

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



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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



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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

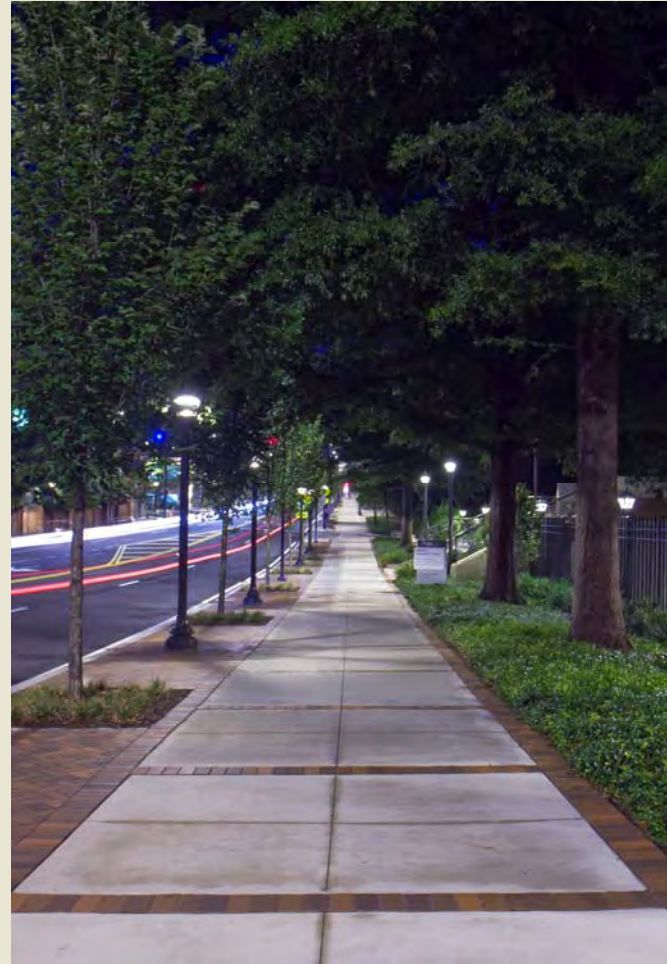


Project Name: North Avenue: Georgia Tech

Firm Name: Pond Architects, Engineers, Planners

Project Location: Atlanta, Georgia

General Design



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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

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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

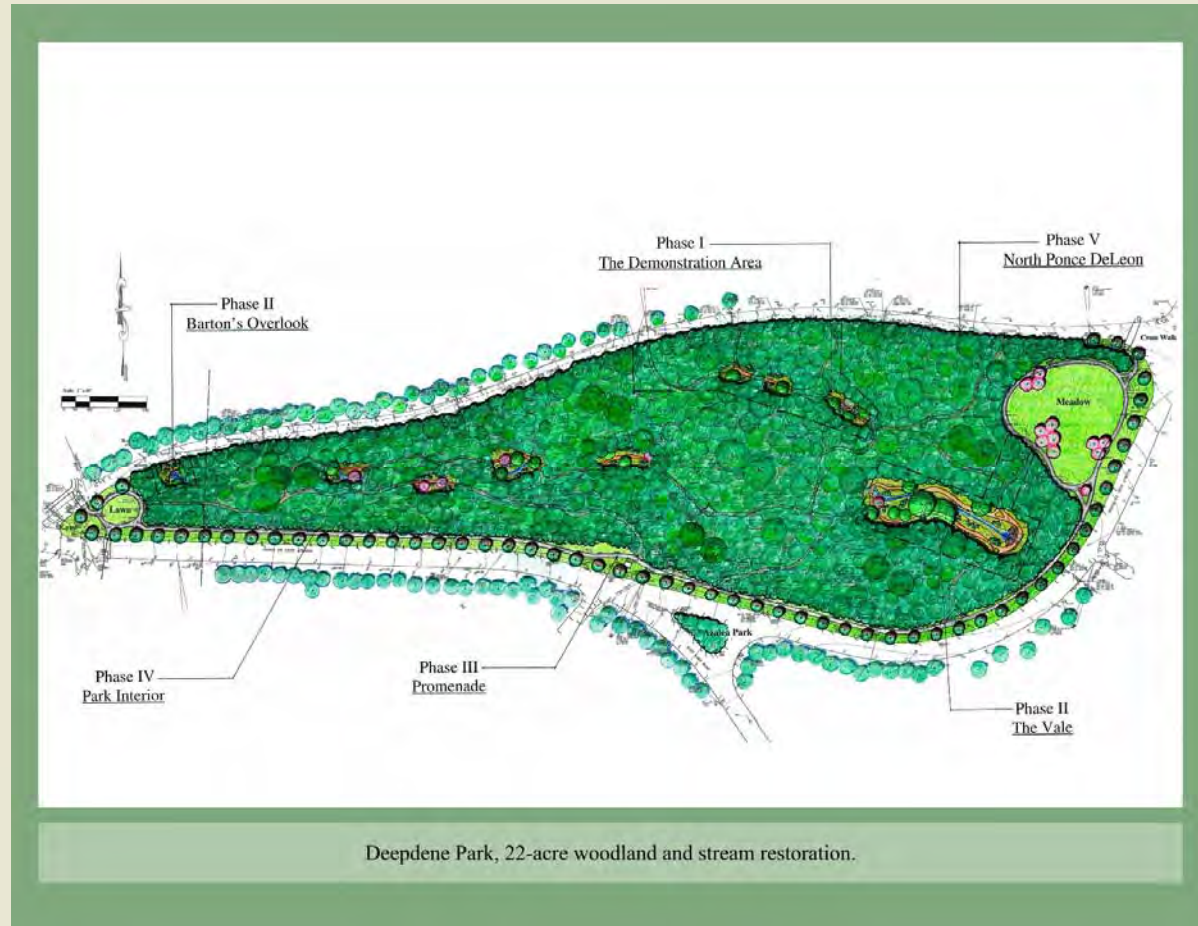


Project Name: Neuse River Greenway Trail

Firm Name: Stewart

Project Location: Wake & Johnston Counties, North Carolina

General Design



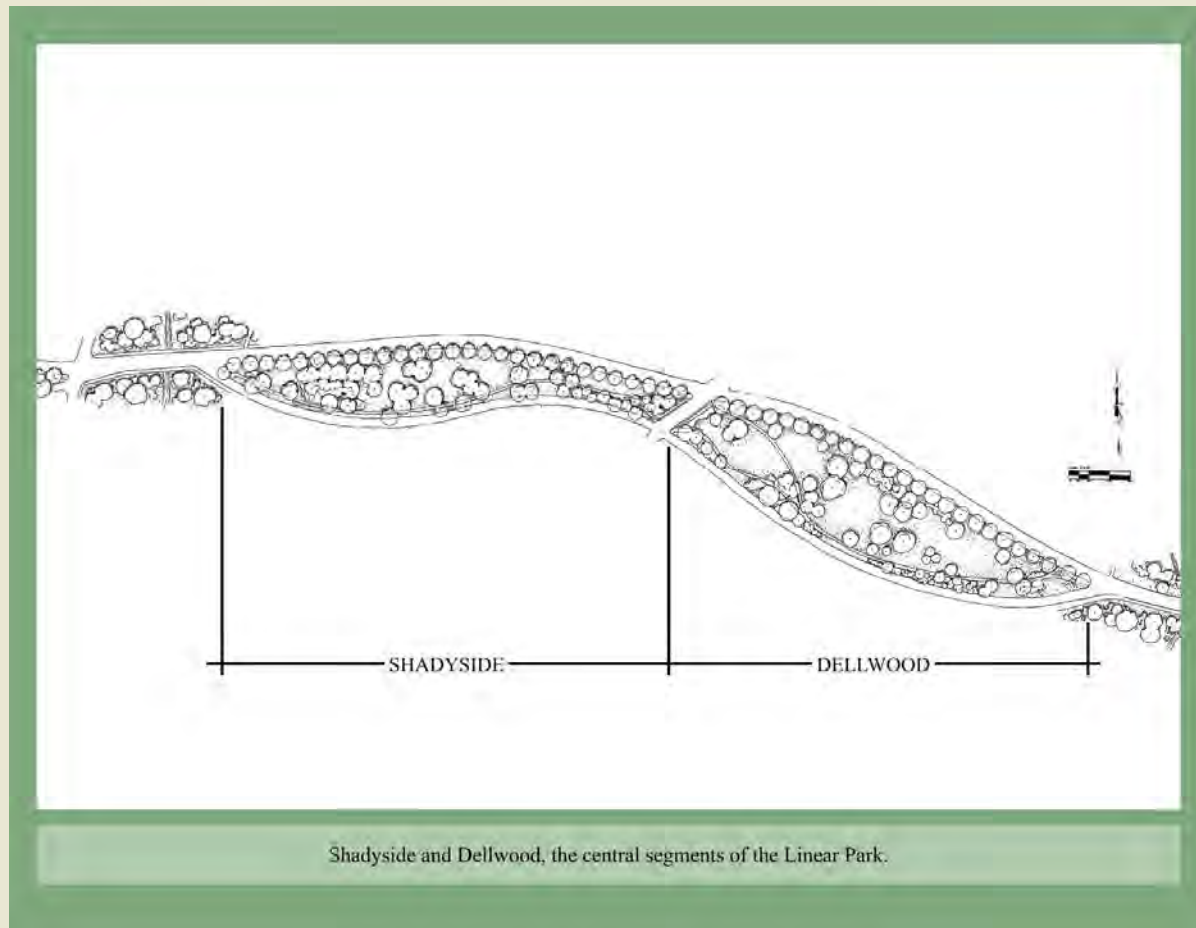
Deepdene Park, 22-acre woodland and stream restoration.

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



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Firm Name: Wood + Partners, Inc

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General Design



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Project Location: Green County, Georgia

Merit Award

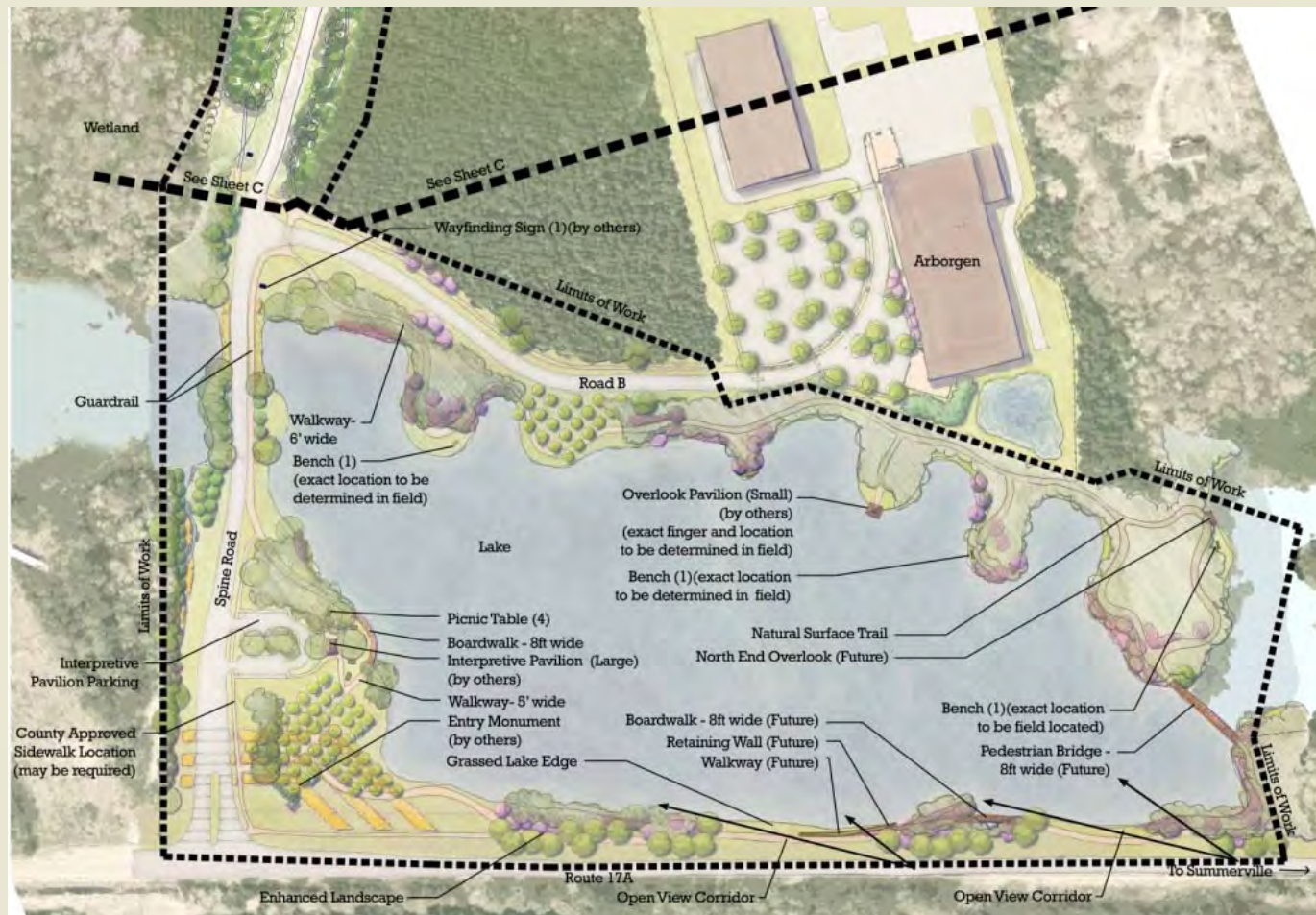


Project Name: Reynolds Lake Club Pool, Phase II

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



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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



Photo Credit: Allen Sharpe

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



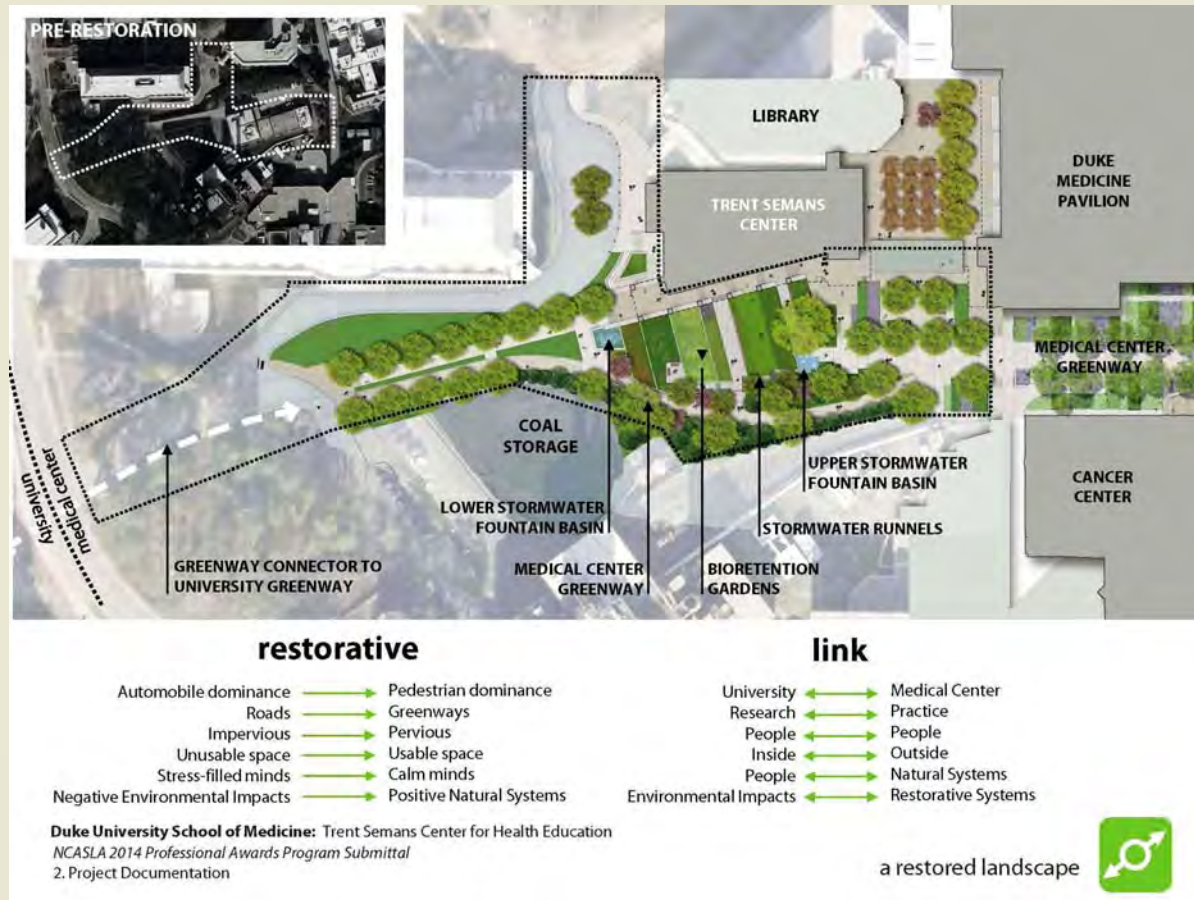
Main entry at horseshoe gates.

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

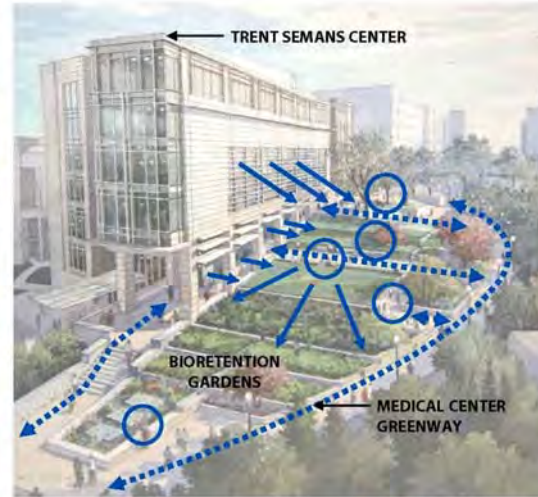
Firm Name: Stewart

Project Location: Durham, NC

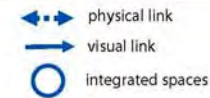
General Design



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

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

link

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

restored natural connections



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

Firm Name: Stewart

Project Location: Durham, NC

General Design



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Firm Name: Stewart

Project Location: Durham, NC

General Design



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Firm Name: Stewart

Project Location: Durham, North Carolina

General Design



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Merit Award

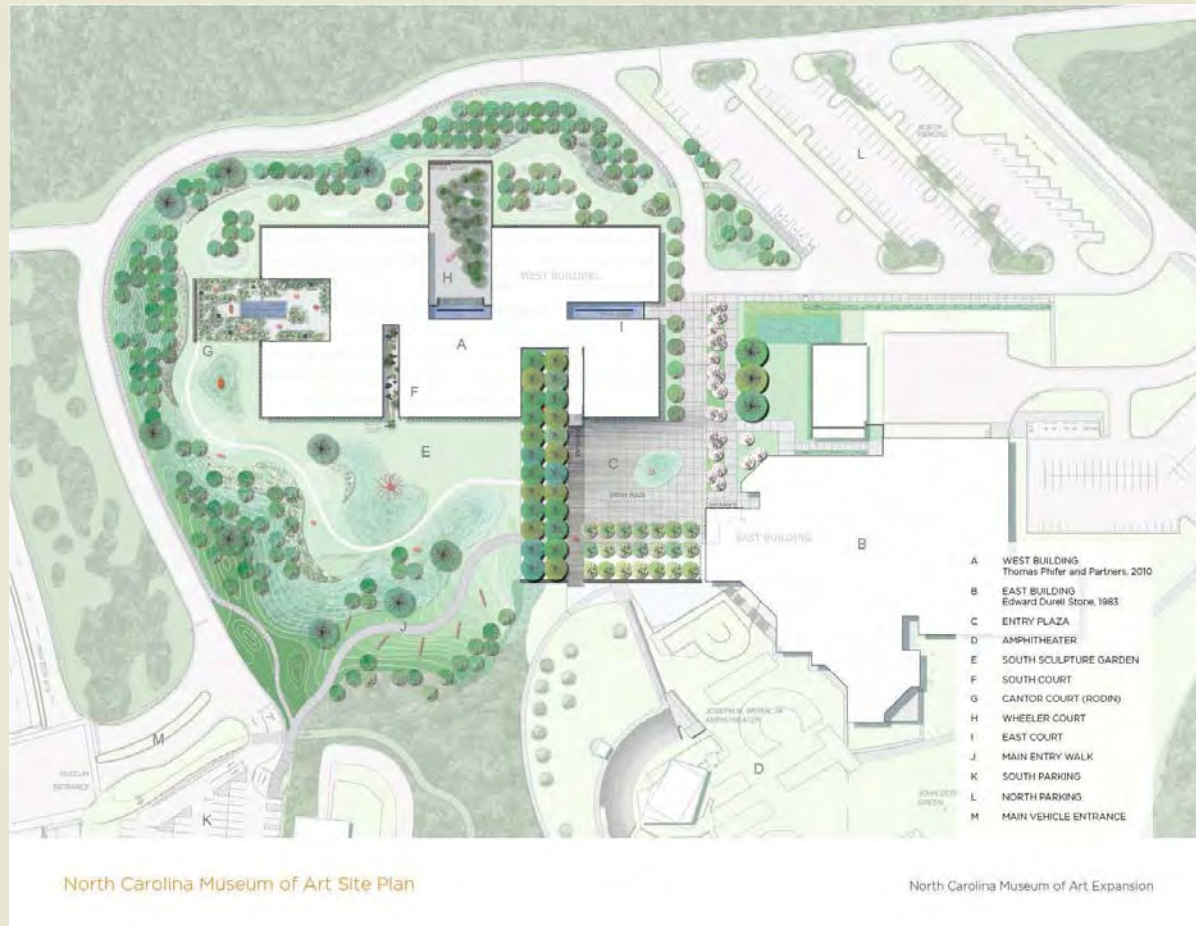


Project Name: Duke University School of Medicine: Trent Semans Center

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



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General Design



Project Name: North Carolina Museum of Art Expansion

Firm Name: Surface 678

Project Location: Raleigh, North Carolina

Honor Award

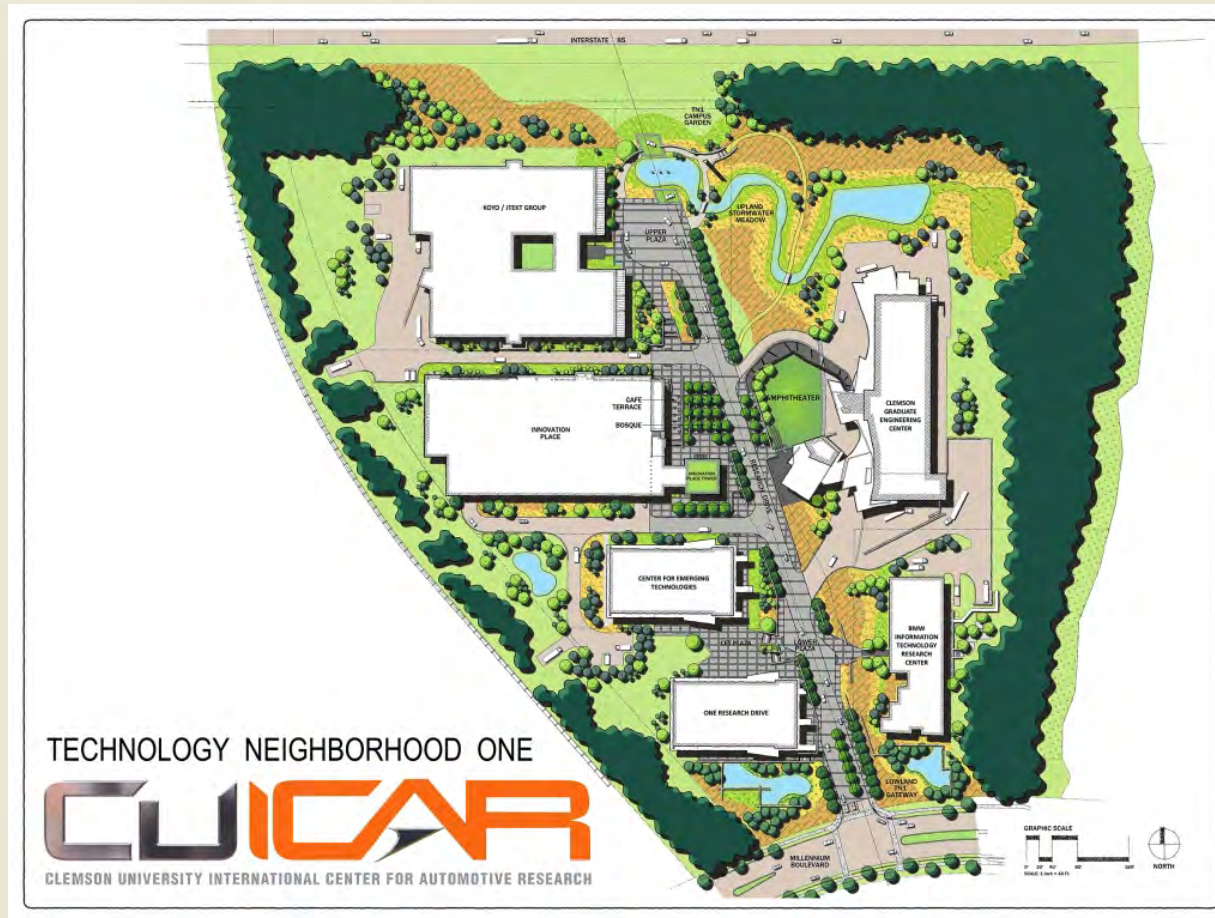


Project Name: North Carolina Museum of Art Expansion

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



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Project Location: Clemson, South Carolina

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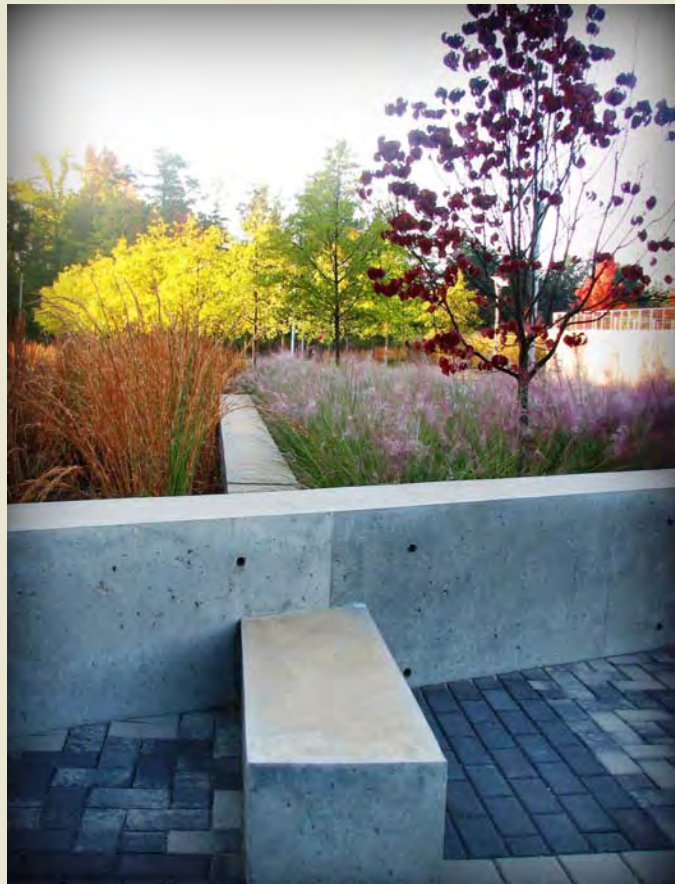


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Project Location: Clemson, South Carolina

General Design

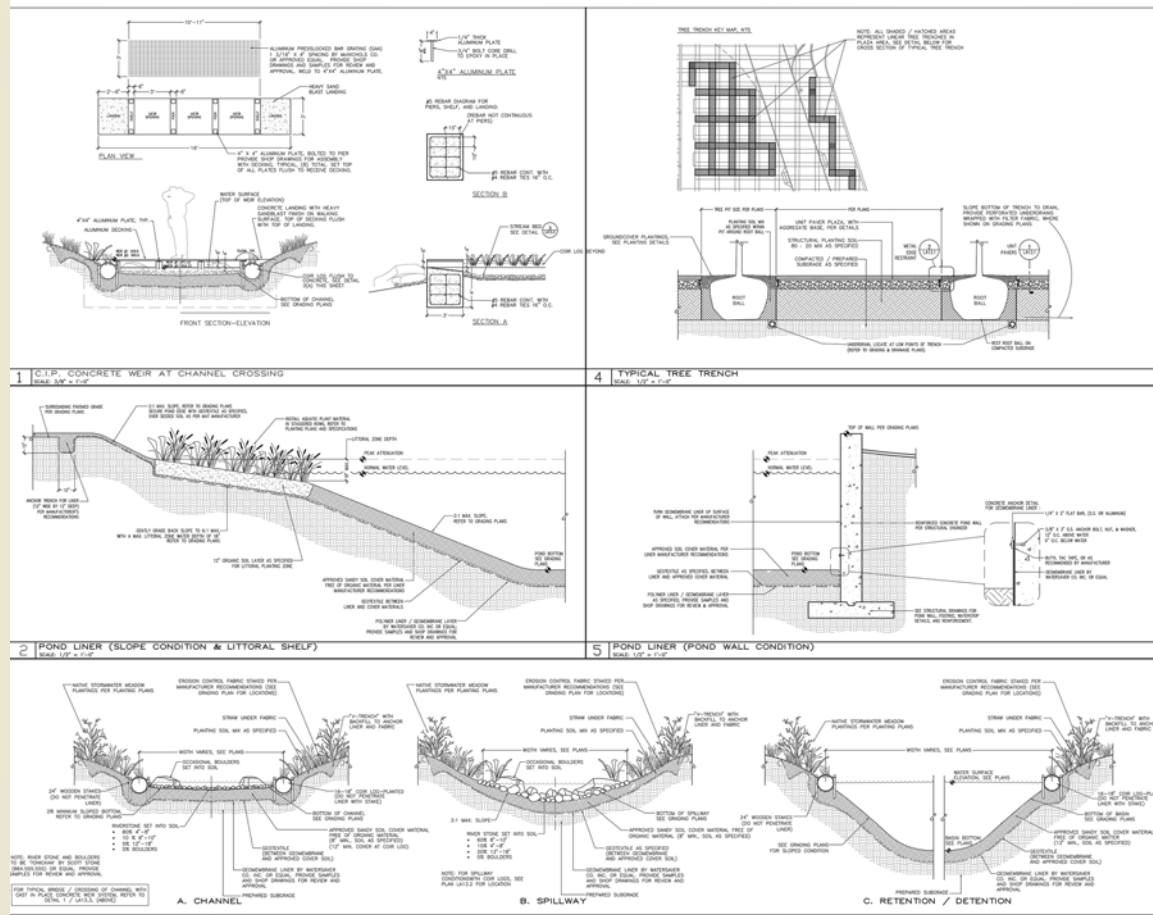


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Honor Award

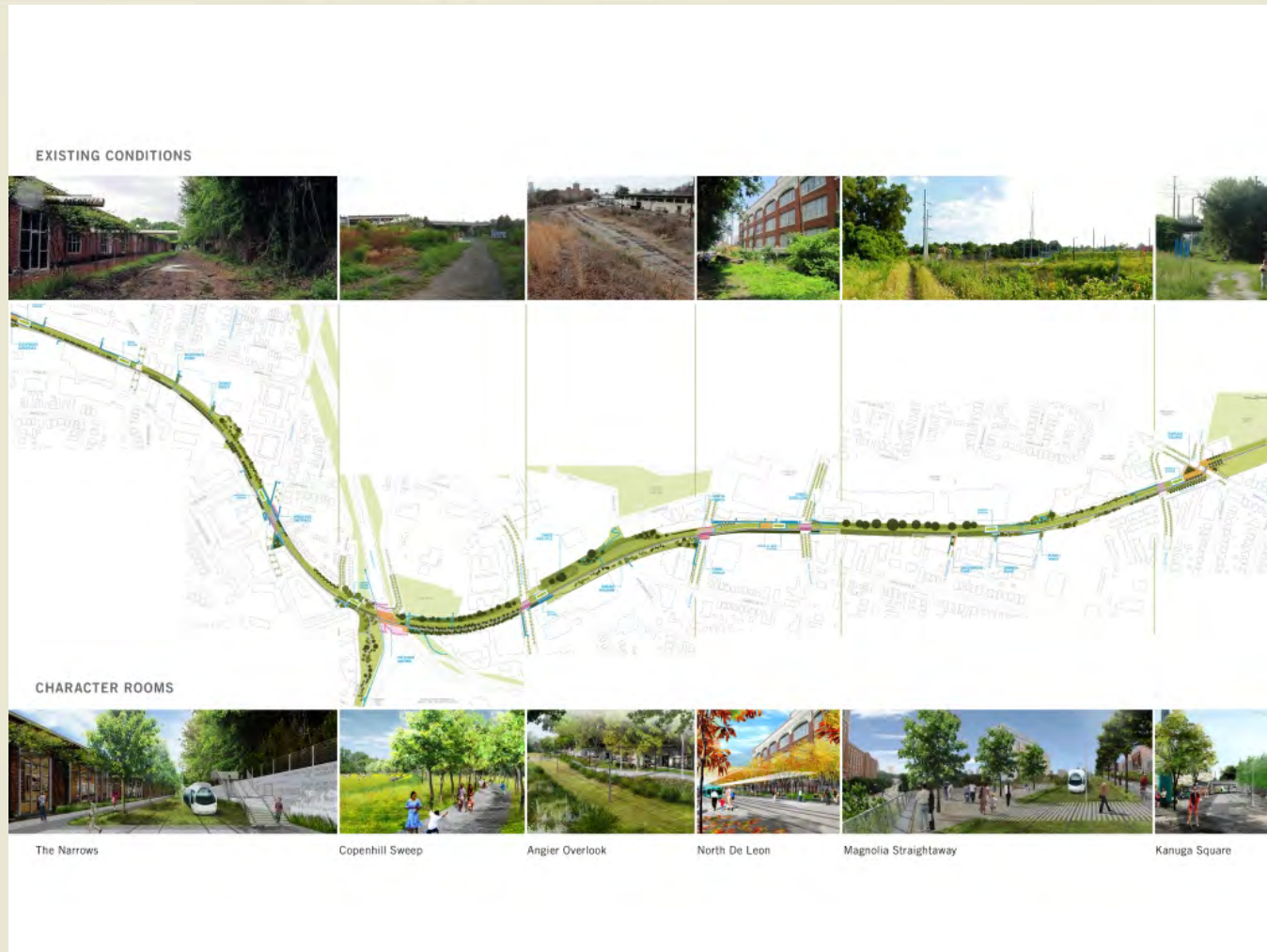


Project Name: Clemson University Center for Automotive Research

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



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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



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General Design



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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

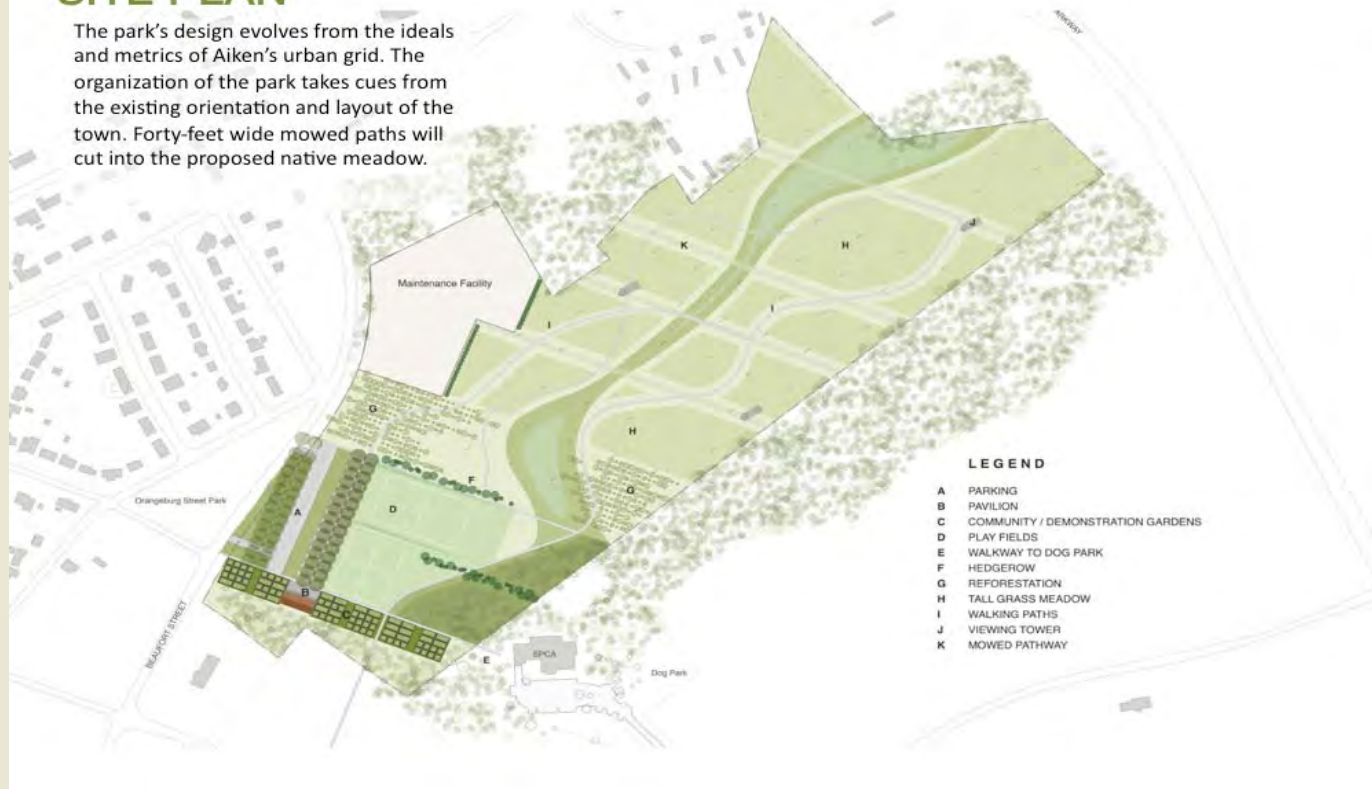
Firm Name: Pearson Russell Landscape Architects

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.



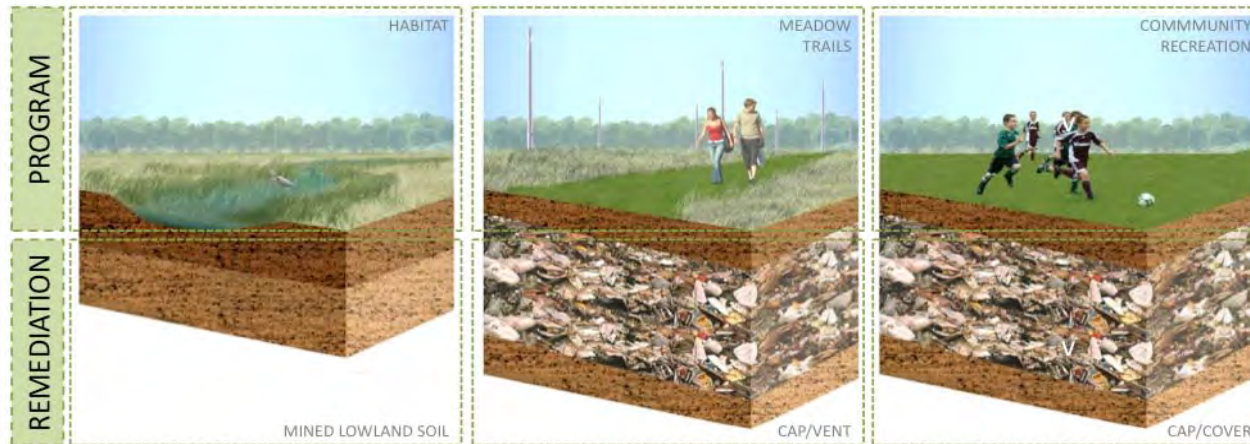
Project Name: Northside Park

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]

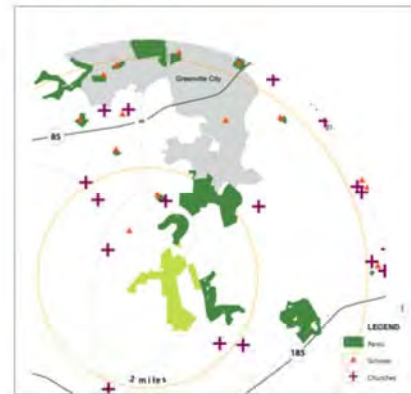
Circulation
Population
Cultural Resources



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

COMMUNITY GARDENS
SKATE PARK
LABYRINTH
BATHROOMS
TROLLEY
FOUNTAINS
ACCESSIBILITY
AMPHITHEATER
PICNIC SHELTER
2ND TRAIL
TAI CHI
LAKE
ADULT PLAYGROUND

SECURITY STATION
BOULDERING WALL
DRIVING RANGE
BASKETBALL
FOOD TRUCK / CONC.
PARKING
LIGHTED FIELD / M-P
PUBLIC ART / PERF
INCL. PUPPETS
INDOOR EVENTS
FITNESS AREA
BOCCIE
BIKE / STROLLER RENT
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



©Hauk &

View Toward Reedy River Bridge



©Hauk &

View of Reedy River Overlook



©Hauk &

View Toward Visitor's Center



©Hauk &

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

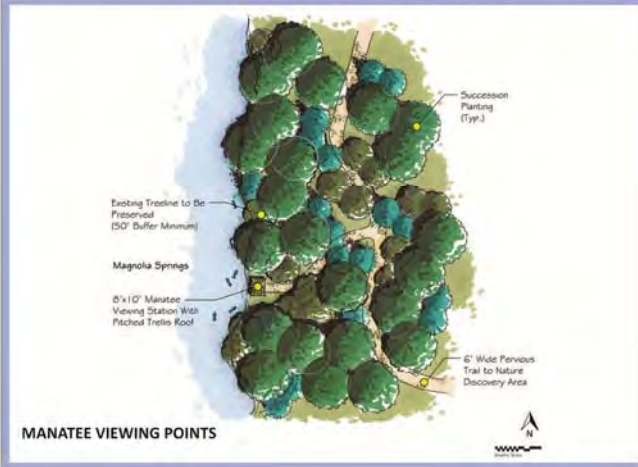
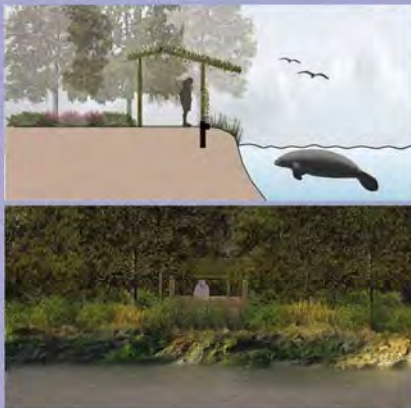
Firm Name: Stantec Consulting Services and Liollo Architecture

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.

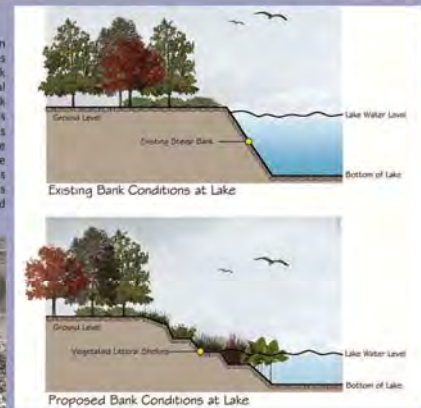


MANATEE VIEWING POINTS

13

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



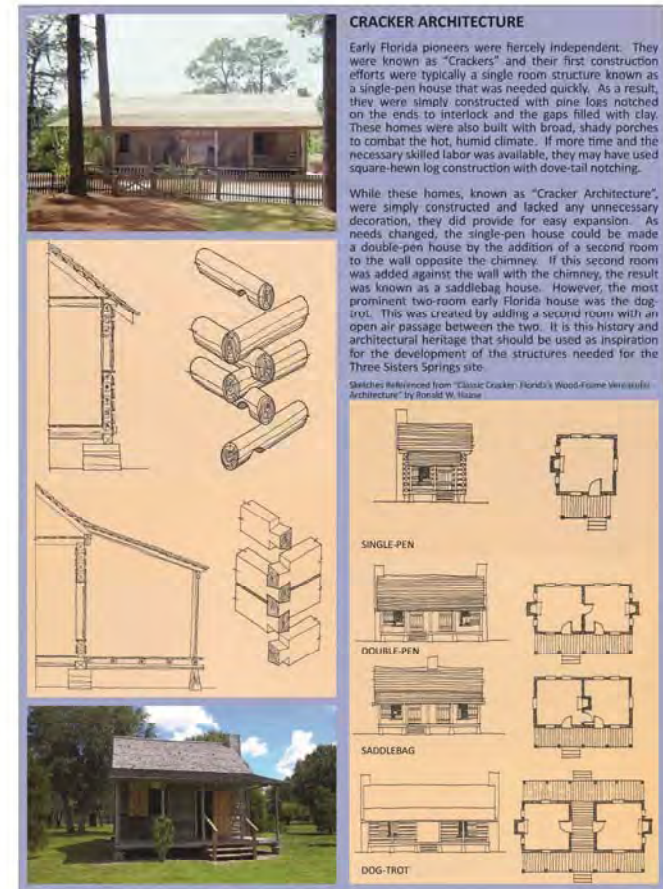
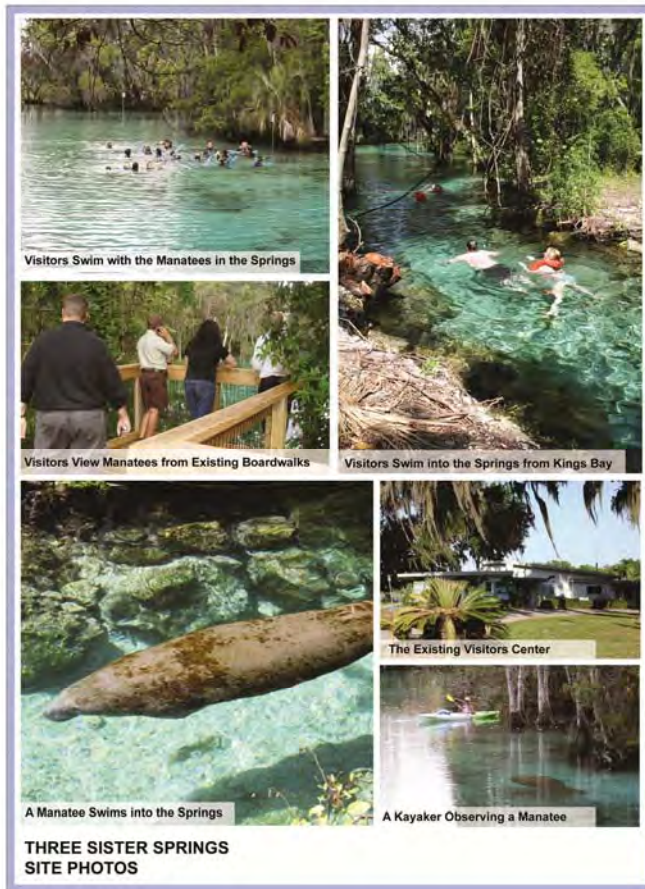
THREE SISTER SPRINGS
PROCESS SKETCHES

Project Name: Three Sisters Spring – Master Plan

Firm Name: Stantec Consulting Services and Liollo Architecture

Project Location: Crystal River, Florida

Merit Award

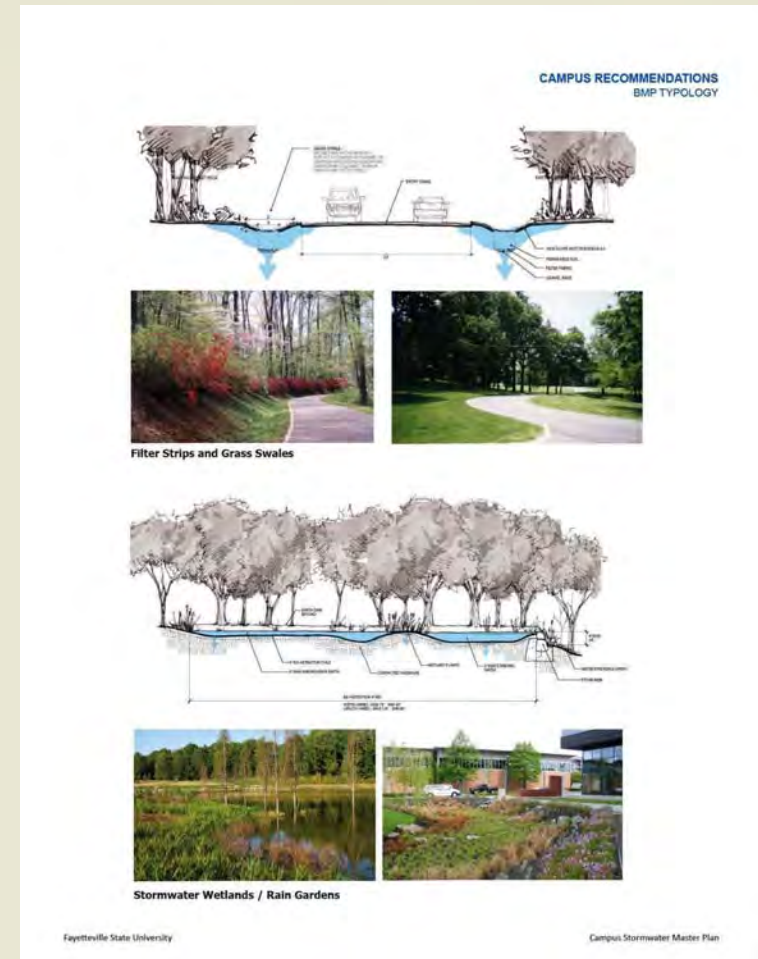
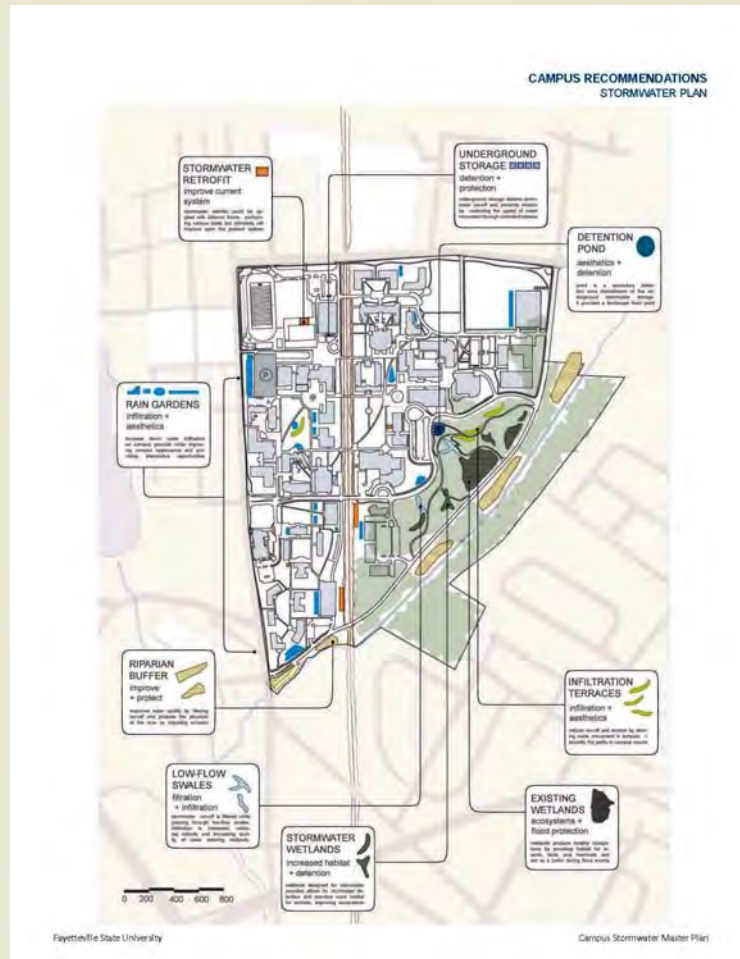


Project Name: Three Sisters Spring – Master Plan

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

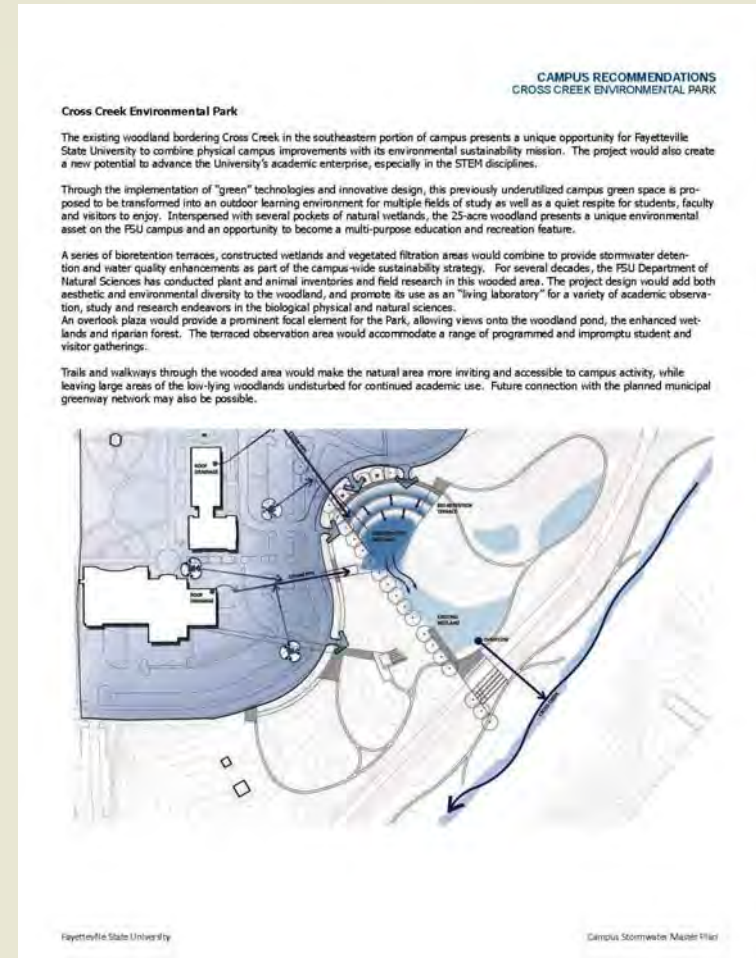
Campus Stormwater Master Plan

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



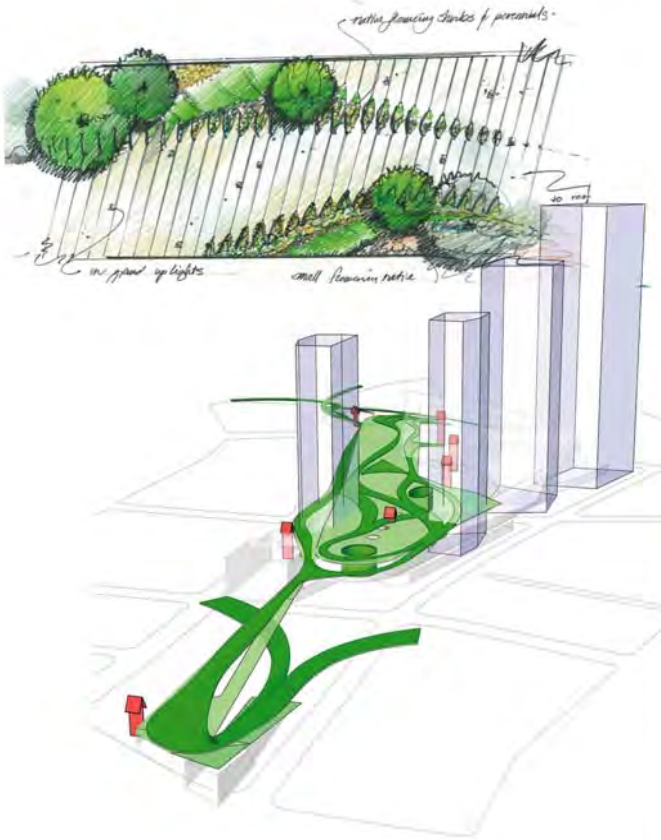
Project Name: Georgia Multi-Modal Passenger Terminal

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



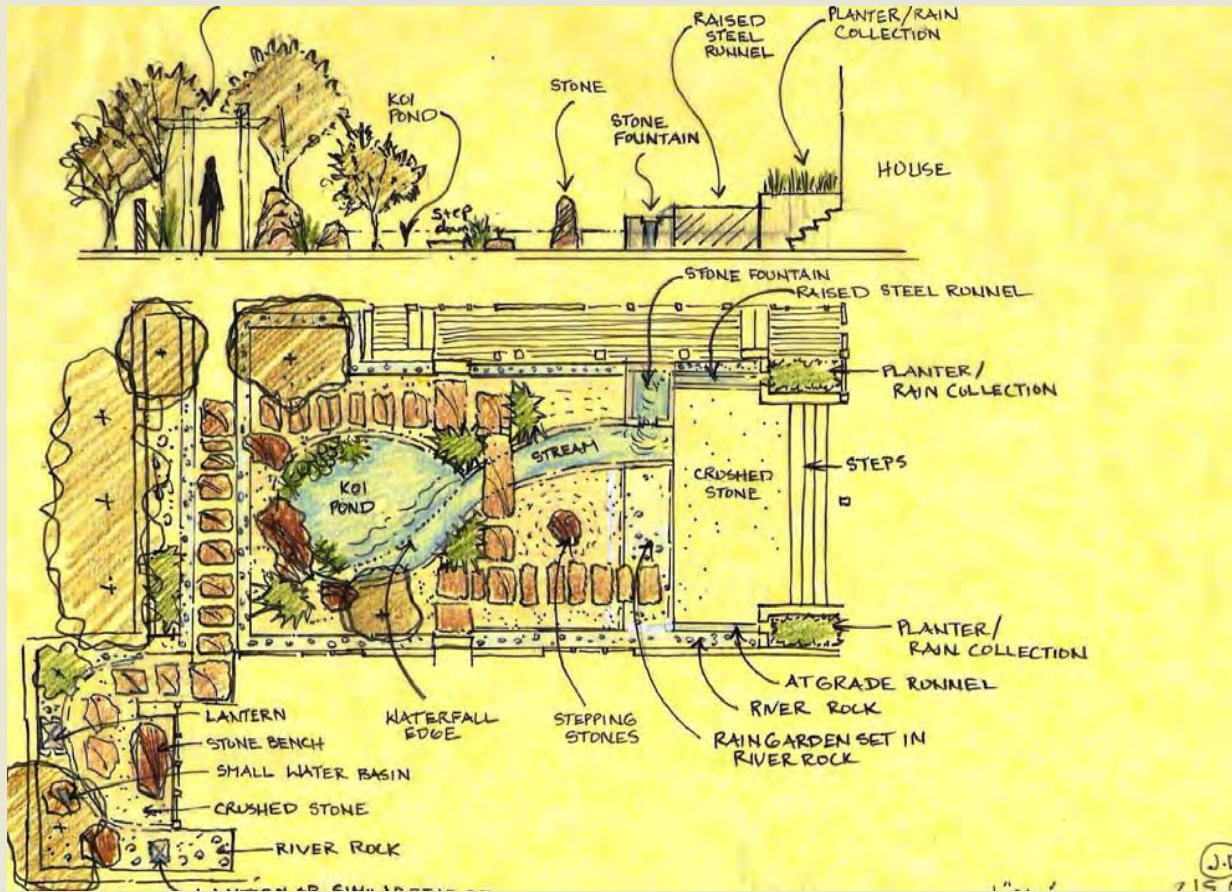
front entry with bands of native plants

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



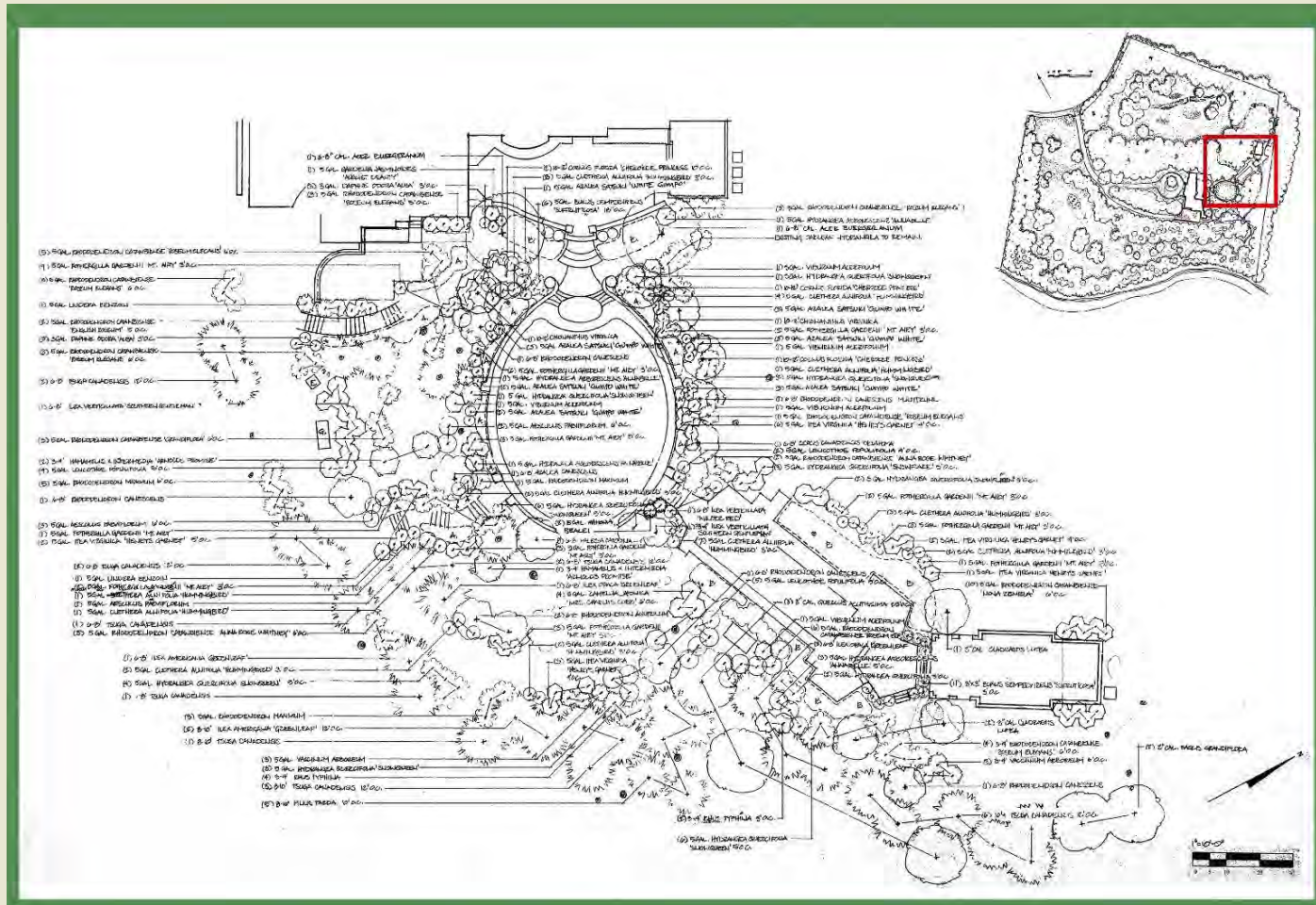
Bluestone patio and perennial planting border pool.

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



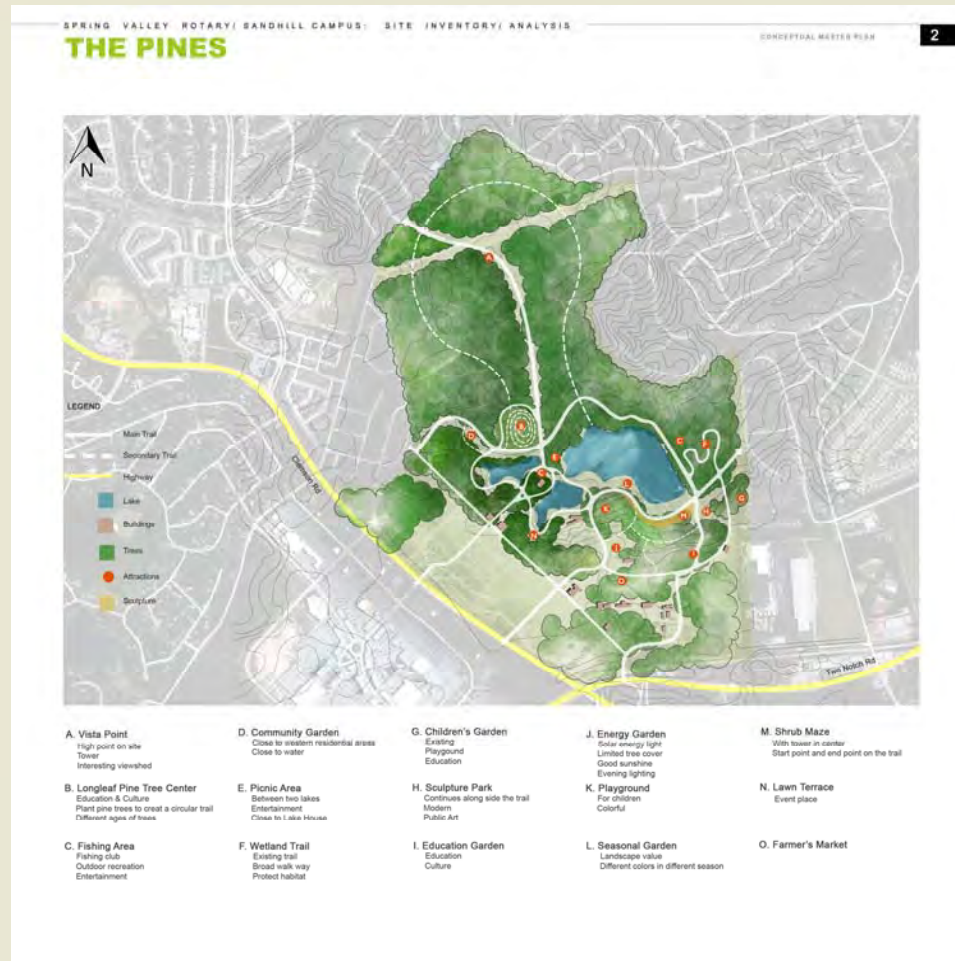
STUDENT AWARDS



AMERICAN SOCIETY OF
LANDSCAPE ARCHITECTS

North Carolina Chapter

Student Awards

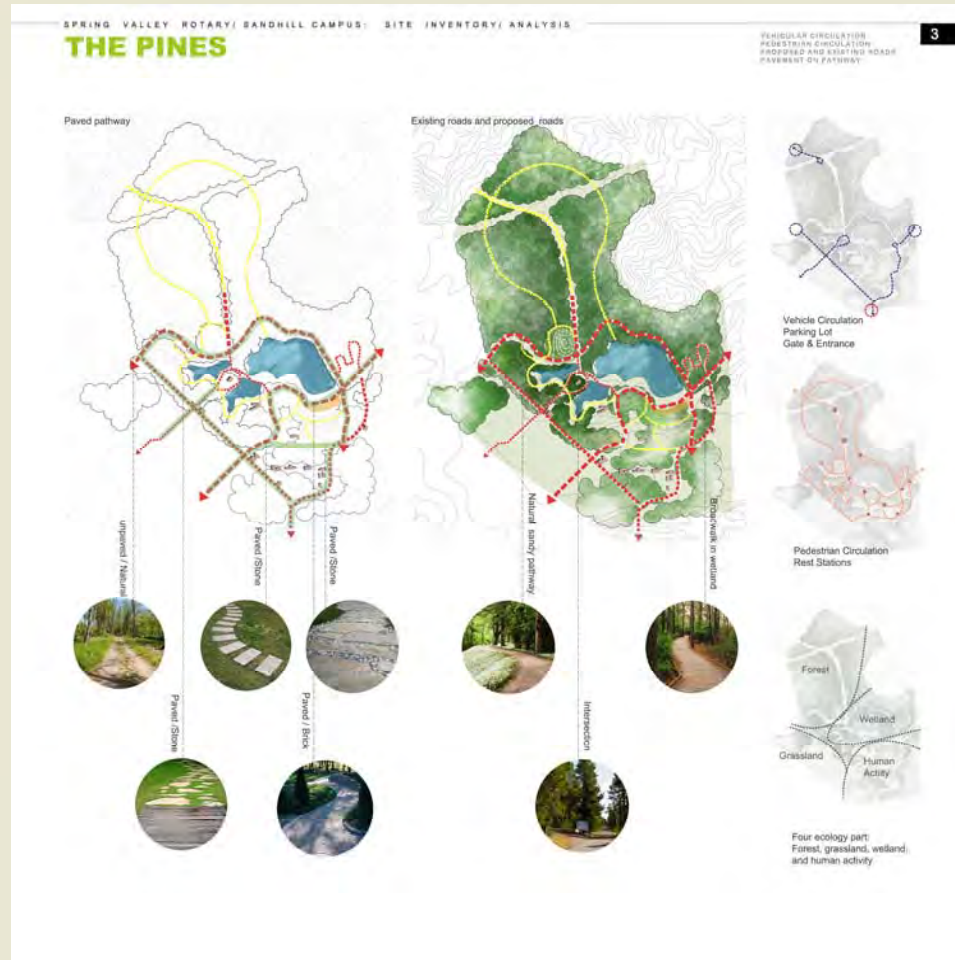


Project Name: The Pines at Sandhills, Research and Education Center

Firm Name: Clemson University

Project Location: Columbia, South Carolina

Student Awards

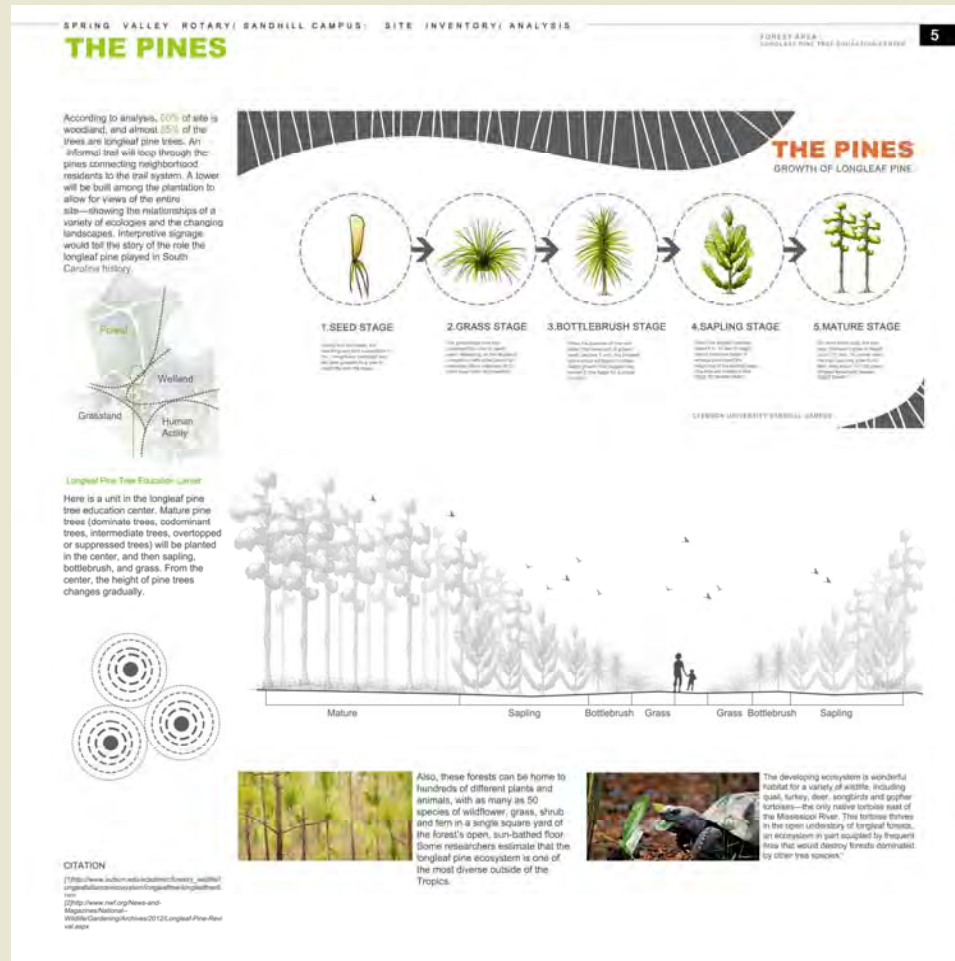


Project Name: The Pines at Sandhills, Research and Education Center

Firm Name: Clemson University

Project Location: Columbia, South Carolina

Student Awards

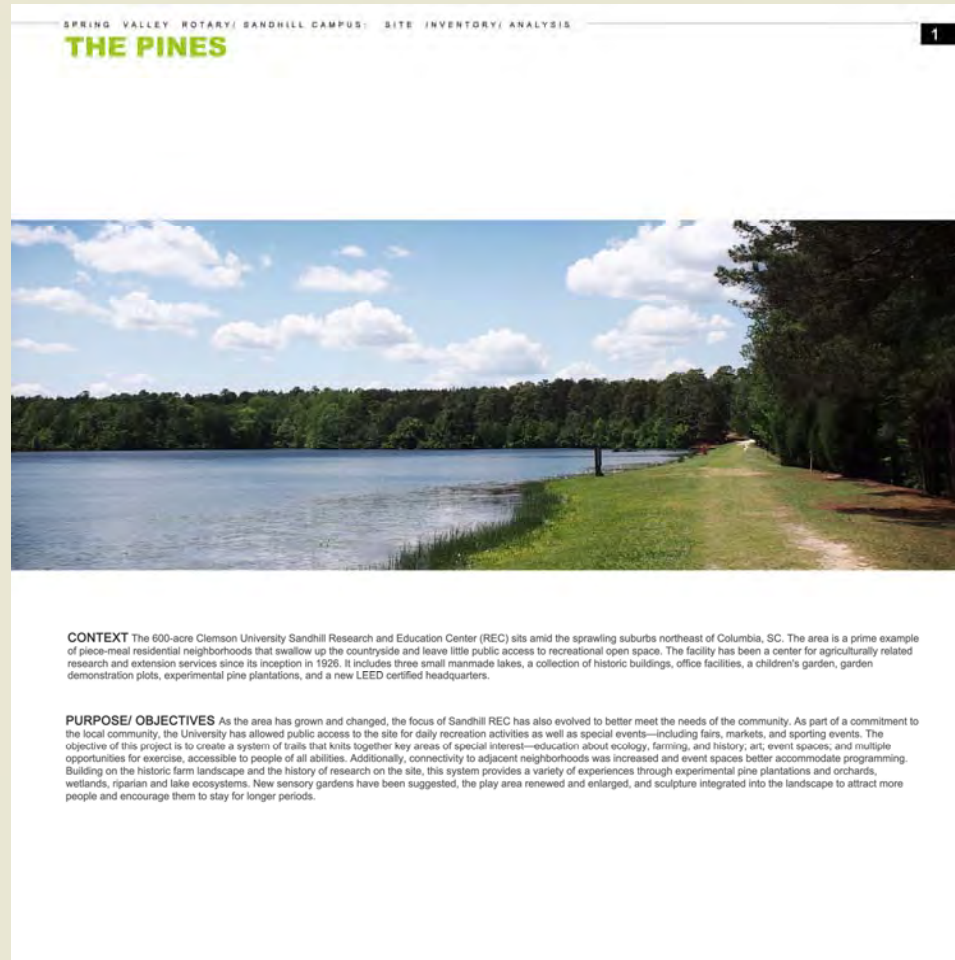


Project Name: The Pines at Sandhills, Research and Education Center

Firm Name: Clemson University

Project Location: Columbia, South Carolina

Merit Award

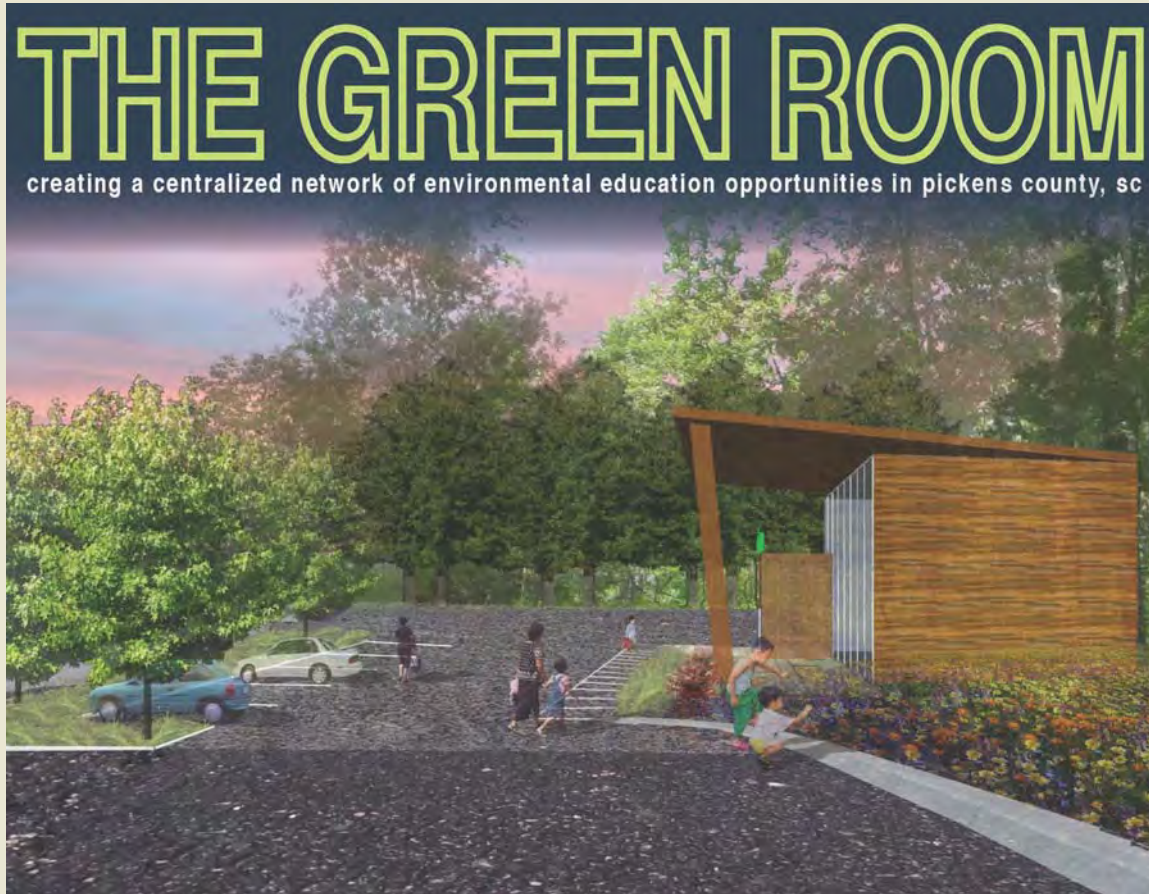


Project Name: The Pines at Sandhills, Research and Education Center

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

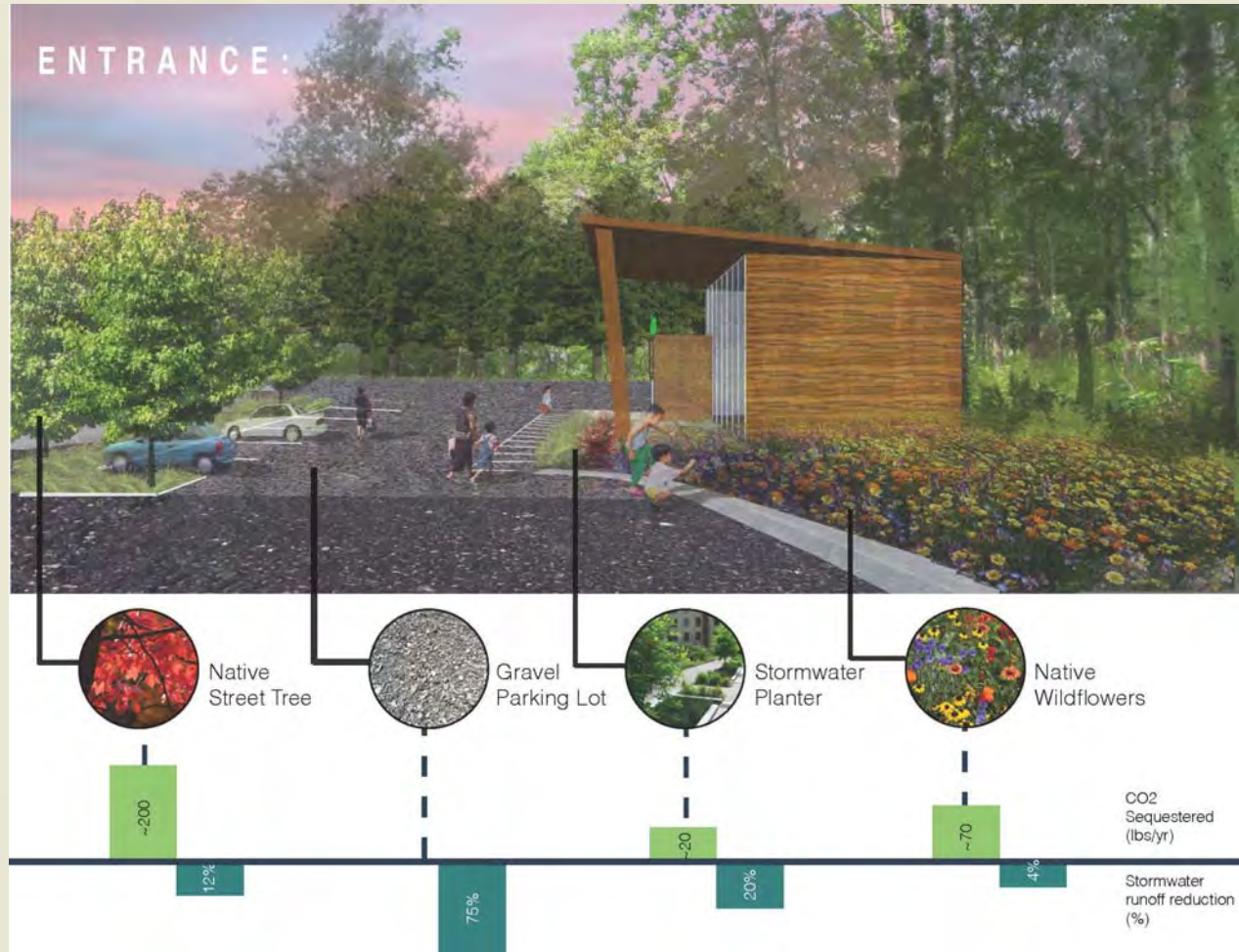


Project Name: The Green Room

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:

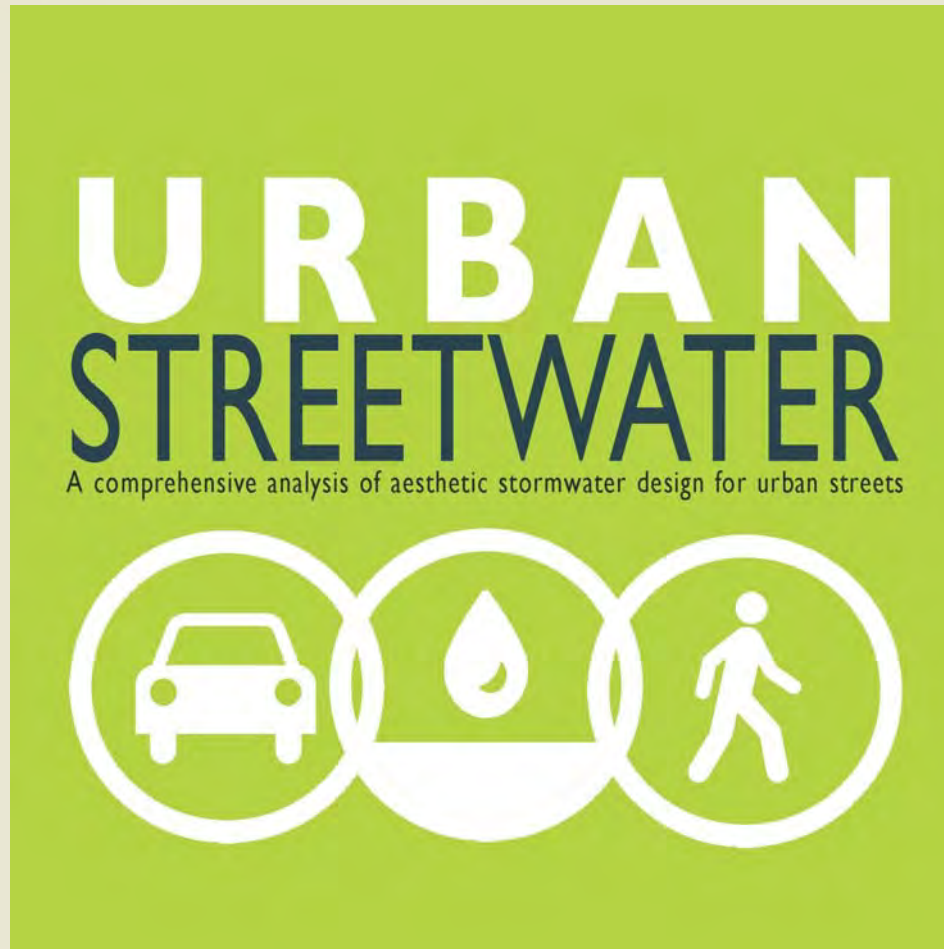


Project Name: The Green Room

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