

SECTION 11170 - WASTE HANDLING EQUIPMENT AND RECYCLING

PART 1 - GENERAL

1.1 SCOPE OF SECTION:

This section contains the requirements relating to the facilities and equipment necessary for collecting and handling waste materials whether disposed of or recycled.

1.2 WASTE MATERIALS HANDLING AND RECYCLING

Provisions must be made for waste materials handling, and recycling, both on the inside and outside of buildings. While the needs of different buildings vary according to their function and size, the following are generally required:

A. REFUSE DISPOSAL FACILITIES: A minimum of one dumpster pad [or interior refuse chutes and trash room], located so as to permit safe and convenient servicing by a standard 36 cubic yard front-end loader garbage truck.

1. Typical requirement includes a **dumpster pad** made with 3000 psi concrete reinforced with welded wire mesh that is approximately 8-ft x 8-ft x 6-in thick with a surface slope of 1/8" per foot for drainage and approximately 40-ft long x 10-ft wide straight-in approach drive for the refuse truck. Overhead clearance at the site must be at least 22 feet (14.5 feet on approach drive). A full width rear block to guide dumpster placement should be provided. On dumpster pads provide a row of three (3), 4 inch minimum diameter by 48 inches high, filled with concrete steel pipe posts (bollards) set on 30 inch centers per dumpster, and set in concrete to 24 inches below the top of the pad.
2. Larger facilities may require an additional pad or compactor-type refuse container installation.
3. Due to campus growth and changes in building functions, new structures may need to incorporate provisions for management of waste generated by adjacent facilities. Consult with PPD Solid Waste Coordinator for consideration of special needs and design considerations.
4. Dumpster pads shall be located away from public open space and greenways, and shall be hidden from public view by landscaping or an architectural barrier. Dumpsters located near public areas and the Historic District shall be enclosed with a solid fence or wall and shall be gated to screen the side with truck access.

B. SUPPORT FACILITIES:

1. Exterior Service Area: An exterior service area with access and parking for service vehicles and delivery vans.
2. Service Area: A service entrance suitable for admitting large furniture and equipment and with easy access to an elevator.
3. Loading Dock: A loading dock for larger buildings and buildings whose function involves the frequent receipt and issue of heavy items/materials delivered by trucks [including printing materials, books, research equipment, stage sets, special-event furnishings and

equipment, etc.]

4. Materials Handling Area: An interior materials handling area for the temporary storage of deliveries and recyclables, bulky refuse, and other materials awaiting pick-up or shipment is required. Verify size and location with user.
- C. RECYCLING: Recycling requirements vary with facility function, but the following general requirements apply.
1. Residential Facilities:
 - a) Per Unit: Allow interior space to accommodate containers for both garbage and recyclable materials [typically cans, glass, paper and plastics].
 - b) Per Facility: Provide an exterior vehicle-accessible pad or enclosure adjacent to refuse area for placement of collection containers for paper, cans, glass and other recyclables. Typically, allow two 6-ft x 8-ft x 6-in thick pads per 200 residents (including family members): one for a paper container [a dumpster], the second for bins for other recyclables.
 2. Administrative/Academic Facilities: Typically generate only paper products and beverage containers. Provide recessed areas in corridors for placement of collection containers for garbage, paper, and cans/bottles.
 - a) Typical space requirement is 4 sq. ft./container (2-ft x 2-ft). Generally allow for 1 refuse, 1 paper, and 1 can container [12 sq.ft] per 50 permanent building occupants and per 200 student spaces.
 - b) Additional paper collection containers will be required in major office suites and copy centers, typically 1 per 20 permanent employees plus 1 per major copy center.
- D. REFUSE VEHICLE ACCESS: Service drives and dumpster/refuse compactor placement must accommodate the following refuse collection vehicle characteristics: Gross vehicle weight- 65,000 pounds (three axle); Turning radius- 65 feet; Travel width (w/mirrors)-10 feet; Alignment space- 40 feet in front of dumpster/compactor.

END OF SECTION