City of Gresham
Recycling & Garbage Collection Service Planning Matrix

This document is intended to serve as a resource to City of Gresham Development Planners, private developers, architects and others in determining the minimum space that should be included for recycling and solid waste collection areas in plans for commercial and multifamily developments. These are guidelines based on actual service levels at existing developments. They should be used in conjunction with the relevant sections of the Gresham Development Code and the Gresham Revised Code referenced below.

Development Code provisions pertaining to solid waste collection areas

See Section 7.0212 -- Standards for Solid Waste Recycling and Service and Collection Areas for new Multi-Family, Commercial and Industrial Development

Gresham Revised Code provisions pertaining to solid waste collection areas

See Chapter 7.25.415 -- Location of Receptacles and Standards for Collection Area (Customer)

Enclosure Roof Height

City code regulates how stormwater run-off must be handled at new commercial, industrial, and multifamily developments. Development applicants should consult the City's Development Engineering staff for complete information on these requirements. It is important to note that if a developer intends to build a roof over a garbage and recycling collection enclosure as a means of meeting these requirements, the height of the roof and configuration of the enclosure must be compatible with the solid waste hauler's collection equipment. The development applicant and the hauler should collaborate as early as possible during the project design phase to address roof height and enclosure configuration issues.

Cost Efficiency and Environmental Sustainability

The least expensive solid waste collection service for the owner or tenant of a commercial, industrial, or multifamily property is one that minimizes the number of service stops per week. Service of a larger container collected less frequently provides a business or apartment owner with the opportunity to save a considerable amount of money over time compared to service with a smaller container serviced more frequently. Enclosures, and the truck access to them, should be designed to allow for this more cost-effective service. Refer to the Development Code and Gresham Revised Code provisions noted above for more information on the design parameters.

The City of Gresham is committed to helping build a more sustainable community, one that minimizes its use of natural resources, protects the environment, and creates a healthy and positive setting for its residents. Reducing the frequency of solid waste collection service, as described above, contributes to that by reducing truck trips and their corresponding traffic and emissions impacts.

Contact Information

City of Gresham Development Planning	503-618-2842
City of Gresham Development Engineering	503-618-2424
City of Gresham Recycling & Solid Waste	503-618-2624
Solid Waste Hauling Companies	

Visit: GreshamOregon.gov/Recycling-and-Solid-Waste

What to avoid

Inadequate size. If the enclosure is too small, people tend to leave bins outside, which is not allowed. If the containers are jammed inside a small enclosure, it is very difficult for collection staff to remove them for trash and recycling collection.
A larger enclosure provides room to allow flexibility in changes in service. **Food generating businesses will need room for food scrap collection containers and oil collection.**

Poor siting. An enclosure at the end of an alley or in a place without adequate maneuvering room for service vehicles creates a dangerous situation for collection staff, as well as for vehicles and pedestrians. Typically, there is no other person aboard a garbage truck to guide the driver out of a narrow driveway or around a blind corner.

Inadequate gates. The gates need to be large enough to pull a container straight out. For most commercial structures, this means a 20-foot wide opening. Gates that do not lock in the open position can swing shut.

Inadequate pad. A Portland cement concrete pad minimizes damage caused by the containers. It should be level and well-drained. The percent of grade for access to the pad shall not exceed 3%.

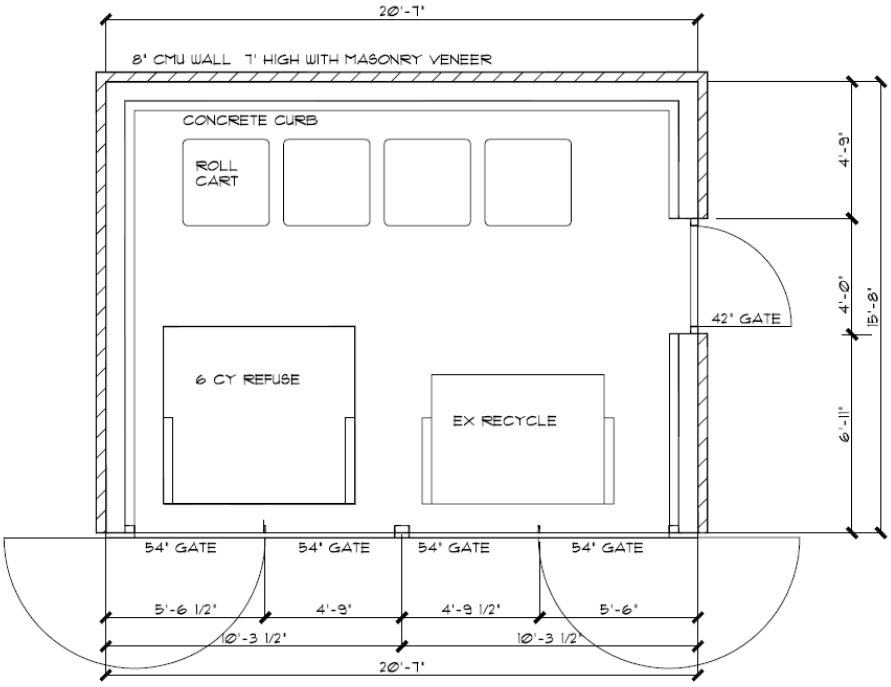
Failure to post no parking signs. Garbage and recycling trucks typically arrive early in the morning, but this is not always the case. If other vehicles are parked in the way it may be impossible to collect the trash or recycling.

No bumpers. Bumpers on the ground or mounted on walls in the interior of the enclosure protect it from the impacts of the heavy containers.

Enclosure Designs

Plans submitted to the City should detail the location and size of the enclosure to demonstrate meeting the standards for Solid Waste Recycling and Service and Collection Areas. The plan should also show container footprints to demonstrate the enclosure is large enough for collection equipment. See Receptacle Sizes on page 6.

Applicants can contact the Solid Waste manager for assistance to determine the best service level and size of containers needed. 503-618-2624



MULTIFAMILY PROPERTIES

	Capacity per Living Unit per Week	*Notes on Equipment*
Garbage Service	0.36 cubic yards	Larger containers collected less frequently is more cost-effective and environmentally sound than smaller containers collected more frequently.
Recycling -- Paper/Cardboard/Container Mix	0.08 cubic yards	Sized for adequate capacity for once-per-week collection.
Recycling -- Glass (Recycling capacity assumes 1 collection per week)	0.003 cubic yards	60-gallon carts.

Refer to Gresham Revised Code 7.25.415(3)(b) & (c) for recycling service requirements at multifamily properties.

COMMERCIAL PROPERTIES

	Garbage Capacity per Week	**Most Cost-Effective and Sustainable Garbage Service**	**Paper, Cardboard & Containers Recycling Capacity**	**Glass Recycling Cart Capacity**	**Food Recycling Capacity**
Auto Repair	6 cubic yards	One 6-yard container once per week	6 cubic yard container	35 gallons	---
Bakery	3 cubic yards	One 3-yard container once per week	6 cubic yard container	35 gallons	2 yards
Bank	3 cubic yards	One 3-yard container once per week	6 cubic yard container	35 gallons	---

	Garbage Capacity per Week	Most Cost-Effective and Sustainable Garbage Service	Paper, Cardboard & Containers Recycling Capacity	Glass Recycling Cart Capacity	Food Recycling Capacity
Church	4 cubic yards	One 4-yard container once per week	4 cubic yard container	35 gallons	1 yard
Convenience Store	6 cubic yards	One 6-yard container once per week	6 cubic yards	65 gallons	1 yard
Gas Station/Mini-Mart	4 cubic yards	One 4-yard container once per week	6 cubic yard container	65 gallons	1 yard Depending on waste stream
Grocery Store		Compactor	Compactor for cardboard plus 6 cubic yard container	65 gallons	15-20 yards
Hotel/Motel	12 cubic yards	Two 6-yard containers once per week	6 cubic yard container	65 gallons	4 yards
Medical	0.0006 cubic yards per square foot of building area	Largest containers and fewest pick-ups per week	6 cubic yard container	65 gallons	With cafeteria only– 2 yards With patient room material – 8 yards
Nursing Home	0.0006 cubic yards per square foot of building area	Largest containers and fewest pick-ups per week	6 cubic yard container	95 gallons	With cafeteria only – 2 yards With patient room material – 4 yards
Office	0.03 cubic yards per employee	Largest containers and fewest pick-ups per week	0.04 cubic yards per employee	65 gallons	1 yard

	Garbage Capacity per Week	Most Cost-Effective and Sustainable Garbage Service	Paper, Cardboard & Containers Recycling Capacity	Glass Recycling Cart Capacity	Food Recycling Capacity
Restaurant – Stand- alone Fast Food	18 cubic yards	Three 6-yard containers once per week	6 cubic yard container	65 gallons	Kitchen material only – 2 yards Kitchen & Customer material – 4 yards
Restaurant – Stand- alone Sit-Down	24 cubic yards	Four 6-yard containers once per week	6 cubic yard container	95 gallons	4 yards
Retail Center	20 cubic yards per each retail space	Largest containers and fewest pick-ups per wee	6 cubic yards per each retail space	95 gallons	4 yards per potential restaurant
School – Elementary	12 cubic yards	Two 6-yard containers once per week	8 cubic yards	65 gallons	2 yards
School -- Middle	18 cubic yards	Three 6-yard containers once per week	12 cubic yards	65 gallons	4 yards
School – High	24 cubic yards	Three 6-yard containers once per week	12 cubic yards	65 gallons	4 yards

Cooking Grease

Businesses that generate cooking grease should also plan for collection of that material from an appropriate collection company. Collection container sizes are provided in the last chart. Grease containers should have its own area if placed in the enclosure.

Industrial & Light Industrial Facilities

Service standards are not provided for Industrial and Light Industrial facilities because of their unique characteristics. Developers of such facilities or any other commercial facilities not listed above should consult with the designated franchised solid waste hauler to determine expected solid waste services.

Receptacle Sizes – Garbage & Recyclables

Volume	***Foot Print***	***Height***
35-gallon cart (.20 cubic yard)	21” W x 24” D	39 inches
65-gallon cart (.34 cubic yard)	27" W x 29" D	41 inches
95-gallon cart (.52 cubic yard)	30" W x 34.0" D	46 inches
1 cubic yard	84” W x 24” D	37.5 inches (with casters)
1.5 cubic yards	84” W x 36” D	43.5 inches (with casters)
2 cubic yards	84” W x 36” D	49.5 inches (with casters)
3 cubic yards	84” W x 45” D	55.5 inches (with casters)
4 cubic yards	84” W x 54” D	61.5 inches (with casters)
6 cubic yards	84” W x 68” D	60 inches (no casters)
10-yard drop box	8’ 3” W x 12’ D	54 inches
20-yard drop box	8’ 3” W x 16’ D	72 inches
30-yard drop box	8’ 3” W x 20’ D	81 inches
40-yard drop box	8’ 3” W x 24’ D	103 inches

Receptacle Sizes – Cooking Grease – needs separate area if in the enclosure

Volume	*Foot Print*	*Height*
106 gallons	33” W x 33” D	36 inches
208 gallons	60" W x 33" D	36 inches
294 gallons	60" W x 43" D	36 inches

Site details demonstrating truck access.