University of Illinois at Chicago

Campus Grounds Design Standards

Revised: 02.19.2016  v1.0
1. GENERAL REQUIREMENTS
   a. Purpose
      The Grounds Design Standards were developed by the Office of the Campus Architect (OCA) under the
direction of the Vice Chancellor for Administrative Services in the effort to unify the elements of the
Campus’ exterior environment.

      The standards must be used when renovating or designing new grounds elements at UIC, and will help
provide a visual coherence for campus grounds and facilitate long term maintenance.

   b. Application
      The Grounds Design Standards apply to the following at UIC:
      • Landscape and Plant Materials
      • Paved Surfaces
      • Site Furnishings
         o Outdoor Seating
         o Trash and Recycling Receptacles
         o Bicycle Racks
         o Safety Bollards
         o Light Fixtures
         o Outdoor Planters
         o Fencing
      • Exterior Art

   c. Sustainable Design
      All materials and furnishings are chosen with sustainable design as a determining factor. Sustainable
design seeks to reduce negative impacts on the environment, and the health and comfort of users,
thereby improving performance. Through sustainable design decisions we seek to reduce consumption
of non-renewable resources, minimize waste, and create healthy, productive campus environments.
Whenever possible, first consideration should be given to the use of native plantings requiring little to
no irrigation.

   d. Accessibility
      Campus grounds elements that impact pedestrian accessibility must meet the minimum requirements of
the 2010 ADA Standards for Accessible Design. This includes, but is not limited to the following items:
      • Accessible walkways
      • Accessible ramps and stairways
      • Equitable seating

   e. Coordination Responsibility
      The Office of the Campus Architect (OCA) is responsible for the development and interpretation of the
Standards. Only materials, products and applications meeting the Standards will be allowed on UIC
campus grounds. Proposed alternatives to the basis of design must be reviewed in advance by the
OCA to determine if they meet the design intent of the Standards. Please contact the Office of the
Campus Architect at oca@uic.edu with questions.

      Project Managers (PM) from the Office for Capital Programs (OCP) and Physical Plant Construction
(PPCON) will be responsible for ensuring compliance with the Standards. If there are questions about
compliance then the PM shall schedule a design review meeting with the OCA and provide drawings
and finish samples for review. It is the responsibility of the PM to highlight proposed deviations from the
Standards and to bring them to the attention of the OCA. The OCA reserves the right to deny or modify any deviation from the Standards.

Depending on the material or product submitted for review, physical submittals are strongly recommended; Drawings and finish samples should be submitted and approved by the Office of the Campus Architect prior to purchasing of products and materials. Please contact the Office of the Campus Architect at oca@uic.edu with any additional questions regarding submittals.
2. LANDSCAPE AND PLANT MATERIALS
   a. General Requirements
      i. Plant certifications
         1. Plant and landscape materials must adhere to ANSI Z60.1 – “American Standard for Nursery Stock”
         2. If possible, plants purchased for use on campus grounds should be locally grown or sold.
         3. Whenever possible, first consideration should be given to the use of native plantings requiring little to no irrigation.
      ii. Weather zones
         1. Selected landscape and plant materials must withstand and thrive in weather zones 6a and 5b according to the USDA Plant Hardiness Zone Map.
      iii. Construction Requirements
         1. Protection
            a. During construction work where existing trees may be impacted fencing to the drip line of the tree canopy must be provided. Protection and fencing must adhere to the guidelines stipulated in Section 5e of the UIC Office of Sustainability 2013 Tree Care Plan.
         2. Repair
            a. Damage made to existing campus landscape and plant materials are the responsibility of the contractor and must be restored to their original condition or satisfactory terms established by the designee of the Vice Chancellor for Administrative Services.
               i. Tree damage repairs are based on the recorded value of the existing tree impacted. In the event of tree damage, the designee of the Vice Chancellor for Administrative Services may specify alternate landscape improvements that equal the dollar value of the loss incurred by the tree damage.
         iv. Vines
            1. The use of vines and plant species capable of climbing and attaching to exterior surfaces are prohibited on UIC campus grounds
   b. Basis of Design
      i. Types of Landscape & Plants
         1. Lawns & Sodding
            a. Seed mix/sod type
               i. Seed mix shall consist of: 30% Kentucky Bluegrass, 30% Creeping Red Fescue and 40% containing two (2) of the following turf-type perennial Ryegrasses: Accent, APM, Caddishack or Monterey II.
               ii. Natural and synthetic turfs for athletic fields must be reviewed and approved by the designee of the Vice Chancellor for Administrative Services prior to installation
            b. Application
               i. Seed or sodding are permitted for use as the primary groundcover in campus softscapes, including between building perimeters and sidewalks, property lines and in open green space.
               ii. Spring and Fall are ideal for seeding and sod installation; however, should schedule not accommodate this, installation can occur at any time (except winter) with adequate watering.
                  1. During construction, daily watering is required for two to three weeks in order for seeds to germinate
                  2. During construction, sod should be watered to saturation every 1 to 2 days.
c. Irrigation
   i. Landscapes and plant material that are a component of a transformational grounds project or new building site are to be provided with a complete underground irrigation system.
      1. The irrigation system type and manufacturer must be approved by the designee of the Vice Chancellor for Administrative Services prior to purchasing.

2. Trees
   a. Shades Trees
      i. Species
         1. In an effort to diversify our campus’ canopy, the following species are both urban tolerant, not found in large numbers, and are options for shade tree plantings:

            **Liriodendron tulipifera** – Tulip Tree

            **Ulmus davidiana var. japonica ’Morton’** – Accolade Elm

            **Quercus bicolor** – Swamp White Oak
Celtis occidentalis – Hackberry

2. Additional species require approval from the designee of the Vice Chancellor for Administrative Services

ii. Application
   1. Shade trees should be located in areas adjacent to pedestrian sidewalks and walkways and at the perimeters of open green spaces.
   2. The prescribed shade tree species require moist, well-drained soils, transplant well, and seasonally lose leaves.
   3. Contractors installing trees must assess existing soil conditions prior to beginning work to verify if additional excavation or treatment is needed to provide proper soil conditions and drainage.

b. Ornamental Trees
   i. Species
      1. In order to increase the campus' overall aesthetic and tree diversity, the following species are options for ornamental tree plantings:
         Syringa reticulata ssp. Reticulata – Japanese Lilac Tree
         Cornus mas – Cornelian Cherry Dogwood

ii. Application
   1. Ornamental trees should be located in areas along walkways and as the focal point of designed softscapes.
   2. The prescribed ornamental tree species require pruning after flowering and seasonally lose leaves.
3. Contractors installing trees must assess existing soil conditions prior to beginning work to verify if additional excavation or treatment is needed to provide proper soil conditions and drainage.

c. Evergreen Trees
   i. Species
      1. The following species are currently used on campus and are options for evergreen tree planting options:
         2. Taxodium distichum – Bald Cypress

         Picea glauca var. densata – Black Hills Spruce

         Picea Pungens – Blue Spruce

      3. Additional species require approval from the designee of the Vice Chancellor for Administrative Services

   ii. Application
      1. Evergreen trees should be positioned to block prevailing winter winds in order to serve as windbreaks for open plazas and major walkways.
      2. In the effort to promote secure campus environments, Evergreen trees can not prohibit prominent view corridors into or out of a landscaped space.
      3. The prescribed evergreen tree species require moist, well-drained soil and are best grown in full sun exposure.
      4. Contractors installing trees must assess existing soil conditions prior to beginning work to verify if additional
excavation or treatment is needed to provide proper soil conditions and drainage.

3. Plants
   a. Shrubs
      i. Species
         1. The following species are currently used on campus and are options for shrub plantings:
            Spiraea betulifolia ‘Tor’ – (deciduous shrub)
            Taxus x media ‘Densiformis’ – (evergreen shrub)
            Hydrangea paniculata ‘Jane’ – (deciduous shrub)
   2. Additional species require approval from the designee of the Vice Chancellor for Administrative Services
      ii. Application
         1. Shrubs are permitted to be planted at the following locations:
            a. Along the borders of major walkways and pedestrian sidewalks
            b. In groups at the bases of ornamental trees
            c. As a component of designed landscapes and planters.
         2. The prescribed shrub species require partial sun exposure at minimum.
   b. Flowers
      i. Species
         1. The following flower species are classified by required light exposure and are options for flower plantings:
<table>
<thead>
<tr>
<th>Full Sun - Annuals</th>
<th>Full Sun - Perennials</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pennisetum rubrum</em></td>
<td><em>Hemerocallis – Little Wine Cup</em></td>
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<tr>
<td><em>Zinnia Zahara Sunburst</em></td>
<td><em>Perovskia atriplicifolia - Little Spire</em></td>
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<td><em>Coleus Henna</em></td>
<td><em>Salvia Coaradonna</em></td>
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<td><em>Dichondra Silver Falls</em></td>
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<tr>
<td><em>Lava® Tulip</em></td>
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</tbody>
</table>
### Partial Shade - Annuals

- **Begonia Big Red**

### Partial Shade - Perennials

- **Allium Summer Beauty**

### Salvia Black & Blue

### Nepeta Walker’s Low

### Hosta August Moon

<table>
<thead>
<tr>
<th>2. Additional species require approval from the designee of the Vice Chancellor for Administrative Services</th>
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<tbody>
<tr>
<td><strong>ii. Application</strong></td>
</tr>
<tr>
<td>1. Flowers are permitted to be planted at the following locations:</td>
</tr>
<tr>
<td>a. As components of designed landscapes and planters</td>
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<td>b. Near borders of major walkways, so that flower growth does not extend onto walking hard surfaces</td>
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<td>2. Annual flowers need to be watered every other day until establishment</td>
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<td>3. The prescribed flower species require full sun exposure</td>
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<td><strong>c. Ground Cover</strong></td>
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<tr>
<td><strong>i. Species</strong></td>
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<td>1. The following materials are acceptable for use as groundcover:</td>
</tr>
<tr>
<td>a. Euonymus fortune Coloratus (Evergreen groundcover)</td>
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<td>b. Mulch (deep brown color)</td>
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<tr>
<td>c. Gray pea gravel (1/4&quot; size)</td>
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<tr>
<td><strong>ii. Application</strong></td>
</tr>
<tr>
<td>1. Euonymus fortune Coloratus requires partial exposure to sunlight and well-drained soil. It should be implemented</td>
</tr>
</tbody>
</table>
1. As a means to cover areas of bare soil that are not near other plant material.

2. Mulch should be used in landscaped areas to aid plant health in addition to covering areas of bare soil (i.e. at the base of trees)

3. Gravel should be implemented to assist with drainage underneath building overhangs, curb lines, and areas of high vehicular traffic.
3. PAVED SURFACES
   a. General Requirements
      i. Safety Requirements
         1. Paved surfaces should be stable surfaces that remain unchanged by contaminants or
            applied force and must resist deformation by either indentations or elements moving
            on its surface. Additionally, paved surfaces should be slip resistant as stipulated by
            ASTM F1637-13 and provide sufficient frictional resistance for expected
            environmental conditions and use.
      ii. Construction Requirements
          1. Protection
             a. During construction where machinery will be used, either cover/protect
                existing paving from oils and fluids or chemically clean surface at the end of
                construction to restore paving to its original condition or satisfactory terms
                established by the designee of the Vice Chancellor for Administrative
                Services
          2. Repair
             a. Damages to paved surfaces incurred as a result of construction activity are
                the responsibility of the contractor and are expected to be repaired to their
                original condition or satisfactory terms established by the designee of the
                Vice Chancellor for Administrative Services in accordance with the paving
                basis of design (Section 3-b)
      iii. Snow Removal
          1. Unless determined implausible by the designee of the Vice Chancellor for
             Administrative Services or the Office of the Campus Architect, paved areas must be
             sized to accommodate snow removal according to the following plow dimensions: 20" H x 55" W; 20"H x 80"W; and 27"W x 90"W.
   b. Basis of Design
      i. Material Types
         1. Concrete
            a. Mix requirements
               i. All paved surfaces that are concrete shall adhere to the concrete
                  mix stipulated in Division 03 – Concrete in the UIC Office for
                  Capital Programs Building Standard.
               ii. Paved surfaces within the City Right-of-Way shall meet the
                   requirements of the City of Chicago
            b. Finish requirements
               i. Color pigments and exposed aggregates require the approval of
                  the designee of the Vice Chancellor for Administrative Services and
                  the Office of the Campus Architect.
               ii. Stained and painted concrete finishes are prohibited for exterior
                   paving.
               iii. Concrete surfaces are to be finished with a transverse light broom
                   finish unless approved otherwise by the designee of the Vice
                   Chancellor for Administrative Services and the Office of the
                   Campus Architect.
         2. Permeable Pavers
            a. Manufacturer and product
               i. Wausau's 3-13/16" x 11-13/16" pavers are the basis of design for
                  exterior permeable concrete pavers
               ii. Pavers finish and color are to match Wausau's UG-60 finish
               iii. Permeable paver size and layout must allow for increased joint size
                    and spacers to provide adequate drainage.
iv. Full size samples representative of permeable paver shape, size, color and finish are to be reviewed and approved by the Office of the Campus Architect

b. Joint Filler
i. Joint filler must consist of granite chips, dark gray in color, and conform with ASTM C 33 with 97 to 100 percent passing a 3/4” sieve
ii. One pound samples of joint filler aggregate materials that indicate the range of color variation and texture upon project completion should be provided to the Office of the Campus Architect for review and approval.

3. Non Permeable Pavers
a. Manufacturer and product
i. Wausau's 11-13/16” square pavers are the basis of design for exterior non-permeable concrete pavers
ii. Pavers finish and color are to match Wausau's UG-60 finish
iii. Full size samples representative of permeable paver shape, size, color and finish expected upon project completion are to be reviewed and approved by the Office of the Campus Architect

b. Joint Filler
i. Joint filler sand must be dark gray in color and conform with ASTM C 144 with 100 percent passing a No.16 sieve
ii. One pound samples of joint filler aggregate materials that indicate the range of color variation and texture upon project completion should be provided to the Office of the Campus Architect for review and approval.

ii. Types of Paved Surfaces
1. Pedestrian Sidewalks
a. Definition and Example
i. Pedestrian sidewalks are paved paths exclusively for pedestrian use. These pathways are capable of supporting light to medium pedestrian flow.
ii.
b. Materials
   i. Pedestrian sidewalks are to be constructed of concrete or non-permeable pavers in accordance to the stipulations of Section 3-b

c. Application
   i. Pedestrian sidewalks are permitted in locations parallel to roads and as a connection between major walkways, plazas and building entrances.
   ii. The construction of pedestrian sidewalks through existing open lawns/green spaces are prohibited unless approved by the Office of the Campus Architect.
   iii. Pedestrian sidewalks less than 6'-0" in width are prohibited.
   iv. Pedestrian sidewalks that fall within the City Right-of-Way shall meet the requirements of the City of Chicago.
   v. Pedestrian sidewalks are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.
   vi. Pedestrian sidewalks must be accessible in accordance to Chapter 4 – Section 402 of the 2010 ADA Standards for Accessible Design.

2. Major Walkways
   a. Definition and Example
      i. Major walkways are paved paths intended for high volume pedestrian use, bicycles, and vehicle access.

   b. Materials
      i. Major walkways are to be constructed of concrete in accordance to the stipulations of Section 3-b

   c. Application
      i. Major walkways are permitted along predominant circulation axes within the campus interior and between clusters of campus facilities.
      ii. The construction of major walkways through existing open lawns/green spaces are prohibited unless approved by the Office of the Campus Architect.
      iii. Major walkways should be no less than 10'-0" in width.
iv. Major walkways that intersect the City Right-of-Way shall meet the requirements of the City of Chicago.
v. Major walkways are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.
vi. Major walkways must be accessible in accordance to Chapter 4 – Section 402 of the 2010 ADA Standards for Accessible Design.

3. Building Entrances
   a. Definition and Example
      i. Building entrances are areas at the building perimeter that provide primary entry for pedestrian traffic. These areas are typically located adjacent to or as a component of major exterior circulation.

   b. Materials
      i. Depending on location, building entrances may be constructed of concrete or non-permeable concrete pavers in accordance to the stipulations of Section 3-b.

   c. Application
      i. Building entrances are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.
      ii. Building entrances must be accessible in accordance to Chapter 4 – Section 402 of the 2010 ADA Standards for Accessible Design.
         1. Entry doors, doorways or gates that are a component of building entrances must be accessible in accordance to Chapter 4 – Section 404 of the 2010 ADA Standards for Accessible Design.

4. Plazas
   a. Definition and Example
      i. Plazas are open, public areas near or adjacent to buildings and support both circulation and seating.
b. Materials
   i. Plazas may be constructed with any of the materials identified in Section 3-b and must adhere to the guidelines stipulated therein.

c. Application
   i. Locations for new plazas are to be reviewed by the designee of the Vice Chancellor for Administrative Services and the Office of the Campus Architect.
   ii. Plazas are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.
   iii. Plazas must be accessible in accordance to Chapter 4 – Section 402 of the 2010 ADA Standards for Accessible Design.

5. Exterior Pads
   a. Definition and Example
      i. Exterior pads are paved areas that provide stable surfaces for site furnishing elements and public art fixtures.

Shared plaza at Douglas, Lincoln and Grant Halls

Exterior pad supporting benches and table near the Behavioral Sciences Building
b. Materials
   i. Depending on location, exterior pads may be constructed of concrete or non-permeable concrete pavers in accordance to the stipulations of Section 3-b

c. Application
   i. Locations for exterior pads will coincide with the approved locations (by the Office of the Campus Architect) for the site furnishing and/or public art that it will support.
   ii. Exterior pads that support interactive site furnishings (tables, seating, benches, etc.) are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.

6. Exterior Stairs & Ramps
   a. Definition and Example
      i. Exterior stairs and ramps serve as a means of vertical circulation, allowing pedestrians to reach varying elevations

![Exterior stairs at Science and Engineering South building](image)

   b. Materials
      i. Exterior stairs and ramps are to be constructed of concrete in accordance to the stipulations of Section 3-b

   c. Application
      i. Locations for newly constructed exterior stairs and ramps must be reviewed and approved by the Office of the Campus Architect
      ii. Exterior ramps are to be constructed in accordance to Chapter 4 – Section 405 of the 2010 ADA Standards for Accessible Design.
      iii. Exterior stairs are to be constructed in accordance to Chapter 5 – Section 504 of the 2010 ADA Standards for Accessible Design.
      iv. All associated handrails for exterior ramps and stairs are to be constructed in accordance to Chapter 5 – Section 505 of the 2010 ADA Standards for Accessible Design and must be approved by the Office of the Campus Architect prior to installation.
      v. Concrete stair treads, ramp runs and ramp landings are to be smooth and without sudden changes in level in accordance to Chapter 3 – Section 303 of the 2010 ADA Standards for Accessible Design.
4. SITE FURNISHINGS
   a. General Requirements
      i. Locations
         1. In general, locations for site furnishing elements must be approved by the Office of the Campus Architect, unless new furnishings are replacing existing elements of the same kind (i.e. a new light post to replace a broken light fixture)
            a. Unless determined implausible by the designee of the Vice Chancellor for Administrative Services or the Office of the Campus Architect, the placement of site furnishings must accommodate for snow removal and accommodate for the following plow dimensions: 20” H x 55” W; 20”H x 80”W; and 27”W x 90”W.
      ii. Installation
          1. Site furnishings are to be anchored to the corresponding hard surface that it is placed upon
             a. Anchors should be installed on site furnishings in a manner that does not create a trip hazard or impede upon paths of travel.
          2. Interactive site furnishings (i.e. tables, seating, and trash receptacles) must be accessible and correspond with the stipulations of the 2010 ADA Standards for Accessible Design.
      iii. Construction Requirements
          1. Protection
             a. When site furnishings are within or adjacent to a zone of construction, preventative measures should be taken to protect these elements.
                i. Construction fencing should be used at the perimeter of site furnishings (i.e. seating, light posts, bollards) when there is risk of collision damage
                ii. Depending on the scope of construction work, the surfaces of site furnishings are to be covered and protected from paints, oils, solvents, etc. that may cause surface defects.
          2. Repair or Replacement
             a. In the event that site furnishings are damage as a result of construction work or construction conditions, it is the responsibility of the contractor to restore or replace the damaged items to a condition found satisfactory by the Office of the Campus Architect.
   b. Basis of Design
      i. Types of Furnishings
         1. Outdoor Seating
            a. Benches (free standing)
               i. Products
                  1. The basis of design for campus bench seating is the Pacifica bench by Forms & Surfaces
                     a. Seats and/or backrest are to be constructed of Jatoba or Ipe hardwood
                     b. Armrests and steel frames are to be finished with Form & Surfaces’ “silver texture” powdercoat finish
                     c. The standard bench length dimension to be used on campus is 8’-0”
                     d. Proposals for alternate free standing benches and/or finish options must be submitted and approved by the Office of the Campus Architect.
ii. Application

1. Free standing benches are permitted to be installed in areas flanking or adjacent to major walkways (see Section 3. Paving for definition) and plazas.
2. Benches are to be installed in a manner that does not impede the pedestrian path of traffic or reduce the path’s overall width.
3. Benches must be secured to its associated surface as stipulated in the Site Furnishings general requirements section.

b. Picnic Tables (free standing)

i. Products

1. The basis of design for campus picnic tables is the Trio table ensemble by Forms & Surfaces.
   a. Seats and table surfaces are to be constructed of Ipe hardwood.
   b. Steel frames are to be finished with Form & Surfaces’ “silver texture” powdercoat finish.
   c. The standard picnic ensemble length dimension is 8’-0” for both the table and benches.
   d. Proposals for alternate free standing picnic table ensembles and/or finish options must be submitted and approved by the Office of the Campus Architect.
ii. Application

1. Freestanding picnic tables and seating are permitted to be installed as a component of plazas and within designed landscaped areas, but not near building entrances.

2. Picnic tables and seating are to be installed in a manner that does not impede the pedestrian path of traffic or reduce the path’s overall width.

3. Picnic tables and associated seating are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.

4. In a given site, 5% fixed of seating and table space must be wheelchair accessible. This can be achieved by installing a 4’ bench on either side of the 8’ picnic ensemble or by providing a 30”x48” space, clear of obstructions, for wheelchair utilization.

c. Tables and Chairs (free standing)

i. Products

1. The basis of design for campus tables and chairs is the Tangent - 4 seat table ensemble by Forms & Surfaces.
   a. Seats and backrests are to be constructed of Ipe hardwood.
   b. Steel frames are to be finished with Form & Surfaces’ “silver texture” powder coat finish.
   c. The standard four seat option is mandatory, as it maintains ADA compliant wheelchair accessibility.
   d. Proposals for alternate free standing table and chair site furniture and/or finish options must be submitted and approved by the Office of the Campus Architect.

![Tangent Table Ensemble](image-url)
4. Groupings of the table and chair ensembles are to be arranged in a manner that provides unobstructed access to the designated wheelchair spaces at either side of the table, so that 5% of the total fixed seating remains wheelchair accessible in a given site.

d. Benches (built-in or custom)
   i. Materials
      1. Built-in or custom benches are to be constructed of concrete, metal, or metal frames with hardwood seating and backrest surfaces
         a. Concrete mixes and aggregates used for built-in/custom benches must produce a finished color of gray and a light acid wash finish texture.
            i. Concrete finish samples are to be submitted and approved by the Office of the Campus Architect prior to construction/installation.
         b. Metals for built-in/custom benches should be finished with a powder-coating matching Forms and Surfaces “silver texture” powdercoat finish.
         c. Hardwoods used in built-in or custom benches are to be constructed of an Ipe or Jatoba species.
   ii. Application
      1. Built-in or custom benches are to be installed as a component of an overall or existing structure (i.e. benching that is integrated into the walls of a concrete planter box)
      2. Built-in/custom benches are to be installed in a manner that does not impede the pedestrian path of traffic or reduce the path’s overall width.

2. Trash and Recycling Receptacles
   a. Products
      i. The basis of design for campus trash and recycling receptacles are the Dispatch receptacle by Forms and Surfaces and the Bigbelly Solar Compactor by Big Belly
         1. The Dispatch receptacles are to be finished with Form and Surfaces’ “silver texture” powdercoat finish.
         2. The Dispatch 45 gallon, split-stream configuration (both litter and recycling) is the standard configuration for campus use.
         3. The Bigbelly receptacles are to be finished with the customized wrap option. Graphics for the wrap are to be specified by the Office of the Campus Architect. Proposed graphics must be approved by the Office of the Campus Architect prior to purchasing.
         4. The Bigbelly 150 gallon – high capacity, automatic compaction configuration is the standard configuration for campus use.
b. Application

   i. Dispatch receptacles are permitted to be installed along walkways, at building entrances and plazas.
   ii. Bigbelly stations are permitted along major walkways and at plazas, but not near building entrances.
   iii. Locations for the installation of trash and recycling receptacles are to be reviewed and approved by the designee of the Vice Chancellor for Administrative Services and the Office of the Campus Architect.
   iv. Trash and recycling receptacles are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.
   v. Trash and recycling receptacles are to be installed and oriented in a manner so that receptacle openings can be accessed via an accessible path of travel.

3. Bicycle Racks
   a. Products

      i. The basis of design for campus bicycle racks is the Olympia rack by Forms and Surfaces
         1. Bicycle racks are to be finished with Forms and Surface's "silver texture" powdercoat finish.
      ii. Any alternate bicycle rack products are to be reviewed and approved by the Office of the Campus Architect prior to purchasing.
b. Application
   i. New bicycle rack locations are to be reviewed and approved by the designee of the Vice Chancellor for Administrative Services and the Office of Campus Architecture prior to installation.
   ii. Bicycle racks are to be installed in a manner that does not impede the pedestrian path of travel or reduce the path’s overall width.
   iii. New bicycle racks to replace those at existing bicycle parking locations are permissible without review. Please refer to the UIC Office of Sustainability Bicycle Amenities Map for existing rack locations.
      1. Rack orientation and location at existing sites are to remain consistent with existing racks.
   iv. Bicycle racks are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.

4. Safety Bollards
   a. Products
      i. The basis of design for safety bollards are 4” diameter, 42” tall steel bollards.
         1. Bollards are to have a stainless steel finish and round caps.
         2. Mounting plates are to be 8” in diameter.
      ii. Alternate safety bollard products are to be reviewed and approved by the Office of the Campus Architect prior to purchasing.
b. Application
   i. Safety bollards are permitted for installation within major walkways that are directly connected or adjacent to roads so as to restrict vehicle infringement
      1. New safety bollard locations are to be approved by the Office of the Campus Architect prior to installation
   ii. When installed, safety bollards should allow a minimum clear path of 36" between each bollard.
   iii. Safety bollards are to be secured to its associated surface as stipulated in the Site Furnishings general requirement section

5. Light Fixtures
   a. Illumination Levels
      i. Exterior illumination levels must abide to the minimum levels stipulated in the IESNA Lighting Handbook. In particular, the standard stipulates the following:

<table>
<thead>
<tr>
<th>Exterior Space</th>
<th>Footcandles</th>
<th>Lux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Entrances</td>
<td>5 fc</td>
<td>50 lx</td>
</tr>
<tr>
<td>Inactive Entrances (Normally Locked)</td>
<td>3 fc</td>
<td>30 lx</td>
</tr>
<tr>
<td>Vital Locations (Security, Blue Boxes, etc.)</td>
<td>5 fc</td>
<td>50 lx</td>
</tr>
<tr>
<td>Building Surroundings</td>
<td>1 fc</td>
<td>10 lx</td>
</tr>
</tbody>
</table>

b. Lamp Type
   i. All exterior fixtures are to use LED technology

c. Poles
   i. Products
      1. The basis of design for lighted pole fixtures are as follows:
         a. The standard UIC tapered precast concrete pole
            i. UIC’s existing precast concrete pole measures 13'-1" in total height (not including the fixture lamp and housing)
            ii. The precast mix is to match Architectural Cast Stone’s (ACS) Mix# 2103
            iii. Precast samples are to be reviewed by the Office of the Campus Architect prior to installation.
            b. The Rincon pole light fixture from Forms and Surfaces
               i. The Rincon pole fixture is to have a stainless steel finish and squared stainless steel cap
               ii. The overall height of the fixture measures to 9'-9"
      2. Alternate pole light fixture products are to be reviewed and approved by the Office of the Campus Architect prior to purchasing.
ii. Application

1. New Rincon pole light fixtures are to be installed as a component of new transformational grounds site or new building project. All other grounds renovations must utilize the existing UIC concrete pole.
2. Pole light fixtures are to be installed in locations adjacent to walkways, at building perimeters for safety, and within open plaza and landscaped areas.
3. Final locations are to be approved by Campus Grounds
4. Pole light fixtures are to be installed in a manner that does not impede the pedestrian path of travel or reduce the path's overall width
5. Pole light fixtures are to be secured to its associated surface as stipulated by in the Site Furnishings general requirements section and the pole manufacturer’s requirements.

d. Bollards

i. Products

1. The basis of design for lighted bollards is the Rincon Bollard from Forms and Surfaces
2. Lighted bollards are to have a stainless steel finish and squared stainless steel cap.
3. Alternate lighted bollard products are to be reviewed and approved by the Office of the Campus Architect prior to purchasing.
ii. Application
1. Lighted bollards are to be installed in locations adjacent to major walkways
2. Final bollard locations are to be approved by the Office of the Campus Architect
3. Lighted bollards are to be installed in a manner that does not impede the pedestrian path of travel or reduce the path’s overall width
4. Lighted bollards are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.

e. Wall Sconces
i. Products
1. The basis of design for exterior wall sconce light fixtures are as follows:
   a. Sconces are to consist of a low profile, aluminum housing, protruding no more than 4" from the surface to which it is attached
   b. Sconces are to be powder coat finished with the University standard “Architectural Bronze”
   c. Sconces must include a photocontrol feature
   d. Wall sconce fixtures are to be downlight fixtures only.
2. Finishes and profile dimensions that vary from those described above must be approved by the Office of the Campus Architect.

ii. Application
1. Wall sconces are to be installed on vertical surfaces near walkways, exterior stairwells and within plazas.
2. Wall sconces are to be installed no lower than 4’ and no greater than 12’ above ground level.
   a. Required light levels must be maintained at installed elevation
3. Wall sconces are to be anchored according to the manufacturer’s requirements.
4. Associated junction boxes are to be concealed within the vertical surface when possible.
6. Outdoor Planters
   a. Freestanding
      i. Products
         1. The basis of design for new, freestanding planters is Wausau’s TF4035 36” diameter x 24” height concrete planter.
            a. Concrete planters are to be finished in Wausau’s **B15 White** weatherstone finish
         2. Alternate freestanding planter products are to be reviewed and approved by the designee of the Vice Chancellor for Administrative Services and the Office of the Campus Architect prior to purchasing.
      ii. Application
          1. New planter locations are to be reviewed and approved by the designee of the Vice Chancellor for Administrative Services prior to installation.
          2. Freestanding planters are to be installed in a manner that does not impede the pedestrian path of travel or reduce the path’s overall width.
          3. New freestanding planters to replace those at existing planter locations are permissible without review.
   b. Built-in or custom
      i. Materials
         1. Built-in planters are to be constructed of concrete.
            a. Color pigments and exposed aggregates require the approval of Campus Grounds and the Office of the Campus Architect.
            b. Stained and painted concrete finishes are prohibited for built-in planters.
            c. Concrete built-in planters are to be finished with a transverse light acid wash finish unless approved otherwise by the Office of the Campus Architect.
      ii. Application
          1. Built-in or custom planters are to be installed as a component of an overall or existing structure (i.e. a planter constructed as a component of a structure’s exterior wall).
          2. Built-in/custom planters are to be installed in a manner that does not impede the pedestrian path of traffic or reduce the path’s overall width.

7. Fencing
   a. Permanent
      i. Materials
         1. New permanent campus fencing is to be constructed of wrought iron with bolted connections.
            a. Wrought iron fencing is to be finished with a satin “Architectural Bronze” powder coating, electrostatically applied.
ii. Design Pattern
   1. Gate patterns are to adhere to the following stipulations:
      a. Fence panel sections are to be 9'-6" in width joined to 4" x 4" square tube posts on both sides
      b. Horizontal rail members will be 2" deep x ¾' tall.
      c. Vertical pickets are to be ¾" x ¾" in section and spaced 5 ½" on center within panel sections.

b. Powder coat finish must contain a UV fade inhibitor to resist fading over time.

ii. Application
   1. New permanent fencing locations are to be reviewed and approved by the Office of the Campus Architect prior to purchasing/installation.

b. Temporary
   i. Type
      1. Chain-link fences are allowed for temporary fencing at events or to contain construction sites.
      2. Silt fences are required for construction sites that may produce sediment or debris in order to contain those pollutants within the construction site.

   ii. Application
      1. Temporary fencing should correspond to the event/construction site that it is designed to contain.
      2. Temporary fencing should be installed in a manner that does not impede upon a pedestrian path of travel.

   iii. Maintenance
1. Temporary fences should be routinely maintained to ensure that:
   a. Chain-link fence supports and counterweights (sandbags, blocking, etc.) are intact and in place
   b. Silt fences are continuous without tearing so that site debris is properly contained.

2. Upon completion of construction or an event, temporary fencing and all accessories are to be removed from the campus grounds. Any damages to campus grounds or landscaping are to be remediated according to the stipulations made in section 2. Landscape & Plant Materials.
5. EXTERIOR ART
   a. General Requirements
      i. Existing
         1. Maintenance
            a. Maintenance and restorative procedures must be approved by the Office of
               the Campus Architect prior to execution.
               i. For restorative work a condition report of the assessed damages,
                  method of repair and estimated cost of repair must be provided
         2. Construction Requirements
            a. Protection
               i. During construction work where existing exterior artwork may be
                  impacted, temporary fencing or construction barrier must be
                  provided to the edge of the artwork’s concrete pad.
               ii. Exterior artwork exposed to construction work that may produce
                    debris (soil excavation, concrete demolition etc.) must be protected
                    with silt fencing and be covered
            b. Repair
               i. Cleaning is the responsibility of the contractor and required if
                  construction generated dust or debris impacts an existing piece of
                  exterior art. The cleaning method must be approved by the Office
                  of the Campus Architect prior to execution.
               ii. Damages made to existing exterior artwork are the responsibility of
                   the contractor and must be restored to their original condition or
                   satisfactory terms established by the Office of the Campus
                   Architect.
                   1. Exterior artwork damage repairs are based on the
                      recorded value of the piece impacted. In the event of
                      damage, the Office of the Campus Architect may specify
                      alternate improvements that equal the dollar value of the
                      loss incurred by the damage.
      ii. New
         1. Review Process
            a. Art-in-Architecture Program
               i. For construction or reconstruction of state funded, public buildings,
                  the Illinois Capital Development Board’s Art-in-Architecture
                  Program stipulates that an appointed Fine Art Review Committee
                  (FARC) is established on a project-by-project basis to review and
                  recommend artists or works of art for final selection. The final
                  artwork selection is then made by the Chair of the Illinois Art
                  Council.
            b. Non-CDB Funded Artwork
               i. Proposed exterior artwork that is not a component of an Illinois
                  Capital Development Board funded project is to be reviewed and
                  approved by a UIC fine art review committee. The final artwork
                  selection will be determined by the chair of the committee.
                  1. Proposal submittals should include the artwork’s
                     concept/intent, proposed site information, dimensioned
                     drawings, material samples, and if possible, scaled
                     physical models.
2. Installation
   a. New exterior artwork should be installed on top of an appropriately sized concrete/paved pad as stipulated in section 3. Paving.
      i. The pad must adequately support the load of its associated artwork and may require examination of the site's soil condition.
   b. Exterior artwork may not impede or reduce the overall width of walkways
      i. Artwork extending above walkways, building entrances, and plazas must provide 80" clearance at minimum
   c. Exterior artwork should not encroach upon existing tree driplines unless approved by the Office of the Campus Architect and the designee of the Vice Chancellor for Administrative Services

3. Maintenance
   a. It is preferred that a conservator be involved in the planning and design of proposed exterior artwork in the effort to prescribe maintenance schedules and procedures in addition to anticipating future challenges with various design decisions.
   b. Anticipated maintenance procedures are to be submitted along with new exterior artwork proposal submittals to the Office of the Campus Architect for review.