

# Road Maintenance Standards

## Council Orientation

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Prepared by: Jim McCannell  
Manager of Roads and Drainage

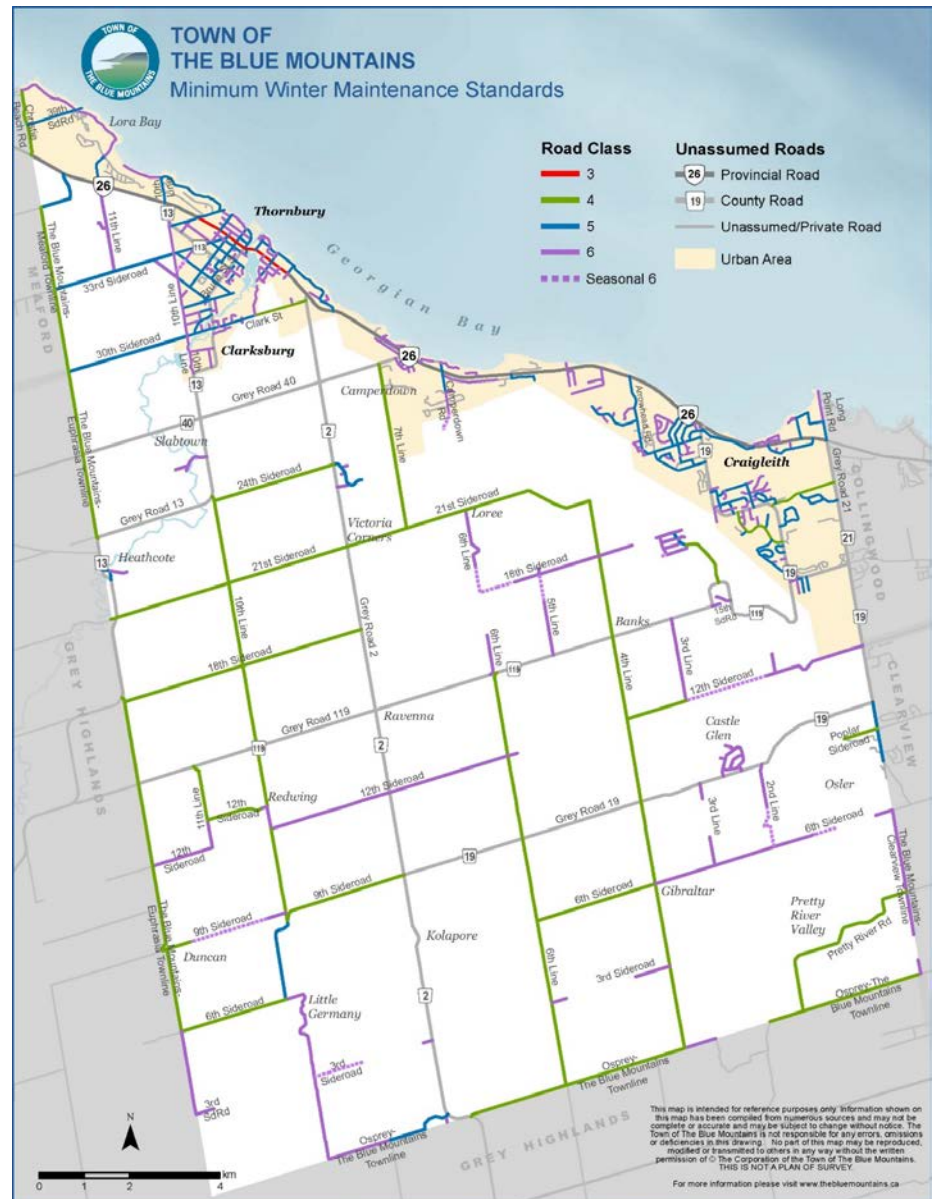
# Maintenance Standards and Level of Service Policy Update

- Provincial Minimum Maintenance Standards for Municipal Highways (O. Reg. 239/02) ; set in Mun Act 2002
  - what is done - when
  - defense against increasing court costs.
- Changes/ update to the MMS February 2013
  - Impact on Town LOS, use of section 44.
- Latest updates effective May 3<sup>rd</sup>, 2018



# Town Road Classification Map

- Road class is established through a combination of:
  - Traffic speed limit
  - Traffic volume



# Classification of Highways

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



# Maintenance Standards for Municipal Highways (O. Reg. 239/02)

2018 amendments include the introduction of, or changes to, the following:

1. Winter maintenance standards for bicycle lanes;
2. Ability for municipalities to declare a “significant weather event”;
3. Inspection standards for areas “adjacent to sidewalks”;
4. Winter sidewalk inspection standards;
5. Sidewalk surface discontinuities;
6. Pothole repairs;
7. Road classification system adjustment.



# Winter Maintenance Level of Service

- Snow Accumulation:
  - Start response clock once Road Operation's Staff have determined that the snow accumulation on the roadway is equal to, or greater than, the depth set out in Table 1 of the Policy.

## Prior to 2013

- A Class 4 Road is cleared within 16 hours *after* it has been determined that there is 8cm of snow accumulated on the road surface.

## After 2013

- MMS Regulation sets out that a Class 4 Road should be cleared within 16 hours or *before* the accumulation of snow reaches a depth of 8cm.



# Winter Maintenance Level of Service

- Town established own prescribed Winter Maintenance Level of Service in 2013.
- Town's prescribed Winter Maintenance Level of Service meets or exceeds the MMS Regulation with the exception of Section 4—Snow Accumulation.
- Unable to consistently achieve the standard for Snow Accumulation as specified in the MMS Regulation with its current complement of staff and equipment.



# Winter Maintenance Level of Service

- To achieve the standard for Snow Accumulation as specified in the Provincial MMS, the Town would need to create a second shift for each route.
- A second shift would require :
  - Up to ten additional staff or contract drivers
  - Additional supervision (lead hand)
  - reduced life cycle of equipment from 10 years to 7 years.
  - fuel usage, winter material costs, additional repairs to equipment
  - require improvements to the Ravenna Yard and/or an additional facilities





# Winter Maintenance Level of Service

Class of Highway	Winter Maintenance Objective	Snow Plowing			Spreading Materials	
		Snow Accumulation	Plowing Time	Objective	Spreading Time	Objective
2	To make best efforts to achieve center bare or track bare pavement	5cm	6 hours	Both sides of the road plowed one time within 6 hours after it has been determined that there is 5cm of snow accumulated on the road surface.	4 hours	Have materials spread within 4 hours after becoming aware that such treatment is required.
3	To make best efforts to achieve center bare or track bare pavement.	8cm	12 hours	Both sides of the road plowed one time within 12 hours after it has been determined that there is 8cm of snow accumulated on the road surface.	8 hours	Have materials spread within 8 hours after becoming aware that such treatment is required.
4	To make best efforts achieve center bare or track bare pavement.	8cm	16 hours	Both sides of the road plowed one time within 16 hours after it has been determined that there is 8cm of snow accumulated on the road surface.	12 hours	Have materials spread within 12 hours after becoming aware that such treatment is required.
5	To make best efforts to provide a smooth snow covered surface.	10cm	24 hours	One lane 5m in width plowed one time within 24 hours after it has been determined that there is 10cm of snow accumulated on the road surface.	16 hours	Have materials spread within 16 hours after becoming aware that such treatment is required. Bituminous roads in the category should not be bared after the storm by applying salt.
6	To make best efforts to provide a smooth snow covered surface. Gravel roads in this category may be spot sanded only on hills, curves and intersections.	10cm	24 hours	One lane 5m in width plowed one time within 24 hours after it has been determined that there is 10cm of snow accumulated on the road surface.	24 hours	Have materials spread within 24 hours after becoming aware that such treatment is required.
Seasonal 6	To close these roads and not perform any winter maintenance as signed.	N/A	N/A	No winter maintenance.	N/A	No winter maintenance.



# New Single Axle Plow Truck for Improved Urban Area Service



# Questions



