



**WINTER MAINTENANCE
PROGRAM ENHANCEMENT
CWC Meeting – November 3, 2015**



Sidewalk Plowing

1. City clears 1475 km of sidewalk
2. Deploy plows > 8 cm, treat icy conditions, clear within 24 hrs after snowfall ends
3. Maintain snow packed condition, standard is **not** to bare sidewalk
4. Downtown sidewalk clearing – Property owners responsible (By-Law S-2879-193)
5. Clear > 2100 bus stops (cost recovery)
6. Length of beat (route) is longer than comparators.

BEFORE

DURING

AFTER



Blade width 57"

Sidewalk Beat Size Comparison		
Location	KM	KM/Beat
London	1475	36
Toronto	7900	35
Brampton	550	21
Ottawa	1900	17

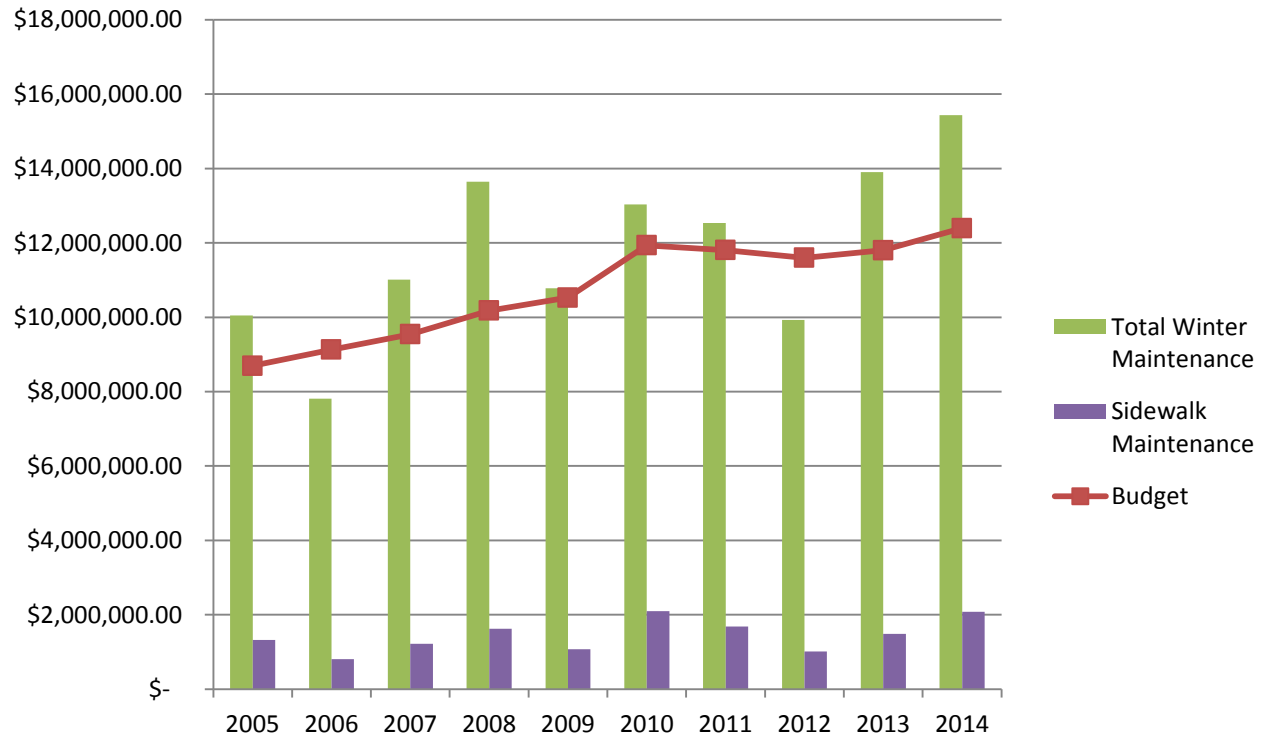


Financial Metrics

- Five year average cost - \$1.7 million
- Sidewalk winter cost - \$1,350 / lane km
- Lower than average cost compared to comparator municipalities

Winter Events

Year	>0cm	>=2cm	>=5cm	>=8cm
2011	74	39	14	8
2012	56	22	8	2
2013	93	41	12	7
2014	75	31	13	7





Evaluation of Service Enhancements

Option	Description	Cost
A	Status Quo Existing sidewalk practice (8 cm) with existing resources allow plowing to proceed uninterrupted with spot sanding or salting occurring after roads are completed.	\$0
B	Service Enhancement - 5 cm Response Increasing the level of service by deploying sidewalk plows at 5 cm accumulation. Would require a response for 6 additional winter events on average per year.	\$300,000
C	Service Enhancement – Prioritize School Zone Areas – 8 cm Response Increasing the level of service by modifying sidewalk beats to add sidewalk within 200 m of school to Priority 1 (8 cm response). Enhanced snow clearing in school zones exists where the school is on a major road. Schools that are situated on local streets are cleared and part of the local sidewalk clearing protocol. The same scenario exists with senior and health care area.	\$500,000



Evaluation of Service Enhancements



Option	Description	Cost
D	<p>Service Enhancement – Continuous Salting of full sidewalk network</p> <p>This option would involve the use of salt on all sidewalks while initial plowing is ongoing. Would require multiple plowing passes to reduce the depth of snow pack.</p> <p>This option would be contrary to the Salt Management Plan and have a significant impact on abutting sod, vegetation and environmental receivers. Additional costs would be incurred for replacement of sod and vegetation.</p>	<p>\$2,200,000 plus damage costs</p>
E	<p>Shovel By-law - Implement a by-law that would require property owners to scrape the sidewalks bare.</p> <p>This option would require an increase in by-law enforcement service and reduce contracted services. The City would be required to do extensive lengths of sidewalk where they are the abutting land owner.</p> <p>Equipment used to clear LTC bus stops would no longer be available and the City would discontinue this service and there would be higher LTC costs.</p> <p>Higher inspection, manual labor clearing and enforcement costs would create a cost neutral scenario at best.</p>	<p>\$0</p>



Evaluation of Service Enhancements

Option	Description	Cost
F	Service Enhancement – All Parks Pathways Expand to Class 3 sidewalk service to all park pathways 115 km at \$1688 per km	\$194,120
G	Service Enhancement – 50 % Parks Pathways Expand to Class 2 or 3 sidewalk ONLY to service to parks where those paths are the preferred pedestrian routes 50% of park pathways 55 km at \$1688 per km	\$92,840
H	Service Enhancement – Entire TVP Expand Class 3 sidewalk service to the balance of the TVP 30 km at \$1688 per km	\$50,640
I	Service Enhancement – TVP from King Street to Richmond Street Expand service on the TVP ONLY from King street to Richmond Street 6 km at \$1688 per km	\$10,130



Winter Maintenance Program Enhancement

- Strategic Plan – *Strengthening Our Community through a Healthy, Safe and Accessible City*
- Refer list of potential service enhancements to the 2016 Multi Year Budgeting process for consideration
- Lowering the 5 cm response has potential for improvement in line with other municipalities
- Bare sidewalk is not achievable and salting produces undesirable environmental impacts and damage
- Promote volunteer shoveling or snow blowing to help keep sidewalks clear for the community and neighborhood as it provides the greatest impact on quality