

This document is an excerpt from the larger UVA Waste Infrastructure Standards.

## **WASTE INFRASTRUCTURE DESIGN REQUIREMENTS**

The following requirements apply to all projects served by UVA Recycling, except those with patient care areas. The purpose of these requirements is to promote more consistent and accessible waste infrastructure throughout University of Virginia facilities in support of UVA's ambitious goal to reduce waste by 70% by 2030. Supporting information can be found in accompanying sections of UVA's Waste Infrastructure Standards (of which this document is an excerpt).

### **1. PROJECT INITIATION AND COORDINATION**

- 1.1 All capital projects shall set up a kick-off meeting per UVA Facility Design Guidelines section 8.1.3.3.2.
- 1.2 Non-capital projects shall send schematic design drawings to relevant stakeholders per UVA Facility Design Guidelines section 8.1.3.3.3.
- 1.3 Exterior waste service areas, personnel access from the building, outdoor waste stations, and indoor waste stations shall be clearly identified on plans.

### **2. EXTERIOR WASTE SERVICE AREAS**

- 2.1 Exterior waste service containers (e.g., totes, carts, dumpsters, and compactors) shall be owner furnished and owner installed (OFOI). Coordinate with UVA Recycling to schedule ordering. Plan accordingly for longer-lead items such as compactors.
- 2.2 Exterior waste service areas are needed for any building greater than 5,000 square feet and shall meet the following requirements.
  - 2.2.1 All trash, recycling, and compost exterior waste service containers shall be uncovered, share the same concrete pad, and co-located outside the building.
  - 2.2.2 Service area size shall be sufficient to accommodate collection and storage of 4 days of landfill and compost waste (bi-weekly service) and 7 days of recycling waste (weekly service). Table A provides minimum infrastructure footprint areas. Final size and arrangement of waste service area shall be coordinated with UVA Recycling.
  - 2.2.3 All exterior service containers shall be conveniently and safely accessible by a front-loader waste truck. Waste trucks must be able to drive straight in to access dumpsters with forward-facing forks then safely turn around (e.g., without backing into oncoming traffic). Vehicle parking (including service vehicles) must not block waste truck access to dumpsters. Waste service areas may share space with fire lanes and clearance setbacks for other large utility infrastructure (e.g., transformer clearance areas).
  - 2.2.4 If compactor is specified, designs must include 208/230/460v, 3-phase power and guide rails.
  - 2.2.5 Large waste service containers (e.g., dumpsters, compactors) shall not be located above spaces sensitive to noise or vibration. Usable space below large service containers shall not be occupied space (mechanical rooms, storage, etc. are acceptable).
  - 2.2.6 Consider the width of custodial waste collection carts when designing clearance along major waste collection corridors and service areas, including exterior doors.

Table A. Minimum Exterior Waste Service Area Requirements

	<b>Building Area</b>	<b>Example</b>	<b>Square Orientation</b>	<b>Linear Orientation</b>
Extra Small	<15,000 SF	Lawn Alleys	11ft x 11ft	4ft x 20ft
Small	15k—50k SF	Astronomy	12ft x 17ft	7ft x 25ft
Standard	50k—120k SF	Carruthers	11ft x 22ft	10ft x 27ft
Large	120k—200k SF	New Cabell	14ft x 28ft	10ft x 42ft
Extra Large	>200,000 SF	Shannon Lib	26ft x 26ft	12ft x 54ft
Projects with less than 5,000 SF of building area may share with adjacent facilities. Waste service areas shared between buildings shall accommodate the total shared building area being served.				
Projects with significant commercial kitchen, mail/receiving, event, assembly, residential, research, healthcare, or fabrication programming should expect even greater infrastructure requirements. Coordinate with UVA Recycling and custodial provider to project waste needs in these spaces.				

### 3. OUTDOOR WASTE STATIONS

- 3.1 Outdoor user-facing waste station bins and signage shall be owner furnished and owner installed (OFOI) per UVA Facility Design Guidelines section 8.1.3.3.4. Outdoor waste station bins shall be selected from the UVA Waste Infrastructure Standards Bin Purchasing Guide. Custom bins shall not be specified.
- 3.2 Wherever a trash bin is specified, space for recycling bins (and compost bins, where applicable) shall be allocated. Accordingly, user-facing waste infrastructure shall be specified as “waste stations” rather than individual bins.
- 3.3 Each outdoor waste station footprint shall be 60 inches wide by 30 inches deep. Waste station areas shall maintain 60 inches of vertical clearance throughout and not be obscured by any other structural features.
- 3.4 Outdoor waste stations shall be sited along major pedestrian routes, particularly at sidewalk intersections, building entrances, bus stops, and near picnic tables or other places of gathering. Coordinate with UVA Recycling for final placement.

### 4. INDOOR WASTE STATIONS

- 4.1 Interior user-facing waste station bins and signage shall be owner furnished and contractor installed (OFCI) per UVA Facility Design Guidelines section 8.1.3.3.4. Indoor waste station bins shall be selected from the UVA Waste Infrastructure Standards Bin Purchasing Guide. Custom bins shall not be specified.

- 4.2 Wherever a trash bin is specified, recycling and/or compost bins shall be co-located. Accordingly, user-facing waste infrastructure shall be specified as “waste stations” rather than individual bins.
- 4.3 Table B. outlines the minimum amount of floor area that shall be set aside for waste stations for each space type. The project team may opt for a “square” orientation or a “linear” orientation. Waste station areas shall maintain 60 inches of vertical clearance throughout and not be obscured or installed behind cabinetry or casework.
- 4.4 Provide a minimum one waste station per 2000 SF or per 50 regular occupants, whichever results in a greater number of waste stations. Coordinate with UVA Recycling and custodial provider for exceptions.

Table B. Minimum Indoor Waste Station Area Requirements

	<b>Relevant spaces</b>	<b>Square Orientation *preferred* (width x depth)</b>	<b>Linear Orientation *if needed* (width x depth)</b>
Extra Small	Bathrooms	22 in x 22 in	44 in x 12 in
Small	Print/copy rooms	44 in x 24 in	64 in x 16 in
Standard	Entryways, corridors, common areas, open office areas, laboratories, classrooms with greater than 80 seats	48 in x 24 in	88 in x 12 in
Large	Kitchenettes, lunchrooms, large meeting and multipurpose rooms	64 in x 24 in	88 in x 18 in
Extra Large	Dining/cafes, spectator sports	88 in x 28 in	N/A
Waste infrastructure of any kind is discouraged in private offices, small conference rooms, classrooms of less than 80 seats, or unfurnished, storage, and mechanical/electrical spaces.			
Specialized infrastructure may be required in residential, assembly, commercial kitchen, warehouse, retail, fabrication, and healthcare spaces. Coordinate with UVA Recycling and custodial provider to identify appropriate infrastructure in these spaces.			