numerous inquiries, complaints, and requests for service are received by the Municipal Works clerical staff. The Streets Division will take measures to keep clerical staff informed and updated regarding snow and ice removal operations, (i.e. schedules and breakdowns).

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Municipal Works clerical staff shall answer questions and concerns from citizens and record pertinent information related to the inquiry. If the caller requires action which clerical staff is unable to perform, clerical staff shall notify appropriate personnel of inquiries, complaints, and requests based on the following:

- Safety issues affecting the public or City staff shall be forwarded immediately to the Supervisor.
- Non-safety-related issues shall be forwarded to the appropriate personnel in a timely manner.
- Property damage shall be recorded and turned over to the Streets Supervisor through normal channels.

All plow beats have been determined based on criteria and availability of resources. Any requests for additional plow beats must be a decision of Council.

18. Repairing Property Damage

Winter maintenance activities may cause property damage even under the best of circumstances and care on the part of the plow operators. The major types of damage are to improvements in the road right-of-way which extends beyond the property line. The intent of this right-of-way is to provide room for snow storage, utilities, sidewalks, and other City and Public uses. The City is responsible for the repair of any plow damage to the roadway or grass boulevards.

The City will replace/repair sod damaged by its snowplow during snow removal if reported to Municipal Works by June 1st of each calendar year. Other damage within the Public right-of-way is the responsibility of the property owner including, but not limited to, trees, shrubs, bushes, landscaping materials, decorative rock, driveway aprons finished with interlocking brick or patterned concrete and lawn/landscaping irrigation systems. The City does not repair/replace sod damaged due to the application of sand, salt, or other de-icing chemicals.

19. Continuous Improvement

The City of Niagara Falls is committed to continuous improvement of all its operations. Therefore, this plan will be reviewed and updated on an annual basis.

20. Municipal Parking Lots

AREA 1			
GROUP "A"			
Municipal Lot 1 4601 Zimmerman Ave. (entrance on Park St.) <u>By Request Only</u>	Municipal Lot 2A 4601 Erie Ave. (entrance on Erie Ave.) <u>By Request Only</u>	Municipal Lot 2B 4601 Erie Ave.	Municipal Lot 3 4424 Park St.

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Municipal Lot 7 4393 Huron St. Huron @ Ontario	Municipal Lot 8 Huron St. (between Crysler Ave. and St. Clair Ave.)	Municipal Lot 9 4682 St. Lawrence Ave. @ Huron	Municipal Lot 10 4500 Park St.
Municipal Lot 17 4352 Morrison St.	Municipal Lot 19 City Hall, 4310 Queen St. (incl. extension between Erie & Morrison)		

AREA 1 cont'd.		
GROUP "C"		
King Edward Lot 4200 Queen St. (entrance on Zimmerman Ave.)	Armoury Building 5049 Victoria Ave. (entrance on Armoury St.)	Community Resources Centre 5017 (5005) Victoria Ave.
Former Police Bldg. 4343 Morrison St.		
GROUP "E"		
Niagara Falls Public Library 4848 Victoria Ave.		
GROUP "G"		
Bus Terminal Bridge St/Erie Ave. 4320 Bridge St.		

AREA 2		
GROUP "A"		
Municipal Lot 4 5616 Ellen Ave.	Municipal Lot 5 5475 College Cr. @ Palmer Av e.	Municipal Lot 12 5943 Sylvia Place Lundy's Lane Museum, Ferry St.
Municipal Lot 13 Main St. (between 5836/5824)	Municipal Lot 15 McGrail Ave. @ Spring St.	Municipal Lot 18 Kitchener St. @ Victoria Ave.
Municipal Lot 20 Palmer Ave @ Bender St.		
GROUP "C"		

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Coronation Recreation Centre 5925 Summer St. – entrance on Main St.	Coronation Rec Centre (2) lots Summer St. @ Main St.	Firehall Theatre Lot 4990 Walnut St. (By Request Only)
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AREA 3		
GROUP "B"		
Chippawa Willoughby Arena 9000 Sodom Rd.	Lions Park 4981 Drummond Rd. at Scott St. <u>By Request Only</u>	
GROUP "C"		
Willoughby Town Hall 11211 Sodom Rd. (South of Marshall Rd. <u>By Request Only</u>		
GROUP "D"		
Fire Hall #4 8696 Banting Ave.	Fire Hall #5 11208 Sodom Rd.	Fire Hall #6 8061 Schisler Rd.
GROUP "E"		
Chippawa Public Library 3763 Main St. Entrance on Laura Secord Pl.		

AREA 4		
GROUP "F"		
MacBain Community Centre 7150 Montrose Rd. McLeod Rd. @ Montrose Ave.		
GROUP "G"		
WEGO Building 8208 Heartland Forest Rd.		

AREA 5		
GROUP "F"		
Gale Centre 4171 Fourth Ave.		

Plowing, Snow Piling and Snow Hauling Specifications

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Plowing

1. a. Plowing/Salting/Sanding in all lots will be carried out automatically when snowfall has accumulated to a depth of 2" (5.08 cm.) or more.

The following locations will only be cleared upon **request only** by the area supervisor:

AREA 1 – GROUP “A” – MUNICIPAL LOT 1
AREA 1 – GROUP “A” - MUNICIPAL LOT 2A
AREA 2 – GROUP “A” - FIREHALL THEATRE LOT
AREA 3 – GROUP “B” - LIONS PARK LOT
AREA 3 – GROUP “C” - WILLOUGHBY TOWN HALL LOT

Salting/sanding is to be completed during the same plowing operation event once the snow has been cleared and not a secondary separate event for salt or sand at a later time.

- b. It is the responsibility of the contractor to commence plowing/salting/sanding operations within 1 hour after accumulated snow of 2” or, at the request by the designated Group Administrator, plowing and/or salting/sanding, entrance clearing or snow hauling, as required, at any one or several lots. ***Salting/sanding is to be completed during the same plowing event once the snow has been cleared, and not a return call for salting/sanding. Sufficient equipment must be provided by the Contractor to ensure commencement of work within one (1) hour.***
- c. It is the responsibility of the contractor to commence plowing/salting/sanding operations for any or all areas which must be completed within a 4 hour period. **Sufficient equipment must be provided by the Contractor to ensure completion of work within four (4) hours.**
- d. The following properties are to be plowed to the specific time frames and completed before the standard hours of operations listed below:

AREAS 1, 2 & 3

Snow plowing/salting/sanding operations shall be completed prior to standard lot use by the public at 8:00 a.m. seven days a week. Additional lane clearing may be requested by the designated Group Administrator.

AREA 4

- a) The MacBain Community Centre shall be plowed, salted and sanded before opening and after closing.

Hours of operation: Monday - Friday 6:00 a.m. - 10:30 p.m.
Saturdays 6:30 a.m. - 8:00 p.m.
Sundays & Holidays 7:00 a.m. - 6:00 p.m.

- b) The WEGO transit building shall be plowed, salted and sanded before opening and after closing.

Hours of operation: Monday - Sunday 5:00 a.m. – 2:30 a.m.

The contractor must ensure that all Accessible parking spaces are fully cleared.

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Clearing must commence from the front entrance of the building and work towards the parameters at all times.

AREA 5

- b) The Gale Centre shall be plowed, salted and sanded before opening and after closing.

Hours of operation: Monday - Friday 7:00 a.m. - 12:00 a.m.
Saturdays 7:00 a.m - 12:00 a.m.
Sundays & Holidays 7:00 a.m. - 12:00 a.m.

- f. The Director of Transportation Services or his designate has the right to alter the above referenced plowing/salting/sanding schedules if necessary, upon advising the Contractor.

Snow Piling & Hauling

Be advised that the Corporation of the City of Niagara Falls may perform its own snow hauling services when needed; it shall not be the sole function of the contractor for this service.

Appendix A

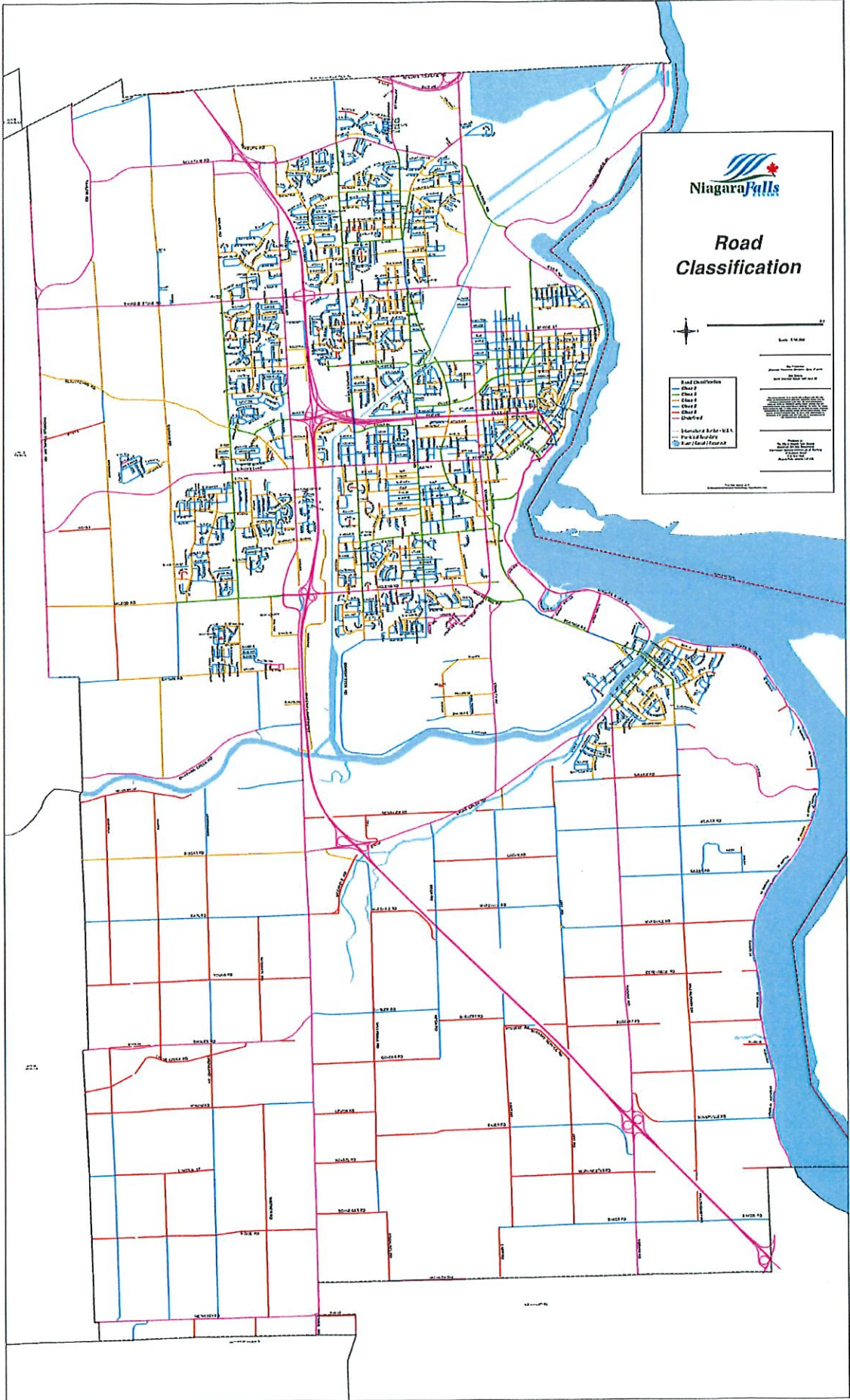
Classification Table revisions

Column 1 Average Daily Traffic (number of motor vehicles)	Column 2 91 - 100 km/h speed limit	Column 3 81 - 90 km/h speed limit	Column 4 71 - 80 km/h speed limit	Column 5 61 - 70 km/h speed limit	Column 6 51 - 60 km/h speed limit	Column 7 41 - 50 km/h speed limit	Column 8 1 - 40 km/h speed limit
53,000 or more	1	1	1	1	1	1	1
23,000 - 52,999	1	1	1	1	2	2	2
15,000 - 22,999	1	1	2	2	2	3	3
12,000 - 14,999	1	1	2	2	2	3	3
10,000 - 11,999	1	1	2	2	3	3	3
8,000 - 9,999	1	1	2	2	3	3	3
6,000 - 7,999	1	2	2	2	3	4	4
5,000 - 5,999	1	2	2	2	3	4	4
4,000 - 4,999	1	2	2	3	3	4	4
3,000 - 3,999	1	2	2	3	3	4	4
2,000 - 2,999	1	2	2	3	3	4	5
1,000 - 1,999	1	3	3	3	3	4	5
500 - 999	1	3	3	4	4	4	5
200 - 499	1	3	3	4	4	5	6
50 - 199	1	3	3	4	5	5	6
0 - 49	1	3	3	6	6	6	6

Classifications that have been changed

New Classifications

Appendix B



Appendix C



TOWN OF NIAGARA-ON-THE-LAICE

Regional Roads

0 500 m

LEGEND

- Regional Roads
- Rail
- Hydro

CITY OF THOROLD

CITY OF WELLSAND

International Border

TOWN OF FORT ERIE

CITY OF FORT COLBORNE

Appendix D

**MUNICIPAL ACT, 2001
ONTARIO REGULATION 239/02
MAINTENANCE STANDARDS FOR MUNICIPAL HIGHWAYS**

**TABLE
SNOW ACCUMULATION - ROADWAYS**

Class of Highway	Depth	Time
1	2.5 cm	4 hours
2	5 cm	6 hours
3	8 cm	12 hours
4	8 cm	16 hours
5	10 cm	24 hours

O.Reg.47/13,s.4; O.Reg.366/18, s.5 (5)

**TABLE
SNOW ACCUMULATION - BICYCLE LANES**

Class of Highway	Depth	Time
1	2.5 cm	8 hours
2	5 cm	12 hours
3	8 cm	24 hours
4	8 cm	24 hours
5	10 cm	24 hours

O.Reg. 366/18, s.7.

**TABLE 1
ICE FORMATION PREVENTION**

Class of Highway	Depth	Time
1	2.5 cm	6 hours
2	5 cm	8 hours
3	8 cm	16 hours
4	8 cm	24 hours
5	10 cm	24 hours

O.Reg. 366/18, s.8.

**TABLE 2
TREATMENT OF ICY ROADWAYS**

Class of Highway	Depth	Time
1	2.5 cm	3 hours
2	5 cm	4 hours
3	8 cm	8 hours
4	8 cm	12 hours
5	10 cm	16 hours

O.Reg. 366/18, s.8.

Appendix E

PLOW BEAT # 104

START PLOWING AT:

- Valley Way west of Stanley Avenue to Portage Road and continue south

PROBLEM SPOTS ARE:

- Parked cars on Spring Street from Portage Road to Temperance Street
- Summer Street from Banker Avenue to Main Street - spread snow evenly to both sides (Note: Address is 5853 Summer Street)

AREAS MOST LIKELY TO DRIFT IN:

- Summer Street, Spring Street, Emery Street, North Street & Oakes Park area

SPECIAL SITUATIONS SUCH AS PLOWING ALL TO ONE SIDE:

- Plow snow to east side on Gladstone Avenue between Emery Street & North Street
- Plow snow to south side of Magdalen Street from Ellen Avenue to Victoria Avenue
- Plow snow to Oakes Park side on Morden Drive & Law Avenue
- Plow snow away from Nabisco side on Centre Street

- **PORTAGE ROAD FROM MORRISON STREET TO DEAD END – DON'T FORGET TO PLOW**

NARROW STREETS TO PLOWING ALL TO ONE SIDE:

- Spring Street, North Street, east of Stanley Avenue, Sixth Avenue Between Rosedale Drive & North Street

WING BACK SIDEWALKS ON:

- Forsythe Street, St. Ann's Church side

***THIS FORM IS TO BE COMPLETED AND SUBMITTED TO THE SUPERVISOR FOLLOWING
COMPLETION OF SHIFT***

DATE: _____ WEATHER CONDITION: _____ (month/day/year)			
OPERATOR: _____	HELPER: _____	TIME IN: _____	TIME OUT: _____ (am/pm) (am/pm)
TRUCK #: _____	START KM _____	STOP KM _____	TOTAL KM _____
LOADS RECEIVED: _____	[Salt / Sand] (Circle One)	LOADS RETURNED: Full 3/4 1/2 1/4 Empty (Circle One)	
RADIO CHECK <input type="checkbox"/>	GPS CHECK <input type="checkbox"/>		
COMMENTS / REQUESTS: <div style="border: 1px solid black; height: 60px; width: 100%;"></div>			

Appendix F

Overnight Parking By-law

Notice to all Residents

Please note from Friday, December 22, 2017 to Tuesday, January 2, 2018 all overnight parking requests will be automatically approved. Therefore the process noted below is not required; however overnight parking restrictions will be in effect during snow plowing operations

Please be advised, that the overnight parking bylaw will be in full enforcement during the winter season. To ensure that our plow operations are safe and successful at clearing the city roadways, please remove your vehicle from the street between 2:00 a.m. and 6:00 a.m.



Overnight Parking Request System

The Overnight Parking Request System allows you to make a request to park on the street overnight for special occasions or to accommodate overnight guests effortlessly. You can [request an Overnight parking privilege](#) and follow the 4 steps to have your request approved immediately. Overnight parking requests cannot be approved during snow plowing operation events.

By-law No. 89-2000

[By-law No. 89-2000 \(PDF\)](#) states that no vehicle shall be parked on either a City or Regional Road between the hours of 2:00 a.m. and 6:00 a.m. unless it is posted otherwise. This by-law is in effect 365 days a year, however, levels of enforcement change during the year. A violation of this by-law is subject to a **minimum fine of \$25.00.**

Overnight Parking Permit

There is an overnight parking permit, at an annual cost of \$100.00 including taxes, available to those residents who do not have a driveway or the ability to park all their vehicles off the road at night. For information on applying for an overnight parking permit or renewing an existing permit, please call 905-356-7521, extension 4960.

Special Parking Provisions

Should you require to park a vehicle on the street overnight for one or two nights due to driveway repairs, visitors or other events, please contact Transportation Services at (905) 356-7521 extension 4960. Courtesy requests will not be honoured during certain weather conditions, road maintenance, or other municipal requirements. A 24 hour advance warning is typically required, however if it is an emergency, please contact (905) 356-1355 and ask for a message to be sent to parking control.

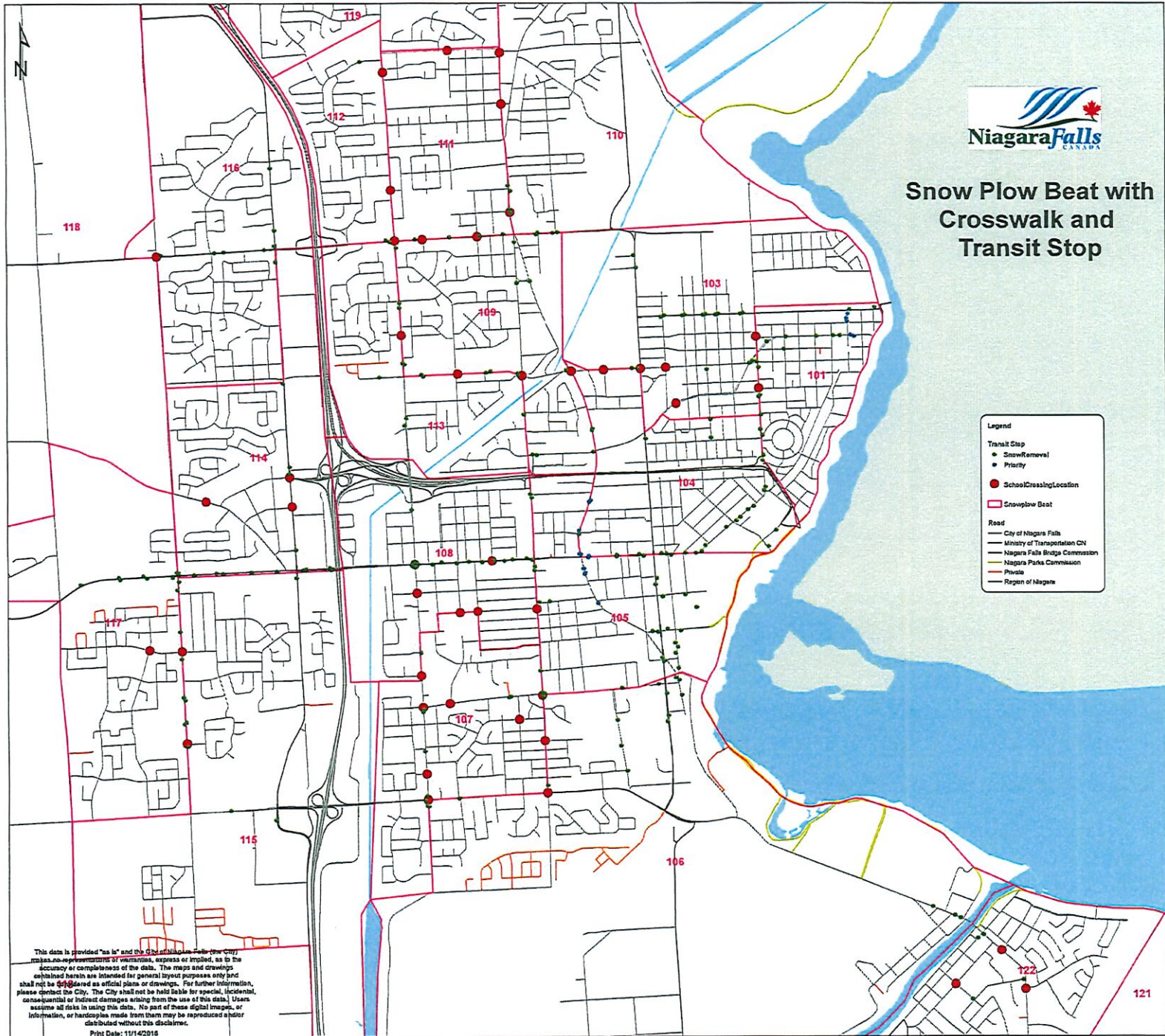
Overnight Parking Complaints Taken All Year

Should you wish to make a complaint or inquiry about an overnight violator or any other parking violation, please contact the parking control office at 905-356-7521, extension 4960, during the hours of 8:30 a.m. to 4:30 p.m. Between the hours of 4:30 p.m. and 7:30 a.m., please call 905-356-1179. Be advised that parking control officers will respond to complaints & enforcement will be applied universally - not just specific vehicles.

Appendix G



Snow Plow Beat with Crosswalk and Transit Stop



Legend

Transit Stop

- SnowRemoval
- Priority
- SchoolCrossingLocation

Snowplow Beat

Road

- City of Niagara Falls
- Ministry of Transportation ON
- Niagara Falls Bridge Commission
- Niagara Parks Commission
- Railroads
- Region of Niagara

This data is provided "as is" and the City of Niagara Falls (the City) makes no representations or warranties, express or implied, as to the accuracy or completeness of the data. The maps and drawings exhibited herein are intended for general layout purposes only and shall not be considered as official plans or drawings. For further information, please contact the City. The City shall not be held liable for special, incidental, consequential or indirect damages arising from the use of this data. Users assume all risks in using this data. No part of these digital images, or information, or hardcopies made from them may be reproduced or distributed without the disclaimer.

Print Date: 11/14/2016

APPENDIX K1 - Transit Priority Bus Stop - Contractors Field Sheet

UPDATED: 2018-11-02

COMPLETED LIST 2018-2019

TOTAL BUS STOPS - 20

	ROUTE	STOP #	Location
	102/108/104	102	ERIE AVE @ PARK ST-BUS TERMINAL(TRANSFER PT) Bus Shelter
	Green Line	NP1	ERIE AVE @ PARK ST-BUS TERMINAL WESTSIDE WEGO STOP
	Green Line	NP2	ERIE AVE @ BRIDGE ST-OPPOSITE BUS TERMINAL EASTSIDE WEGO STOP
	Red Line	206	FERRY @ MAIN (TRANSFER POINT) Red Line & Conventional Bus Stop
	102/107	160	MAIN @ FERRY MONEY MART N/E CORNER
	103	133A	MAIN @ Ferry W/Side (TRANSFER POINT)
	106/101	133B	MAIN @ Ferry W/Side (TRANSFER POINT)
	110	133C	MAIN @ Ferry W/Side (TRANSFER POINT)
	107/102	159A	MAIN @ Ferry E/Side (TRANSFER PT) Bus Shelter
	104	159B	MAIN @ Ferry E/Side (TRANSFER PT) Bus Shelter
	106/101	911	MAIN @ ROBINSON ST S/E CORNER
	107/102	131	MAIN @ SUMMER ST (CORONATION CENTRE) BUS SHELTER
	104	268	FERRY @ MAIN (TRANSFER POINT)
	102/107	132	MAIN @ FERRY (TRANSFER POINT) OPPOSITE MONEY MART
	102	169	PORTAGE RD @ PORTAGE MANOR (BUS SHELTER) EASTSIDE
	102	124	PORTAGE RD @ ACROSS PORTAGE MANOR WESTSIDE
	Green Line	NP3	QUEEN ST @ ERIE AVE N/E CORNER WEGO STOP
	Green Line	NP4	QUEEN ST @ ERIE AVE S/E CORNER WEGO STOP
	102/107	162	PORTAGE RD @ HOSPITAL (Bus Shelter)
	102/107	130	5559 PORTAGE RD (ACROSS FROM HOSPITAL) (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	

REVISED - November 02, 2018	Orange - Indicates Bus Stops That have Been Relocated
Blue - Indicates Bus Stop Removed From List	
APPENDIX J1 (North) - Transit Bus Stop Locations - Contractor's Field Sheet	

TOTAL BUS STOPS - 127			WEGO BUS STOPS - 13	CONVENTIONAL BUS STOPS - 114
			LOCATION - BRIDGE ST TO QUEEN ST TO VICTORIA AVE TO FERRY TO MAIN ST	
	ROUTE	STOP #		
	104/108	193	Bridge @ River Rd	
	104/108	192	Bridge @ Erie (Train Station)	
	104/108/102	102	ERIE AVE @ PARK ST-BUS TERMINAL(TRANSFER PT) Bus Shelter	
	GREEN LINE	NP1	ERIE AVE @ PARK ST-BUS TERMINAL WESTSIDE WEGO Bus Stop	
	GREEN LINE	NP2	ERIE AVE @ BRIDGE ST-OPPOSITE BUS TERMINAL EASTSIDE WEGO Bus Stop	
	104/102	103	Queen @ Ontario (Bus Shelter)	
	104/102	104	Queen @ St. Clair (Bus Shelter)	
	104/102	106	Queen @ St. Lawrence	
	104/102	107	Valleyway @ Queen (Bus Shelter)	
	104/102	189	Queen @ Erie	
	104	194	Victoria @ Morrison (Bus Shelter)	
	104	195	Victoria @ Simcoe (Bus Shelter)	
	104	197	Victoria @ 5175 Shoppers Drug Mart (Bus Shelter)	
	104	198	Victoria @ Roberts (Bus Shelter)	
	104	199	Victoria @ Bender Hill	
	104	208	Victoria @ Centre St	
	104	281	Victoria @ West of Magdalen St (ADDED NEW STOP)	
	104	282	Victoria Ave/Ferry St @ Ellen Ave (ADDED NEW STOP)	
	104	203	Ferry St @ West of Buchanan Ave North Side	
	104	895	Ferry St @ Opposite Allendale North Side	
	Red Line	204	Ferry St @ 5687 Across Super 8 WEGO Bus Stop	
	104	206	FERRY @ MAIN (TRANSFER POINT) WEGO Bus Stop	
	103	133A	MAIN @ Ferry W/Side (TRANSFER POINT)	
	101/106	133B	MAIN @ Ferry W/Side (TRANSFER POINT)	
	104	133C	MAIN @ Ferry W/Side (TRANSFER POINT)	
	110	133D	MAIN @ Ferry W/Side (TRANSFER POINT) Bus Shelter (REMOVED FROM LIST)	
	102/107	159A	MAIN @ Ferry E/Side (TRANSFER PT) Bus Shelter	
	104	159B	MAIN @ Ferry E/Side (TRANSFER PT) Bus Shelter	
	102	159C	MAIN @ Ferry E/Side (TRANSFER PT) (REMOVED FROM LIST)	
	106/101	911	MAIN ST @ ROBINSON ST S/E CORNER (ADDED NEW STOP)	
DATE COMPLETED	INITIAL	TIME		
	ROUTE	STOP #	LOCATION - MAIN ST TO FERRY ST TO VICTORIA AVE TO QUEEN ST	
	104	268	FERRY @ MAIN (TRANSFER POINT)	
	Red Line	927	Ferry St @ 5678 Super 8 (Bus Shelter) WEGO Bus Stop	
	104	270	Ferry St @ East Of Allendale South Side	
	104	271	Ferry @ Fallsview Blvd	
	104	285	Victoria @ Marriott	
	104	250	Victoria @ Clifton Hill	
	104	251	Victoria Eastside @ Walnut Casino Niagara Exit	
	104	275	Victoria @ Bender Hill	
	104	276	Victoria @ Jade Garden	
	104	277	Victoria @ Ryerson	
	104	278	Victoria @ Jepson	
	104	279	Victoria @ Simcoe	
	104	280	Victoria @ Morrison	
	GREEN LINE	NP3	QUEEN ST @ ERIE AVE N/E CORNER WEGO Bus Stop	
	GREEN LINE	NP4	QUEEN ST @ ERIE AVE S/E CORNER WEGO Bus Stop	
DATE COMPLETED	INITIAL	TIME		

LOCATION - Clifton Hill/Falls Ave to Victoria/Ferry			
ROUTE	STOP #	LOCATION	
BLUE LINE	940	Clifton Hill @ Niagara River Pkwy N/W	WEGO Bus Stop
BLUE LINE	922	Falls Ave @ 5705 Casino Niagara	WEGO Bus Stop
BLUE LINE	917	Victoria @ 5629 Past Walnut	WEGO Bus Stop
BLUE LINE	923	Victoria @ 5765 Antica Pizza	WEGO Bus Stop
BLUE LINE	924	Ferry @ 5943 Denny's	WEGO Bus Stop
BLUE LINE	925	Ferry @ Buchanan N/E	WEGO Bus Stop
DATE COMPLETED	INITIAL	TIME	
LOCATION - Valleyway @ Morrison to Fouth to McRae to Morrison To Portage			
ROUTE	STOP #	LOCATION	
102	108	Valleyway @ Morrison St N/W Corner	
102	110	Fourth @ Morrison	
102	114	Fourth @ McRae	
102	117	McRae @ Stanley REMOVE FROM LIST	
102	914	Stanley Ave @ South of Valleyway Eastside RELOCATED NEW STOP	
102	175	Morrison St @ Stanley Ave Opposite Oakes Park North Side	
102	116	Morrison St @ Portage Rd S/W Corner (Bus Shelter)	
102	124	Portage Rd @ Opposite Portage Manor	
102/107	162	Portage @ Hospital (Bus Shelter)	
102/107	130	5559 Portage (across from hospital) (Bus Shelter)	
102/107	131	Main @ Summer (Coronation Center) (Bus Shelter)	
102/107	132	MAIN @ FERRY (TRANSFER POINT)	
DATE COMPLETED	INITIAL	TIME	
LOCATION - Main to Portage to Morrison to Fourth to Morrison to Valleyway			
ROUTE	STOP #	LOCATION	
102/107	160	MAIN @ FERRY (TRANSFER POINT) MONEY MART N/E CORNER	
102/107	161	Main @ Summer St (Across Coronation Centre) (ADDED NEW STOP)	
102	169	Portage @ Portage Manor (Bus Shelter)	
102	173	Morrison St @ Stanley Ave Oakes Park Side S/W Corner	
102	180	Fourth @ Jepson (Bus Shelter)	
102	185	Valleyway @ Morrison St N/E Corner	
DATE COMPLETED	INITIAL	TIME	
LOCATION - Valleyway @ Drummond Rd to Portage Rd			
ROUTE	STOP #	LOCATION	
107	166	Valleyway @ Drummond (Bus Shelter)	
107	544	Portage @ Stamford Medical Clinic (Bus Shelter)	
DATE COMPLETED	INITIAL	TIME	
LOCATION - Five Corners - Drummond Rd to Valleyway			
ROUTE	STOP #	LOCATION	
107	824	Drummond @ Thoroldstone	
107	650	Drummond @ Gallinger (Bus Shelter)	
107/110	533	Drummond @ Lions Club	
107	127	Valleyway @ Drummond (Bus Shelter)	
107	168	Valleyway @ Portage Rd (Bus Shelter) S/W Corner	
DATE COMPLETED	INITIAL	TIME	

	ROUTE	STOP #	LOCATION - Bridge @ First - Bridge St to Stanley Ave to Thorold Stone Rd
	108	429	Bridge @ First N/E Corner REMOVE FROM LIST
	108	431	Bridge @ Third N/E Corner
	108	432	Bridge @ Fourth N/E Corner
	108	434	Bridge @ Sixth N/E Corner REMOVE FROM LIST
	108	289	Bridge @ Homewood N/E Corner
	108	567	Stanley Ave @ Opposite Fraser St & Project Share (Bus Shelter)
	108	569	Thorold Stone Rd @ Sinnicks North Side
	108	648	Thorold Stone Rd @ McDonalds & Commisso's Plaza (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Thorold Stone Rd @ Dorchester Rd Both Sides
	IMT/109	900	Thorold Stone Rd @ Dorchester N/W Corner Pole 39-5
	IMT/109	901	Thorold Stone Rd @ Dorchester S/W Corner Ploe # 39-234
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Five Corners - Thorold Stone Rd to Stanley Ave to First Ave
	108	647	Thorold Stone Rd @ Carroll Ave Opposite Commiss's Plaza
	108	574	Thorold Stone Rd @ Across from Sinnicks South Side
	108	558	Stanley @ George St. (Project Share)
	108	136	Bridge @ Homewood S/W Corner
	108	478	Bridge St @ 5212 Sixth Ave S/W Corner REMOVE FROM LIST
	108	480	Bridge @ Fourth S/W Corner
	108	481	Bridge @ Third S/W Corner
	108	483	Bridge @ First S/W Corner REMOVE FROM LIST
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Drummond @ Lundy's lane - Drummond Rd to Morrison St @ Zehrs
	110	615	Drummond Rd @ Prospect St S/E Corner Pole #70-308
	110/102	801	Morrison @ Drummond (N/W)
	110/102	550	Morrison @ Medical Center (Bus Shelter)
	110/102	530	Morrison @ East of Dorchester L.A. Fitness (Bus Shelter)
	110/102/108/114	634	Morrison @ Service Rd Optimist Plaza North Side
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Morrison @ Dorchester - Morrison St to Drummond Rd
	110/102	551	Morrison @ East of Dorchester (Bus Shelter) Bank of Montreal
	110/102	531	Morrison @ LaMarsh (Bus Shelter)
	110/102	535	Morrison @ Drummond (S/W) (Bus Shelter)
	110	618	Drummond Rd @ Opposite Prospect St Westside Pole #70-309
DATE COMPLETED	INITIAL	TIME	

	ROUTE	STOP #	LOCATION - Thorold Stone Rd @ Montrose Rd to Kalar Rd
	105	906	Kalar Rd @ North of Lundy's Lane N/E Corner (ADDED NEW STOP)
	105	362	Thoroldstone @ Pole # 48-56 Across Shriners Creek
	105	619	Thoroldstone @ Montrose A&W (Bus Shelter)
	105	620	Thoroldstone @ East of Cardinal Dr Pole #48-53
	IMT	845	Thoroldstone @ Kalar Rd Circle K (Bus Shelter)
	105	303	Kalar Rd @ North of Lundy's Lane N/W Corner RELOCATED NEW STOP
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - East Side of Montrose Rd @ Lundy's Lane to Cardinal Dr
	113/105/109	453	Montrose @ North of Thorold Stone Rd Tim Hortons
	109/113	458	Montrose @ Fairhaven Senior (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - West Side of Montrose Rd @ Thorold Stone Rd Towards Lundy's Lane
	113/105	461	Montrose @ Thoroldstone N/W Corner
	113	364	Montrose @ Thoroldstone (Bus Shelter) S/W Corner
	113	367	Montrose @ Woodbine
	113	370	Montrose @ Watson (Bus Shelter)
	113	225	Montrose @ Wanless S/E Corner
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Casey St to Portage to Thorold Stone to Dorchester @ Morrison
	114	654	Casey @ Northfield Village
	114/108/107	445	Portage @ Coborne
	114/108/107	446	Portage @ St. John (Bus shelter)
	114	447	Thoroldstone @ Portage
	114	448	Thoroldstone @ St. James
	114	449	Thoroldstone @ Our Lady of Scapular
	114	450	6767 Thoroldstone Across CAA
	114/108/109	528	Dorchester @ Freeman (Bus Shelter)
	114/108/109	644	Dorchester @ Optimist PLaza (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Dorchester @ Morrison - Dorchester Rd to Portage Rd
	108/109/114	552	Dorchester @ 4724 Across Optimist Plaza (Bus Shelter)
	108/109/114	554	Dorchester @ Freeman
	108/109/114	556	Dorchester @ Thoroldstone
	108/114/107	466	Portage @ Stamford Court
	108/114/107	467	Sobey's Plaza
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Dorchester @ Dawson St towards Lundy's lane
	111	829	Dorchester Rd @ Opposite Dawson St Westside
	111	663	Dorchester Rd @ Garden St N/W Corner
	111	304	Dorchester Rd @ Lundy's Lane N/W Pole #69-205 (ADDED NEW STOP)
	111	668	Dorchester @ Frederica St S/E Corner Pole
DATE COMPLETED	INITIAL	TIME	

REVISED - December 28, 2017

Orange - Indicates Bus Stops That have Been Relocated

Blue - Indicates Bus Stop Removed From List

APPENDIX J1 (South) - Transit Bus Stop Locations - Contractor's Field Sheet

TOTAL BUS STOPS - 99		WEGO BUS STOPS - 35		CONVENTIONAL BUS STOPS - 64	
Area: Lundy's Lane					
ROUTE	STOP #	LOCATION - Lundy's Lane From Gardner To Ferry To Stanley To Murray			
Red Line	920	Lundy's Lane @ 8618	Across KOA Campground	WEGO Bus Stop	
Red Line	921	Lundy's lane @ 8444	Americana	WEGO Bus Stop	
Red Line	936	Lundy's Lane @ Kalar S/W	(Bus Shelter)	WEGO Bus Stop	
Red Line	331	Lundys Lane @ Greycliffe Manor	(Bus Shelter)		
Red Line	333	Lundys Lane @ Lundy Manor			
Red Line	332	Lundy's Lane @ 8004	Carriage House	WEGO Bus Stop	
Red Line	334	Lundy's Lane @ 7720	Niagara Lodge & Suites	WEGO Bus Stop	
	113	374	Montrose @ Lundy's Lane Mick & Angelo's	(Bus Shelter)	
	113	223	Montrose @ Across Wayne Eastside		
Red Line	335	Lundy's Lane @ 7542	Across Cemetary	WEGO Bus Stop	
Red Line	336	Lundys Lane @ Factory Outlet	(Bus Shelter)	WEGO Bus Stop	
Red Line	339	Lundys Lane @ Dorchester	(Bus Shelter)	WEGO Bus Stop	
Red Line	340	Lundys Lane @ Corwin	(Bus Shelter)		
Red Line	341	Lundys Lane @ Carelton			
Red Line	342	Lundys Lane @ No Frills	Bus Shelter)		
Red Line	343	Lundy's Lane @ 6400	Best Western Plus	WEGO Bus Stop	
Red Line	344	Lundy's Lane @ Drummond	(Bus Shelter)	WEGO Bus Stop	
Red Line	926	Stanley @ 6045	I Hop Ramada	WEGO Bus Stop	
Red Line	935	Murray Hill @ Fallsview Blvd	S/E	WEGO Bus Stop	
Red Line	961	Murray @ 5339	Best Western	WEGO Bus Stop	
DATE COMPLETED	INITIAL	TIME			
ROUTE	STOP #	LOCATION - From Stanley Towards Lundy's Lane To TURN-A-ROUND			
Red Line	622	Stanley @ Robinson	Double Tree	WEGO Bus Stop	
Red Line	285	Lundys Lane @ Drummond		WEGO Bus Stop	
Red Line	286	Lundys Lane @ Leonard			
Red Line	287	Lundys Lane @ Highland		WEGO Bus Stop	
Red Line	288	Lundys Lane @ Byng	(Bus Shelter) Shoppers Drugmart		
Red Line	290	Lundys Lane @ Corwin	Beer Store		
Red Line	291	Lundys Lane @ Dorchester	(Bus Shelter)	WEGO Bus Stop	
Red Line	294	Lundy's Lane @ 7389	Across Factory Outlet Mall	WEGO Bus Stop	
Red Line	295	LUNDYS LANE @ MONTROSE	(TRANSFER PT) Bus Shelter	WEGO Bus Stop	
Red Line	298	Lundy's Lane @ 8033	Orchard Grove Plaza	WEGO Bus Stop	
Red Line	938	Lundy's Lane @ Kalar N/E		WEGO Bus Stop	
Red Line	939	Lundy's Lane @ 8445	Across Ameicana	WEGO Bus Stop	
Red Line	880	Lundy's Lane @ 8625	KOA Campground	WEGO Bus Stop	
Red Line	881	Lundy's Lane @ 8845	Scott's Trailer Park	WEGO Bus Stop	
Red Line	882	Lundy's Lane West of Garner N/Side	Turn-A-Round	WEGO Bus Stop	
DATE COMPLETED	INITIAL	TIME			

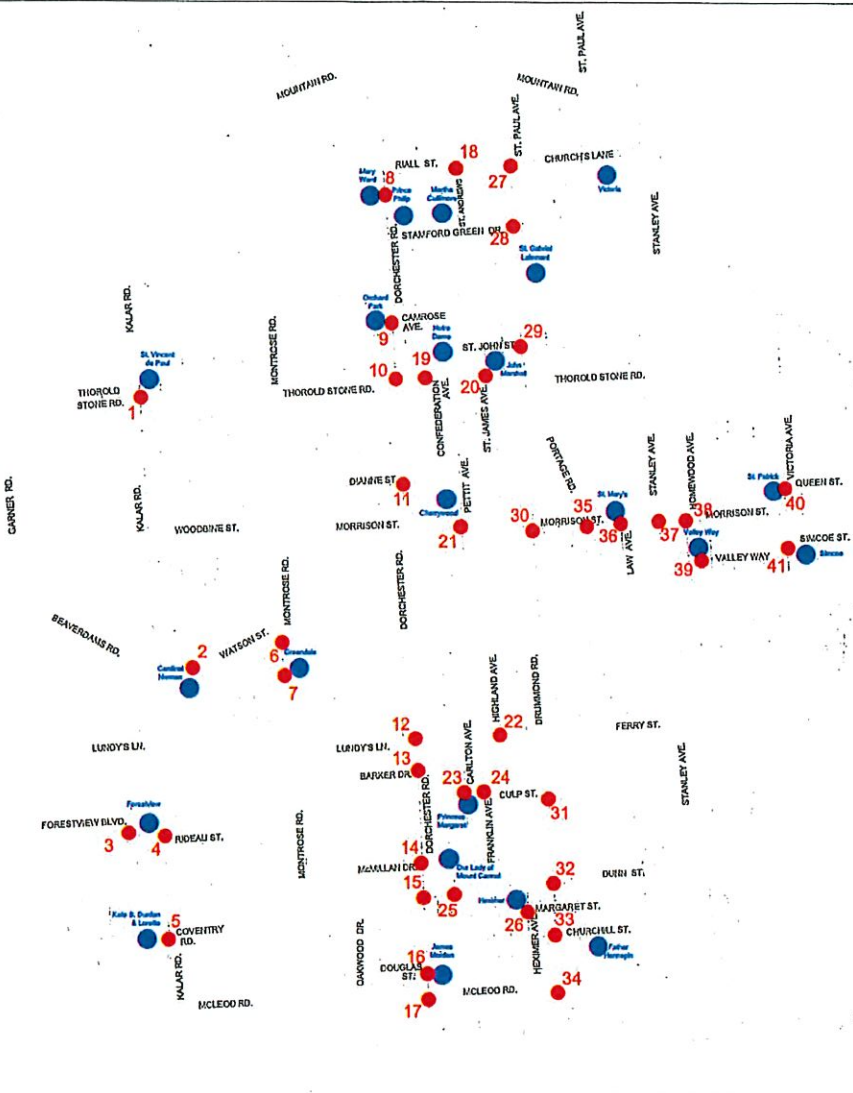
	ROUTE	STOP #	LOCATION - Dunn St @ Drummond Rd - Dunn St to Dorchester Rd to McLeod Rd
	101	212	Dunn @ Drummond (Bus Shelter)
	101	213	Dunn @ Kiwanis (Bus Shelter)
	101/111	217	Dorchester @ Dunn (Bus Shelter)
	101/111	219	Dorchester @ Winston
	101/111	222	Dorchester @ McLeod (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Dorchester Rd @ Dunn - Dunn to Drummond
	101/111	406	Dorchester @ Dunn
	101	625	Dunn St @ Opposite Kiwanis Crescent South Side
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Culp @ Main to Drummond to McLeod to Dorchester To McLeod
	110	201	Drummond @ Lundy's Lane S/E Corner
	110	200	Drummond @ Lundy's Lane Red Lobster Pole #70284
	103/110	255	Culp @ YWCA
	103/110	256	Culp @ Drummond
	103	259	Drummond @ Victoria Park Tower
	103	260	Drummond @ Dunn
	103	266	Dorchester @ South of McLeod (West Side) Tim Horton
	103	836	Dorchester @ South of McLeod (East Side) Canadian Tire
	103/112/111/105	726	Montrose Rd @ South of McLeod Rd SW Corner RELOCATED NEW STOP
	103/112/111	719	McLeod @ Montrose (Bus Shelter) REMOVE FROM LIST
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - McLeod Rd @ Montrose Rd to Drummond Rd
	101/113/105	818	McLeod Rd @ West of Montrose Rd North Side REMOVE FROM LIST
	103/112/111	720	McLeod @ Montrose (Bus Shelter) REMOVE FROM LIST
	112/103	686	McLeod Rd @ Dorchester Rd SW Corner Tim Hortons
	103/112	638	McLeod Rd @ Fern Ave SW Corner
	103	241	Drummond @ McLeod (Bus Shelter)
	103	246	Drummond @ Dunn (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - McLeod @ Kalar - To Lundy's Lane
	105	318	McLeod Park (Bus Shelter)
	105	321	Kalar @ Coventry
	105	322	6730 Kalar (Bus Shelter)
	105	323	Kalar @ Westwood Place (Bus Shelter)
	105	330	Kalar Rd @ Lundy's Lane East Side (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	

	ROUTE	STOP #	LOCATION - Thorold Stone Rd @ Montrose Rd to Kalar Rd to McLeod Rd
	105	301	Kalar Rd @ Lundy's Lane FreshCo West Side (Bus Shelter)
	105	890	Kalar Rd @ 6185 Kenmore Apts. (Bus Shelter)
	105	302	Kalar Rd @ SW Of Forestview Blvd
	105	309	Kalar Rd @ 6623 Meadows of Dorchester (Bus Shelter)
	105	800	Kalar Rd @ 6733 Opposite Falls Place (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Stanley Ave @ Dixon to Dunn St to Ailanthus Ave to Chippawa
	106/101	612	Murray St @ Stanley Ave SW Corner
	106/101/112	810	Stanley @ Dixon (Bus Shelter)
	106/101/112	138	Dunn @ Stanley North Side
	106/101/112	804	Dunn @ Cavendish Manor (Bus Shelter)
	106/112	142	6995 Ailanthus (Bus Shelter)
	106/112	584	Portage @ Chippawa Parkway
	106	585	Main @ Library (Bus Shelter)
	106/112	589	Oliver @ Gunning (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Chippawa to Portage Rd to Ailanthus Ave to Stanley Ave to Murray
	106/112	591	Gunning @ Willoughby (Bus Shelter)
	106/112	593	Willoughby @ Main
	106/112	594	Portage Rd @ 8076 North of Boat House
	106/112	595	Portage @ Niag Parks Comm. (Bus Shelter)
	106/112	415	Ailanthus Ave @ Across from Frontenac East Side
	106/112	417	Ailanthus Ave @ 6858 East Side (Bus Shelter)
	106/101	811	Stanley @ Dixon E/S
	106/101	165	Murray St NW @ Stanley Ave Tim Horton
DATE COMPLETED	INITIAL	TIME	
	ROUTE	STOP #	LOCATION - Stanley Ave Between Dunn St & McLeod Rd - Both Sides
	112	152	Stanley @ Livingston (Bus Shelter)
	112	577	Stanley @ across from Lorreto
	112	153	Stanley @ rear Radison Hotel (Bus Shelter)
DATE COMPLETED	INITIAL	TIME	

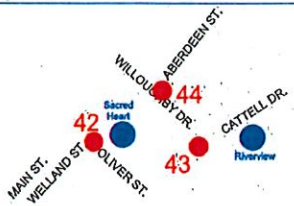
ROUTE				STOP #	LOCATION - Dorchester Rd @ Coach Dr to Lundy's Lane
	111	408	Dorchester @ Dorchester Manor (Bus Shelter)		
	111	442	Dorchester @ Lundy's Lane S/E Corner (Bus Shelter)		
	111	304	Dorchester @ Lundy's Lane N/W Corner Pole #69-205		
DATE COMPLETED	INITIAL	TIME			
ROUTE				STOP #	LOCATION - Livingston to Fallsview Blvd @ Casino
	BLUE LINE	873	Fallsview Blvd @ 6755	Marriott (Bus Shelter)	WEGO Bus Stop
	BLUE LINE	932	Fallsview Blvd @ Dunn	Embassy Suites	WEGO Bus Stop
	BLUE LINE	874	Fallsview Blvd @ 6546	Oakes Inn	WEGO Bus Stop
	BLUE LINE	875	Fallsview Blvd @ 6380	Fallsview Casino	WEGO Bus Stop
DATE COMPLETED	INITIAL	TIME			
ROUTE				STOP #	LOCATION - Robinson to Skylon to Fallsview Blvd
	BLUE LINE	929	Robinson @ Stanley S/E	Wyndham	WEGO Bus Stop
	BLUE LINE	877	Robinson @ Clark SW	Pyramid Place	WEGO Bus Stop
	BLUE LINE	928	Skylon Driveway (Bus Shelter)		WEGO Bus Stop
	BLUE LINE	930	Fallsview Blvd @ 6361	Hilton	WEGO Bus Stop
	BLUE LINE	956	Fallsview Blvd @ 6455	Four Points Sheraton	WEGO Bus Stop
	BLUE LINE	955	Fallsview Blvd @ 6671	Copacabana	WEGO Bus Stop
DATE COMPLETED	INITIAL	TIME			

Appendix H

SCHOOL CROSSING GUARD SNOW CLEARING LOCATIONS

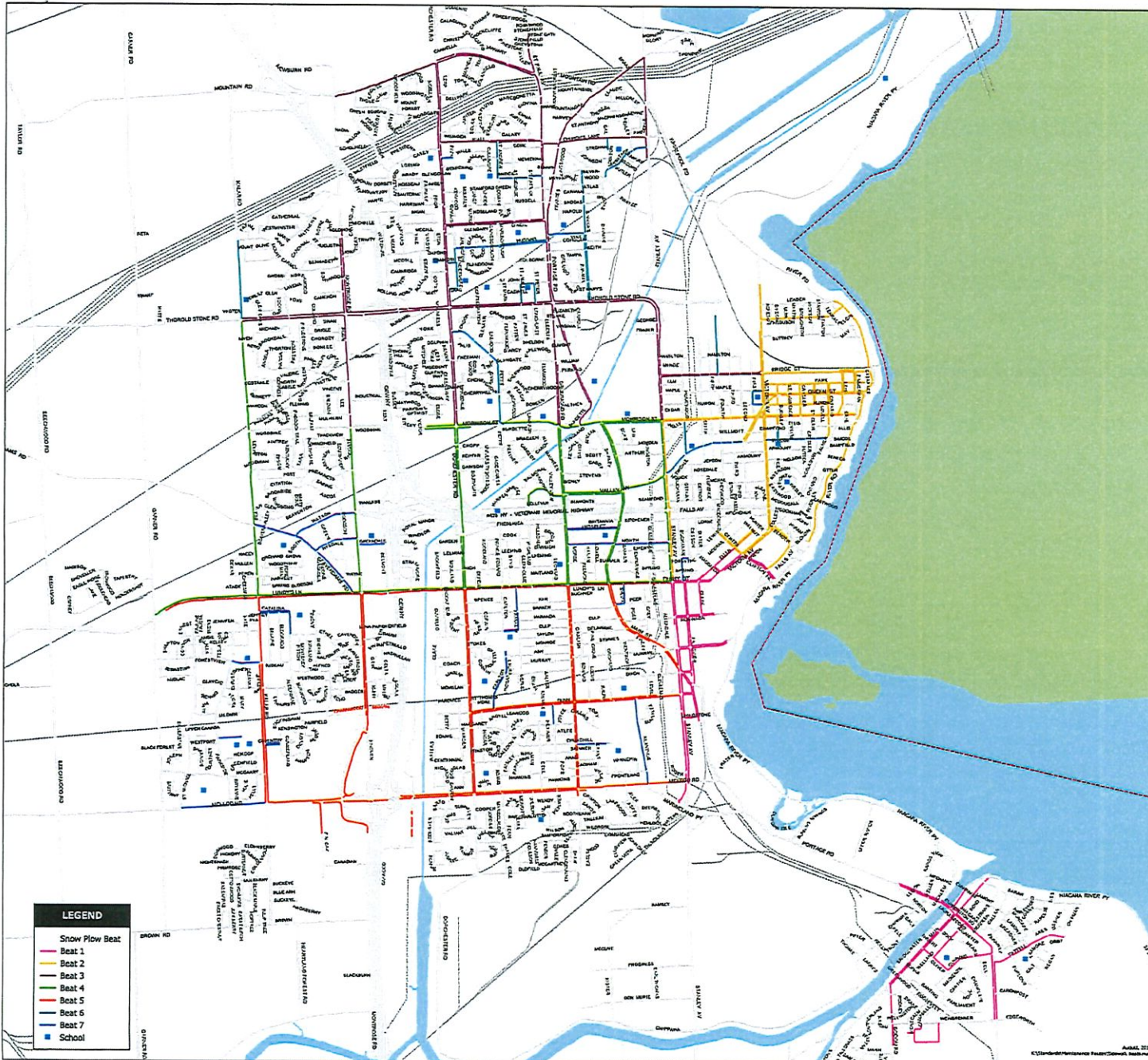


- Elementary School
- Snow Removal Location
(Numbers correspond to tender list)



Appendix I

Sidewalk Snow Plow Routes City of Niagara Falls





Representative Sidewalks Patrol Route

Date (MM/DD/YR):	Start Time (24hr clock):	Stop Time (24hr clock):
Current Conditions:	Temperature:	Wind: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Clear <input type="checkbox"/> Dry Snow	<input type="checkbox"/> Flurries <input type="checkbox"/> Drifting Snow	Wind Direction: <input type="checkbox"/> N/A
<input type="checkbox"/> Wet Snow <input type="checkbox"/> Cloudy	<input type="checkbox"/> Rain <input type="checkbox"/> Freezing Rain	<input type="checkbox"/> North <input type="checkbox"/> South <input type="checkbox"/> East <input type="checkbox"/> West

Sidewalk Indicator Route Street Name*	Side of the Road	From	To	Condition			Checked Time (24hr clock)
				Icy	Snow (cm)	Bare	
St. Paul Avenue	West	Mountain Road	O'Neil Street	<input type="checkbox"/>		<input type="checkbox"/>	
Portage Road	West	O'Neil Street	Thorold Stone Road	<input type="checkbox"/>		<input type="checkbox"/>	
Thorold Stone Road	South	Portage Road	Stanley Avenue	<input type="checkbox"/>		<input type="checkbox"/>	
Stanley Avenue	West	Thorold Stone Road	Bridge Street	<input type="checkbox"/>		<input type="checkbox"/>	
Bridge Street	South	Stanley Avenue	River Road	<input type="checkbox"/>		<input type="checkbox"/>	
River Road	West	Bridge Street	Clifton Hill	<input type="checkbox"/>		<input type="checkbox"/>	
Clifton Hill	North/East	River Road	Victoria Avenue	<input type="checkbox"/>		<input type="checkbox"/>	
Victoria Avenue	South	Clifton Hill	Ferry Street	<input type="checkbox"/>		<input type="checkbox"/>	
Ferry Street	South	Victoria Avenue	Stanley Avenue	<input type="checkbox"/>		<input type="checkbox"/>	
Stanley Avenue	West	Ferry Street	McLeod Road	<input type="checkbox"/>		<input type="checkbox"/>	
Portage Road	South	Norton Street	Bridgewater Street	<input type="checkbox"/>		<input type="checkbox"/>	
Cummington Square West	South	Bridgewater Street	Main Street	<input type="checkbox"/>		<input type="checkbox"/>	
Willoughby Drive	South	Main Street	Weinbrenner Road	<input type="checkbox"/>		<input type="checkbox"/>	
Sodom Road	East	Weinbrenner Road	Main Street	<input type="checkbox"/>		<input type="checkbox"/>	
Main Street	South	Sodom Road	Cummington Square West	<input type="checkbox"/>		<input type="checkbox"/>	
McLeod Road	South	Stanley Avenue	Kalar Road	<input type="checkbox"/>		<input type="checkbox"/>	
Kalar Road	East	McLeod Road	Thorold Stone Road	<input type="checkbox"/>		<input type="checkbox"/>	
Thorold Stone Road	North	Kalar Road	Montrose Road	<input type="checkbox"/>		<input type="checkbox"/>	
Montrose Road	East	Thorold Stone Road	Solomon Circle	<input type="checkbox"/>		<input type="checkbox"/>	
Mountain Road	South	Mewburn Road	St. Paul Avenue	<input type="checkbox"/>		<input type="checkbox"/>	

Comments:

Patroller Name (print):	Patroller Signature:
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*RSPR to be accompanied by a map.