



DATE: October 28, 2009

FROM: Ian M. Salada *IS*

TO: Telecommunications & Software Support

RE: Design and Construction Standards Update

DIVISION(S): 01

SECTION(S): 01 05 *05*

CLH

REC'D OCT 29 2009

Completed

OCT 30 2009

Minor change to correct format problem or typographical errors
No entry in the revision log required

Revision Log Entry Required

Description of Change: Update dumpster location requirements and compactor requirements.

Copy of changes sent via email also
clh291
cal9

Modify Section 01 05 05 per the following (deletions are shown struck through and additions are double underlined). Remainder of section is unchanged.

01 05 05 Space Planning

.07 Refuse Container Locations

- A. The University Park and most Commonwealth Campuses use the Dumpster system of collection. This system employs the use of six (6) and eight (8) cubic yard metal containers and a twenty-four (24) yard capacity packer-type truck to mechanically lift and dump the cans. The overall dimensions of the containers are 80 1/4 inches wide (for any size) x 59 1/4 inches x 76 inches high (based on standard six (6) yard container).
- B. Containers should not be located under roof overhangs, immediately next to combustible building construction or next to window openings. Dumpsters and containers with individual capacity of 1.5 cubic yards or more shall not be stored in buildings or placed within 5 feet of combustible walls, openings or combustible roof eave overhangs. Additionally, containers shall not obstruct doorways or fire protection system devices (hydrants, siamese connections, sprinkler control valves).
- C. A 31 cubic yard refuse truck measures 30'-3" long overall and has a wheel base of 158 inches and an overall height of approximately 12 feet, 6 inches. An overhead clearance of approximately 20 feet is required to dump a six-yard box. The gross weight on front axle is 15,000 pounds, rear tandem axles 38,000 pounds.

Note: Measurements will vary depending on cubic capacity size of vehicle.

- D. To service a container requires the truck operator to approach the container on an axis normal (90°) to the 80 1/4 inch width of the container.
- E. It is preferred that the trash and recycling containers be located at road level immediately adjacent to the loading platform of the building for convenient top loading from the platform.
- F. A concrete pad 9 feet wide by 8 feet shall be provided for each container required. The surface of the concrete pad shall be on a plane parallel to the road surface where the truck stops to service the container. This is necessary to properly engage the lifting forks of the truck in the sockets of the container to be lifted.
- G. The service road to the container shall be a minimum of 12 feet wide and of suitable construction to support the axle loads mentioned.
- H. To turn the packer truck requires a 45 foot radius and a minimum road width on the curve of 20 feet. If servicing of the container requires turning the truck, then the above turning radius and minimum road widths should be provided.
- I. Refuse: The University requires one 8-yard Dumpster for every 100,000 sq. ft. of building space for every 8 hours of use.
- J. Recycling: The University requires two types of containers: one 6 ~~yd³~~ cubic yard container for mixed office paper and one 6 ~~yd³~~ cubic yard container for cardboard.

- K. For each project, the ~~A/E~~ Professional is required to consult with the OPP Solid Waste Management Foreman to determine exact needs, based on facility type, size, and location.
- L. Trash compactors shall be provided with a 2 ½" female hose connection at the fire ports. The female hose connection shall have National Standard Hose Thread.

END of revision

Update Commentary:

Section was updated primarily to reflect fire code requirements.