



CAMPUS DESIGN

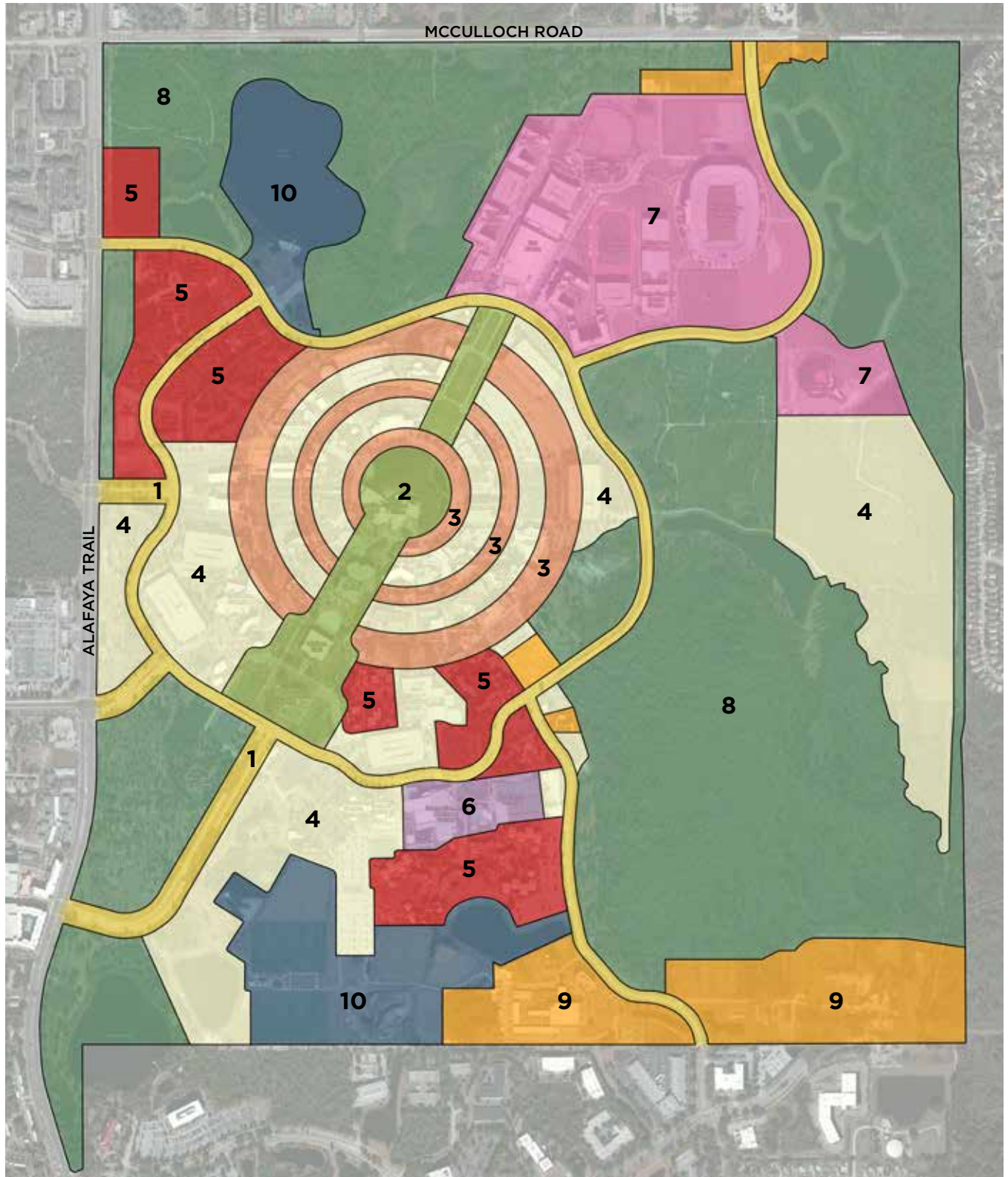
# STANDARDS



# CAMPUS DESIGN STANDARDS

*These Campus Design Standards provide technical information on products and materials that should be used when designing projects on the UCF campus. In an effort to distinguish the unique character of each of the ten districts yet still provide for a unified approach to the materials specified, a preferred palette was chosen for paving, furnishings, lighting, and landscape plants. Planning and design professionals are strongly encouraged to specify the materials found within these Design Standards in order to realize the vision of the Campus Master Plan. As is always the case, "or equal" materials, furnishings, fixtures, etc. may be submitted for approval if they are of equal quality and are aesthetically similar to those found in these guidelines. Deviations from the guidelines are permitted under certain circumstances. If an "or equal" or aesthetic deviation is preferred, a request must be submitted per UCF requirements.*

-  DISTRICT 1: Campus Streetscapes
-  DISTRICT 2: Central Axis
-  DISTRICT 3: Campus Circles
-  DISTRICT 4: General Campus
-  DISTRICT 5 : Residential Areas
-  DISTRICT 6: Recreation and Wellness Areas
-  DISTRICT 7: Athletics, and the Knights Plaza
-  DISTRICT 8: Natural Areas
-  DISTRICT 9: Campus Support and Research Areas
-  DISTRICT 10: Outdoor Recreation



# SITE PAVING

*Site paving adds to the overall character of the campus landscape. The dominant paving material for pedestrian walks will be concrete, but other paving materials may be used on select pedestrian areas of the campus to provide a hierarchy of spaces and to enhance the uniqueness of each district.*

## 1.1 CONCRETE



### 1.1.1 BROOM FINISH, UNCOLOR

#### **Specifications**

#### **Material:**

All concrete sidewalks under ten feet in width shall be a minimum of 6-inches thick, reinforced with fiber mesh conforming under the current American Concrete Institute standards. Total edge thickness shall be increased to a minimum of 14-inches. Sidewalks ten feet and greater in width shall use fiber mesh concrete and be a minimum of 8-inches thick with edge thickness increased to a minimum of 16-inches total, and it shall contain two #5 rebar.

#### **Finish:**

Floated and troweled with medium broom

#### **Control Joints:**

Saw-cut to squared relief. All plans shall indicate control joint locations.

#### **Expansion Joints:**

Shall be in accordance with current ANSI and ASTM standards.

#### **Location**

All Districts



### 1.1.2 BROOM FINISH, COLOR

**Specifications**

- Material:** See 1.1.1 BROOM FINISH, UNCOLOR for material specifications.
- Finish:** Floated and troweled with medium broom
- Color:** Acceptable with Approval
- Control Joints:** Saw-cut to squared relief. All plans shall indicate control joint locations.
- Expansion Joints:** Shall be in accordance with current ANSI and ASTM standards.

**Location**

- District 6
- District 7

## 1.2 BRICK



### 1.2.1 CLASSIC SQUARE EDGE

**Specifications**

- Manufacturer:** Pine Hall Brick
- Material:** 4-inch by 8-inch rectilinear brick with square edges
- Base:** Minimum 6-inch thick concrete slab with 6 x 6 #10 wire mesh reinforcement; edge thickness shall be increased to a minimum of 8-inches
- Color:** Pathway Autumn
- Contact:** (800) 334 - 8689
- Website:** [www.pinehallbrick.com](http://www.pinehallbrick.com)

**Location**

- District 1
- District 2
- District 3
- District 4
- District 5
- District 7

**1.3 SPECIALTY PAVERS**



**1.3.1 SPECIALTY PAVERS**

**Specifications**

**Material:** Concrete, asphalt, granite, natural stone, or other upon approval

**Base:** Minimum 6-inches thick concrete slab with 6 x 6 #10 wire mesh reinforcement; edge thickness shall be increased to a minimum of 8-inches

**Color and Pattern:** Any upon approval

**Location**

District 1

District 7

## 1.4 PERVIOUS PAVERS



### 1.4.1 PERVIOUS PAVERS

#### **Specifications**

<b>Manufacturer:</b>	Belgard
<b>Material:</b>	Aqua-Bric
<b>Base:</b>	As required by manufacturer
<b>Color:</b>	Harvest Blend
<b>Contact:</b>	(877) 235 - 4273
<b>Website:</b>	<a href="http://www.belgard.com">www.belgard.com</a>

#### **Location**

District 1

Within roadways, parking, and service areas of Other Districts

**1.5 AGGREGATE**



**1.5.1 DECOMPOSED GRANITE**

**Specifications**

**Material:** 4" decomposed granite on geotextile fabric for pedestrian zones; 6" decomposed granite on geotextile fabric for vehicular zones

**Base:** Compacted subgrade

**Edging:** Aluminum or PVC

**Location**

District 8

District 10



## 1.6 ASPHALT



### 1.6.1 ASPHALT

#### **Application**

Asphalt can be used for vehicular roadways and parking lots. Service areas that are not shared with pedestrians may also be paved in asphalt. All asphalt must be curbed.

#### **Specifications**

##### **Material:**

All asphalt paving material and installation should comply with Florida Department of Transportation requirements. Material should be paved to a depth determined by the Engineer of Record with Owner approval.

##### **Color:**

Black

Colored and/or stamped asphalt is not permitted.

#### **Location**

District 1

Within roadways, parking, and service areas of Other Districts

## 1.7 BOARDWALK



### 1.7.1 BOARDWALK

#### **Specifications**

##### **Material:**

Pressure-treated pine used only for structure; Trex recycled wood and plastic used for decking and handrail

##### **Color:**

None

##### **Contact:**

(800) 289 - 8739

##### **Website:**



















[www.trex.com](http://www.trex.com)

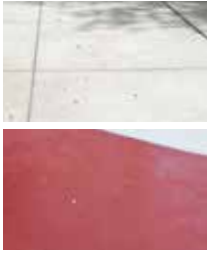
















#### **Location**

District 2

District 8

District 10

	District 1	District 2	District 3	District 4	District 5
1.1 CONCRETE					
1.2 BRICK					
1.3 SPECIALTY PAVERS					
1.4 PERVIOUS PAVERS					
1.5 AGGREGATE					
1.6 ASPHALT					
1.7 BOARDWALK					

	District 6	District 7	District 8	District 9	District 10
1.1 CONCRETE					
1.2 BRICK					
1.3 SPECIALTY PAVERS					
1.4 PERVIOUS PAVERS					
1.5 AGGREGATE					
1.5 ASPHALT					
1.7 BOARDWALK					



# SITE FURNISHINGS

*Site furnishings play an important role on campus. They contribute to the functionality of the landscape and together help create a defining character for the campus. This section of the Design Standards establishes campus standards for benches, tables and chairs, umbrellas, receptacles, bike racks, planters, and more in an effort to deliver a consistent and clear identity for the campus.*

## 2.1 BENCHES



### 2.1.1 PRESIDIO

#### **Application**

Landscape Forms' Presidio should be used as the standard campus bench. The individual seats allow for variations in groupings and makes damaged seats easily replaceable. Benches should be backed and in-ground mounted.

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Presidio Backed Bench
<b>Color:</b>	Black
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

District 1  
District 4  
District 9



## 2.1.2 SCARBOROUGH

### **Application**

The Scarborough Bench should be used as the bench for residential areas. The horizontal slats give the bench a clean and elegant look. The specified bench should be 72 inches long and backed with arms.

### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Scarborough Backed Bench
<b>Color:</b>	Black
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

### **Alternatives**

Dumor's Bench 160  
Victor Stanley's FMS-324

### **Location**

District 5



## 2.1.3 ARCATA

### **Application**

The benches at the Recreation and Wellness Areas and the Athletics and North End should be unique to these two districts. The Arcata Bench offers the classic, slatted bench in contemporary forms and will perfectly blend into the more modern setting within a traditional campus. The Arcata Benches should be 74 inches long and backed with arms.

### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Arcata Backed Embedded Bench
<b>Color:</b>	Silver with Aluminum
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

### **Location**

District 6  
District 7



### 2.1.4 ABRIL

#### **Application**

The Abril Bench serves as an update to the existing concrete benches scattered along the campus. The simplicity of its form will integrate beautifully along the campus' Central Axis. These new, backless concrete benches should be placed along the outside edge of walkways where there is a desire for sitting and gathering. Based on their location, they should be placed in groups of 2 to 4 within the shade of large canopy trees.



#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Abril Bench
<b>Color:</b>	Beige
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

District 2



### 2.1.5 SOCRATES

#### **Application**

The Socrates Bench acts as a faux seat wall. They should be placed along the outside edge of walkways where there is a desire for sitting and gathering. Based on their location, they should be placed in groups of 2 to 4 within the shade of large canopy trees.

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Socrates Bench
<b>Color:</b>	Beige
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

District 3





### 2.1.6 LUNGO MARE

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Lungo Mare
<b>Style:</b>	Any upon approval
<b>Color:</b>	Beige
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

Within plazas and gathering areas of Districts 2 & 3



### 2.1.7 MILENIO

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Milenio
<b>Style:</b>	Any upon approval
<b>Color:</b>	Beige
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

Within plazas and gathering areas of Districts 2 & 3

## 2.2 TABLES & CHAIRS



### 2.2.1 CAROUSEL SEATING

#### **Application**

Tables and chairs should be provided in long-term pedestrian gathering areas. The Carousel Seating is durable and comfortable to sit in. Either five or six seats with the integrated back should be provided. The five-seat style accommodates users in wheel chairs. For areas that are not covered with shade structures, an umbrella holder must be provided on the tabletops. The tables and chairs should be surface-mounted to concreted based on the manufacturer's installation instructions.

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Carousel Seating
<b>Color:</b>	Black; Silver for Districts 6 & 7; RAL 1003 (UCF Gold) Table Top upon approval
<b>Style:</b>	Backed; 5 or 6 Seats
<b>Seat Panel:</b>	Grid
<b>Table Top:</b>	Steelhead Perforated Top or Catena Stainless Steel
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Alternatives**

Thomas Steele's Cunningham Tables  
 Thomas Steele's State Street Tables  
 DuMor's Table 101

#### **Location**

District 2  
 District 3  
 District 4  
 District 5  
 District 6  
 District 7  
 District 9

**2.3 UMBRELLAS**



**2.3.1 SOLSTICE CYGNUS**

**Specifications**

**Manufacturer:** Landscape Forms  
**Product Number:** Solstice Umbrella  
**Style:** Cygnus  
**Color:** Black;  
 Silver for Districts 6 & 7;  
 RAL 1003 (UCF Gold) upon approval  
**Contact:** (800) 441 - 1945  
**Website:** [www.landscapeforms.com](http://www.landscapeforms.com)

**Location**

- District 2
- District 3
- District 4
- District 5
- District 6
- District 7
- District 9



## 2.4 LITTER & RECYCLING RECEPTACLES



### 2.4.1 SCARBOROUGH LITTER

#### **Application**

The Scarborough Litter and Recycling Receptacles have a 30 gallon capacity with a side door that swings open for easy replacement of trash bags. The side-opening model should be selected to prevent the trash bag from filling with water during rainstorms. Receptacles should be surface-mounted to concrete based on the manufacturer's installation instructions and located at least 10 feet away from benches and tables. Litter receptacles should always be placed to the left, and recycling receptacles should be placed to the right.

#### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Scarborough Litter Receptacle SC999-061310-2SG94-UCF-02-E-BLACK
<b>Style:</b>	Side-opening
<b>Pattern:</b>	Vertical Strap
<b>Color:</b>	Black Powdercoat; Silver Powdercoat for District 6 & 7
<b>Signage:</b>	UCF Landfill Logo in RAL 1030 under openings
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

#### **Location**

District 1  
District 2  
District 3  
District 4  
District 5  
District 6  
District 7  
District 9



## 2.4.2 SCARBOROUGH RECYCLING

### **Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Scarborough Recycling Receptacle SC999-0613102-04-SG94-UCF-E-BLACK
<b>Style:</b>	Combo Slot and 5" Diameter Opening
<b>Pattern:</b>	Vertical Strap
<b>Color:</b>	Black Powdercoat; Silver Powdercoat for District 6 & 7
<b>Signage:</b>	UCF Recycling Logo in RAL 1003 on body and Recycling Symbol on lid in RAL 1003
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>



### **Location**

- District 1
- District 2
- District 3
- District 4
- District 5
- District 6
- District 7
- District 9

## 2.5 BIKE RACKS



### 2.5.1 BIKE RACK 83

#### ***Application***

DuMor's 83 Series bike rack should be installed on a paved pad along a walkway within close proximity of building entrances. They must be embedded into the surface and spaced 30 inches on center from one another. Each bike rack can secure up to two bicycles parked parallel to the rack.

#### ***Specifications***

<b>Manufacturer:</b>	DuMor
<b>Product Number:</b>	83 Embedment Powder Coat
<b>Color:</b>	Black
<b>Contact:</b>	(800) 598 - 4018
<b>Website:</b>	<a href="http://www.dumor.com">www.dumor.com</a>

#### ***Alternatives***

Victor Stanley's BRWS-101 Bike Rack

#### ***Location***

District 1  
District 3  
District 4  
District 5  
District 6  
District 7  
District 9





## 2.5.2 KEY

### ***Application***

The Key Bike Rack is made of a yellow polyurethane plastic molded over a steel tubing with a silver aluminum base and adds an instant pop of color to the campus. They must be embedded into the surface and spaced 30 inches, on center, from one another. Each Bola Bike Rack can secure up to two bicycles parked parallel to the rack.

### ***Specifications***

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Key Bike Rack
<b>Color:</b>	Yellow
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

### ***Location***

District 2

**2.6 PLANTERS**



**2.6.1 ROSA**

**Application**

The Rosa Planter should be the primary planter for the campus. These planters are durable and ideal for high traffic areas. For Districts 6 through 10, any planter will be acceptable with approval.

**Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Rosa Planter
<b>Size:</b>	Any upon approval
<b>Color:</b>	Any upon approval
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

**Location**

- District 1
- District 4
- District 5



**2.6.2 LARKSPUR**

**Specifications**

<b>Manufacturer:</b>	Landscape Forms
<b>Product Number:</b>	Larkspur Planter
<b>Size:</b>	Any upon approval
<b>Color:</b>	Any upon approval
<b>Contact:</b>	(800) 441 - 1945
<b>Website:</b>	<a href="http://www.landscapeforms.com">www.landscapeforms.com</a>

**Location**

- District 2
- District 3

## 2.7 BOLLARDS



### 2.7.1 CUSTOM BOLLARD

#### **Specifications**

**Material:** 4" or 6" diameter steel pipe filled with concrete and wrapped with a rubber sleeve

**Color:** Black for landscape areas; Yellow for roads

#### **Location**

All Districts

## 2.8 WATER STATIONS



### 2.8.1 WATER BOTTLE FILLING STATION

#### **Specifications**

<b>Manufacturer:</b>	Elkay or approved equal
<b>Product Number:</b>	LK4400BF Outdoor EZH2O Bottle Filling Station
<b>Color:</b>	Black; Gray for Districts 6 and 7
<b>Contact:</b>	(630) 574 - 8484
<b>Website:</b>	<a href="http://www.elkay.com">www.elkay.com</a>

#### **Location**

District 2  
District 3  
District 6  
District 7  
District 10

## 2.9 OUTDOOR CHARGING STATIONS

### 2.9.1 OUTDOOR CHARGING STATIONS

#### **Application**

The Power Pedestal by Legrand allows students to charge their mobile devices in the outdoor campus environment. It offers a combination of standard power outlets and USB outlets. Shelves for holding the devices can be added as an option.

#### **Specifications**

**Manufacturer:** Legrand, Supplied through Landscape Forms

**Product Number:** Power Pedestal

**Color:** Black

**Contact:** (800) 441 - 1945

**Website:** [www.landscapeforms.com](http://www.landscapeforms.com)

#### **Location**

District 2

District 3


























District 4

District 6

District 7





	District 1	District 2	District 3	District 4	District 5
<b>2.1 BENCHES</b>		  	  		
<b>2.2 TABLES &amp; CHAIRS</b>					
<b>2.3 UMBRELLAS</b>					
<b>2.4 LITTER &amp; RECYCLING RECEPTACLES</b>					
<b>2.5 BIKE RACKS</b>					
<b>2.6 PLANTERS</b>					
<b>2.7 BOLLARDS</b>					
<b>2.8 WATER STATIONS</b>					
<b>2.9 OUTDOOR CHARGING STATIONS</b>					

	District 6	District 7	District 8	District 9	District 10
2.1 BENCHES					
2.2 TABLES & CHAIRS					
2.3 UMBRELLAS					
2.4 LITTER & RECYCLING RECEPTACLES					
2.5 BIKE RACKS					
2.6 PLANTERS					
2.7 BOLLARDS					
2.8 WATER STATIONS					
2.9 OUTDOOR CHARGING STATIONS					

# LIGHTING

*Lighting plays a significant role on campus. Site lighting enhances the campus by day, especially when used to display banners, as well as by night, when campus lighting contributes to campus safety as well as campus characterized by highlighting significant elements within the landscape. Designers shall get lighting specifications from the University.*

## 3.1 ROADWAY & PARKING LOT LIGHTING

### 3.1.1 PUREFORM AREA LARGE LED

**Application**

Philips Gardco PureForm Area Large LED Array should be used along the entry drives and Gemini Boulevard. They should flank the roadway to illuminate the roadbed and the adjacent pedestrian walkways. The double arm configuration should be used to light parking lots. Banner arms and banners should be provided in designated areas.

**Specifications**

- Manufacturer:** Gardco by Philips Lighting
- Product Number:** P32
- Contact:** (855) 486 - 2216
- Website:** [www.philips.com/luminaires](http://www.philips.com/luminaires)

**Location**

Within pedestrian walks and gathering areas of All Districts



### 3.2 PEDESTRIAN LIGHTING



#### 3.2.1 TOWNGUIDE LED CLASSIC T POST

##### **Application**

Philips Lumec TownGuide LED Classic T should be used in all pedestrian zones on campus. They should be mounted to a 12 foot tapered brushed aluminum pole on a concrete base and installed along the outside edge of the walkways and gathering areas.

##### **Specifications**

<b>Manufacturer:</b>	Lumec by Philips Lighting
<b>Product Number:</b>	PBDP103
<b>Contact:</b>	(855) 486 - 2216
<b>Website:</b>	<a href="http://www.philips.com/luminaires">www.philips.com/luminaires</a>

##### **Location**

Within pedestrian walks and gathering areas of All Districts

**3.3 LIGHTING POLES**

**3.3.1 LUMFIX SMART POLE**

**Application**

Lumca's Lumfix Smart Poles allow the addition of a wide range of accessories, such as cameras, speakers, outlets, receptacles, and charging stations, to light poles. The Lumfix comes in various sizes to accommodate different lighting needs.

**Specifications**

**Manufacturer:** Lumca  
**Product Number:** Lumfix Smart Pole  
**Contact:** (877) 650 - 1693  
**Website:** www.lumca.com

**Location**











District 2  
 District 3



	District 1	District 2	District 3	District 4	District 5
<b>3.1 ROADWAY LIGHTING</b>					
<b>3.2 PEDESTRIAN LIGHTING</b>					
<b>3.3 LIGHTING POLES</b>					



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	District 6	District 7	District 8	District 9	District 10
<b>3.1 ROADWAY LIGHTING</b>					
<b>3.2 PEDESTRIAN LIGHTING</b>					
<b>3.3 LIGHTING POLE</b>					

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# LANDSCAPE

*The selection of the appropriate plant material for use on any project on the UCF campus is critically important. Experience has shown that there are specific soil profiles and environmental considerations that can vary throughout the campus, resulting in a specified plant species thriving in one area and not another. Landscape architects are strongly encouraged to visit the area of campus where the project they are designing is located in order to determine the appropriate plant palette.*

*As stated in the Landscape Master Plan, of which these Design Standards are a part, the intent of the planting design should be to match the surrounding context and to minimize the excessive use of a variety of plant species on any particular project to create a bolder landscape approach and a more natural landscape. The use of native and naturalized plants is strongly encouraged, but just as important is the use of the right plant in the right place, grouped with other plants with similar requirements. Designers are also encouraged to think of the maintenance implications of their designs and the campus grounds maintenance staff who must care for these landscapes.*

*Specific requirements regarding the use of the plants that are specified by the designer are limited. These include permitting only Florida #1 quality plants, palms, and trees as determined by the latest edition of Florida Grades and Standards for Nursery Plants. No shrubs and groundcover plants, with the exception of those used for wetland restoration projects, shall be smaller than 1 gallon container size. In most instances, 3 gallon container shrubs will be the expected specified size. For trees, field-grown is required to be from a Roots Plus Grower. In addition, all canopy trees shall be no smaller than 3" diameter breast height (DBH) and no larger than 4 1/2" DBH. Small trees shall be no smaller than 2" DBH. Multi-trunk trees shall have a minimum of three trunks, and palm trees shall be a minimum of 10' clear trunk. All trees shall have at least one irrigation bubbler. Larger trees shall have multiple irrigation bubblers.*

*All landscape work must meet the requirements of the UCF standard planting specification Section 32 93 00 - LANDSCAPE. Deviations will be permitted upon approval.*

Light	Soil
● Sun	💧 Well-drained Soil
◐ Partially Shaded Areas	💧💧 Moderately Drained Soils
◑ Shaded Areas	💧💧💧 Poorly Drained Soils / Wetter Conditions

**4.1 CANOPY TREES**

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Acer rubrum</i>	Red Maple	☒	Medium	●●○	☒ = ●●●●
<i>Carya glabra</i>	Pignut Hickory	☒	High	●●○○	☒ = ●●
<i>Gordonia lasianthus</i>	Loblolly Bay	☒	Low	●●○	☒ = ●●●●
<i>Liquidambar styraciflua</i>	Sweetgum	☒	Medium	●●○	☒ = ●●
<i>Liriodendron tulipifera</i>	Tulip Poplar	☒	Medium	●●○	☒ = ●
<i>Magnolia grandiflora</i>	Southern Magnolia	☒	Medium	●●○	☒ = ●●
<i>Pinus Elliottii 'Densa'</i>	Southern Slash Pine	☒	High	●●○	☒ = ●●
<i>Pinus taeda</i>	Loblolly Pine		Medium	●	☒ = ●●
<i>Platanus occidentalis</i>	Sycamore, American Planetree	☒	Medium	●●○	☒ = ●●●●
<i>Quercus geminata</i>	Sand Live Oak	☒	High	●	☒ = ●
<i>Quercus laevis</i>	Turkey Oak	☒		●●○	☒ = ●
<i>Quercus nuttallii</i>	Nuttall Oak		Medium	●	☒ = ●●
<i>Quercus phellos</i>	Willow Oak	☒	High	●	☒ = ●
<i>Quercus falcata</i>	Southern Red Oak	☒	High	●	☒ = ●
<i>Quercus shumardii</i>	Shumard Oak	☒	High	●	☒ = ●●●
<i>Quercus virginiana</i>	Live Oak	☒	High	●●○	☒ = ●●
<i>Taxodium distichum</i>	Bald Cypress	☒	High	●	☒ = ●●●●

## 4.2 SMALL TREES

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Betula nigra</i> 'Dura Heat'	River Birch	N	Low	●●○	☾ = ●●●●
<i>Callistemon viminalis</i>	Bottlebrush		High	●●○	☾
<i>Carpinus caroliniana</i>	American Hornbeam	N	Medium	●●○○	☾ = ●●●●
<i>Cercis canadensis</i>	Eastern Redbud	N	High	●●○○	☾
<i>Chionanthus virginicus</i>	Fringetree	N	Medium	●●○○	☾ = ●●●
<i>Elaeocarpus decipiens</i>	Japanese Blueberry		High	●●○	☾
<i>Eriobotrya japonica</i>	Loquat		Medium	●●○	☾
<i>Ilex x attenuata</i> 'Eagleston'	Eagleston Holly	N	Medium	●●○	☾
<i>Ilex opaca</i>	American Holly	N	High	●●○	☾
<i>Juniperus virginiana</i>	Red Cedar	N	High	●●○	☾
<i>Lagerstroemia indica</i>	Crape Myrtle		High	●	☾ = ●●●
<i>Ligustrum japonicum</i>	Japanese Privet		High	●●○	☾
<i>Myrica cerifera</i>	Wax Myrtle	N	Medium	●●○	☾ = ●●●●
<i>Prunus angustifolia</i>	Chickasaw Plum	N	High	●●○	☾
<i>Salix babylonica</i>	Weeping Willow		None	●	☾ = ●●●●
<i>Tabebuia caraiba</i>	Silver Trumpet Tree		High	●●○	☾
<i>Tabebuia impetiginosa</i>	Purple Trumpet Tree		High	●	☾
<i>Tabebuia umbellata</i>	Yellow Trumpet Tree		Medium	●	☾
<i>Ulmus alata</i>	Winged Elm	N	High	●●○	☾ = ●●●●
<i>Ulmus americana</i>	American Elm	N	High	●●○	☾ = ●●●●
<i>Ulmus parvifolia</i>	Chinese Elm, Lacebark Elm		High	●●○	☾ = ●●●

**4.3 PALM TREES**

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Acoelorrhaphe wrightii</i>	Paurotis Palm	N	Medium	●●○	☒☒☒
<i>Arenga engleri</i>	Sugar Palm			●●○	☒
<i>Bismarckia nobilis 'Silver Select'</i>	Bismarck Palm		High	●●○○	☒
<i>Butia capitata</i>	Pindo Palm, Jelly Palm		High	●●○	☒
<i>Chamaerops humilis</i>	European Fan Palm		High	●●○	☒
<i>Copernicia alba</i>	Caranday Wax Palm		Medium	●●○	☒☒
<i>Dypsis decaryi</i>	Triangle Palm		Medium	●●○	☒☒☒
<i>Livistona chinensis</i>	Chinese Fan Palm		High	●●○	☒
<i>Livistonia decora</i>	Ribbon Palm		Medium	●	☒
<i>Livistonia nitida</i>	Fountain Palm				
<i>Phoenix canariensis</i>	Canary Island Date Palm		High	●●○	☒☒☒
<i>Phoenix dactylifera 'Medjool'</i>	Medjool Date Palm		High	●●○	☒☒☒
<i>Phoenix roebelenii</i>	Pigmy Date Palm		Medium	●●○	☒☒☒☒
<i>Phoenix sylvestris</i>	Wild Date Palm		High	●●○	☒☒☒
<i>Rhapidophyllum hystrix</i>	Needle Palm	N	Medium	●●○○	☒☒
<i>Rhapis excelsa</i>	Lady Palm		Medium	●●○	☒
<i>Roystonea regia</i>	Royal Palm	N	Medium	●●○	☒☒☒
<i>Sabal causiarum</i>	Puerto Rican Hat Palm		High	●	☒
<i>Sabal Minor</i>	Dwarf Palmetto	N	High	●●○○	☒☒☒
<i>Sabal palmetto</i>	Cabbage Palm	N	High	●●○	☒☒☒☒
<i>Serenoa repens</i>	Green Saw Palmetto	N	High	●●○○	☒
<i>Serenoa repens 'Cinerea'</i>	Silver Saw Palmetto	N	High	●●○○	☒
<i>Wodyetia bifurcata</i>	Foxtail Palm		Medium	●●○	☒



## 4.4 SHRUBS

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Agapanthus africanus</i>	Blue Lily of the Nile		Medium	●●○	💧
<i>Agave Americana</i>	Century Plant		High	●	💧
<i>Allamanda cathartica</i>	Yellow Allamanda		Medium	●○	💧
<i>Alpinia zerumbet</i>	Shell Ginger		Low	●●○	💧 = 💧💧💧
<i>Aspidistra elatior</i>	Cast Iron Plant		Medium	●○	💧
<i>Bambusa spp.</i>	Bamboo		Medium	●●○	💧💧
<i>Bougainvillea cvs.</i>	Bougainvillea		High	●●○	💧
<i>Coccoloba uvifera</i>	Seagrape	ℵ	High	●●○	💧
<i>Crinum asiaticum</i>	Crinum Lily	ℵ	Medium	●●○	💧
<i>Crinum americanum</i>	Swamp Lily	ℵ	Low	●●○	💧 = 💧💧💧
<i>Codiaeum variegatum</i>	Croton		Low	●	💧
<i>Dianella tasmanica</i> 'Variegata'	Variegated Flax Lily		High	●●○	💧
<i>Furcraea foetida</i>	False Agave		High	●●○	💧
<i>Galphimia glauca</i>	Thryallis, Rain-of-Gold		Medium	●	💧
<i>Hamelia patens</i>	Firebush	ℵ	Medium	●●○	💧 = 💧💧
<i>Hamelia patens compacta</i>	Dwarf Firebush	ℵ	Medium	●●○	💧 = 💧💧
<i>Hibiscus spp.</i>	Hibiscus	ℵ	Medium	●●○	💧 = 💧💧
<i>Hymenocallis latifolia</i>	Perfumed Spider Lily	ℵ	High	●●○	💧
<i>Ilex cornuta</i> 'Carissa'	Carissa Holly		High	●●○	💧 = 💧💧
<i>Ilex cornuta</i> 'Needlepoint'	Needlepoint Holly		High	●●○	💧
<i>Ilex vomitoria</i> 'Nana'	Dwarf Yaupon Holly	ℵ	High	●●○	💧 = 💧💧💧
<i>Ilex x attenuata</i> 'Eagleston'	Eagleston Holly	ℵ	Medium	●●○	💧
<i>Illicium parviflorum</i>	Yellow Anise	ℵ	Medium	●●○	💧

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Ligustrum japonicum</i>	Waxleaf Privet		High	●●○	●
<i>Ligustrum japonicum 'Jack Frost'</i>	Jack Frost Ligustrum		High	●●○	●
<i>Myrcianthes fragrans</i>	Simpson's Stopper	☒	High	●●○○	● = ●●●●
<i>Nephrolepis falcata</i>	Macho Fern			●●○○	
<i>Nerium oleander</i>	Oleander			●●○	● = ●●●●
<i>Philodendron selloum</i>	Selloum		Medium	●○○	● = ●●
<i>Philodendron xanadu</i>	Dwarf Philodendron		Medium	●○○	● = ●●
<i>Pittosporum tobira 'Variegata'</i>	Variegated Pittosporum		High	●●○	●
<i>Plumbago auriculata</i>	Plumbago		Medium	●	●
<i>Podocarpus macrophyllus</i>	Podocarpus		High	●●○	●
<i>Raphiolepis indica 'Aliba'</i>	Indian Hawthorn		High	●●○	● = ●●
<i>Rhododendron spp.</i>	Azalea		Medium	●	●
<i>Schefflera arboricola</i>	Dwarf Schefflera			●●○○	● = ●●
<i>Strelitzia nicolai</i>	White Bird of Paradise		Low	●●○	●●
<i>Strelitzia reginae</i>	Orange Bird of Paradise		High	●●○	● = ●●
<i>Tulbaghia violacea</i>	Society Garlic		High	●●○	●
<i>Viburnum odoratissimum</i>	Sweet Viburnum		Medium	●●○○	●
<i>Viburnum obovatum</i>	Walter's Viburnum		High	●●○○	●
<i>Viburnum suspensum</i>	Sandankwa Viburnum		Low	●○○	●
<i>Zamia furfuracea</i>	Cardboard Palm		High	●●○○	●
<i>Zamia pumila</i>	Coontie	☒	High	●●○○	●

#### 4.5 PERENNIALS & GROUNDCOVERS

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Bulbine frutescens</i>	Desert Candles		Medium	●●○	💧
<i>Bromeliaceae spp.</i>	Bromeliads		High	●●○○	💧
<i>Carissa macrocarpa</i>	Natal Plum		High	●●○	💧
<i>Cuphea hyssopifolia</i>	Mexican Heather		High	●●○	💧
<i>Cyperus alternifolius</i>	Umbrella Sedge		Low	●●○	💧 = 💧💧💧
<i>Cyrtomium falcatum</i>	Holly Fern		Medium	●●○○	💧 = 💧💧
<i>Gaillardia pulchella</i>	Blanket Flower	ℵ	High	●	💧
<i>Helianthus debilis</i>	Beach Sunflower	ℵ	High	●	💧
<i>Hemerocallis spp.</i>	Daylily		Medium	●●○	💧
<i>Impatiens spp.</i>	New Guinea Impatiens		None	○○○	💧
<i>Juniperus chinensis 'Parsonii'</i>	Parson's Juniper		High	●	💧
<i>Juniperus conferta 'Blue Pacific'</i>	Dwarf Shore Juniper		High	●	💧
<i>Liriope muscari</i>	Lilyturf, Giant Border Grass		Medium	●●○○	💧
<i>Ophiopogon japonicus</i>	Mondo Grass		Medium	○○○	💧
<i>Trachelospermum asiaticum</i>	Dwarf Confederate Jasmine		Medium	●●○	💧 = 💧💧
<i>Tradescantia spathacea</i>	Dwarf Oyster Plant		High	●●○	💧 = 💧💧💧
<i>Yucca filamentosa</i>	Adam's Needle	ℵ	High	●●○	💧

**4.6 ORNAMENTAL GRASSES**

Botanical Name	Common Name	Native	Drought Tolerant	Light	Soil
<i>Eragrostis elliotii</i>	Elliott's Lovegrass	N	High	●●○	☒☒☒
<i>Miscanthus sinensis 'Adagio'</i>	Eulalia Grass		Medium	●	☒☒☒
<i>Muhlenbergia capillaris</i>	Muhly Grass	N	High	●	☒☒☒☒
<i>Pennisetum setaceum</i>	Fountain Grass		High	●●○	☒
<i>Spartina bakeri</i>	Sand Cordgrass	N	High	●	☒
<i>Spartina patens</i>	Saltmeadow Cordgrass	N	High	●	☒
<i>Tripsacum dactyloides</i>	Fakahatchee Grass	N	Medium	●●○	☒☒☒

**4.7 LAWNS**

Botanical Name	Common Name
<i>Cynodon dactylon</i>	Bermuda Grass
<i>Paspalum notatum</i>	Bahia Grass
<i>Stenotaphrum secundatum</i>	St. Augustine Grass
<i>Zoysia japonica</i>	Zoysia Grass



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