



Snow & Ice Control City of Courtenay



Snow & Ice Control Program

Program Overview

The Snow and Ice Control Program maintains a safe transportation network that is efficient for vehicle road users during the winter months and strives to ensure the City meets its legislative requirements in addition to Council's mandated levels of service.

Preventing the accumulation of snow and ice or quickly removing it (as is reasonably practical) increases safety, mobility, and improves commerce. As such, operational priorities are established for all of the City's roads, lanes, parking lots, sidewalks and paved trail networks, as defined in the Official Community Plan.

Snow & Ice management along provincial highways is managed by the BC Ministry of Transportation and Infrastructure (MoTI) and their contracted services.

Assets

Existing:

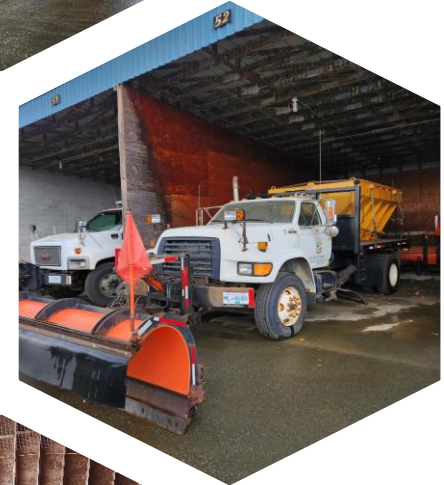
- Heavy Equipment: 14 Units
- Medium Equipment: 2 Units
- Small Equipment: 8 Units
- Salt and Sand Spreaders: 7 Units
- Truck Mounted Brine Units: 2 Units

New for 2022:

- 1 Mini Skid Steer & Attachments
- 1 Mini Brine Attachment

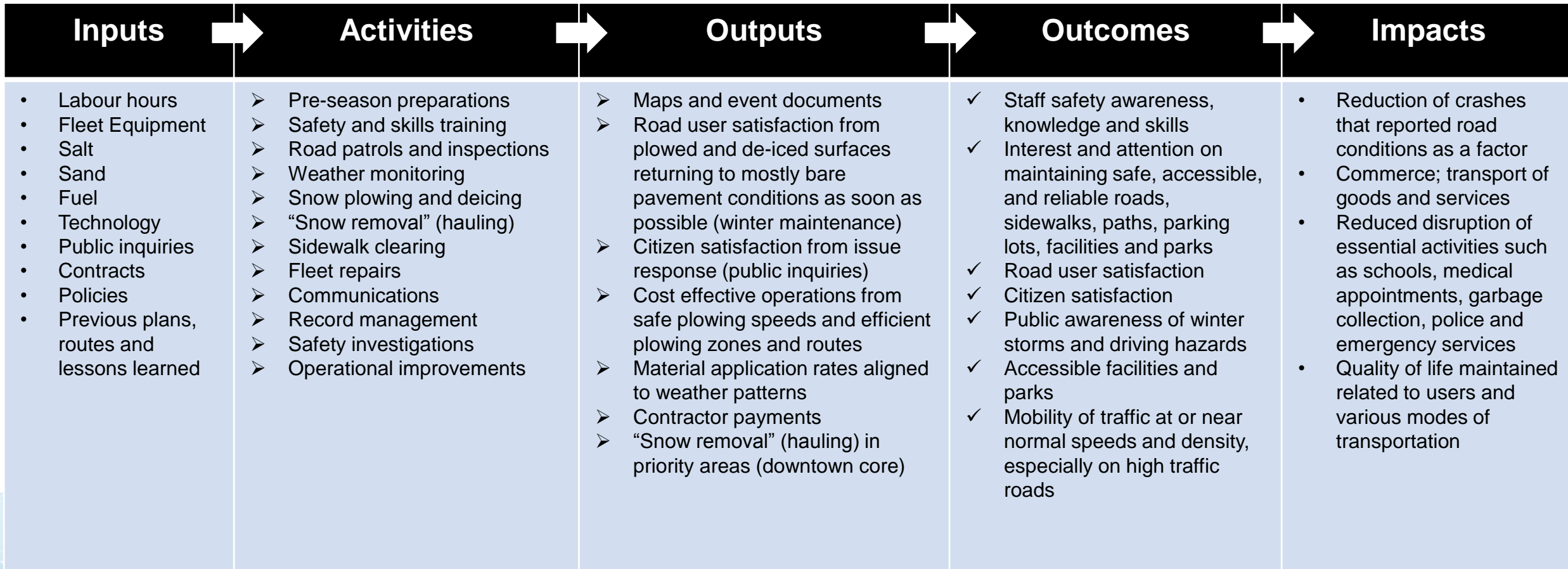
Awaiting Delivery:

- 1 Heavy Equipment Unit



Logic Model

A visual illustration of a program's resources, activities and expected outcomes



When to Salt & Plow


The City has 341 lane-km of roads, 156km of sidewalks, 15km of paved trails, and 25 parking lots

Asset Class	When does the City start to apply product (brine, or salt, or sand)?	How many hours does it take to apply product each round?*	When does the City start plowing?	How many hours does it take to plow each round?*	Required Outcome
Arterial Roads	Before snow accumulates if temps are forecasted below 0°C without rain	3 hours (4 fleet vehicles)	Based on road conditions. Typically 2.5cm of snow accumulation	6-8 hours (6 fleet vehicles)	Bare pavement or centre bare
Major roads, transit routes and streets with hills	Before snow accumulates if temps are forecasted below 0°C without rain	3 hours (4 fleet vehicles)	Based on road conditions. Typically 2.5cm of snow accumulation	6-8 hours (6 fleet vehicles)	Bare pavement or centre bare
Local Roads	By request	n/a	10cm of snow accumulation	14-20 hours (12 fleet vehicles)	Safe and passable
Cul-de-sacs and lanes	By request	n/a	10cm of snow accumulation	24-36 hours from end of snowfall	Safe and passable
Sidewalks	Before snow accumulates if temps are forecasted below 0°C without rain (DCBIA only)	n/a	5cm if more than 10cm of snow accumulation is forecasted	24 hours from end of snowfall	Safe and passable
Paved Trails	Before snow accumulates if temps are forecasted below 0°C without rain	3 hours	5cm if more than 10cm of snow accumulation is forecasted	24 hours from end of snowfall	Bare pavement
Separated Cycle Tracks & Paved Multi-Use Paths	Before snow accumulates if temps are forecasted below 0°C without rain	3 hours	5cm if more than 10cm of snow accumulation is forecasted	24 hours from end of snowfall	Bare pavement
Civic properties and public facilities	Before snow accumulates if temps are forecasted below 0°C without rain	8 hours	5cm if more than 10cm of snow accumulation is forecasted	24 hours from end of snowfall	Safe and passable
Parking lots	Before snow accumulates if temps are forecasted below 0°C without rain	3 hours	5cm of snow accumulation	12 hours (2 fleet vehicles)	Bare pavement

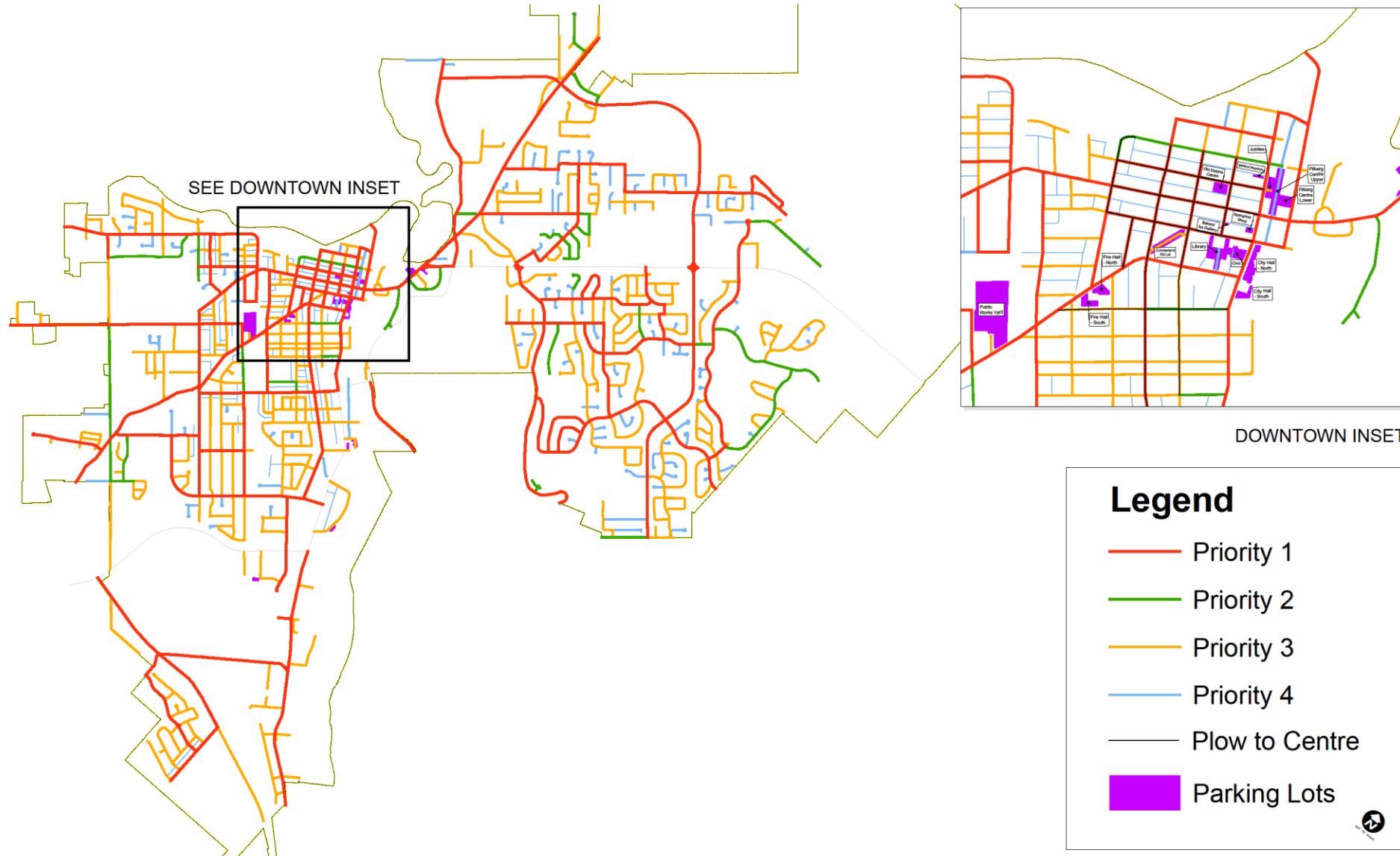
*It may take multiple rounds to clear a road due to ongoing snowfall.

Street Clearing

The City clears snow from roads in order of priority:

1. Arterial and major collector roads, emergency services facilities, bus routes and the downtown core commercial area
 2. Minor collector roads, streets with steep hills, school zones
 3. Local roads
 4. Cul-de-sacs and lanes
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Street Clearing Map



Sidewalk Clearing

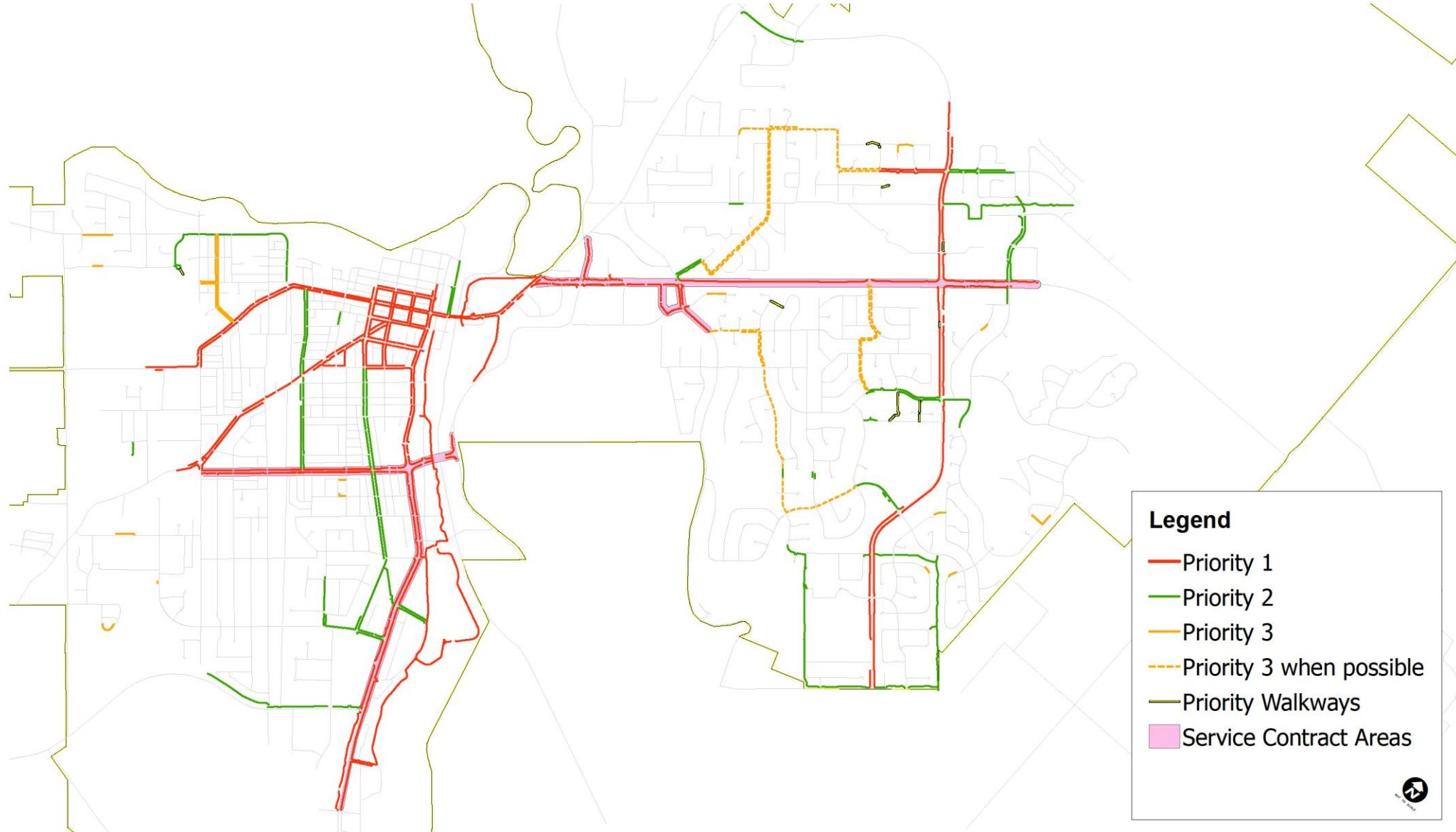
The City clears snow from sidewalks on high volume pedestrian routes where mechanical clearing is possible.

This includes arterial roads, the downtown core, park frontages, transit areas, sidewalks adjacent to emergency and municipal facilities, separated bike lanes and prioritized paved walking trails.

Snow is also cleared from sidewalks on collector roads without residential homes where mechanical clearing is possible.



Sidewalk Clearing Map



Next Steps

Snow & Ice Control Policy Update: 2023

