

Design Requirements for Solid Waste Recycling Collection in Townhome Complexes

	Option A: Front-load Bins in Enclosures		Option B: Individual Cart Set-out at Each Unit		Option C: Centralized Carts, Enclosed or Central Locations	
	Specifics	Description	Specifics	Description	Specifics	Description
<b>Turning Radius</b>	Front-load garbage truck: 26 inner, 41 outer. Recycling truck: 32 ft. inner, 47 ft. outer: Street widths must allow for adequate turning radius.	Applicable to intersections, turns & streets leading to and away from central enclosures and designated turnouts	Minimum truck turning radii: 33 ft. inner radius & 48 ft. outer radius. Street widths must allow for adequate turning radius.	All intersections, turns & streets: sufficient for side-load residential collection vehicles to navigate streets lined with garbage & recycling carts on both sides.	Minimum truck turning radii: 33 ft. inner radius & 48 ft. outer radius. Street widths must allow for adequate turning radius.	Applicable to intersections, turns & streets leading to and away from central collection points and designated turnouts
<b>Street Widths: collection and travel</b>	Minimum 16 ft. The street width may vary at intersections and turns to allow for adequate turning radius.	Along access route to central enclosure	Minimum 22 ft. wide for collection operations. The street width may vary at intersections and turns to allow for adequate turning radius.	As required for vehicles to safely service carts and travel all streets. Accommodates truck, 7.8 ft. total space for cart set-out (split between both sides of street), operational space and safety envelope.	Minimum 16 ft. on straight-aways. Collection points: 17 ft. minimum. The street width may vary at intersections and turns to allow for adequate turning radius.	Along access route to central collection points
<b>Horizontal and Vertical Clearances</b>	<ul style="list-style-type: none"> <li>Horizontal travel clearance: 16 ft.</li> <li>Vertical loading clearance 20 ft.</li> </ul>	Applicable to streets leading to or away from central enclosures and set-out areas. Balconies, landscaping or other elements shall not encroach into approved horizontal or vertical clearances for vehicle travel, backing, loading, or other operations along any streets.	<ul style="list-style-type: none"> <li>17 ft. horizontal operating/travel clearance</li> <li>15 ft. vertical clearance</li> </ul>	All streets. Balconies, landscaping or other elements shall not encroach into approved horizontal or vertical clearances for vehicle travel, backing, loading, or other operations along any streets.	<ul style="list-style-type: none"> <li>Horizontal clearance: 16 ft. travel, 17 ft. for loading at central collection areas.</li> <li>Vertical clearance: 15 ft. travel and loading</li> </ul>	Applicable to streets leading to or away from central enclosures and set-out areas. Balconies, landscaping or other elements shall not encroach into approved horizontal or vertical clearances for vehicle travel, backing, loading, or other operations along any streets.
<b>Pavement</b>	Build to standards suitable for two 25 ton vehicles accessing central collection points on service days.		Build to standards suitable for two 25 ton vehicles traveling down all streets twice each service day.	Alternatively, responsible party or HOA to provide waiver (recorded with property) for potential damage caused to private streets over time by normal hauler operations	Build to standards suitable for two 25 ton vehicles accessing central collection points on service days.	
<b>Stress Pad</b>	Same as Central Carts	A stress pad is required in front of enclosures sufficient in size to support the front wheels of collection vehicles during loading.	N/A	N/A	None for central staging areas	
<b>Storage</b>	N/A	N/A	Per Cart*: 5.75' W x 3.5' D x 7' H (20 sq. ft., 140 cubic ft) Additional 50 sq. ft. shall be provided for storage of two carts in the garage	Includes 4" buffer on all sides and 7 ft. vertical clearance to open lids.	If stored in townhome units, same as individual carts.	
<b>Container Clearance (through doors or gate, such as to side yard or enclosure)</b>	10 ft. service door. ADA compliant pedestrian door.	N/A	3.25 ft.	Provides a 4" buffer on each side of cart through door or gate	3.25 ft. if stored at townhome unit. Enclosures: 4 ft. clearance through door	Same as Individual Carts if stored in garages/side-yards. Central enclosures: combination service/residential access door.
<b>Setout Area</b>	N/A	N/A	2 Carts*: 10.75 ft. x 4 ft.	Provide sufficient linear space for 2 carts per unit. Two-feet required between each cart and a 2 ft. buffer between setout area and other carts, vehicles or obstructions.	Central staging along street: 2 Carts*: 10.75 ft. x 4 ft. Enclosures: size is dependant upon number of carts.	Same set-out space as Individual Carts if staged on main street or other central area. Sufficient space within enclosures for 2 carts per unit (depends on service). To include a 4 ft. aisle and one-foot buffer between carts and walls or other structures.

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<b>Screening from View</b>	Minimum 6 ft. High enclosures w/solid decking on doors	All containers to be screened from view by passersby as well as from upper floor windows	N/A	N/A	<ul style="list-style-type: none"> <li>• Enclosures: Minimum 6 ft. high enclosures w/solid decking on doors</li> <li>• If carts are staged along main road, remove from public view after service.</li> </ul>	When central enclosures are used, all carts to be screened from view by passersby, as well as from upper floor windows.
<b>Truck Turnouts</b>	Collection vehicles will not access dead-end townhome streets longer than 50 ft. Number of turnouts to be determined based upon site layout, number of units, and other factors.	Where driveways do not extend from street to street, a turnaround area for collection vehicles shall be provided so vehicles do not have to back up in townhome complexes.	Same	Same	Same	Same
<b>Distance from Units</b>	Maximum 150 ft.	Per section 19.38.030	N/A	N/A	Maximum 150 ft.	Per section 19.38.030
<b>Enclosure Materials</b>	Recycling and solid waste enclosures shall be constructed of wood or masonry compatible with the main structure		N/A	N/A	Where applicable, enclosures shall be constructed of wood or masonry compatible with the main structure	
<b>Minimum Enclosure Dimensions</b>	Minimum interior dimensions, one bin: 12.5 x 9ft. Two bins: 13 x 12.5ft.	Enclosures to be sized to minimize frequency of truck trips on property.	N/A		Dependant upon number of carts and location.	
<b>CCRs</b>	Keep enclosure doors closed, deposit all material inside containers and not on floor, other.	Store all containers out of view	Store carts out of view except for service days		Same	

\*Two carts are typical; however an additional cart for yardwaste is available where extensive landscaping would require service