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.
            b. Trees immediately adjacent to any work shall have their limbs tied back for clearance. Contractor shall notify the University if pruning is needed for clearance before such pruning is done. Contractor to provide licensed arborist to perform all required pruning.
            c. Vehicles, equipment, and materials are not to be stored under drip lines. Travel under drip lines is not permitted except as necessary to perform the work. Travel under drip lines shall be allowed only with root protection conditions: Protect from root compaction, protect sail within drip line from compaction.
         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. The “Guide for Establishing Values of Trees and Other Plants” by the International Society of Arboriculture, latest edition, will be used to establish such value. 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. General Requirements

i. UIC’s Tree Care Plan should be referenced in regards to campus forest goals such as biodiversity and native species.

b. 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
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.

c. 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

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

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.

d. 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>Pennisetum rubrum</td>
<td>Hemerocallis – Little Wine Cup</td>
</tr>
<tr>
<td><img src="image1" alt="Pennisetum rubrum" /></td>
<td><img src="image2" alt="Hemerocallis – Little Wine Cup" /></td>
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<tr>
<td>Zinnia Zahara Sunburst</td>
<td>Perovskia atriplicifolia - Little Spire</td>
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<tr>
<td><img src="image3" alt="Zinnia Zahara Sunburst" /></td>
<td><img src="image4" alt="Perovskia atriplicifolia - Little Spire" /></td>
</tr>
<tr>
<td>Coleus Henna</td>
<td>Salvia Coaradonna</td>
</tr>
<tr>
<td><img src="image5" alt="Coleus Henna" /></td>
<td><img src="image6" alt="Salvia Coaradonna" /></td>
</tr>
<tr>
<td>Dichondra Silver Falls</td>
<td></td>
</tr>
<tr>
<td><img src="image7" alt="Dichondra Silver Falls" /></td>
<td></td>
</tr>
<tr>
<td>Lava® Tulip</td>
<td></td>
</tr>
<tr>
<td><img src="image8" alt="Lava® Tulip" /></td>
<td></td>
</tr>
</tbody>
</table>
### Partial Shade - Annuals

<table>
<thead>
<tr>
<th>Begonia Big Red</th>
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</table>

### Partial Shade - Perennials

<table>
<thead>
<tr>
<th>Allium Summer Beauty</th>
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<table>
<thead>
<tr>
<th>Salvia Black &amp; Blue</th>
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<table>
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<tr>
<th>Nepeta Walker's Low</th>
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</thead>
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<table>
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<tr>
<th>Hosta August Moon</th>
</tr>
</thead>
</table>

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

**ii. Application**

1. Flowers are permitted to be planted at the following locations:
   a. As components of designed landscapes and planters
   b. Near borders of major walkways, so that flower growth does not extend onto walking hard surfaces.

2. Annual flowers need to be watered every other day until establishment.

3. The prescribed flower species require full sun exposure.

**c. Ground Cover**

   **i. Species**
   1. The following materials are acceptable for use as groundcover:
      a. Euonymus fortune Coloratus (Evergreen groundcover)
      b. Mulch (deep brown color)
      c. Gray pea gravel (1/4" size)

   **ii. Application**
   1. Euonymus fortune Coloratus requires partial exposure to sunlight and well-drained soil. It should be implemented
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"H 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. Tectura Design'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 Tectura’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. Tectura Design’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 Tectura 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.

Pedestrian sidewalk stretching between Student Center East and the Lecture Center Complex
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.

The main paved path leading to the Lecture Center complex is an example of an existing major walkway on campus.

UIC
Office of the Campus Architect

Pedestrian Sidewalk
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.
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

   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 ELEMENTS AND FURNISHINGS
   a. General Requirements
      i. Locations
         1. In general, locations of new site elements and furnishings must be approved by the Office of the Campus Architect, unless new furnishings are replacing existing furnishings of the same kind (i.e. a new light post to replace a broken light post)
            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 Elements and 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. Wood products must bear FSC certification
                     c. Armrests and steel frames are to be finished with Form & Surfaces’ “silver texture” powdercoat finish
                     d. The standard bench length dimension to be used on campus is 8’-0”
                     e. 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. Wood products must bear FSC certification
   c. Steel frames are to be finished with Form & Surfaces’ “silver texture” powdercoat finish
   d. The standard picnic ensemble length dimension is 8’-0” for both the table and benches.
   e. 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. Wood products must bear FSC certification.
   c. Steel frames are to be finished with Form & Surfaces' "silver texture" powder coat finish.
   d. The standard four seat option is mandatory, as it maintains ADA compliant wheelchair accessibility.
   e. 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

ii. Application
1. Freestanding table and chair ensembles are permitted to be installed as a component of plazas and within designed landscape areas, but not near building entrances.
2. Table and chair ensembles are to be installed in a manner that does not impede the pedestrian path of traffic or reduce the path's overall width.
3. Table and chair ensembles are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.

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.
Dispatch Trash and Recycling Receptacle

Bigbelly Station with Custom Wrap

b. Application
   i. Trash and recycling receptacles are to be secured to its associated surface as stipulated in the Site Furnishings general requirements section.
   ii. 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.

c. Locations
   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. Dumpsters are to be located out of view from building entrances and major pedestrian walkways.
      1. When this is not achievable, dumpster enclosures must be installed
      2. Dumpster enclosure locations, materials, and detailing require pre-approval from the Office of the Campus Architect.

3. Bicycle Racks
   a. Products
i. The basis of design for campus bicycle racks includes: the Emerson rack by Landscape Forms and an inverted “U” bicycle rack.

   1. Bicycle racks are to be finished with a silver 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
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.
   a. When this is not possible, junction boxes, wiremold, etc. must be finished to match the University standard “Architectural Bronze”

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

      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.

Dimensioned fence section
2. Alternate designs and patterns for permanent fencing must be approved by the Office of the Campus Architect.

iii. 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.

8. Retaining Walls
a. Materials
i. Retaining walls are to be constructed of concrete or unit masonry.
ii. Concrete mixes used for new retaining walls must be of a light gray color.
iii. Finish of cast-in-place retaining walls should be a rubbed finish and precast concrete retaining walls should have a light acid wash.
iv. Retaining walls built adjacent to or to repair existing retaining walls should match in material, color and finish. Unit masonry used to repair existing masonry retaining walls should match in dimension, unit color and mortar color.
v. Unit masonry used for new retaining walls requires pre approval from the Office of the Campus Architect.

b. Application
i. Retaining wall locations, design drawings and material samples must be submitted and approved by the Office of the Campus Architect.

9. Mechanical Equipment and Enclosures
a. Mechanical equipment should be located out of view from building entrances and major pedestrian walkways.
b. When this is not achievable, an enclosure or screen wall system must be installed.

c. Enclosure/screen wall locations, materials and detailing require pre-approval from the Office of the Campus Architect
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.