

## CITY OF KIRKLAND

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### DEPARTMENT OF PUBLIC WORKS PRE-APPROVED PLANS POLICY

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#### **Policy G-9: GARBAGE AND RECYCLING RECEPTACLES AND ENCLOSURES**

Applicant must submit plans for garbage storage and service to City of Kirkland Public Works and Waste Management. WM must review and approve plans for serviceability once plans are approved by the City.

#### **SINGLE FAMILY**

One- or two-unit developments (single family homes and duplexes) will have single family cart-based garbage service. Single family homes that are adding one or two Accessory Dwelling Units (ADUs), are still considered single family for garbage service. Single family homes should plan for storage space for three carts – garbage, recycle, and compost. Carts must be placed at the curb for service and returned to private property for storage per the placement requirements in KMC 16.08.070.

#### **3+ UNITS**

Kirkland Zoning Code Chapter 115.45 requires all new multifamily, mixed use, and commercial structures to provide adequate and convenient space for the collection, storage, loading, and pickup of garbage, recyclable, and compostable materials. KMC 16.08.012 (F) indicates that adequate space means space for equal capacity of garbage and recycling collection, and space for food and yard waste compost carts. Container placement requirements are described in KMC 16.08.075. All garbage, recycling, and compost containers must be stored on private property and collection must occur on private property, when feasible.

Each Commercial/Multifamily development must submit a letter with permit submittal with a plan for garbage and recycling containers and enclosure(s)/garbage room(s) detailing:

- How garbage, recycling, and compost will be stored and managed for building's tenants.
- Drawings with illustration / reference to garbage, recycling, compost storage and handling areas. Show the storage areas internal and external to the building, compactors, enclosures, roof cover if any, and sewer drain connections if any.
- Calculations for storage area space and number of containers for each waste type relative to occupants served (see standards below).
- Collection truck access route on the property.
- Serviceability letter from Waste Management.

#### **Cottages/Townhomes (3+ units)**

Cottages, Townhomes or other small multi-unit developments that have three or more units are considered multifamily for garbage service. Multifamily service requires one HOA or main account that will be billed for shared garbage service. Multifamily garbage service can be provided in carts or dumpsters and includes recycling service at no cost. Plans must provide space for equal size garbage and recycling containers, and must include space for a compost cart. The account holder may choose to subscribe to food/yard waste cart-based service.

All garbage, recycling, and compost containers must be stored on private property and

collection must occur on private property, when feasible. Private access roads must be built in accordance with Pre-Approved Plan CK-D.37 (Utility Access Road Cross Section), to allow for service from Waste Management trucks. If on-site collection is not possible, containers may be brought to the Right-of-Way curb for service.

### **Commercial/Multifamily Developments (3+ units)**

When constructing new garbage and recycling enclosures and garbage rooms, the Storage Space Area and Volume Requirements criteria stated below shall be met.

While not required, it is strongly recommended that detachable containers (dumpsters) be used for the collection of both garbage and recyclables.

Discharges from garbage, recycling, and composting containers are prohibited from entering the storm drainage system per KMC 15.52.090 and may be prohibited from entering the sewer system per KMC 15.36.030.

For standard enclosure design plan examples, see CK-G.01. Enclosures shall substantially comply with the referenced plan diagrams, but alternative configurations may be approved by the City when site constraints exist. Waste truck accessibility to enclosures is limited by the turning radius templates shown in CK-G.02.

### **Storage Space Area Design Standards and Capacity Requirements**

- (1) The total weekly capacity of all recycling dumpsters and/or carts shall be equal to or greater than the total weekly capacity of the garbage dumpsters and/or carts. Total weekly capacity equals the size of all garbage or recycling containers expressed in cubic yards x number of service days per week.
- (2) Each enclosure shall provide space for at least two (2) 64-gallon compost collection carts and cooking oil recycling containers, if applicable.
- (3) The minimum required area for the collection and storage of refuse and recyclable materials shall be at least 150% the sum of the dumpster and/or cart footprints to be contained within.

*Example 1: A property has a 3-cubic yard (4' x 6') garbage dumpster serviced once per week and a 4-cubic yard (5' 6" x 6') recycling dumpster serviced once per week. The enclosure area required is calculated as follows:*

$$(4 \times 6) + (5.5 \times 6) + (2 \times 4.5) = 66 \text{ square feet}$$
$$66 \text{ square feet} \times 150\% = 99 \text{ square feet minimum required enclosure area}$$

*Example 2: A property has a 6-cubic yard (6' x 6') garbage dumpster serviced once per week and six 96 gallon recycling carts serviced twice per week. The required enclosure area is calculated as follows:*

$$(6 \times 6) + (6 \times 6.3) + (2 \times 4.5) = 82.8 \text{ square feet}$$
$$82.8 \text{ square feet} \times 150\% = 124.2 \text{ square feet minimum required enclosure area}$$

- (4) Containers for refuse and recyclable materials shall be located adjacent to one another within the same enclosure.

- (5) Multifamily properties utilizing chutes must provide separate garbage and recycling chutes, in addition to space for a food waste compost collection container. Combined diverter chutes are not allowed. It is recommended that garbage rooms include space for a cart or carts for broken down cardboard boxes. If chutes are designed, ongoing maintenance and operations should be considered. Property managers should be prepared to dedicate staff time and budget for regular chute maintenance and cleaning. Many properties also recommend annual or semi-annual pressure washing.
- (6) Enclosures shall be designed to provide adequate, safe, and efficient accessibility for service vehicles. All service vehicle access openings shall be at least 10' 6" wide.
- (7) Enclosures shall be equipped with lockable gate doors that open with a minimum 90 degree swing. Enclosure doors must have gate stops in the ground for wind. Any roofed structure over enclosures for dumpsters shall have a vertical clearance of 14 feet. The maximum slope of the enclosure area shall be 2% unless otherwise approved by Public Works.
- (8) Enclosures shall be designed to allow walk-in access without having to open the main enclosure service gate(s).
- (9) Enclosures should be convenient for residents and businesses. In general, enclosures or garbage rooms should be provided within 200'-300' of each resident/business.
- (10) Enclosure areas shall be constructed on a level concrete or suitable equivalent hard-surfaced pad. The grade of the pad shall not exceed three (3) percent.
- (11) Enclosure areas shall include a precast wheel stop or other approved barrier. Storage areas shall be designed to be easily accessible to collection trucks and equipment, considering paving, grade and vehicle access. Where direct truck access to a storage area is not possible, the grade and ramp design shall consider the weights and size of containers that can reasonably and safely be managed for roll-out to an accessible truck loading location. Containers must be 4 yards or less to be rolled out for service. Compacted containers must be staged for service by property maintenance or motorized pushcarts/jacks must be provided for moving containers.
- (12) The enclosure space shall not be used for purposes other than for the storage and collection of refuse and recyclable materials.
- (13) Garbage and Recycling Receptacles and Enclosures Serving Commercial Restaurants & Food Services Establishments  
All food compactor and garbage enclosure areas should drain to sanitary sewer. The enclosure area should be graded to a drainage structure(s) with a tee-pipe on the outlet pipe with a removable cap, followed by a running trap and cleanout for maintenance and prevent sewer gases from escaping.
  - Enclosure areas less than (<) 200 sq ft should be bermed or enclosed to contain spills and leaks and prevent stormwater run-on contamination.
  - Enclosure areas more than (>) 200 sq ft should be covered and bermed or enclosed to contain spills and leaks and prevent stormwater run-on contamination. Any roofed structure over enclosures for dumpsters shall have a vertical clearance of at least 14

feet. The maximum slope of the enclosure area shall be 2% unless otherwise approved by Public Works. Depending on the location of the enclosure area in relation to a building, the covered area may need to be equipped with fire sprinklers (see 2012 IFC 304.3.3 & 304.3.4).

In the absence of sanitary sewer access the area must be covered and drain to a regularly-maintained dead-end sump. The enclosure area should be graded to the drainage structure(s) with a tee-pipe on the outlet pipe and a removable cap, followed by a running trap and cleanout for maintenance and prevent sewer gases from escaping.

**NOTE**

**Liquid wastes should have secondary containment sufficient to hold a volume of either ten (10) percent of the total enclosed container volume or 110 percent of the volume contained in the largest container.**

**Available Cart Specifications:**

	<u>Dimensions (w x d)</u>	<u>Footprint (sq ft)</u>	<u>Cubic Yard Equivalent</u>
20-gal cart	19" x 24"	3.2 sq ft	.10 cy <sup>3</sup>
35-gal cart	19" x 24"	3.2 sq ft	.17 cy <sup>3</sup>
64-gal cart	24" x 27"	4.5 sq ft	.30 cy <sup>3</sup>
96-gal cart	26" x 35"	6.3 sq ft	.50 cy <sup>3</sup>

**Available Dumpster Specifications:**

	<u>Dimensions (w x d)</u>	<u>Footprint (sq ft)</u>	<u>Configuration</u>
1 cubic yard	6' x 2' 5"	14.5 sq ft	Casters or no casters
1.5 cubic yard	6' x 2' 6"	15 sq ft	Casters or no casters
2 cubic yard	6' x 3'	18 sq ft	Casters or no casters
3 cubic yard	6' x 4'	24 sq ft	Casters or no casters
4 cubic yard	6' x 5' 6"	33 sq ft	Casters or no casters
6 cubic yard (flat top)	5' x 6'	30 sq ft	No casters
6 cubic yard (slant)	6' x 6'	36 sq ft	No casters
8 cubic yard (flat top)	5' 6" x 6'	33 sq ft	No casters
8 cubic yard (slant)	5' 6" x 6'	33 sq ft	No casters