

# 10 Specialties

## GENERAL

Designers shall verify that all applicable portions of these standards are incorporated into the project's design, drawings, specifications and final construction. Requests for variances from these standards shall be submitted in writing to the DCM Project Manager, using the KU Standards Variance Request Form found in [Appendix A1.1](#), for review and written approval or rejection as indicated on the form.

## RELATED DOCUMENTS & REQUIREMENTS

Refer to the following for requirements that also apply to work of this section.

- [Division 1 - General Requirements](#)
- KU Graphics Program Manual, re: Signage - 10425

## VISUAL DISPLAY BOARDS – 10100

**General:** Refer to [Appendix A1.5](#) for KU's Standard Classroom Guidelines. Verify the types, sizes & locations of visual display boards with the user group(s) for each project.

**Tackable Display Units:** Typically provide one outside each departmental office, for posting of notices, schedules and general info. Provide with enclosed, lockable, glass door fronts, to minimize vandalism.

**Chalkboards or Markerboards / Whiteboards:** Provide either type, as preferred by the applicable user representatives or Building Committee.

**Marking Supplies:** Users should note that KU-FO will provide chalk for traditional chalkboards, but users are required to provide their own dry-erase markers for markerboards / whiteboards.

### Trim for Chalkboards (CB), Tackboards (TB), Markerboards (MB) or Whiteboards (WB):

- Heavy-duty, extruded aluminum trim
- Natural anodized finish
- Fabricate with mitered corners and all cut edges deburred or eased.
- Install with concealed anchorage to wall substrates, and to adjacent trim pieces.

## TOILET ROOMS – GENERAL DESIGN GUIDELINES

DCM can provide examples of typical University toilet room elevations and detail options. Designers shall give particular attention to toilet room layouts, to verify that sight lines are controlled and appropriately screened for privacy from outside.

- Finishes: Shall be ceramic tile on floors, wall base and full-height on walls. Floor and wall base shall have matching tile and grout, with mid-range or darker colors recommended for soil hiding ability over time.
- Vanity tops or continuous countertops with individual lavatories shall be solid composition materials (Corian or equal), not plastic laminate.
- Urinals and water closets shall be wall-mounted.
- Pipe chases serving toilets and other wet areas should be no less than 24" clear interior width, preferably 36" clear width. Access to chases shall be by means of standard, full-height swing doors for maintenance access, unless infeasible. When provided, access doors shall be 24"w x 36"h; verify locations with FO and DCM.
- Toilet Accessories: Provide as noted elsewhere in the document.
- Bookracks should be provided within toilet rooms, and included as part of the contract documents.

## TOILET COMPARTMENTS – 10155

Toilet and urinal compartment panels shall be either solid plastic or stainless steel materials, due to lower vandalism and better maintenance. Baked enamel metal, plastic laminate and other materials are not to be used, unless otherwise approved by DCM due to location, type of users or budget. Exception: In partial remodels of existing toilet rooms, match existing type and appearance.

- Type: Overhead-braced, floor-mounted. Other types, such as ceiling-hung, are not permitted due to poor durability experiences KU has had with them in the past.
- Special Wall Mounting Requirements: Urinal screens & toilet compartment dividing wall shall be specified to be secured to walls with continuous wall brackets, in lieu of individual mounting brackets, for greater durability.
- Hardware shall all be stainless steel and heavy-duty quality.

## TOILET ACCESSORIES – 10801

**General:** A careful review of the layout of toilet fixtures and accessories, especially for required mounting heights and other handicapped-accessibility requirements, shall be coordinated with the Office of Design and Construction Management. All toilet accessories shall be stainless steel materials, with satin finish, heavy-duty construction. Provide units indicated, as manufactured by Bobrick, or equal as approved by DCM.

**Mirrors:** Surface-mounted mirrors shall be provided with fully-welded, seamless stainless steel frame, tempered glass mirror, and secured with concealed theft-proof mounting.

- Tall Mirrors: Provide one in each public restroom. Minimum size: 24" wide x 60" high, with top mounted at 6'-8" AFF.
- Mirrors behind lavatories are discouraged by FO, due to increased maintenance from hair brushing over sinks.

**Paper Towel Dispensers:** Units for 8-inch-wide, 8-inch-diameter paper roll. Provide with lever handle operation, not crank.

- Bobrick Model #3960 or #3961, recessed paper towel dispenser and waste receptacle.
- Bobrick Model #3861 or #38616, recessed or semi-recessed paper towel dispenser.
- Bobrick Model #2860, surface-mounted paper towel dispenser.

**Paper Towel Waste Receptacles:** Built-in units shall be largest capacity available.

- If loose units to be provided by FO Housekeeping, verify size of units to be provided and show locations dashed on drawings and noted as such.
- Locations and sizes must not alter accessibility of toilet rooms, toilet accessories or plumbing fixtures. Loose waste receptacles can violate ADA or exiting criteria if improperly placed. Designers must therefore indicate recommended locations on construction drawings which comply with ADA and building code requirements.

**Soap Dispensers:** Provide units for either powdered soap or liquid soap, as requested by building users. Units should be mounted over the lavatory counter and allow easy access for refilling without crawling below counter or lavatory.

- Bobrick Model #B-8226 Series, liquid soap dispenser, countertop-mounted with top refill. Position so nozzles extend over lavatory.
- Bobrick Model #B-2111 or #B-2112, liquid soap dispenser, wall-mounted.
- Bobrick Model #B-132, powdered soap dispenser, wall-mounted.

**Toilet Tissue Dispensers:** Units that accommodate two rolls of toilet tissue, side-by-side. The dispenser shall be mounted on the partition on the hinge-side of the toilet stall door. Dispensers shall move in complete circles and shall not have controlled-flow feature.

- Bobrick Model #2740, surface-mounted dispenser.

**Sanitary Napkin Disposal Units:** Provide one feminine hygiene disposal unit in each women's toilet stall.

- Bobrick Model #270, or equal.

**Sanitary Napkin Dispensers:** These units shall be provided by the University's vending service provider. Construction drawings shall an appropriate location for each.

- Models shall be as determined by vendor, based on types of products to be dispensed, costs to be charged and coins to be accepted.

## **DIRECTORIES AND BULLETIN BOARDS – 10416**

**Building Directory:** Provide in main entrance lobby(s). Limit text to public spaces and a general description of spaces on each floor. Individual blades for each line of text, or a traditional grooved background for press-in letters are both acceptable, but shall be enclosed and lockable to prevent theft or vandalism. An 8.5" x 11.5" slot for changeable paper inserts can be included for posting of computer-generated lists of faculty room assignments.

- Graphic Maps are generally discouraged, due to cost of updating them over time as space uses are reassigned & buildings are remodeled. However, for buildings of unusual geometry or complexity, this is sometimes a better option than a list of rooms or directional signage. If used, a plexiglas-covered sign that accepts paper floor plan drawings, which can be easily printed by computer and replaced periodically, is preferred.

## **SIGNAGE – 10431**

### **General:**

Refer to [Appendix A10.1](#) for standard examples and guidelines copied from the KU Graphics Manual. Designers shall review the complete KU Graphics Manual for additional information, not included herein, which may be applicable to their project. DCM's Project Manager can arrange to make a copy of the Graphics Manual available for review.

Designers shall include scale drawings of each sign type to be provided for a project, and shall show mounting locations, noting all are to be field-verified with Owner prior to installation. The following signage shall be provided as part of the construction contract for each KU project, as applicable.

### **Exterior Signage:**

- Exterior Building Name & Program Name:** (New Buildings or major additions only)  
Include near main entrance(s), on wall of building; locations shall be approved by DCM & UA. Specs:
  - Letters:** Cast aluminum, Medium Bronze anodized finish, Helvetica Medium font, all caps.
  - Heights:** Building name shall be 8" to 10" high letters, appropriate to building's scale; generic name of program shall be smaller and below , typically 6" to 8" high; ½" to 1" deep letters. Example:

**LEARNED HALL**

## ENGINEERING

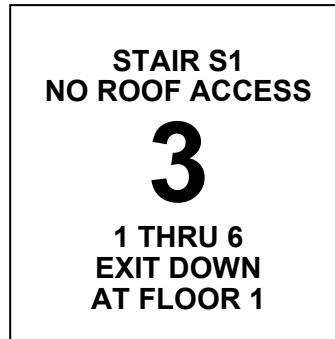
- ❑ **Mounting:** Concealed, with minimal space off substrate, to limit insect & bird nesting.
- ❑ **Power-Operated Building Entrance Doors Signs:** 6" x 6" pictograms with universal symbol of accessibility, white on blue background, adhesively applied onto face of each door equipped with a power operator, 36" to 60" AFF.
- ❑ **Other Accessible Entrance Signs:** When all entrances to a building are not accessible, provide adhered 6" x 6" pictogram signs on the accessible doors, and provide signs at inaccessible entrances providing directions to accessible entrances. Main entrances must be accessible.
- ❑ **Handicapped Parking Signs:** GC shall provide painted galvanized steel posts for handicapped parking signs; Owner shall provide signage & mount it on these posts.

### Interior Signage:

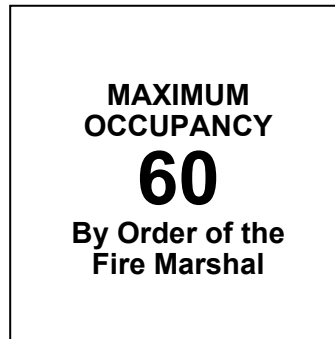
- ❑ **Building Directory:** Refer to requirements specified under the Directories and Bulletin Boards - 10416 section of this Division.
- ❑ **Directional Signage:** Provide as required to clearly direct traffic through building. Typically provide on each floor outside elevator or stairs in main lobbies, noting sequence of room numbers that occur in each direction of travel.
- ❑ **Emergency Plan Signage:** Provide one sign holder at primary firefighter's entrance; typically sized to receive an inserted 11" x 17" sheet of paper with a clearly legible floor plan indicating all emergency exits and exit corridors. For new construction, consultants shall provide this floor plan printout, which can be modified from the final code footprint.
- ❑ **Room Numbers:** Provide one for each door in building. Standard size to be 2 ¼" x 4 ½" blade with room number in raised letters, with Braille below text. Provide larger blade to identify multiple distinct room numbers occurring beyond door.
- ❑ **Room Numbers & Room Names:** Provide only at permanent locations where this information is needed. Examples: Dean of Fine Arts; Inge Theater; Lecture Hall; Multimedia Classroom; Vending; Mechanical; Electrical; Tunnel Access; Telecom; Utility; Housekeeping; Storage. Provide in standardized module widths and heights as appropriate for each project.
- ❑ **Room Numbers & Occupant Names:** If desired by building users and the project budget allows it, provide signs in those locations with an integral slot covered with clear plastic for removable inserts designating the room occupants' names are typically not included in KU room signage. If included, they shall have a fixed clear cover over the insert, and allow room occupants to create computer-generated inserts rather than being required to purchase pre-manufactured inserts.
- ❑ **Toilet Rooms:** Provide 6" x 8" sign with ADA pictogram and 1" text below pictogram which reads 'Men', 'Women' or 'Restroom (if shared restroom).
- ❑ **Elevator Signage:** Provide per code. Text to read 'Do Not Use in Case of Fire' and include standard pictogram. Coordinate with elevator specs and submittals; omit separate sign if signage provided by elevator manufacturer.

- ❑ **Stairwells:** On corridor side of door, provide one 2 ¼” x 4 ½” sign with stair name text (Ex: ‘**Stair 3S1**’) with Braille below text. In the example, ‘3’ refers to 3<sup>rd</sup> floor and ‘S1’ refers to the stairwell number assigned by KU.

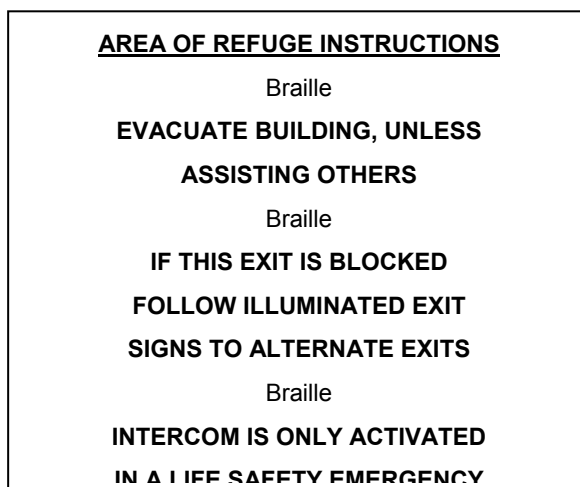
- ❑ **Stairwells:** Inside stairwells on each landing, provide code-required signs, **10" x 10"** size (per IBC; UBC requires 12" x 12"). Text shall be 3/4" high letters with a 3" high floor number. Install sign with centerline 5' above elevation of landing, in a readily visible location when all doors are open and closed (ref. IBC 1005.3.2.4).



- ❑ **Room Occupancy Limits:** Provide a **10"X10"** sign installed in ALL assembly occupancies (over 50 occupants) with loose seating. 1<sup>st</sup> 2 lines 1" high, occupancy number 2 1/2" high, last 2 lines 3/4" high (no braille)Text as follows:



**Area of Refuge Instructions:** (if provided) - Information on how to use communication device per code. Standard text as follows, 5/8" high letters:



- Other signage requested by DCM and the Building Committee.
- Other **code-required signage**.

#### **Interior Signage Specifications:**

- Materials:** Solid phenolic material; engraved, etched or blasted to create both raised relief letters and braille.
  - Colors may either be integral or hard-coat paint, as approved by DCM.
- Corners:** Required to have a 3/8" radius.
- Fonts:** Size shall be 5/8" to 1" high. 1 inch is preferred. All interior text shall be Helvetica Medium font, title-case (first letter capitalized, unless specified otherwise), left-justified unless pointing to rooms to right.
  - Applied letters, numbers or braille text that are separate from substrate materials, and adhered to it, whether chemically or by heat, are NOT acceptable due to poor performance.
  - Special graphics on signs, in addition to normal text, are discouraged on signs that might typically require replacement or additional matching signs in the future. These include room numbers, whether plain or including room names or insert slots, and building directories.
- Typical Colors:** White letters on a dark background, in a color consistent with other interior colors. Brown or bronze background is the standard background color, unless the color scheme suggests other colors that would be more appropriate. Verify with DCM (approval required).
- Partial Remodels:** Match existing signage (style, colors, fonts, etc) to greatest extent feasible.
- Typical Mounting Locations:** Mount per ADA & other code requirements. Typically mount 2" clear off the door frame's strike jamb, 60" AFF to centerline of sign.
- Typical Mounting Methods:** Either of the following methods are acceptable:

- Not less than 80% coverage double-sided tape over entire back of sign.
- Double-sided tape to temporarily hold in position, with continuous perimeter coverage of silicone sealant/adhesive.
- If mounted on glass sidelight, provide back plate to hide mounting tape.

### **Signage by Owner**

- Handicapped Parking Signage (posts by GC)
- Parking Lot Designations
- Traffic Control Signage

### **FIRE PROTECTION SPECIALTIES – 10520**

**Fire Extinguisher Cabinets:** Provide for all fire extinguisher locations except those within non-public spaces, such as mechanical/electrical rooms or unfinished work areas.

- Locations/Spacing:** As required by NFPA-10 code standard. Graphically show locations of each fire extinguisher and it's radius of coverage on code compliance plans.
- Fire Extinguishers:** Provided by University's Facility Operations department.
- Cabinets:** Solid clear glass doors, with no locks on doors, trim color as appropriate for adjacent wall surfaces.
- Size:** Interior dimensions adequate to receive up to a ten (10) pound ABC extinguisher.

**Fire Hose Cabinets:** Provide units with similar trim and appearance to fire extinguisher cabinets, in location(s) required by code plans. Provide units without fire hoses.

### **MAILROOMS & POSTAL SPECIALTIES – DESIGN GUIDELINES**

**General:** Mail slots may be required as a part of the program. They should not be located in rated corridor walls.

**Central Mail Rooms:** DCM's PM shall review design with KU Printing Services, who functions as campus mail coordinating department. Provide space within or near rooms for waste and recycling containers.

### **FIRE-RATED OPERABLE PANEL PARTITIONS – 10653**

**General:** Fire-rated operable panel partitions shall be used only if reviewed and approved by the University Fire Marshall (currently: Bob Rombach, DCM).

- Verify operation, controls and interface with KU's campus-wide fire alarm system and the KU-PS 911 Emergency Response Center.

### **TELEPHONE SPECIALTIES – 10750**

**General:** KU's Architectural Barriers Committee has requested that at least one public text telephone be provided in each building on campus, even if not required by ADA. Designers shall verify closest existing text telephone locations within building and determine with DCM if an accessible, text telephone shall be provided.

### **WARDROBE SPECIALTIES – 10900**

**General:** Heavy-duty coat racks and bookshelves shall be provided in toilet rooms and in waiting areas, as requested by user group or DCM. Lockers may supplement this need. The use of plastic assemblies, supports and hooks shall be minimized.

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