Waste and Recycling Disposal Service Requirements for New Residential Developments

Introduction

This document applies to all residential building/development applications and outlines the minimum design criteria required to facilitate waste and recycling collections as per *The Waste Bylaw, 8310*.

The information contained herein is specific to residential properties only. For mixed use developments which contain both residential and commercial units, this document should be used to evaluate the waste and recycling requirements for the residential portion only. Commercial waste and recycling needs must be addressed on a site-specific basis.

This document is not intended to provide solutions for specific design problems, but rather to inform residential property developers of the minimum design criteria required to ensure civic collection of waste and recycling materials. This document is to be used in conjunction with, not in place of, all applicable building codes and City of Saskatoon design standards and specifications. It should also be noted that the City reserves the right to enact additional requirements during a detailed review of specific developments.

Residential developments which do not follow the minimum design criteria may result in the inability for civic collection for waste and/or recycling services and may require site alterations to accommodate collection requirements.

To have development plans reviewed directly, please contact Waste Stream Management at 306-975-2486 or garbage@saskatoon.ca. Development plans submitted directly will be reviewed by a specialist to assess:

- Access and egress routes,
- Truck turning movements,
- Loading facilities (i.e. staging area),
- Waste and recycling storage facilities (i.e. enclosures),
- Size and number of waste and recycling containers.

The document is structured into three sections:

i. General building and site development requirements
ii. Single-family developments and townhouses including one-unit dwellings, two-unit dwellings, semi-detached dwellings, street-facing townhouse dwellings, and townhouse complexes.
iii. Multi-family developments consisting of three or more dwelling units including townhouse complexes which cannot accommodate curbside collection. A multi-unit dwelling does not include a motel, hotel, converted dwelling, street townhouse or townhouse.

General Site Development Requirements for Collection of Waste and Recycling

The following design criteria apply to all development types:

1. Every residential site must provide space for waste and recycling service.

2. Collection Vehicle Access.
    - The collection area must be clear of any overhead obstructions including building overhangs, awnings, balconies, trees and tree branches. All bin or cart collections near overhead power or communication lines must allow for vehicle clearance as set out in *The Occupational Health and Safety Act* or the Saskatoon Light & Power Service Guide, whichever is more stringent.
    - A collection vehicles travel route must have a minimum width of 5 metres and a height clearance above the paved surface or roadway of 5 metres and must be clear of any obstructions including parking stalls, power poles, trees, retaining walls, telephone poles, fences, hydrants, material storage, etc.
    - The travel route should accommodate turning radii of 10 metres inside and 12.8 metres outside.
    - All paved surfaces, concrete pads, aprons, approach areas, and parking structures within the collection route must be able to support the weight of a loaded collection vehicle (approximately 27,000 kg).
    - Collection areas in private housing complexes must be paved for civic collection.
    - All collection areas must be clean and relatively level (i.e. less than 2% grade).

    Typical collection vehicle information can be found in Appendix A.

3. Site development plans should include the following:
    - The location of any proposed recycling and waste storage, staging, and collection areas must be indicated with metric dimensions and scale, and labeled as “Recycling”, “Waste” or “Recycling and Waste”.
    - The proposed collection route with travel directions - demonstrating how collections vehicles will move through collections routes. NOTE: All proposed collection routes must not include backing up onto any lane, roadway, or pedestrian crossing. Additionally, minimal backing up is preferred as it will mitigate hazards for personnel, pedestrians and property.

Single-Family and Townhouse Developments

Individual roll-out carts provided by the City (waste) or contractor (recycling) designed for automated curbside collection measure 0.4 cubic metres.

Residential dwellings eligible to receive automated cart collection include:

- One-unit dwellings;
- Two-unit dwellings;
- Semi-detached dwellings;
- Street-facing townhouse dwellings; and
- Townhouse complexes.

NOTE: Recycling collection is a mandatory program for residential developments. Individual bins are required for each dwelling unit on the property.

Cart Storage and Access:

1. Enclosures are not permitted for roll-out carts at any collection location.
2. Residents must be able to easily roll carts from the storage area to the collection area. Any gates that may be necessary to facilitate this are required and must be sized appropriately. Typical cart dimensions are:

   Depth = 1.02m; Width = 0.81m; Height = 1.22m

   Note: cart dimensions are approximations only and may change depending on supplier specifications.

3. Carts are to be stored wholly on private property.
4. Greenfield developments (or development in new neighbourhood) are required to have front street collection.
5. On collection day,
   a. Roll-out carts are to be placed on level surface at least 1.3 metres from any obstruction (i.e. parked vehicles, other carts, fences, power poles, trees, etc.) and positioned so that they will not be likely to overturn;
   b. The travel path for a collection vehicle must be clear of any obstructions that would inhibit the ability for waste or recycling collection.

Other Considerations – Organics

The City of Saskatoon offers a green cart program to residents of single family developments on a voluntary basis (for a fee). Although this is not a mandatory program at this time, it may be prudent to consider space requirements for an additional green cart.

Multi-Family Developments

Residential properties eligible for the multi-unit residential recycling program include multi-unit dwellings comprised of three or more dwelling units.

Multi-unit residence waste and recycling service requires sufficient communal bins to provide a minimum of 0.15 cubic metres and a maximum of 0.3 cubic metres of bin space for each dwelling unit in the multiple-unit dwelling.

- For example, a proposed multi-unit development of 30 units would require a 6 yard metal container for each type of service (i.e. waste and recycling).

$$30\ units\ \times 0.15\ m^3 =\ 4.5\ m^3\ or\ one\ 6\ yard^3\ metal\ bin$$

Metal Bin Storage and Access:

1. Enclosures are permitted for metal bins under the following conditions:
    a. A minimum of 1 metre of open space is required between the bin pocket and each enclosure side including the back.
    b. A minimum of 2.5 metres of open space is required between the top of the bin and enclosure roof.
    c. Open vertical space of 7.0 meters is required to accommodate collection height during tip.
    d. Any gates on the enclosure must be fully opened on collection day providing unobstructed access to the metal bin.
        i. Gate openings must provide a minimum of 1.3 metres of horizontal distance from the vehicle collection pathway.
        ii. Enclosure gates out-swing is not to encroach into any City right-of-way.
        iii. Access to the enclosure should be designed to minimize conflict with adjacent parking stalls, and vehicle or pedestrian traffic.
2. The design of the staging area should not require jockeying of containers by the driver. If jockeying of containers is necessary, a property representative must be present on collection day to manoeuver the containers for the driver. City drivers do not exit/leave the collection vehicle as a matter of procedure.
3. All staging areas must be fully encompassed on private property.
4. Sites with multiple internally located collection points must demonstrate that all locations can be serviced in a continuous traffic pattern from the point of entry to the exit of the site.
5. On collection day, the travel path for a collection vehicle must be clear of any obstructions that would inhibit the ability for waste or recycling collection.

Metal Bin Colour and Labelling:

1. All storage, staging, and collection areas for waste and recycling metal bins must be clearly labelled for specific use of that area. As a general rule:
    a. Blue denotes recyclable materials;
    b. Green denotes organic materials;
2. If recycling and waste bins are stored in the same area, signage must be provided within that area to distinguish between storage of different material types.
3. If recycling and waste bins are stored in separate areas, each storage area must be clearly labelled to distinguish between the two material types.

If the metals bins located on site do not accommodate prescribed colour scheme, proper labelling of each bin is required. Decals for recycling bins can be provided by contacting recycling@saskatoon.ca.

The City of Saskatoon does not provide, rent, or sell metal waste bins. Property owners are required to supply their own metal waste bins.

Appendix A: Dimensions

NOTE – dimensions provided below are for approximate consideration only actual vehicle and container sizes may vary.

Multi-Family Developments – Front-End Collection:

Approximate Front-End Collection Truck Dimensions	
Length	10.0 m – 12.0 m
Width	3.0 m
Minimum inside turning radii	10.0 m
Minimum outside turning radii	12.8 m
Height clearance (when dumping bin)	7.0 m
Height clearance (on approach and exit)	5.5 m
Width clearance	5.0 m
Length clearance	15.0 m

Front-End Metal Bin Dimensions (approximate):

Container Size (Cubic Yard)	**Typical Metal Bin Dimensions**		
	Length (m)	**Width (m)**	**Height (m)**
2	1.8	0.9	1.0
3	1.8	1.4	1.3
4	1.8	1.8	1.3
6	1.8	1.8	1.5
8	1.8	1.8	2.1