

# 2014 Tri-State Design Awards

Presented by Daniel A. Jewell, RLA, ASLA



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter

# JURY ALABAMA CHAPTER ASLA



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter





# GENERAL DESIGN

24 SUBMISSIONS



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter

# General Design



**South Plaza:**  
View from along the street showing the subtle grade transitions.



**Medicinal Garden:**  
Located in a former loading dock between two existing buildings.

**Project Name:** James E. Clyburn Research Center  
**Firm Name:** Urban Edge Studio/Seamon Whiteside+  
**Project Location:** Charleston, South Carolina



# General Design



**Medicinal Garden:**  
Raised beds allow people to get closer to the plants.

**Project Name:** James E. Clyburn Research Center

**Firm Name:** Urban Edge Studio/Seamon Whiteside+

**Project Location:** Charleston, South Carolina

# Recognition Award



MUSC Urban Farm:  
Untreated wood beds were backfilled with a special soil mix.

**Project Name:** James E. Clyburn Research Center

**Firm Name:** Urban Edge Studio/Seamon Whiteside+

**Project Location:** Charleston, South Carolina



# General Design



**Project Name:** Stallings Municipal Park

**Firm Name:** Site Solutions

**Project Location:** Stallings, North Carolina



# General Design



**Project Name:** Stallings Municipal Park

**Firm Name:** Site Solutions

**Project Location:** Stallings, North Carolina



# Recognition Award



**Project Name:** Stallings Municipal Park

**Firm Name:** Site Solutions

**Project Location:** Stallings, North Carolina

# General Design



**North Carolina Veterans Park**  
Fayetteville, NC

Keyed Plan

**Project Name:** North Carolina Veterans Park

**Firm Name:** Kimley – Horn & Associates

**Project Location:** Fayetteville, North Carolina



# General Design



**Project Name:** North Carolina Veterans Park

**Firm Name:** Kimley – Horn & Associates

**Project Location:** Fayetteville, North Carolina

# General Design



**Project Name:** North Carolina Veterans Park

**Firm Name:** Kimley – Horn & Associates

**Project Location:** Fayetteville, North Carolina



# Recognition Award



**Project Name:** North Carolina Veterans Park

**Firm Name:** Kimley – Horn & Associates

**Project Location:** Fayetteville, North Carolina



# General Design



**Project Name:** Brassfield Estate Winery

**Firm Name:** D. Turner Landscape Architecture + Site Planning

**Project Location:** Clearlake Oaks, California



# General Design



**Project Name:** Brassfield Estate Winery

**Firm Name:** D. Turner Landscape Architecture + Site Planning

**Project Location:** Clearlake Oaks, California



# General Design



**Project Name:** Brassfield Estate Winery

**Firm Name:** D. Turner Landscape Architecture + Site Planning

**Project Location:** Clearlake Oaks, California



# Merit Award



**Project Name:** Brassfield Estate Winery

**Firm Name:** D. Turner Landscape Architecture + Site Planning

**Project Location:** Clearlake Oaks, California

# General Design



**Project Name:** Furman University Trone Student Center

**Firm Name:** Seamon Whiteside + *in collaboration with* LS3P Associates, Ltd.

**Project Location:** Greenville, South Carolina



# General Design



**Project Name:** Furman University Trone Student Center

**Firm Name:** Seamon Whiteside + *in collaboration with* LS3P Associates, Ltd.

**Project Location:** Greenville, South Carolina

# General Design



**Project Name:** Furman University Trone Student Center

**Firm Name:** Seamon Whiteside + *in collaboration with* LS3P Associates, Ltd.

**Project Location:** Greenville, South Carolina



# Merit Award



**Project Name:** Furman University Trone Student Center

**Firm Name:** Seamon Whiteside + *in collaboration with* LS3P Associates, Ltd.

**Project Location:** Greenville, South Carolina



# General Design



**Project Name:** Mary Hayes Barber Holmes Park

**Firm Name:** Surface 678

**Project Location:** Pittsboro, North Carolina



# General Design



**Project Name:** Mary Hayes Barber Holmes Park

**Firm Name:** Surface 678

**Project Location:** Pittsboro, North Carolina



# Recognition Award



**Project Name:** Mary Hayes Barber Holmes Park

**Firm Name:** Surface 678

**Project Location:** Pittsboro, North Carolina



# General Design



**Project Name:** Metropolitan at Midtown

**Firm Name:** ColeJenest & Stone, PA

**Project Location:** Charlotte, North Carolina

# General Design



**Project Name:** Metropolitan at Midtown

**Firm Name:** ColeJenest & Stone, PA

**Project Location:** Charlotte, North Carolina



# Recognition Award



**Project Name:** Metropolitan at Midtown

**Firm Name:** ColeJenest & Stone, PA

**Project Location:** Charlotte, North Carolina

# General Design



BIRD'S EYE VIEW LOOKING EAST TOWARDS ALUMNI/ FACULTY BUILDING



PERSPECTIVE LOOKING WEST TOWARDS ALUMNI/ FACULTY BUILDING



SITE PLAN OF STREETScape IMPROVEMENTS  
AT ALUMNI/ FACULTY BUILDING

**Project Name:** North Avenue: Georgia Tech  
**Firm Name:** Pond Architects, Engineers, Planners  
**Project Location:** Atlanta, Georgia



# General Design



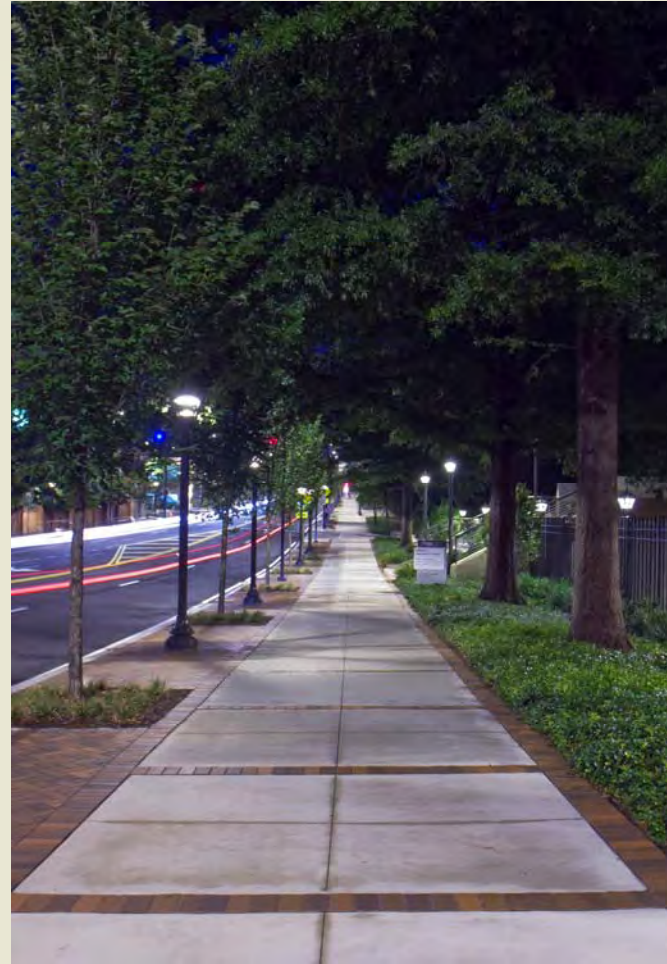
**Project Name:** North Avenue: Georgia Tech

**Firm Name:** Pond Architects, Engineers, Planners

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** North Avenue: Georgia Tech

**Firm Name:** Pond Architects, Engineers, Planners

**Project Location:** Atlanta, Georgia



# Merit Award



**Project Name:** North Avenue: Georgia Tech

**Firm Name:** Pond Architects, Engineers, Planners

**Project Location:** Atlanta, Georgia

# General Design



**Project Name:** The Inn at Harbour Town Pool

**Firm Name:** Wood+Partners Inc.

**Project Location:** Hilton Head Island, South Carolina



# General Design



**Project Name:** The Inn at Harbour Town Pool

**Firm Name:** Wood+Partners Inc.

**Project Location:** ton Head Island, South Carolina



# General Design



**Project Name:** The Inn at Harbour Town Pool

**Firm Name:** Wood+Partners Inc.

**Project Location:** ton Head Island, South Carolina



# Merit Award



**Project Name:** The Inn at Harbour Town Pool

**Firm Name:** Wood+Partners Inc.

**Project Location:** ton Head Island, South Carolina



# General Design



**Project Name:** Neuse River Greenway Trail

**Firm Name:** Stewart

**Project Location:** Wake & Johnston Counties, North Carolina



# General Design



**Project Name:** Neuse River Greenway Trail

**Firm Name:** Stewart

**Project Location:** Wake & Johnston Counties, North Carolina



# Recognition Award



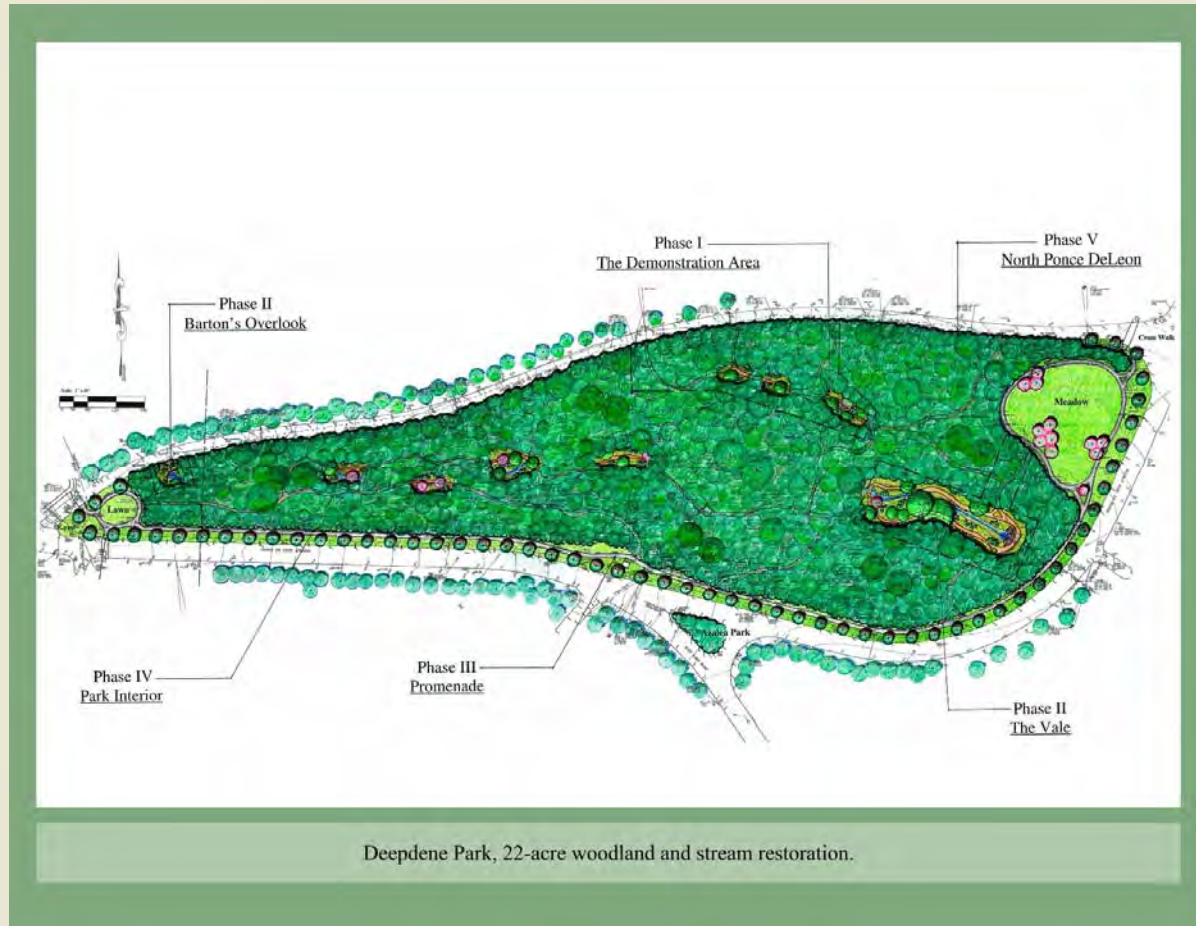
**Project Name:** Neuse River Greenway Trail

**Firm Name:** Stewart

**Project Location:** Wake & Johnston Counties, North Carolina



# General Design



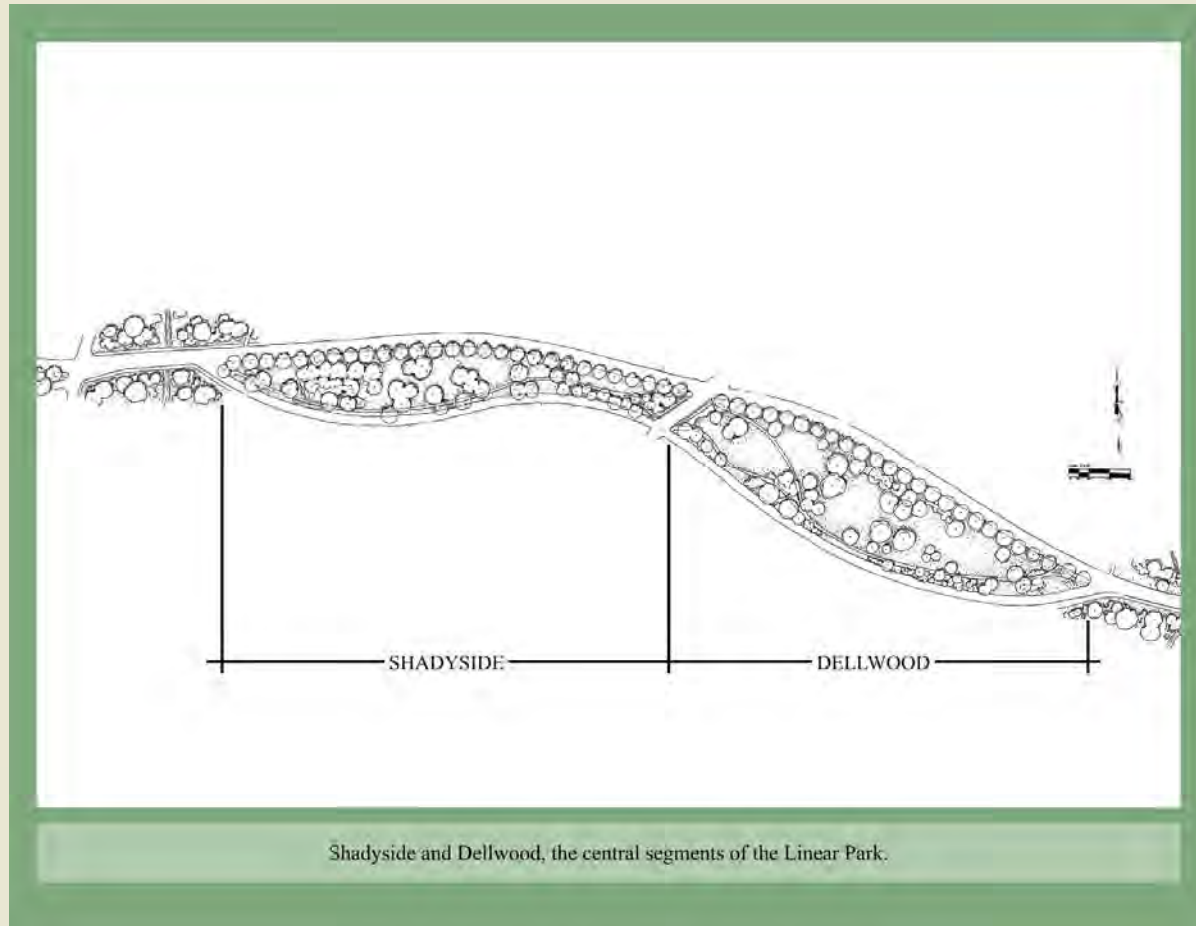
**Project Name:** Olmstead Linear Park

**Firm Name:** Tunnel and Tunnel Landscape Architecture

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Olmstead Linear Park

**Firm Name:** Tunnel and Tunnel Landscape Architecture

**Project Location:** Atlanta, Georgia

# General Design



Trees remain from Olmsted's original planting plan.

**Project Name:** Olmstead Linear Park

**Firm Name:** Tunnel and Tunnel Landscape Architecture

**Project Location:** Atlanta, Georgia



# Merit Award



Virgilee Park, with restored clover meadow.

**Project Name:** Olmstead Linear Park

**Firm Name:** Tunnel and Tunnel Landscape Architecture

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Reynolds Lake Club Pool, Phase II

**Firm Name:** Wood + Partners, Inc

**Project Location:** Green County, Georgia



# General Design



**Project Name:** Reynolds Lake Club Pool, Phase II

**Firm Name:** Wood + Partners, Inc

**Project Location:** Green County, Georgia



# General Design



**Project Name:** Reynolds Lake Club Pool, Phase II

**Firm Name:** Wood + Partners, Inc

**Project Location:** Green County, Georgia



# General Design



**Project Name:** Reynolds Lake Club Pool, Phase II

**Firm Name:** Wood + Partners, Inc

**Project Location:** Green County, Georgia



# Merit Award



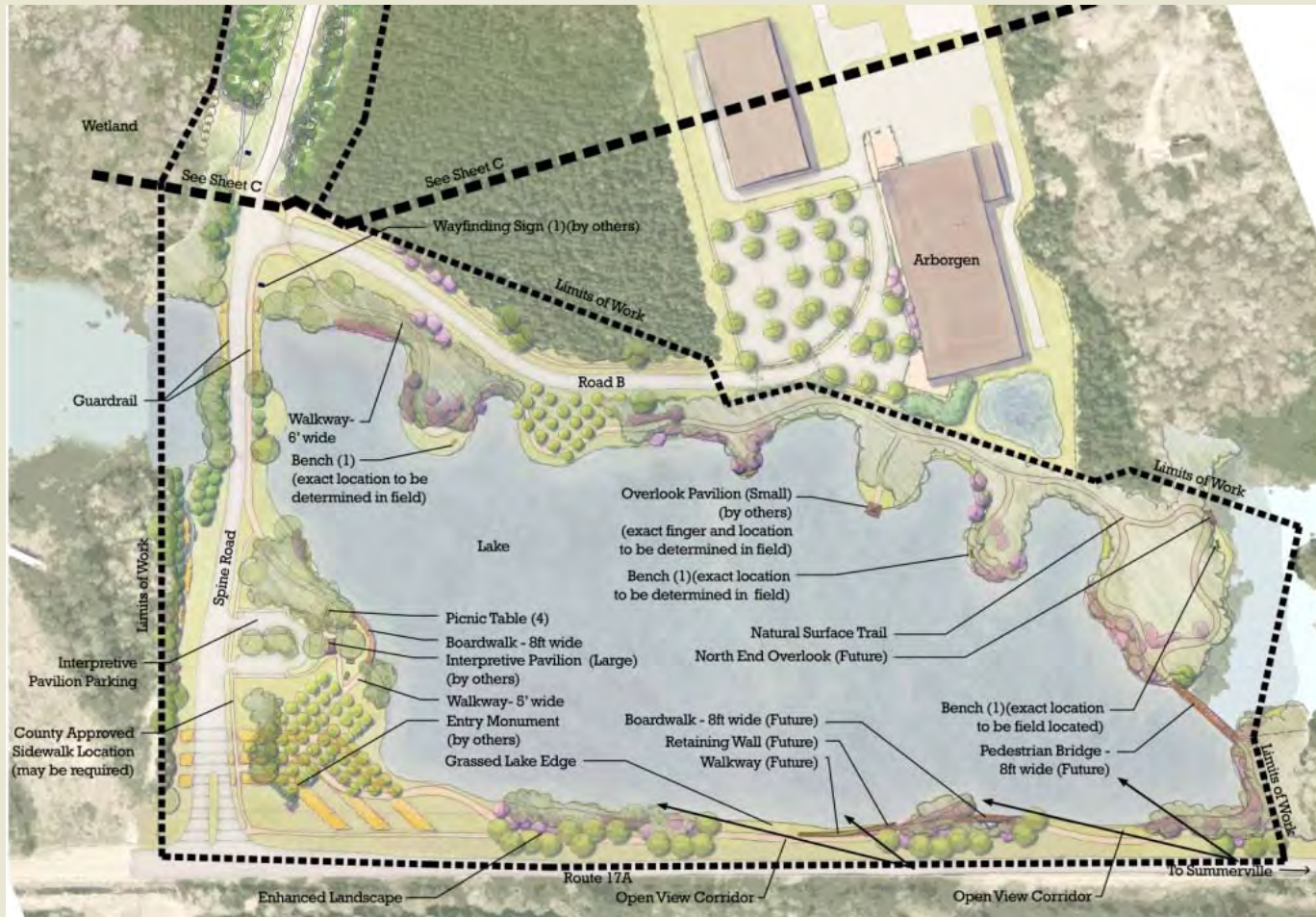
**Project Name:** Reynolds Lake Club Pool, Phase II

**Firm Name:** Wood + Partners, Inc

**Project Location:** Green County, Georgia



# General Design



**Project Name:** The Park at Pine Hill Business Campus

**Firm Name:** LandDesign, Inc.

**Project Location:** Summerville, South Carolina



# General Design



**Project Name:** The Park at Pine Hill Business Campus

**Firm Name:** LandDesign, Inc.

**Project Location:** Summerville, South Carolina



# General Design



**Project Name:** The Park at Pine Hill Business Campus

**Firm Name:** LandDesign, Inc.

**Project Location:** Summerville, South Carolina



# General Design



**Project Name:** The Park at Pine Hill Business Campus

**Firm Name:** LandDesign, Inc.

**Project Location:** Summerville, South Carolina



# Merit Award



**Project Name:** The Park at Pine Hill Business Campus

**Firm Name:** LandDesign, Inc.

**Project Location:** Summerville, South Carolina



# General Design



View of Gamecock Park under construction.

**Project Name:** University of South Carolina – Gamecock Park

**Firm Name:** Wood+Partners Inc.

**Project Location:** Columbia, South Carolina



# General Design



Gamecock Park in the evening.

**Project Name:** University of South Carolina – Gamecock Park

**Firm Name:** Wood+Partners Inc.

**Project Location:** Columbia, South Carolina

# General Design



Game day at Gamecock Park.

**Project Name:** University of South Carolina – Gamecock Park

**Firm Name:** Wood+Partners Inc.

**Project Location:** Columbia, South Carolina



# Merit Award



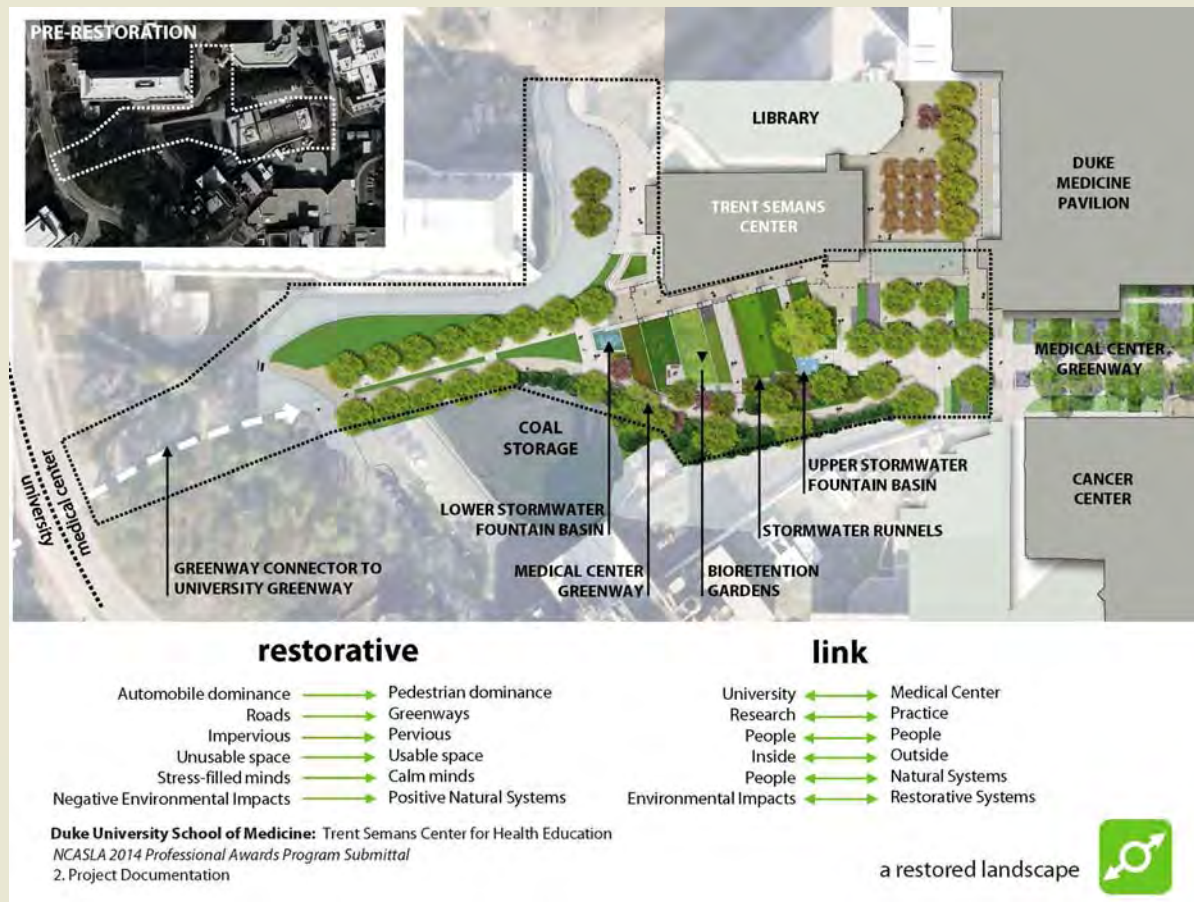
Main entry at horseshoe gates.

**Project Name:** University of South Carolina – Gamecock Park

**Firm Name:** Wood+Partners Inc.

**Project Location:** Columbia, SC

# General Design



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

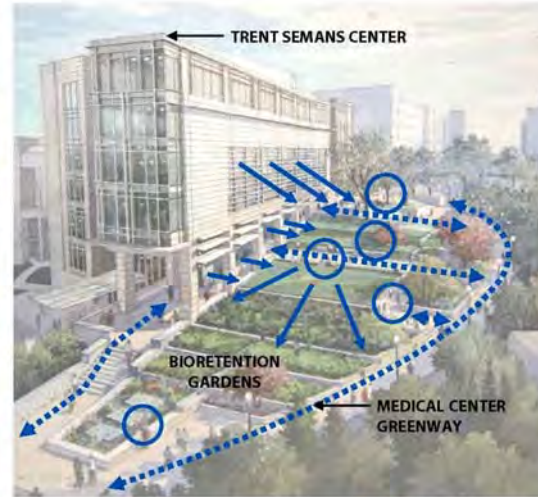
**Project Location:** Durham, NC



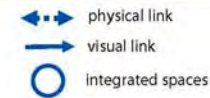
# General Design



a human space



a human connection



## restorative

Automobile dominance	→	Pedestrian dominance
Roads	→	Greenways
Impervious	→	Pervious
Unusable space	→	Usable space
Stress-filled minds	→	Calm minds
Negative Environmental Impacts	→	Positive Natural Systems

## link

University	↔	Medical Center
Research	↔	Practice
People	↔	People
Inside	↔	Outside
People	↔	Natural Systems
Environmental Impacts	↔	Restorative Systems

**Duke University School of Medicine:** Trent Semans Center for Health Education  
 NCASLA 2014 Professional Awards Program Submittal  
 2. Project Documentation

restored natural connections



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

**Project Location:** Durham, NC

# General Design



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

**Project Location:** Durham, NC



# General Design



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

**Project Location:** Durham, North Carolina

# General Design



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

**Project Location:** Durham, North Carolina



# Merit Award



**Project Name:** Duke University School of Medicine: Trent Semans Center

**Firm Name:** Stewart

**Project Location:** Durham, North Carolina

# General Design



**Project Name:** North Carolina Museum of Art - Expansion

**Firm Name:** Surface 678

**Project Location:** Raleigh, North Carolina



# General Design



**Project Name:** North Carolina Museum of Art Expansion

**Firm Name:** Surface 678

**Project Location:** Raleigh, North Carolina



# General Design



**Project Name:** North Carolina Museum of Art Expansion

**Firm Name:** Surface 678

**Project Location:** Raleigh, North Carolina



# General Design



**Project Name:** North Carolina Museum of Art Expansion

**Firm Name:** Surface 678

**Project Location:** Raleigh, North Carolina



# Honor Award



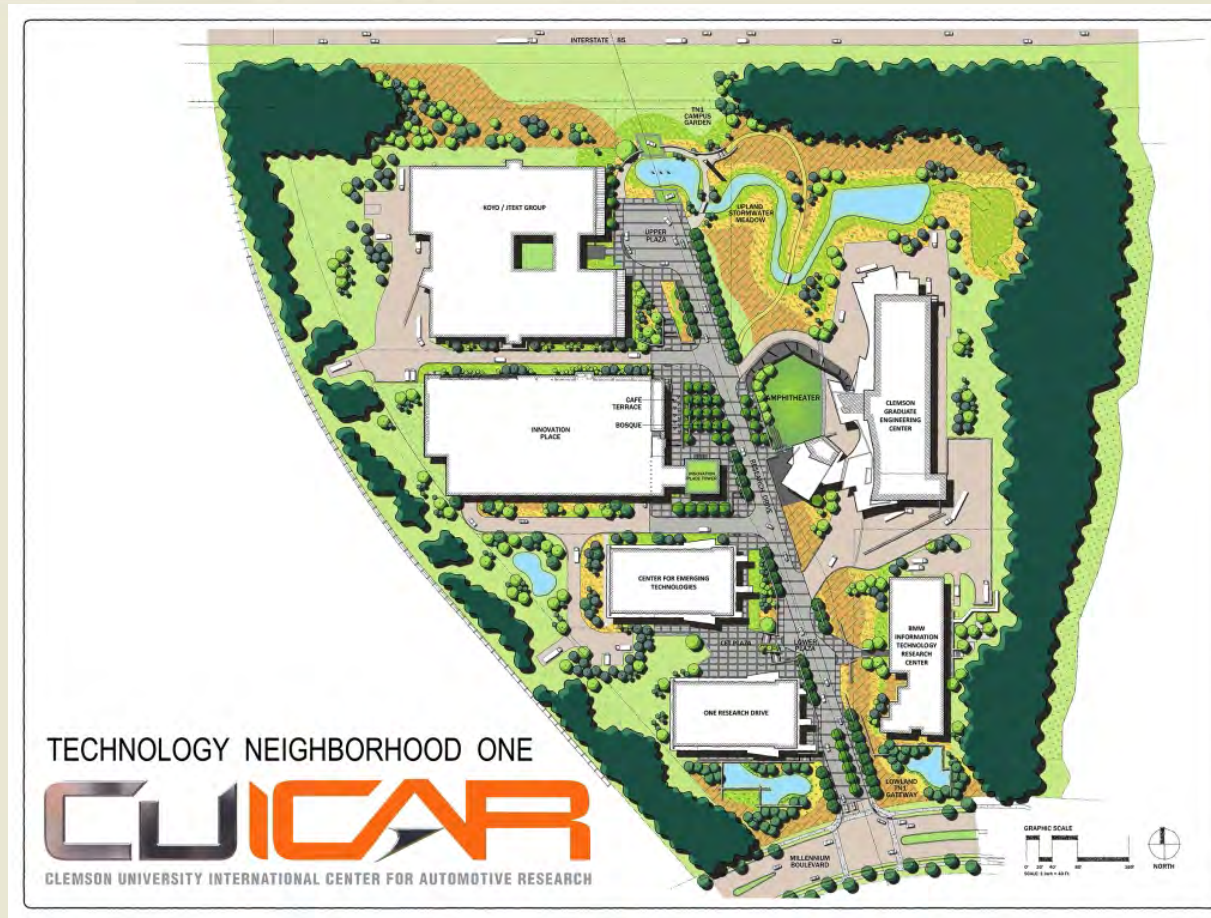
**Project Name:** North Carolina Museum of Art Expansion

**Firm Name:** Surface 678

**Project Location:** Raleigh, North Carolina



# General Design



**Project Name:** Clemson University Center for Automotive Research

**Firm Name:** Seamon Whiteside + *in collaboration with* Andropogon Associates, Ltd.

**Project Location:** Clemson, South Carolina

# General Design



**Project Name:** Clemson University Center for Automotive Research

**Firm Name:** Seamon Whiteside + *in collaboration with* Andropogon Associates, Ltd.

**Project Location:** Clemson, South Carolina



# General Design



Image: LS3P

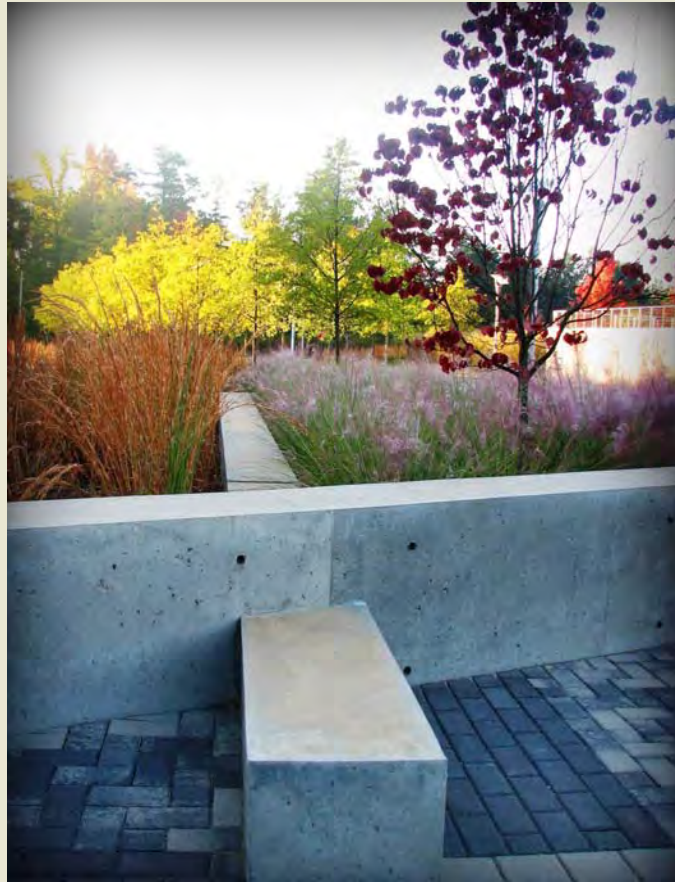
Roof garden at Innovation Place Tower

**Project Name:** Clemson University Center for Automotive Research

**Firm Name:** Seamon Whiteside + *in collaboration with* Andropogon Associates, Ltd.

**Project Location:** Clemson, South Carolina

# General Design



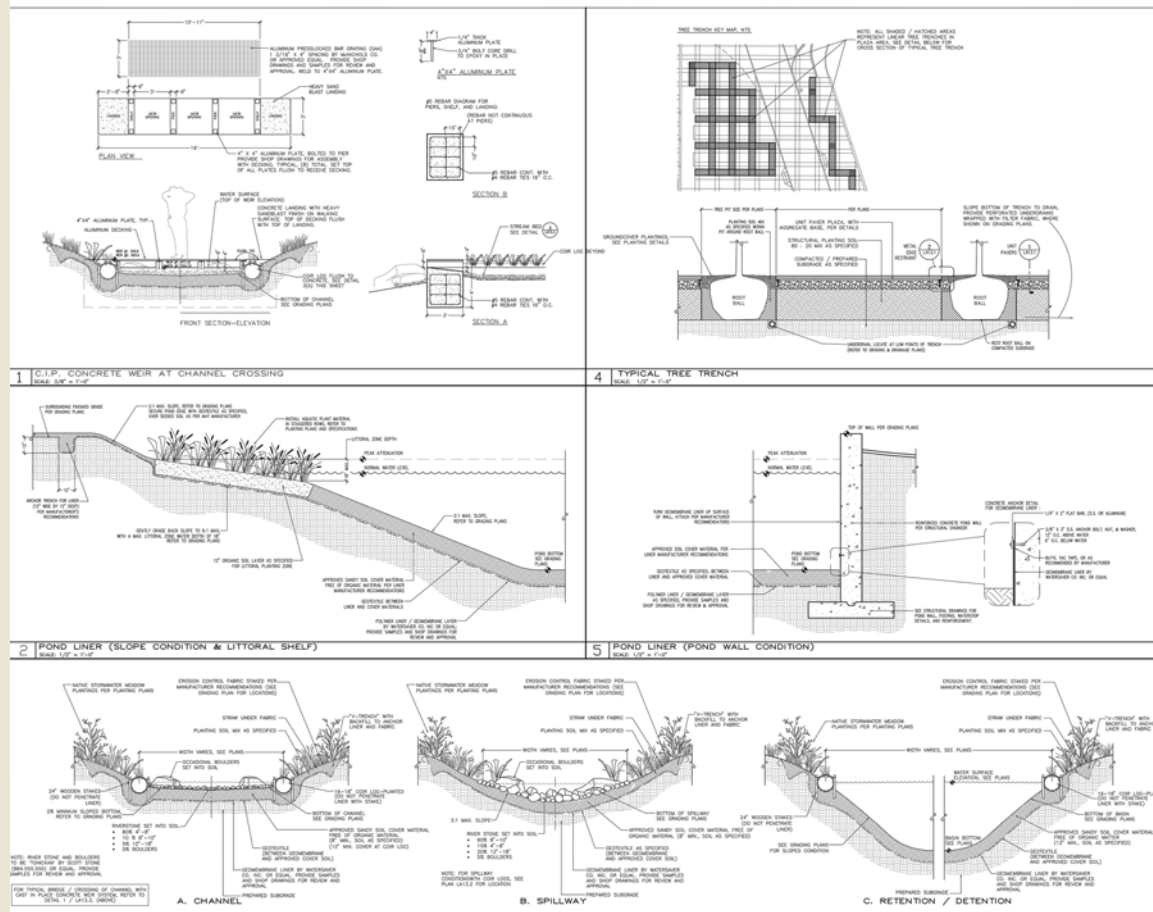
**Project Name:** Clemson University Center for Automotive Research

**Firm Name:** Seamon Whiteside + *in collaboration with* Andropogon Associates, Ltd.

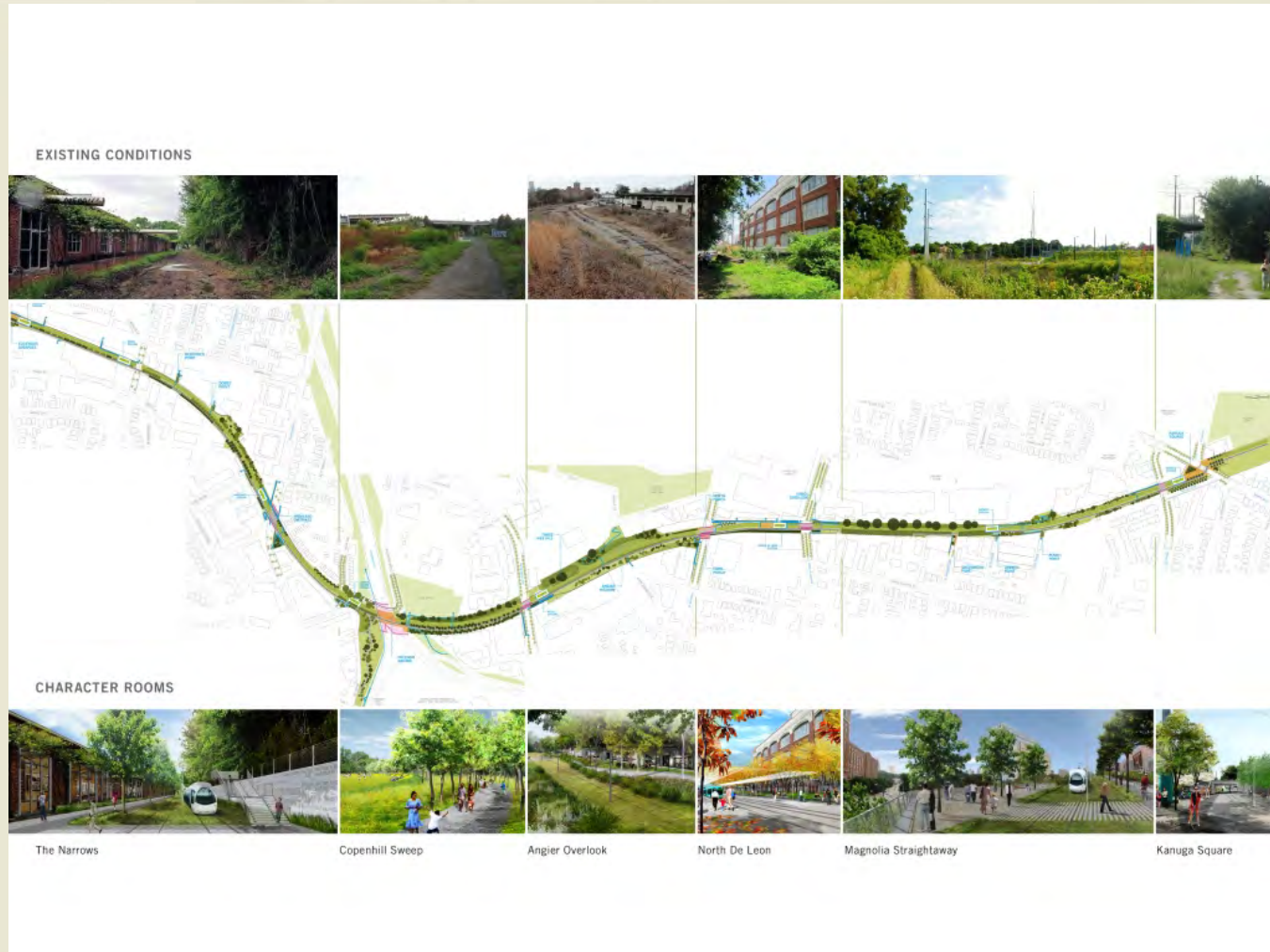
**Project Location:** Clemson, South Carolina



**Project Name:** Clemson University Center for Automotive Research  
**Firm Name:** Seamon Whiteside + *in collaboration with* Andropogon Associates, Ltd.  
**Project Location:** Clemson, South Carolina



# General Design



**Project Name:** Atlanta Beltline Eastside Trail

**Firm Name:** Perkins + Will

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Atlanta Beltline Eastside Trail

**Firm Name:** Perkins + Will

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Atlanta Beltline Eastside Trail

**Firm Name:** Perkins + Will

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Atlanta Beltline Eastside Trail

**Firm Name:** Perkins + Will

**Project Location:** Atlanta, Georgia



# Honor Award



**Project Name:** Atlanta Beltline Eastside Trail

**Firm Name:** Perkins + Will

**Project Location:** Atlanta, Georgia



# General Design



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina

# General Design



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina



# General Design



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina



# General Design



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina



# General Design



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina

# AWARD OF EXCELLENCE



**Project Name:** Duke Medicine Pavilion Plaza

**Firm Name:** Perkins + Will

**Project Location:** Durham, North Carolina





# ANALYSIS & PLANNING

8 SUBMISSIONS



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter

# Analysis & Planning

## PROGRAM PLANNING



**Project Name:** Northside Park

**Firm Name:** Pearson Russell Landscape Architects

**Project Location:** Aiken, South Carolina



# Analysis & Planning

## SITE PLAN

The park's design evolves from the ideals and metrics of Aiken's urban grid. The organization of the park takes cues from the existing orientation and layout of the town. Forty-foot wide mowed paths will cut into the proposed native meadow.



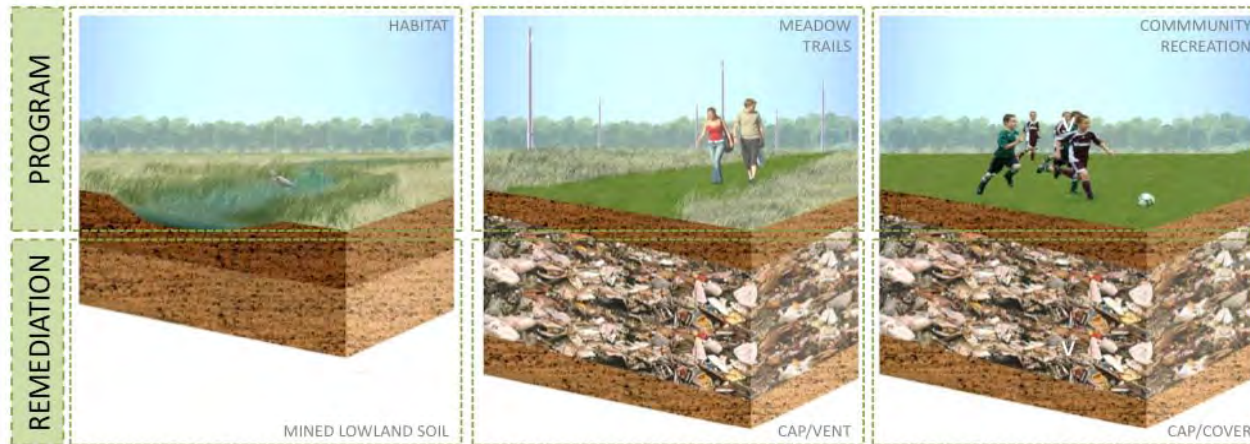
**Project Name:** Northside Park

**Firm Name:** Pearson Russell Landscape Architects

**Project Location:** Aiken, South Carolina

# Recognition Award

## CALIBRATED REMEDIATION & PROGRAM



**Project Name:** Northside Park

**Firm Name:** Pearson Russell Landscape Architects

**Project Location:** Aiken, South Carolina



# Analysis & Planning

## Project Green TEST TRACK & RESEARCH CAMPUS



[ANALYSIS + PLANNING]

**Project Name:** Project Green Test Track and Research Campus

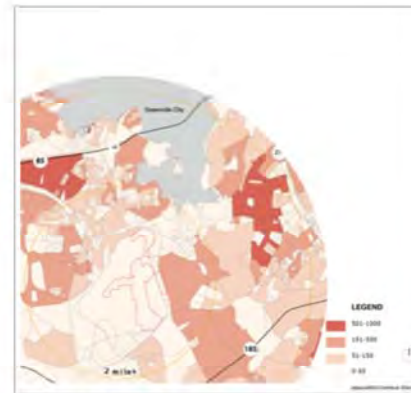
**Firm Name:** Pearson Russell Landscape Architects

**Project Location:** Greenville, South Carolina

# Recognition Award

## [CONTEXT]

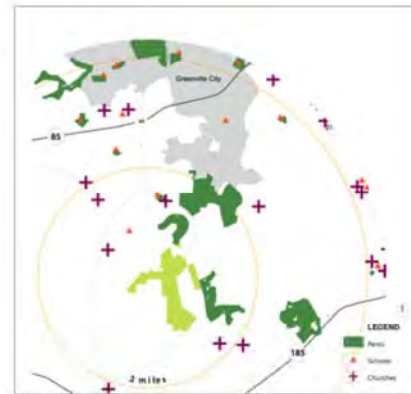
Circulation  
Population  
Cultural Resources



Population Density



Circulation



Cultural Resources

REGION | CONTEXT | SITE

**Project Name:** Project Green Test Track and Research Campus

**Firm Name:** Pearson Russell Landscape Architects

**Project Location:** Greenville, South Carolina



# Analysis & Planning

<u>COMMUNITY GARDENS</u>	SECURITY STATION
<u>SKATE PARK</u>	<u>BOULDERING WALL</u>
LABYRINTH	DRIVING RANGE
<u>BATHROOMS</u>	BASKETBALL
TROLLEY	<u>FOOD TRUCK / CONC.</u>
FOUNTAINS	PARKING
ACCESSIBILITY	LIGHTED FIELD / M-P
<u>AMPHITHEATER</u>	PUBLIC ART / PERF INCL. PUPPETS
PICNIC SHELTER	INDOOR EVENTS
2ND TRAIL	FITNESS AREA
TAI CHI	BOCCIE
<u>LAKE</u> 4	BIKE / STROLLER RENT
<u>ADULT PLAYGROUND</u>	DOG PARK

Charrette:

Public Workshop – Programming

**Project Name:** Greenville Park Master Plan

**Firm Name:** Seamon Whiteside/Urban Edge Studio

**Project Location:** Greenville, South Carolina

# Analysis & Planning



Charrette:

Public Workshop – One Scheme Drawn by the Public

**Project Name:** Greenville Park Master Plan

**Firm Name:** Seamon Whiteside/Urban Edge Studio

**Project Location:** Greenville, South Carolina



# Analysis & Planning



**Project Name:** Greenville Park Master Plan

**Firm Name:** Seamon Whiteside/Urban Edge Studio

**Project Location:** Greenville, South Carolina

# Merit Award



View Toward Reedy River Bridge



View of Reedy River Overlook



View Toward Visitor's Center



View Toward Community Garden

## Examples of Perspectives of the Park

**Project Name:** Greenville Park Master Plan

**Firm Name:** Seamon Whiteside/Urban Edge Studio

**Project Location:** Greenville, South Carolina



# Analysis & Planning

## MASTER PLAN A: PHASING

- PHASE 1:** Site Prep - Clearing, Rough Grading, Major Utilities, etc.  
Access Road & Staff Entry Road - crushed rock surface  
Wetland Treatment Area  
Visitor Parking Facility - partial lot, crushed rock surface  
Entrance Sign w/ FCT Recognition  
Exotic Plant Removal  
Trail from Parking to Boardwalk around Springs  
Maintenance Facility
- PHASE 2:** Succession Planting  
Stormwater BMPs  
Littoral Shelves
- PHASE 3:** Nature Trails  
Manatee Viewing Points  
Cypress Swamp  
Restroom Building  
Fishing Pier
- PHASE 4:** Complete Access Road & Staff Entry Road  
Complete Visitor Parking Facility  
Multi-Purpose Classroom  
Nature Discovery Area  
Picnic Shelters  
Picnic Pavilion
- PHASE 5:** Visitor & Environmental Education Center  
Bunk House



16

## MASTER PLAN B: PHASING

- PHASE 1:** Site Prep - Clearing, Rough Grading, Major Utilities, etc.  
Access Road & Staff Entry Road - crushed rock surface  
Wetland Treatment Area  
Visitor Parking Facility - partial lot, crushed rock surface  
Entrance Sign w/ FCT Recognition  
Exotic Plant Removal  
Trail from Parking to Boardwalk around Springs  
Maintenance Facility
- PHASE 2:** Succession Planting  
Stormwater BMPs  
Littoral Shelves  
Off-Site Visitor Center
- PHASE 3:** Nature Trails  
Manatee Viewing Points  
Cypress Swamp  
Restroom Building  
Fishing Pier
- PHASE 4:** Complete Access Road & Staff Entry Road  
Complete Visitor Parking Facility  
Multi-Purpose Classroom  
On-Site Environmental Education Building  
Bunk House  
Nature Discovery Area  
Picnic Shelters  
Picnic Pavilion



17

**Project Name:** Three Sisters Spring – Master Plan

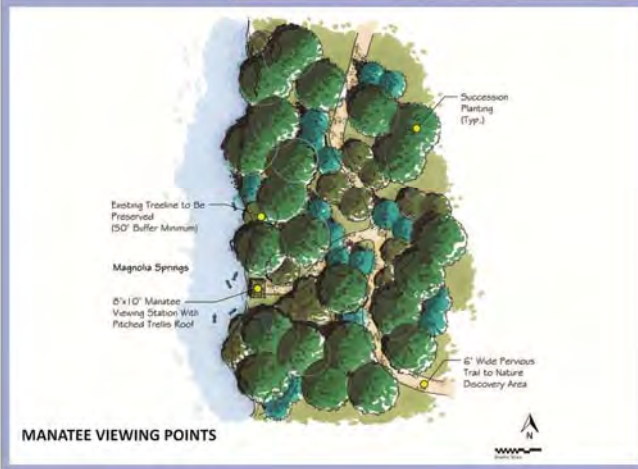
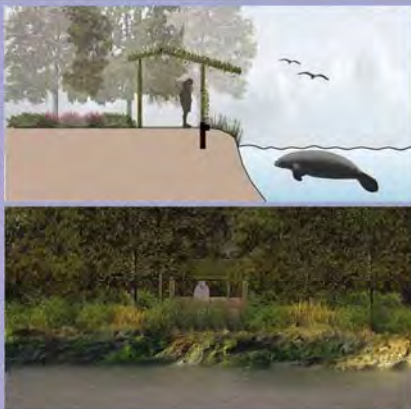
**Firm Name:** Stantec Consulting Services *and* Liollo Architecture

**Project Location:** Crystal River, Florida

# Analysis & Planning

## MAGNOLIA SPRINGS MANATEE VIEWING POINTS

In addition to the viewing opportunities around Three Sisters Springs, there are two points off of the main trail where visitors can view manatee. These points are along the western edge of the property near Magnolia Springs. These viewing points will be covered by a trellised roof that would be covered with a dense vine/vegetation to provide some shade to the visitors as they view the manatee. However, in an effort to help protect the privacy of surrounding residents, the roof also provides a low overhang to help focus the view down to the water and limit the site lines across the water to the backyards of neighboring residents. The viewing point will have a guardrail on three sides. The front guardrail will be covered by vegetation – either vines or grasses. The vegetation on the guardrail as well as the trellis roof will help give a more natural look and help reduce the intrusion on the natural setting.

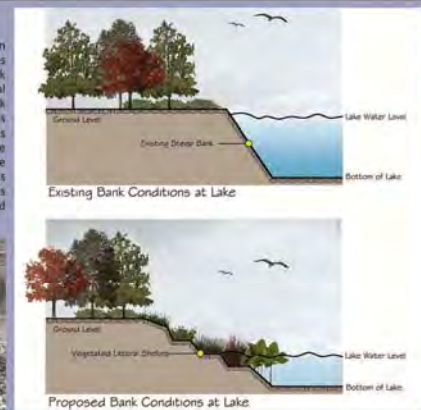


MANATEE VIEWING POINTS

15

## LITTORAL SHELVES

The Three Sisters Springs Master Plan calls for the creation of littoral shelves at strategic locations along the bank of the property's interior lake. Littoral shelves are an engineered terrace bank system where suitable vegetation is installed that allows the bank conditions to return to a more natural state. The creation of these shelves will provide natural habitats for marine life, birds and insects among others as well as mitigate the currently dangerous and steep bank along the lake.



LITTORAL SHELVES

14

**Project Name:** Three Sisters Spring – Master Plan

**Firm Name:** Stantec Consulting Services *and* Liollo Architecture

**Project Location:** Crystal River, Florida



# Analysis & Planning

An Example of a Site Analysis Drawing Produced at the Charrette



An Example of a Site Programing Drawing Produced at the Charrette



THREE SISTER SPRINGS  
PROCESS SKETCHES

A Section Used to Explain Programatic Elements on the Site to Stakeholders



The Final Concept Plan Developed at the Charrette



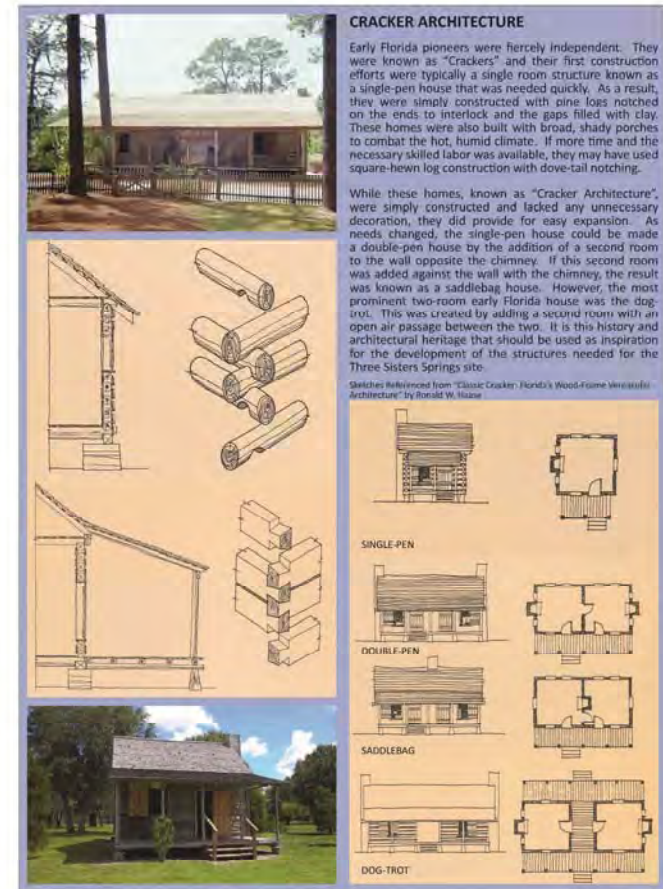
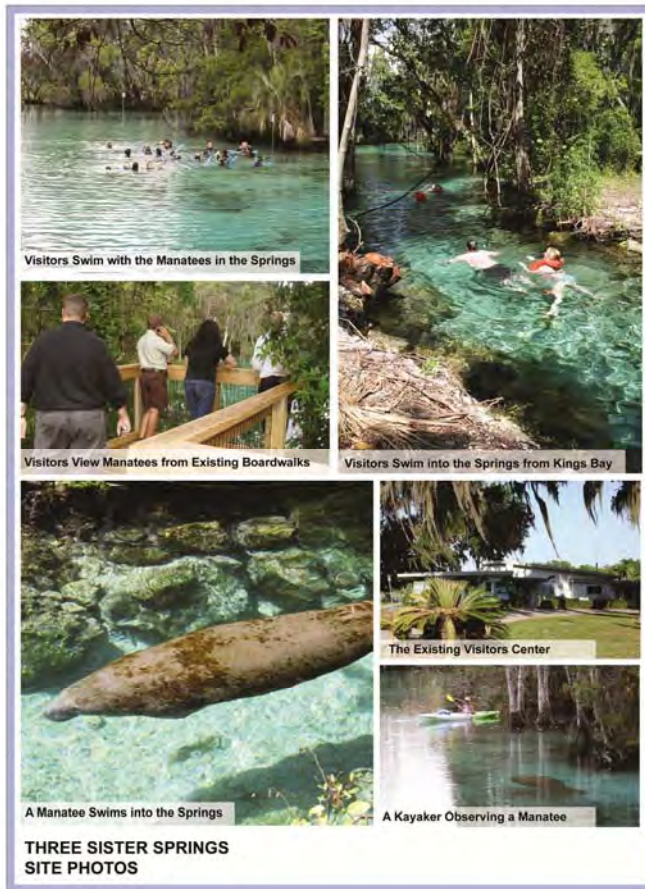
THREE SISTER SPRINGS  
PROCESS SKETCHES

**Project Name:** Three Sisters Spring – Master Plan

**Firm Name:** Stantec Consulting Services *and* Liollo Architecture

**Project Location:** Crystal River, Florida

# Merit Award



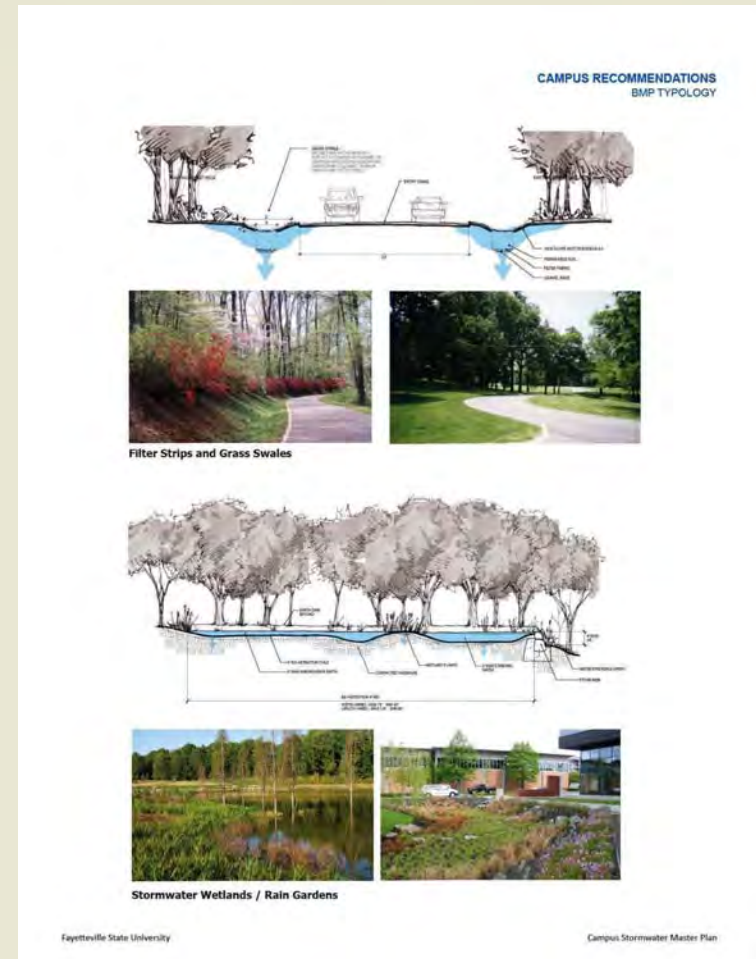
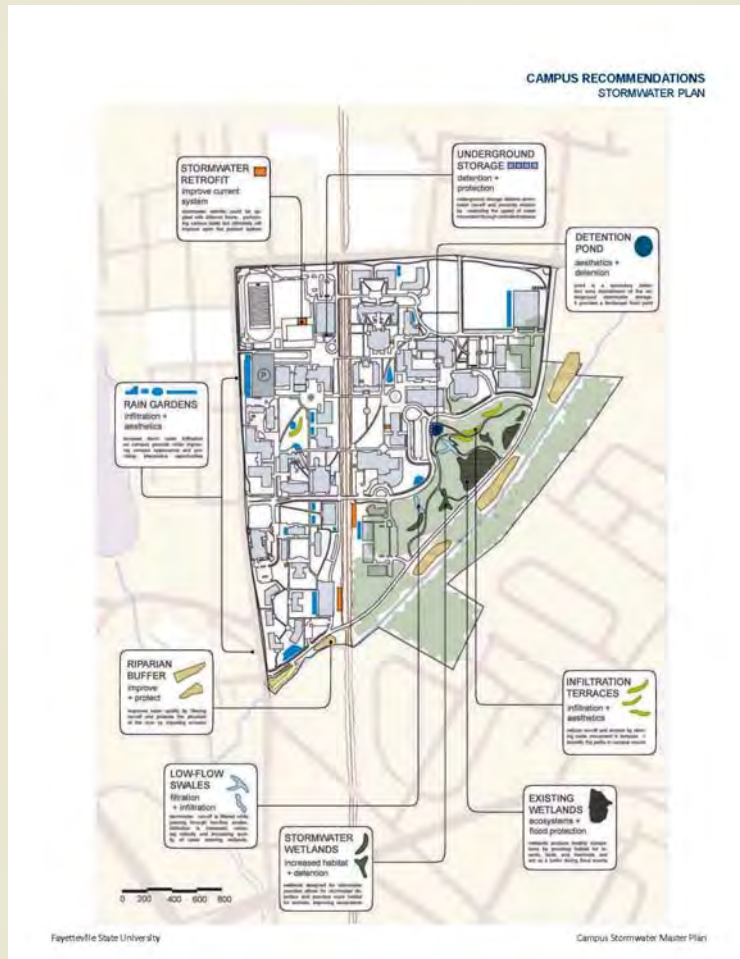
**Project Name:** Three Sisters Spring – Master Plan

**Firm Name:** Stantec Consulting Services *and* Liollo Architecture

**Project Location:** Crystal River, Florida



# Analysis & Planning



**Project Name:** Fayetteville State University Campus Stormwater Master Plan

**Firm Name:** Surface 678

**Project Location:** Fayetteville, North Carolina

# Analysis & Planning

## CAMPUS RECOMMENDATIONS NORTHWESTERN ACADEMIC QUADRANGLE

### Northwestern Academic Quadrangle

The 25-acre area comprising the Northwestern Academic Quad and its surrounding watershed is proposed as a holistically-planned environmental management and campus renewal project. Incorporating stormwater capture, filtration and groundwater reuse strategies capable of treating current and future development planned within the Quad, the design would be fully integrated into the structure of campus green spaces.

The proposed Quad redevelopment would be multi-functional - providing a series of rain gardens (bioretention areas) that would store and cleanse stormwater from adjacent building rooftops and parking areas. The project would also introduce new walkways, seating and gathering spaces that collectively would create a vibrant campus amenity.

The Quad design will be framed by an upper primary walkway that will connect existing and future academic buildings facing the main open space. Smaller rain gardens would be located between the buildings and the walkway in concert with building entrances. Reclaimed spring water currently captured by a sump in the boiler room of the Lilly Gymnasium building would be utilized as a source for a prominent water feature at the upper plaza level.

The focus of the Quad would be a centralized stormwater garden pond and terraced seating space. The stormwater element would be developed in concert with the proposed Quad improvements to provide a unique stormwater demonstration garden that is functional and aesthetically compatible with the character of FSU's improved social spaces. Stormwater storage devices would re-circulate captured stormwater for reuse in campus irrigation systems and pond recharge.



Fayetteville State University

Campus Stormwater Master Plan

## CAMPUS RECOMMENDATIONS NORTHWESTERN ACADEMIC QUADRANGLE



Fayetteville State University

Campus Stormwater Master Plan

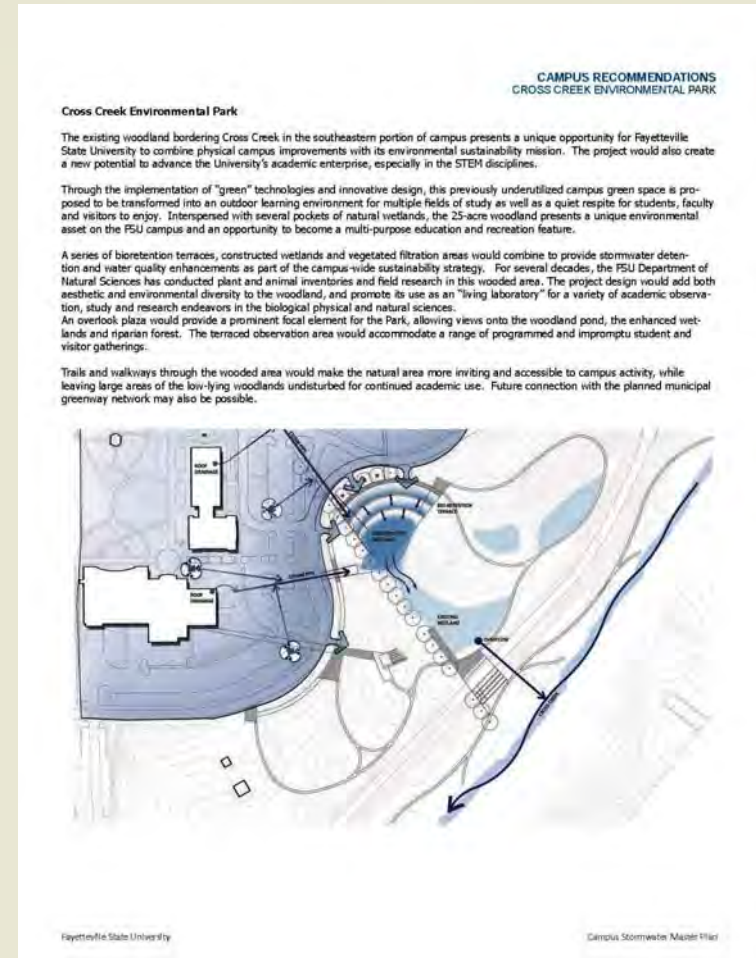
**Project Name:** Fayetteville State University Campus Stormwater Master Plan

**Firm Name:** Surface 678

**Project Location:** Fayetteville, North Carolina



# Analysis & Planning



**Project Name:** Fayetteville State University Campus Stormwater Master Plan

**Firm Name:** Surface 678

**Project Location:** Fayetteville, North Carolina

# Analysis & Planning

CAMPUS RECOMMENDATIONS  
CROSS CREEK ENVIRONMENTAL PARK



Fayetteville State University

Campus Stormwater Master Plan

**Project Name:** Fayetteville State University Campus Stormwater Master Plan

**Firm Name:** Surface 678

**Project Location:** Fayetteville, North Carolina



# Honor Award



**Project Name:** Fayetteville State University Campus Stormwater Master Plan

**Firm Name:** Surface 678

**Project Location:** Fayetteville, North Carolina

# Analysis and Planning



**Project Name:** Georgia Multi-Modal Passenger Terminal

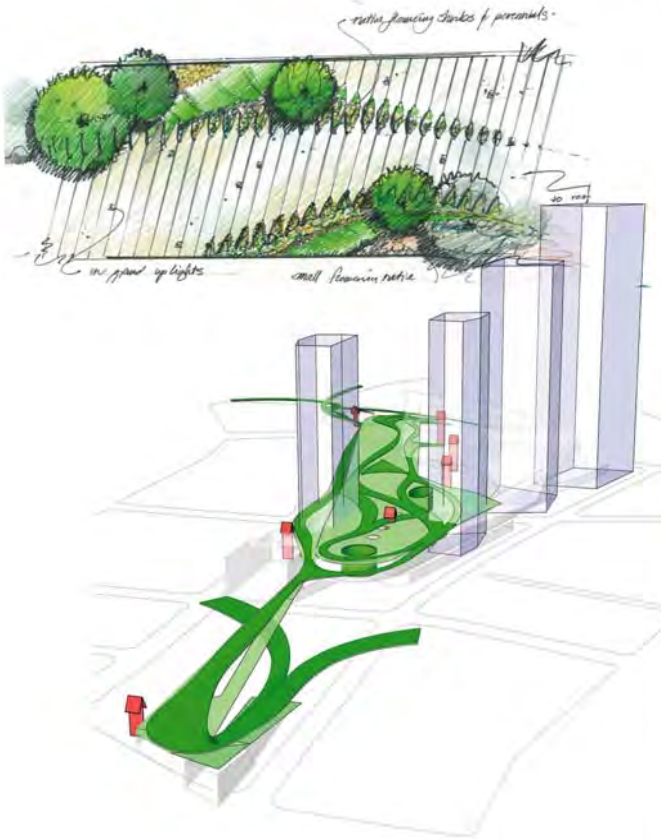
**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia



# Analysis and Planning

## ROOFTOP PEDESTRIAN FLOW EAST APPROACH



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia

# Analysis and Planning



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia



# Analysis and Planning



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia

# Analysis and Planning



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia



# Analysis and Planning



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia



# AWARD of EXCELLENCE



**Project Name:** Georgia Multi-Modal Passenger Terminal

**Firm Name:** Cooper Cary

**Project Location:** Atlanta, Georgia





# RESIDENTIAL DESIGN

4 SUBMISSIONS



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter

# Residential Design



**Project Name:** Johns Island Residence

**Firm Name:** Remark

**Project Location:** Johns Island, South Carolina



# Residential Design



view west of back terrace and native meadow

**Project Name:** Johns Island Residence

**Firm Name:** Remark

**Project Location:** Johns Island, South Carolina



# Residential Design



**Project Name:** Johns Island Residence

**Firm Name:** Remark

**Project Location:** Johns Island, South Carolina



# Residential Design



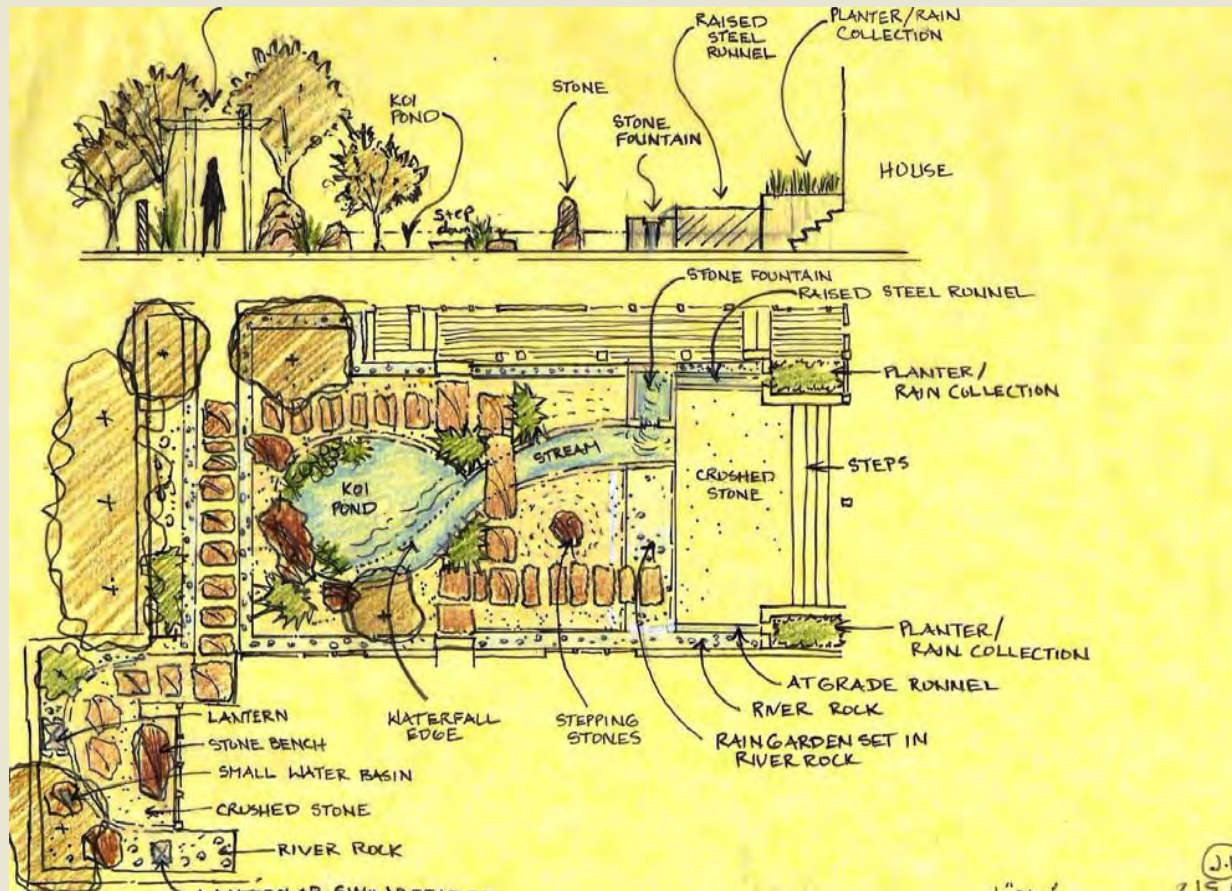
front entry with bands of native plants

**Project Name:** Johns Island Residence

**Firm Name:** Remark

**Project Location:** Johns Island, South Carolina

# Recognition Award



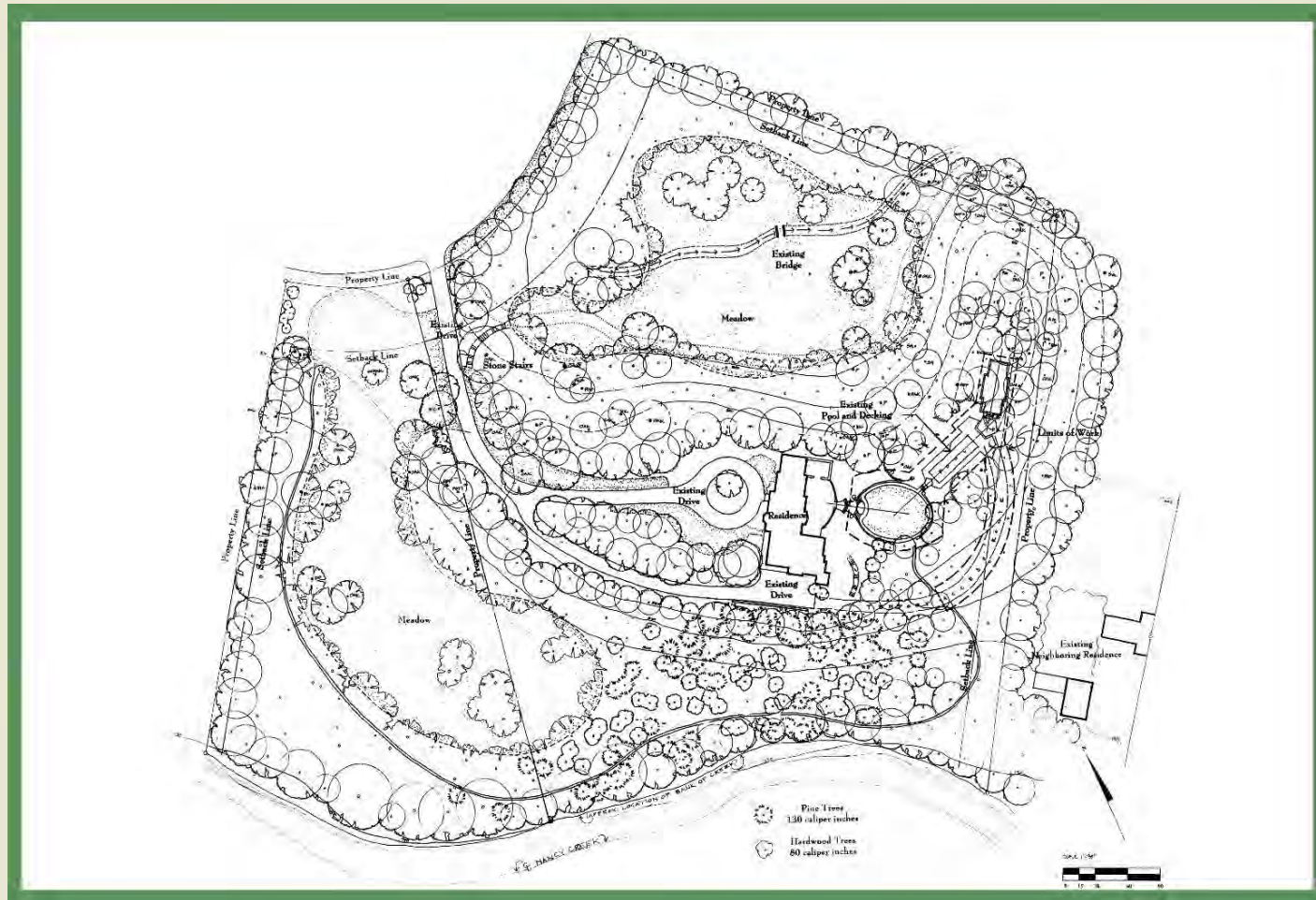
**Project Name:** Johns Island Residence

**Firm Name:** Remark

**Project Location:** Johns Island, South Carolina



# Residential Design



**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia

# Residential Design



Entry gate marks transition from exposed aggregate to granite cobble.

**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia



# Residential Design



Granite curbstone steps lead from the meadow to pool area.

**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia

# Residential Design



Bluestone pool patio with garden tile pentagram design.

**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia



# Residential Design



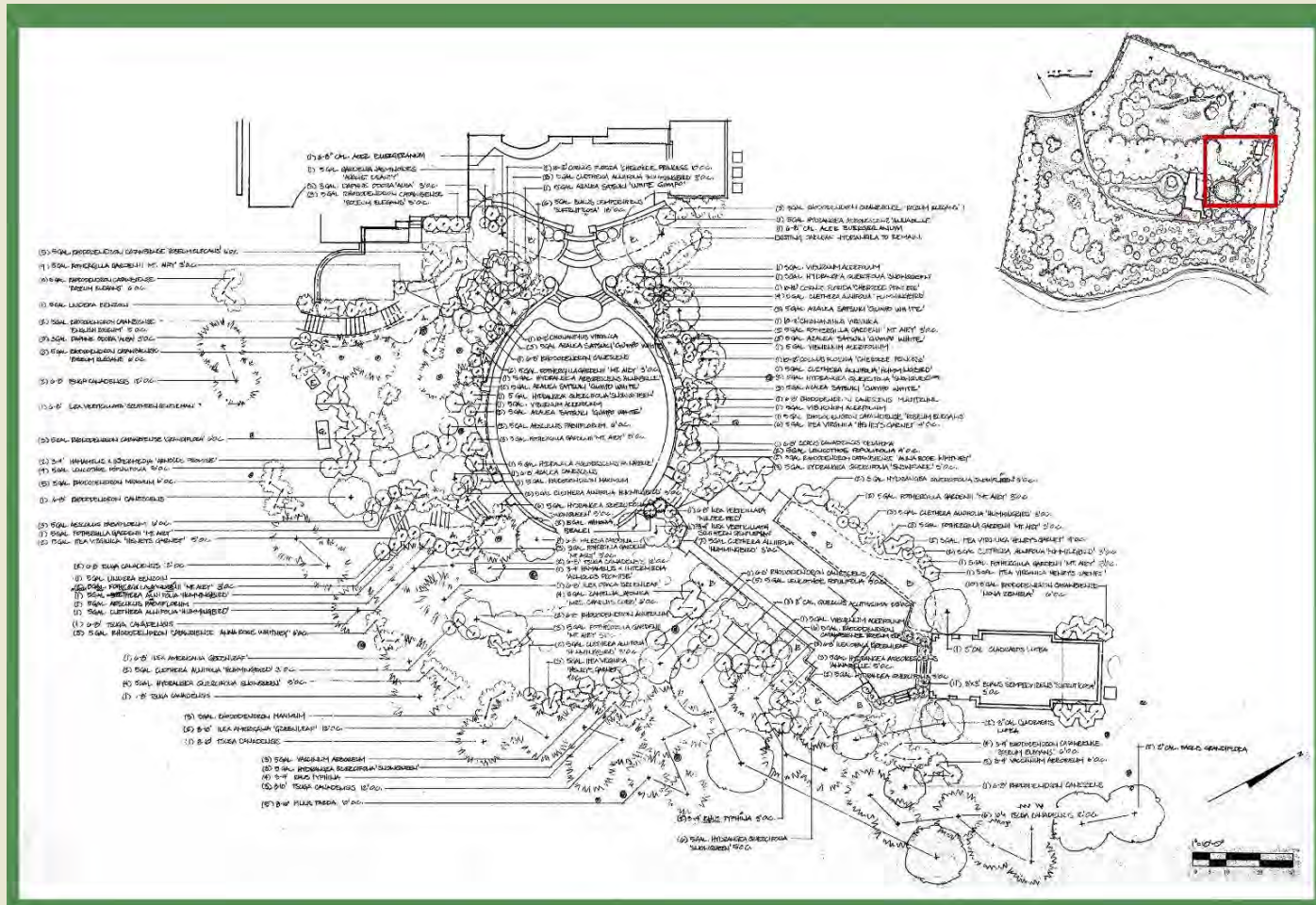
Bluestone patio and perennial planting border pool.

**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia

# Merit Award



**Project Name:** Atlanta Residence

**Firm Name:** Tunnell and Tunnell Landscape Architects

**Project Location:** Atlanta, Georgia





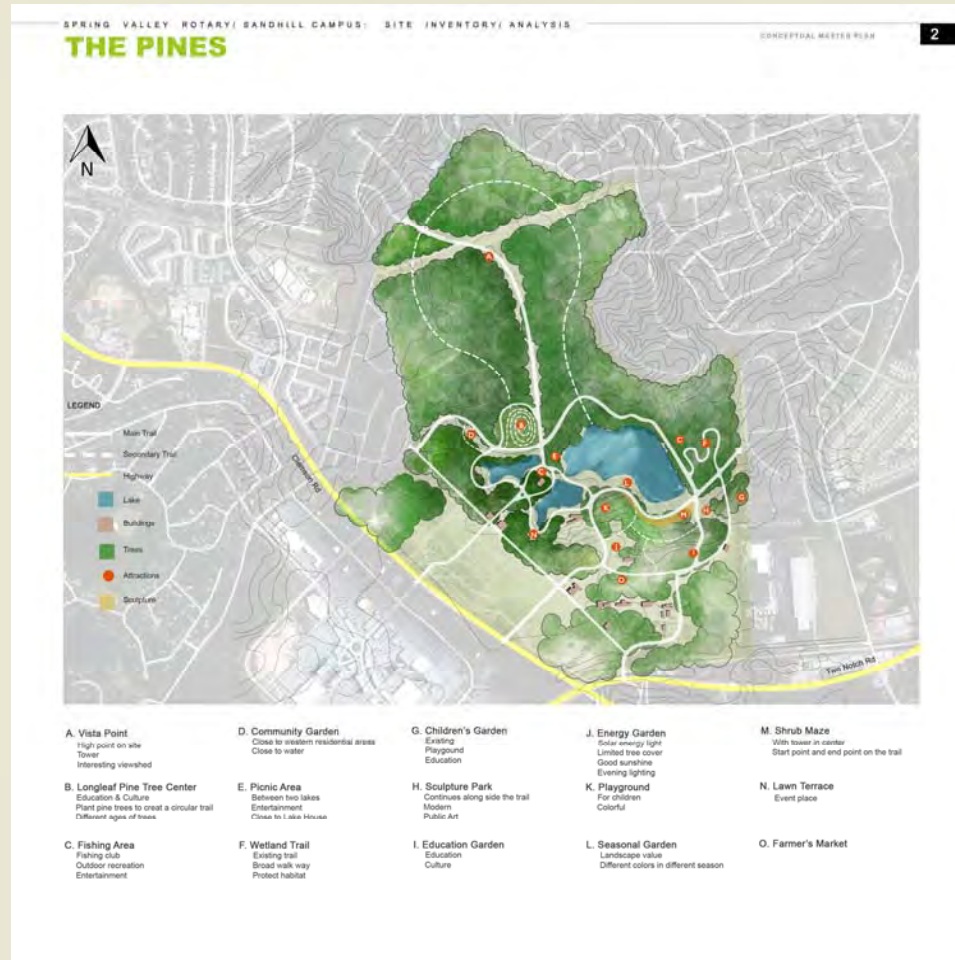
# STUDENT AWARDS



AMERICAN SOCIETY OF  
LANDSCAPE ARCHITECTS

North Carolina Chapter

# Student Awards



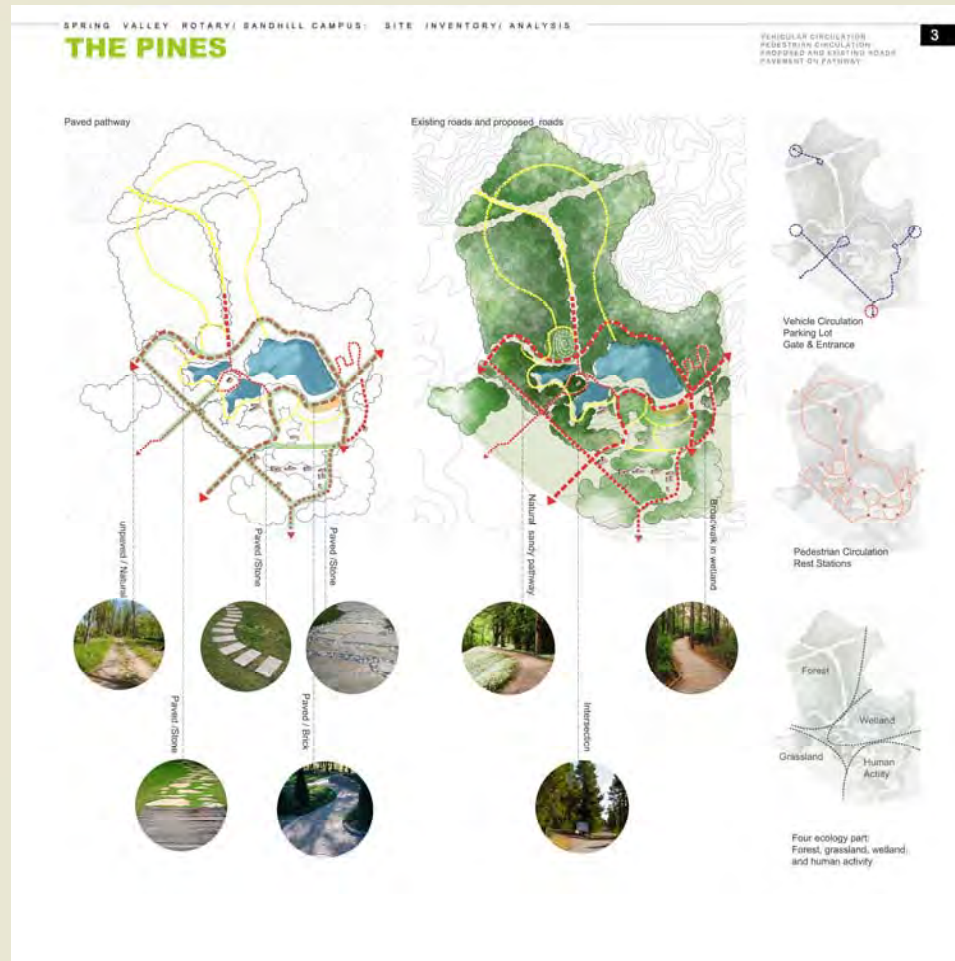
**Project Name:** The Pines at Sandhills, Research and Education Center

**Firm Name:** Clemson University

**Project Location:** Columbia, South Carolina



# Student Awards

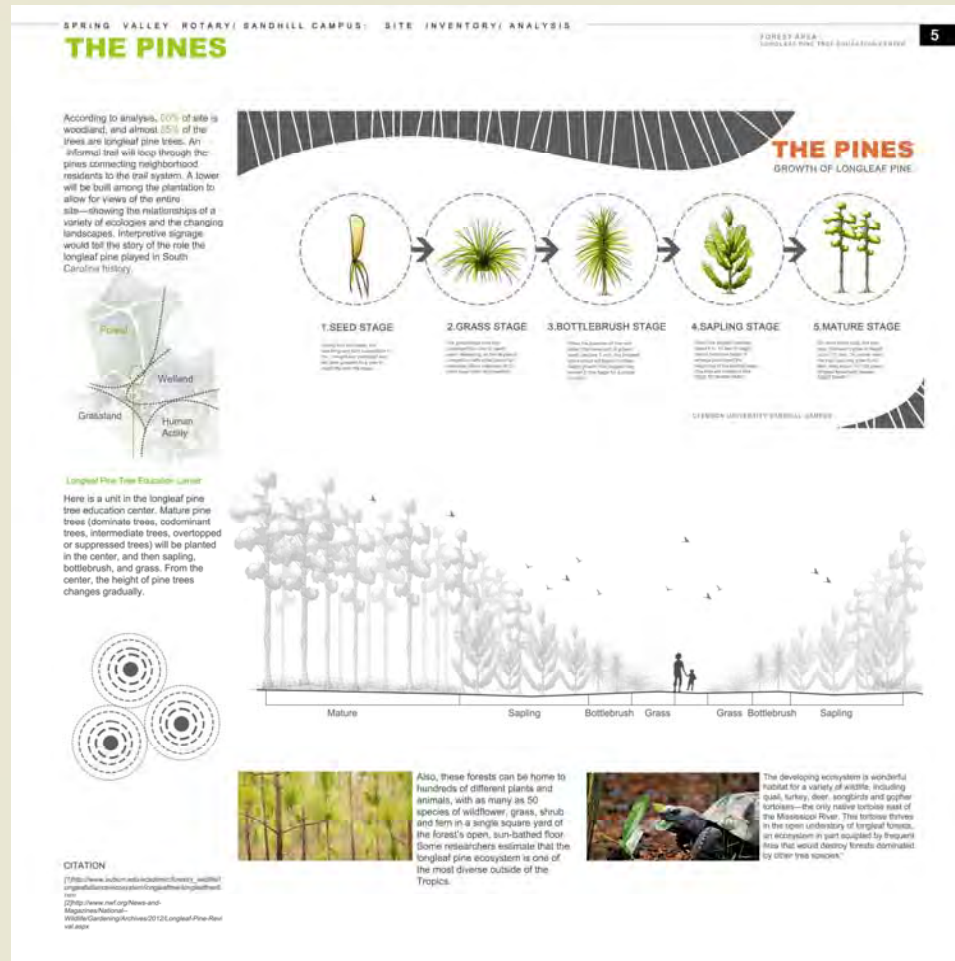


**Project Name:** The Pines at Sandhills, Research and Education Center

**Firm Name:** Clemson University

**Project Location:** Columbia, South Carolina

# Student Awards



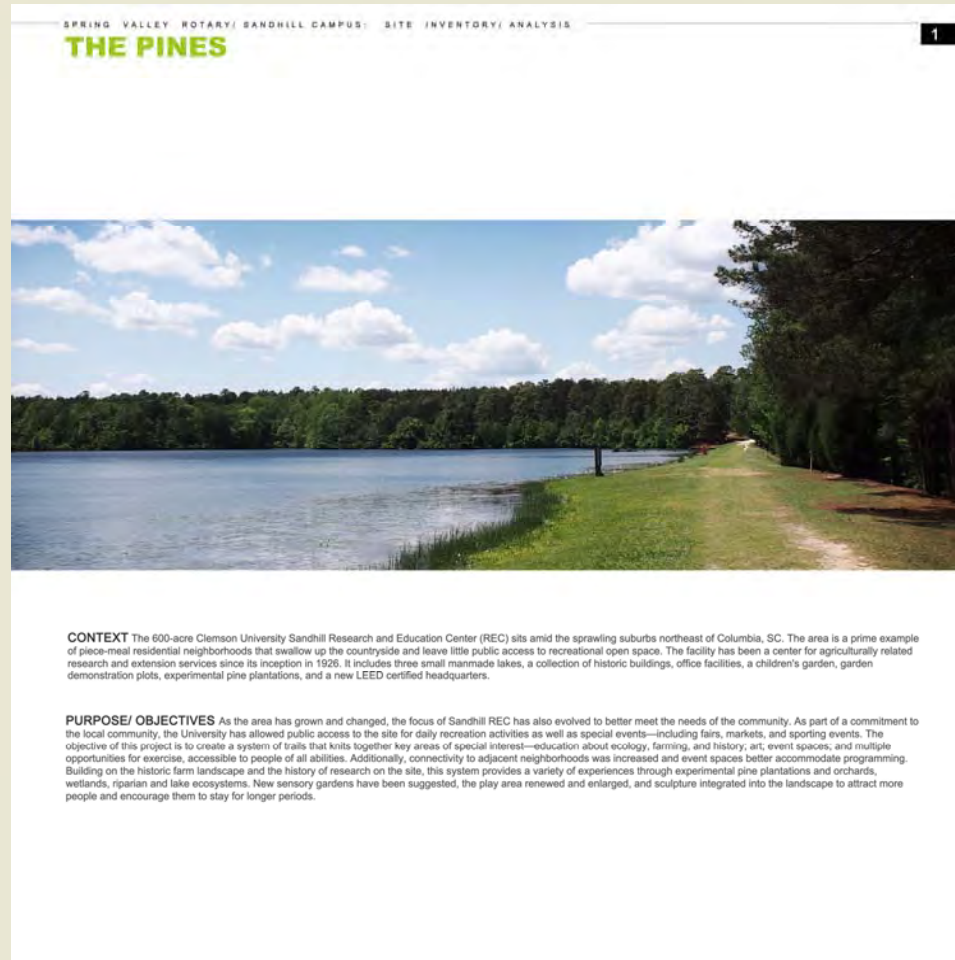
**Project Name:** The Pines at Sandhills, Research and Education Center

**Firm Name:** Clemson University

**Project Location:** Columbia, South Carolina



# Merit Award

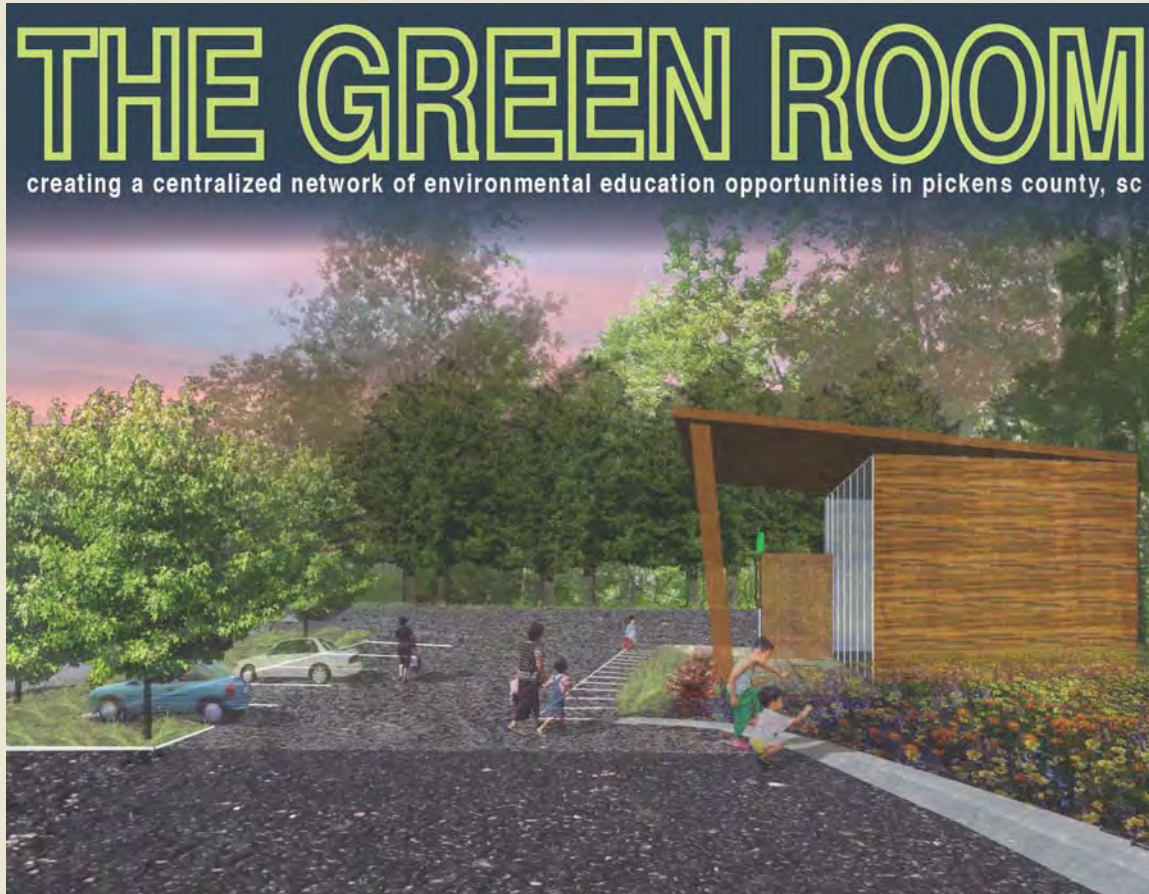


**Project Name:** The Pines at Sandhills, Research and Education Center

**Firm Name:** Clemson University

**Project Location:** Columbia, South Carolina

# Student Awards



**Project Name:** The Green Room

**Firm Name:** Clemson University

**Project Location:** Pickens County, South Carolina



# Student Awards

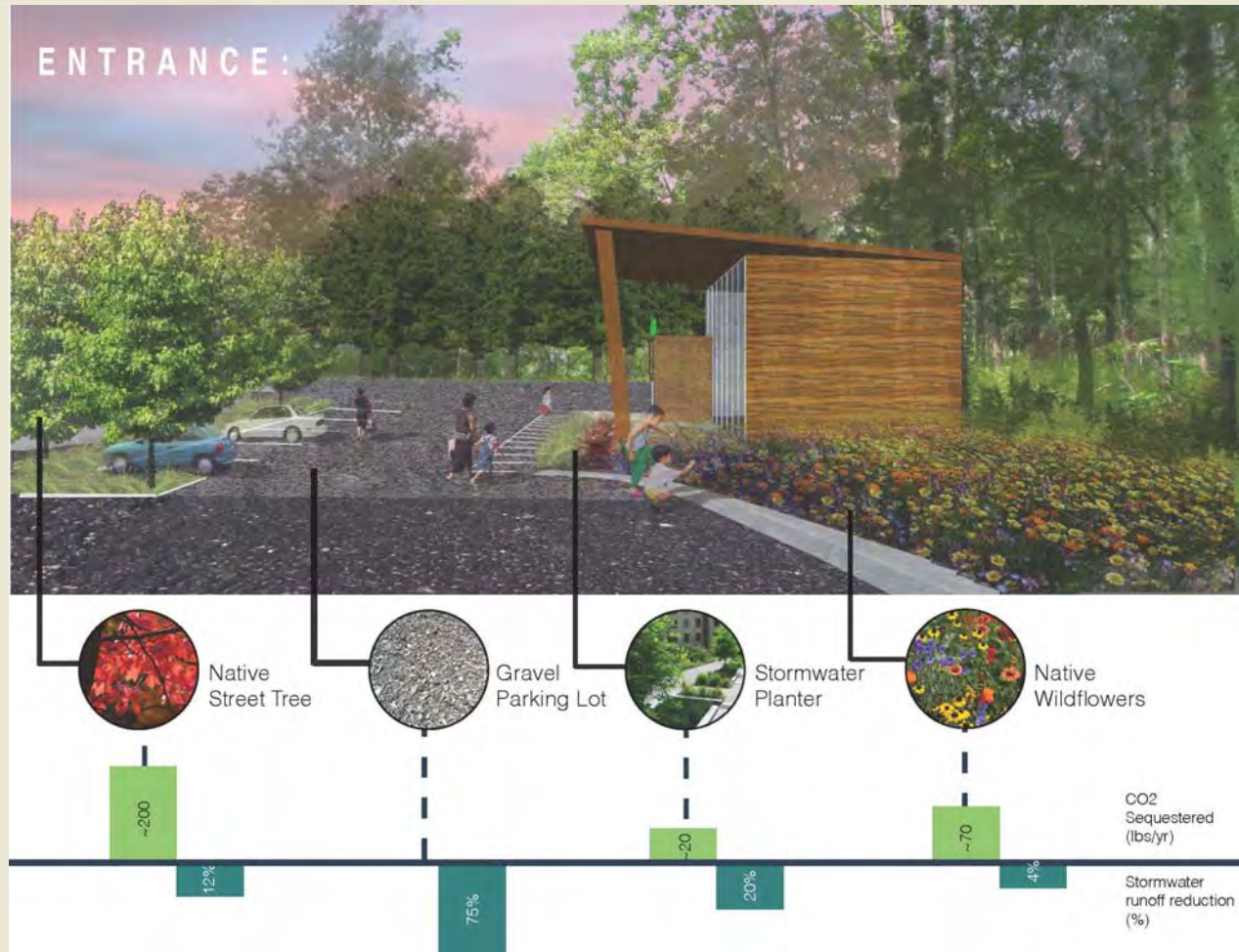


**Project Name:** The Green Room

**Firm Name:** Clemson University

**Project Location:** Pickens County, South Carolina

# Student Awards



**Project Name:** The Green Room

**Firm Name:** Clemson University

**Project Location:** Pickens County, South Carolina



# Merit Award

## SEASONAL COLOR WALK:

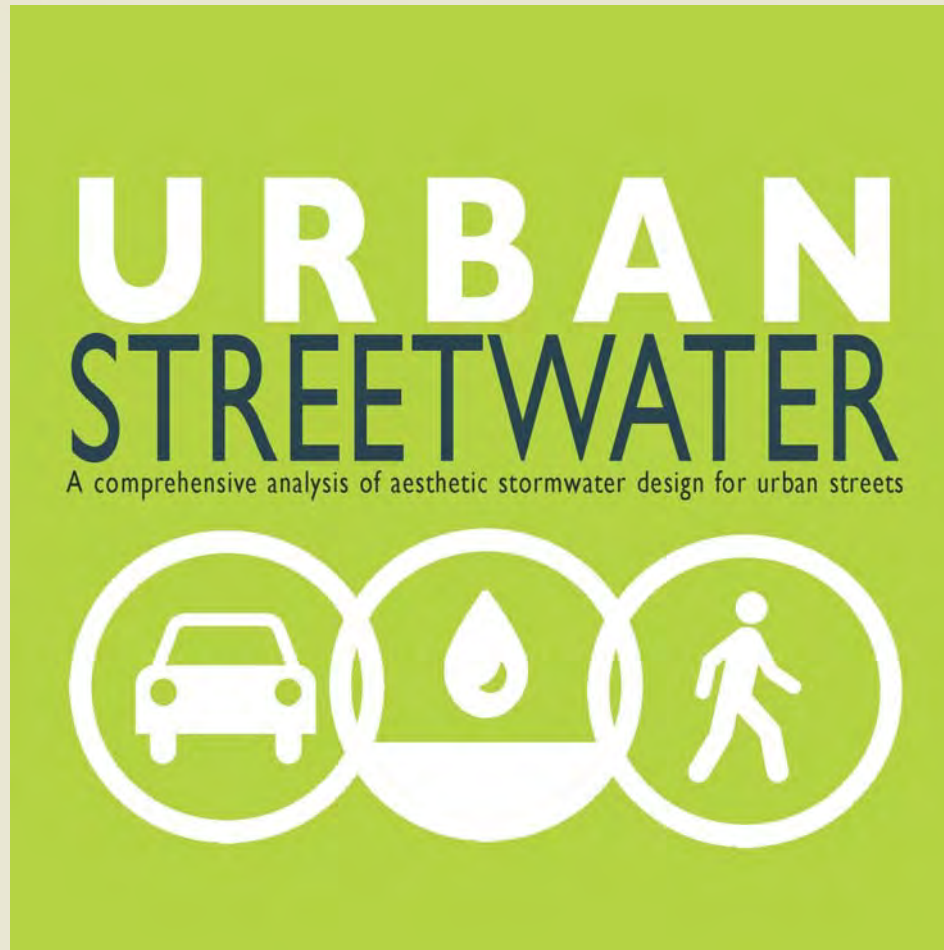


**Project Name:** The Green Room

**Firm Name:** Clemson University

**Project Location:** Pickens County, South Carolina

# Student Awards



**Project Name:** Urban StreetWater

**Firm Name:** Clemson University



# Student Awards

## METHODOLOGY



In order to analyze the potential of urban streets for stormwater management solutions, I looked at three separate aspects of urban stormwater designs (urban ecology, urban public space, aesthetic design) and how they interacted with each other. First I researched the tenets of urban ecology and how factors like soils, water flow, and weather patterns affect and are affected by the urban landscape. Second I tried to determine the qualities of effective urban public spaces. I asked questions such as "what do people value most in urban public space?" and "how do you make the most of limited space?". Third I went back to the basics of aesthetics and tried to define specific characteristics of successful designs. Using these characteristics as guiding principles, I am more likely to create functional spaces that are considered amenities. Each of these areas urban ecology, urban public space, and aesthetic design contribute to the creation of a successful, artful stormwater management solution.

After compiling some base knowledge, I explored the relationships between the three areas. A web of connectedness began to form as I found ways that the three areas affected and influenced one another. A concise diagram of my analysis can be found with my research conclusions on page 7 and 8.

My process continued forward as I began to draw up diagrams and details for implementation strategies based on the information gathered in the research phase. I organized the information by filing the strategies under the categories of slow, spread, or soak. The strategies are not site specific or finalized but instead aim to create framework for urban stormwater management that could be applied on a project by project basis.

As a culmination of my work, I plan to produce a site-specific project that uses my research and implementation strategies as guiding principles for its design.

3

## URBAN ECOLOGY



Urban ecology is a relatively new field that examines the relationships of ecological functions, such as soil quality, wind, water, and wildlife patterns, in an urban environment. These natural systems are often manipulated in an urban setting in order to attain specific design or planning goals. Ignorance of the effects of these natural systems has led to some of our biggest issues in urban areas today, such as the urban heat island effect, species endangerment, and water pollution. For the purposes of this study, I focused on the issues of water in an urban setting and how these issues can be diffused using stormwater management techniques. I found successful stormwater systems needed to address five key hydrological objectives; flow rate, volume, frequency, duration, and quality. Properly implemented, green stormwater infrastructure can absorb containments, reduce runoff, and decrease amount of pollutants entering neighboring water bodies.

4

**Project Name:** Urban StreetWater

**Firm Name:** Clemson University

# Student Awards

## SPREAD *it out*



### Strategies:

#### -Flow-through planters

Water can be cleaned by a series of flow through planters if stormwater infrastructure is needed in an area with a lot of impervious surfaces

#### -Filtration beds

Filtration beds are a good alternative if water can not be directly introduced into the water table; water can be cleaned by filtration beds before entering the stormwater pipes

#### -Curb details

Subtle curb details can change what was a concrete wall into a stormwater planter entrance for water flow

## EXAMPLE:

### Curb Details



#### Curb cut

The simplest option, a series of curb cuts allows water to move off the road and into the stormwater planter.



#### Perforated curb

In order to utilize a stormwater planter but still give the illusion of an interrupted curb, a perforated curb may be used.



#### Flush curb

A flush curb utilizes road slope to send runoff into the planting bed. This type of curb should not be used on high-speed roads.

**Project Name:** Urban StreetWater

**Firm Name:** Clemson University



# Honor Award

## 2) CASE STUDIES

### NE Siskiyou Green Street

City of Portland, Bureau of Environmental Services / Portland, OR / 2003



Landscaped curb extensions

**Client:** City of Portland  
**Size:** 590 sq ft  
**Project Type:** Streetscape  
Existing site retrofit

**Design Features:** Landscaped curb extensions

**Cost:** \$20,000

**Description:**  
Portland's first residential green street. Provides an example of how curb extensions can be used to manage stormwater. Curb cuts allow water to enter beds and if the water gets high enough, excess water enters the sewer system through a drain in the back of the curb extension.

**Conclusion:**  
Relatively inexpensive option for effectively managing stormwater. Attention should be paid to blending plant material as NE Siskiyou residents appreciated that effort.



Blending of materials was appreciated by the residents

9

### Sand River Headwaters Green Infrastructure

Woolpert, Inc & Clemson Center for Watershed Excellence / Aiken, SC / 2009

**Client:** City of Aiken  
**Size:** Over 5 acres  
**Project Type:** Streetscapes  
Existing site retrofit

**Design Features:** Bioretention facility, bioswale, cistern, porous pavers, curb cuts

**Cost:** \$3.34 mil

**Description:**  
Aiming to reduce downtown Aiken's stormwater runoff impact on the Sand River, the green infrastructure included multiple different design features to try to contain and treat stormwater. The relatively large project aims to be low maintenance as well.

**Conclusion:**  
While it may not be the most eye-catching stormwater project looked at, the project does set a good precedent for using South Carolina natives for low-maintenance.



Use of natives on the bioswale



Closer view of the swale and how it directs water

10

**Project Name:** Urban StreetWater

**Firm Name:** Clemson University