

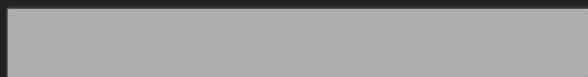


# CECILIA PROBST

SAM BOST | SHELBY HYLAND

LARC 2810 | Professional Practice | Landscape Architecture Program | Prof. Schurch | September 28th 2023

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BACKGROUND AND WORK HISTORY



PROFESSIONAL WORKS



AFFORDABLE HOUSING



LARE



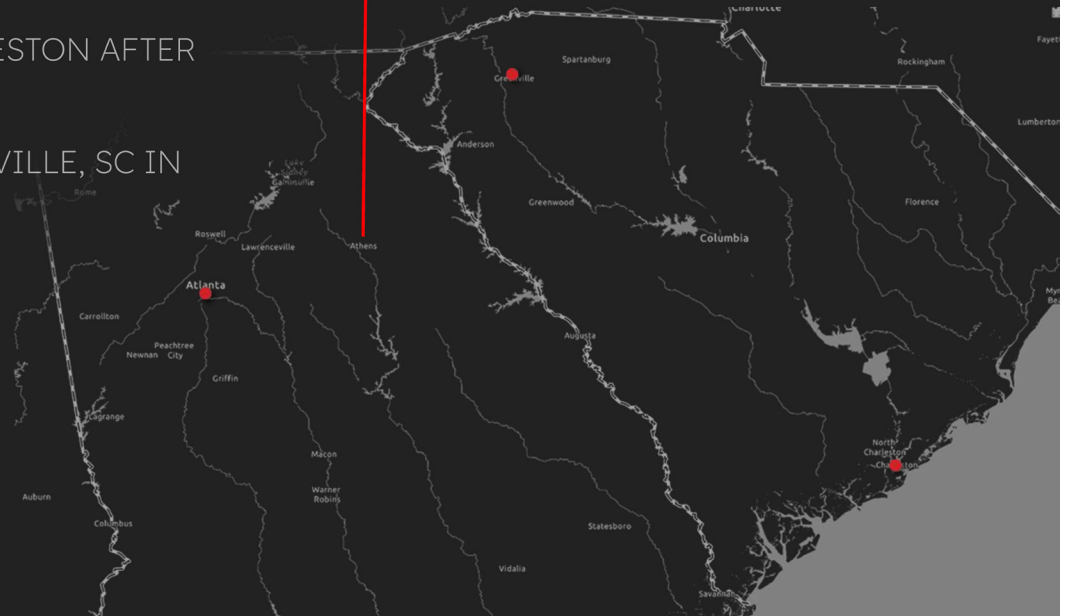
KEY TAKEAWAYS

BLA AT THE  
UNIVERSITY OF  
GEORGIA



## BACKGROUND

- FROM ATLANTA, GA
- MOVED TO CHARLESTON AFTER GRADUATION
- MOVED TO GREENVILLE, SC IN 2022

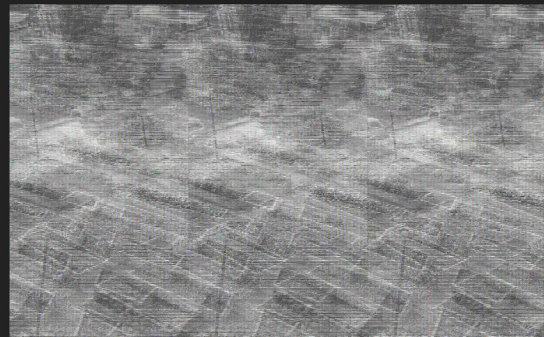


## SEAMON WHITESIDE

- MULTI-DISCIPLINARY FIRM (CIVIL ENGINEERING, LANDSCAPE ARCHITECTURE, MASTER PLANNING, URBAN DESIGN, CONSTRUCTION ADMIN, LAND SURVEYING...)
- A FIRM THAT BLENDS TOGETHER THE STRATEGIES OF CIVIL ENGINEERS AND LANDSCAPE ARCHITECTS TO CREATE HOLISTIC AND SUSTAINABLE DESIGN APPROACHES.
- OFFICES IN MT. PLEASANT, GREENVILLE, SUMMERVILLE, SPARTANBURG, & CHARLOTTE

## WORK EXPERIENCE





## SGA | NW (a GF DESIGN COMPANY)

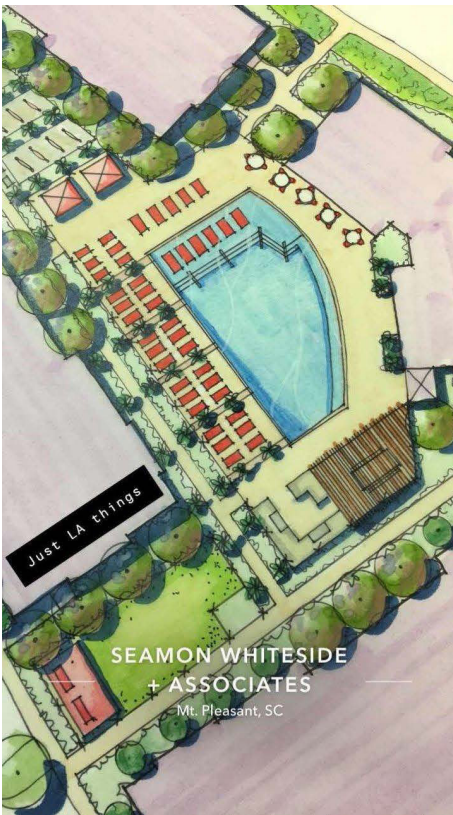
- MULTI-DISCIPLINARY FIRM (LANDSCAPE ARCHITECTURE, ARCHITECTURE, INTERIOR DESIGN, MASTER PLANNING, URBAN DESIGN...)
- UNIQUE FIRM THAT FOCUSES ON CREATING VIBRANT COMMUNITIES BY PROMOTING SUSTAINABILITY AND ENHANCING THE QUALITY OF LIFE.
- OFFICES IN CHARLESTON, PAWLEYS ISLAND, MYRTLE BEACH, GREENVILLE & CHARLOTTE

---

## WORK EXPERIENCE







## GRAPHIC SKILLS

MIXED-USE

SINGLE +  
MULTI-FAMILY

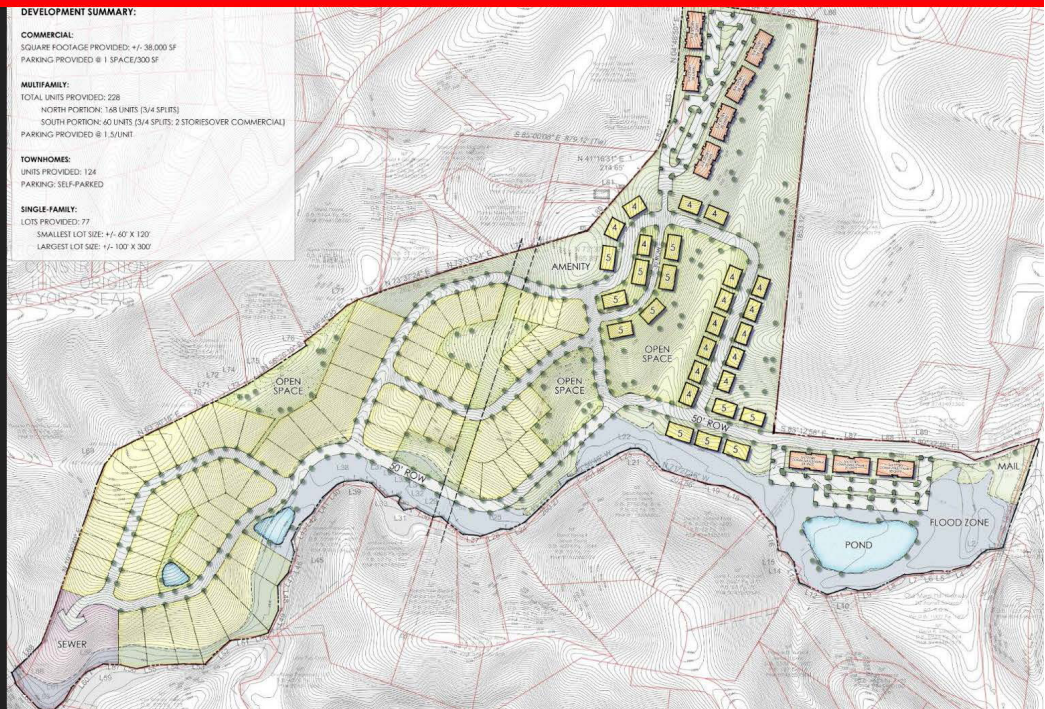
AMENITY DESIGN

## PROFESSIONAL WORKS



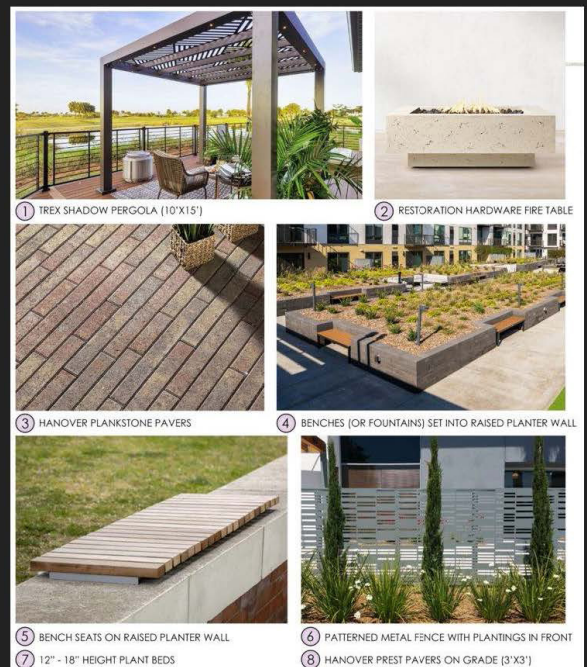
## SINGLE + MULTI- FAMILY

- MIXED-USE
- ZONING CODES
- STANDARDS
- SITES SIZES
- WORKING WITH  
OTHER  
DISCIPLINES



## AMENITY DESIGN

- SITE DETAILS
- MULTI-FAMILY
- MIXED-USE
- FUN





## MIXED-USE

GORDON ST MILL | GREENVILLE, SC

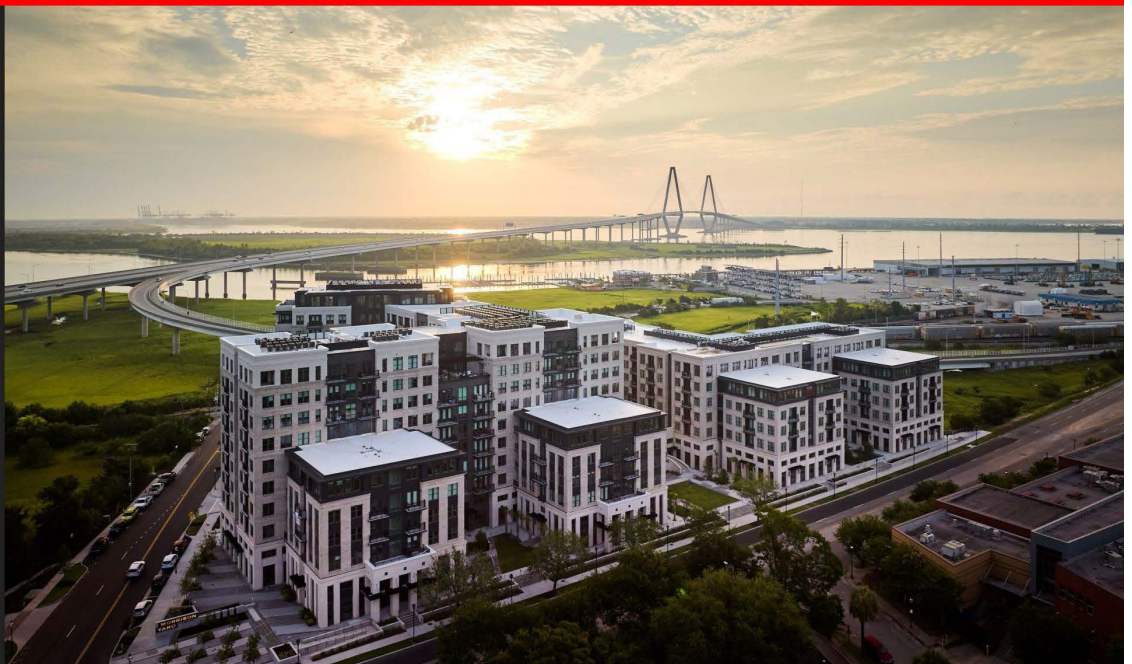
- SAFE HARBOR 5 ACRE FACILITY
- GREENVILLE COUNTY EXPERIENCES HIGHEST NUMBER OF DOMESTIC VIOLENCE REPORTS IN SC
- 116 AFFORDABLE HOUSING UNITS
- COUNSELING + ADMINISTRATIVE OFFICES
- COMMERCIAL



## MIXED-USE

MORRISON YARD | CHARLESTON, SC

- 5+ ACRES OF RESIDENTIAL
- COMMERCIAL SHOPS
- OFFICE SPACES
- 5 POCKET COURT YARDS
- AFFORDABLE HOUSING INCENTIVES



# AFFORDABLE HOUSING INCENTIVES - key take-away

CHARLESTON

ZONING  
REQUIREMENT  
WAIVER

LOCAL TAX  
ABATEMENTS

PERMIT FEE  
WAIVERS

EXPEDITED  
PERMITTING

WAIVER OF  
IMPACT FEES

INCENTIVIZED  
DENSITY

GREENVILLE

SPECIAL TAX  
ASSESSMENTS

FINANCIAL  
ASSISTANCE

SUBSIDIZED  
PRE-DEVELOPMENT  
COSTS

REHABILITATION  
OF HISTORIC  
PROPERTIES

ABANDONED  
BUILDING  
REVITALIZATION

INCENTIVIZED  
DENSITY

## CITY OF GREENVILLE

### REQUIREMENTS TO QUALIFY FOR TAX INCENTIVE

- **MINIMUM PROJECT INVESTMENT**
  - \$7,500,000
- **MINIMUM AFFORDABLE HOUSING UNITS**
  - 20%
  - INVEST IN PROPERTY IMPROVEMENTS
  - CONSISTENT WITH COMPREHENSIVE PLAN
  - DISTRIBUTED THROUGHOUT
  - VARIETY OF SIZES
  - MIXTURE OF HOUSING TYPES

| AFFORDABLE<br>HOUSING UNITS<br>AS PERCENTAGE<br>OF TOTAL UNITS | TAX ABATEMENT |
|----------------------------------------------------------------|---------------|
| 20%                                                            | 50%           |
| 30%                                                            | 53%           |
| 40%                                                            | 55%           |
| 50%                                                            | 58%           |
| 60%                                                            | 60%           |
| 70%                                                            | 63%           |
| 80%                                                            | 65%           |
| 90%                                                            | 68%           |
| 100%                                                           | 70%           |



CITY OF GREENVILLE + GREEN HOUSING FUND



- GHF received \$13.4 million for 549 new units
- GHF is a tax-exempt 501(c)3 nonprofit organization for housing affordability
- \$17 million and 1,158 homes since 2017
- 1,000 expected to have improved housing
- Plan to deliver 3,736 homes in 10 years

# LARE - LANDSCAPE ARCHITECTURE REGISTRATION EXAM

## BENEFITS

- Title / Letters
  - PLA - professional landscape architect
- Financial benefits
- Confidence!

## RESOURCES

- Practice tests
- UGA LARE prep course
- Time saver standards
- Your firm!



# LARE PREP RESOURCES - key take-away

L.A.R.E. Prep Workshops

addressing the new L.A.R.E. blueprint

LARE Prep webinars

Section 1: Project and Construction Management

Section 2: Inventory and Analysis

Section 3: Design

Section 4: Grading, Drainage, and Construction Documents



## NEW FORMAT

[https://www.clarb.org/docs/default-source/take-the-exam/lare-blueprint-december-2023-.pdf?sfvrsn=bc046c25\\_0](https://www.clarb.org/docs/default-source/take-the-exam/lare-blueprint-december-2023-.pdf?sfvrsn=bc046c25_0)

1

Inventory, Analysis,  
and Project  
Management

90 scored items

10 pretest items  
consisting of  
advanced-item types,  
multiple-choice, and  
multiple-response  
questions

3 hours seat time

2

Planning and Design

85 scored items

10 pretest items  
consisting of  
advanced-item types,  
multiple-choice, and  
multiple-response  
questions

3 hours seat time

3

Construction  
Documentation and  
Administration

90 scored items

10 pretest items  
consisting of  
advanced-item types,  
multiple-choice, and  
multiple-response  
questions

3 hours seat time

4

Grading, Drainage,  
and Stormwater  
Management

70 scored items

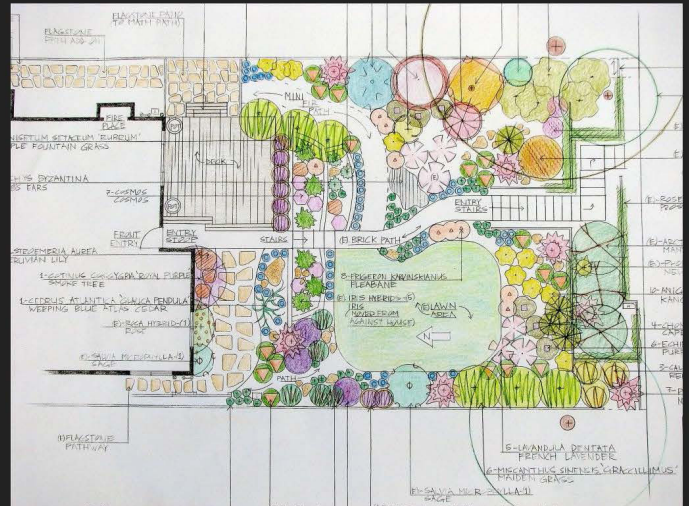
10 pretest items  
consisting of  
advanced-item types,  
multiple-choice, and  
multiple-response  
questions

3 hours seat time



## KEY TAKEAWAYS - summary

- RENDER ON THE BACK OF TRACE
- 'Work backwards and forwards'
- Always ask questions, especially if you don't know
- Precedent images are excellent tools for communication
- Get out of your comfort zone
- Take the exam and take it early!
- Networking is important
- A lot of time in budget proposal so you aren't stressed
- Seek employers who share your values



## SOURCES

<https://www.charleston-sc.gov/DocumentCenter/View/1406/Affordable-Housing-Parks-Open-Space?bidId=>

<https://gvltoday.6amcity.com/development/greenville-housing-fund-receives-13-4-million-to-deliver-new-affordable-housing-units>

<https://www.greenvillesc.gov/1640/Developer-Incentives>

<https://library.municode.com/sc/charleston/codes/zoning?nodeId=ART2LAUSRE>

[https://www.clarb.org/docs/default-source/take-the-exam/larc-blueprint-december-2023-.pdf?sfvrsn=bc046c25\\_0](https://www.clarb.org/docs/default-source/take-the-exam/larc-blueprint-december-2023-.pdf?sfvrsn=bc046c25_0)

[https://www.asla.org/uploadedFiles/CMS/Government\\_Affairs/Public\\_Policies/Licensure%20Universal%20Designation.pdf](https://www.asla.org/uploadedFiles/CMS/Government_Affairs/Public_Policies/Licensure%20Universal%20Designation.pdf)

<https://seamonwhiteside.com/carilion/>

<https://sganwdesign.com/work/sk8-charleston/>

# Kona Gray

EDSA Principal + Future ASLA National President

Sam Carpenter + Isaac Earnhardt



## About Kona...

- PLA + FASLA
- Principle at EDSA
- Education: BLA at the University of Georgia
- 29 years of experience in 30+ countries
- Strong leadership and sense of purpose
- “Regardless of project size, scale or scope, we must always challenge the status quo. It is our responsibility to have the knowledge necessary to offer solutions that positively impact the environment and continue to advance our industry.”





# EDSA Design Studio

## Legacy

- Edward D. Stone Sr.
  - Architect
  - Museum of Modern Art
  - Performing Arts Center
- Edward D. Stone Jr.
  - Fighter pilot in Korean War
  - Gained appreciation for landscape from the air



About EDSA:

- 62 years of experience
- 300+ design awards
- 150+ employees
- Locations in:
  - Fort Lauderdale, Orlando, Baltimore, New York and Shanghai

Expertise:

- Arts + Entertainment
- Campus + Healthcare
- Hospitality Destinations
- Lifestyle Centers
- Public Realm
- Residential Living



## Clients + Prospects



# Three Categories



- Private Sector: land owners, developers, investment firms, and property operators
- Public Sector: federal, state, local, development authorities and non-profit organizations
- Consultants: architects, engineers, economists, real estate consultants

## Projects



# Metropica - Sunrise, Florida

- \$1 billion mixed use development
- A “virtual city within a city”
- Park-like environment with landscaped pathways, plazas, green spaces, outdoor play areas, and water features







## Crosswaters Ecolodge – China

- 53 room eco-lodge is first ecotourism destination in China
- Buildings, gardens, and landscape areas respect traditions, values, and practice of local Keija people









# Casacuba – Florida International University

- Celebration of Cuban heritage
- Reminiscent of traditional Cuban homes - covered porches swinging outward
- Nature forms, airy shade structures mitigate heat and filter sunlight
- Paintings + and hardscapes reflect Cuban culture







## Disney Skyline

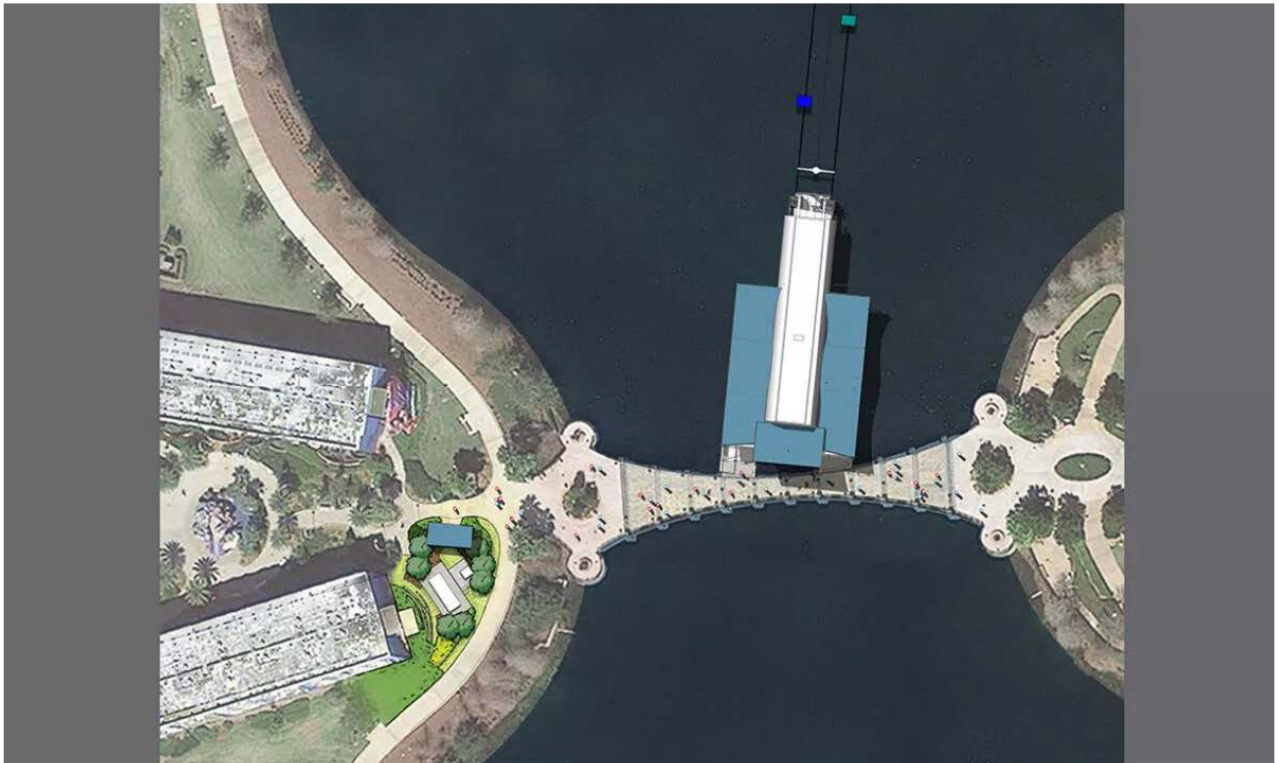
- Scale: 30 miles
- Lighting, plantings, overhead coverings that reflect the persona and styling that inherit Disney's story of place
- Each station is uniquely designed
- Panoramic views



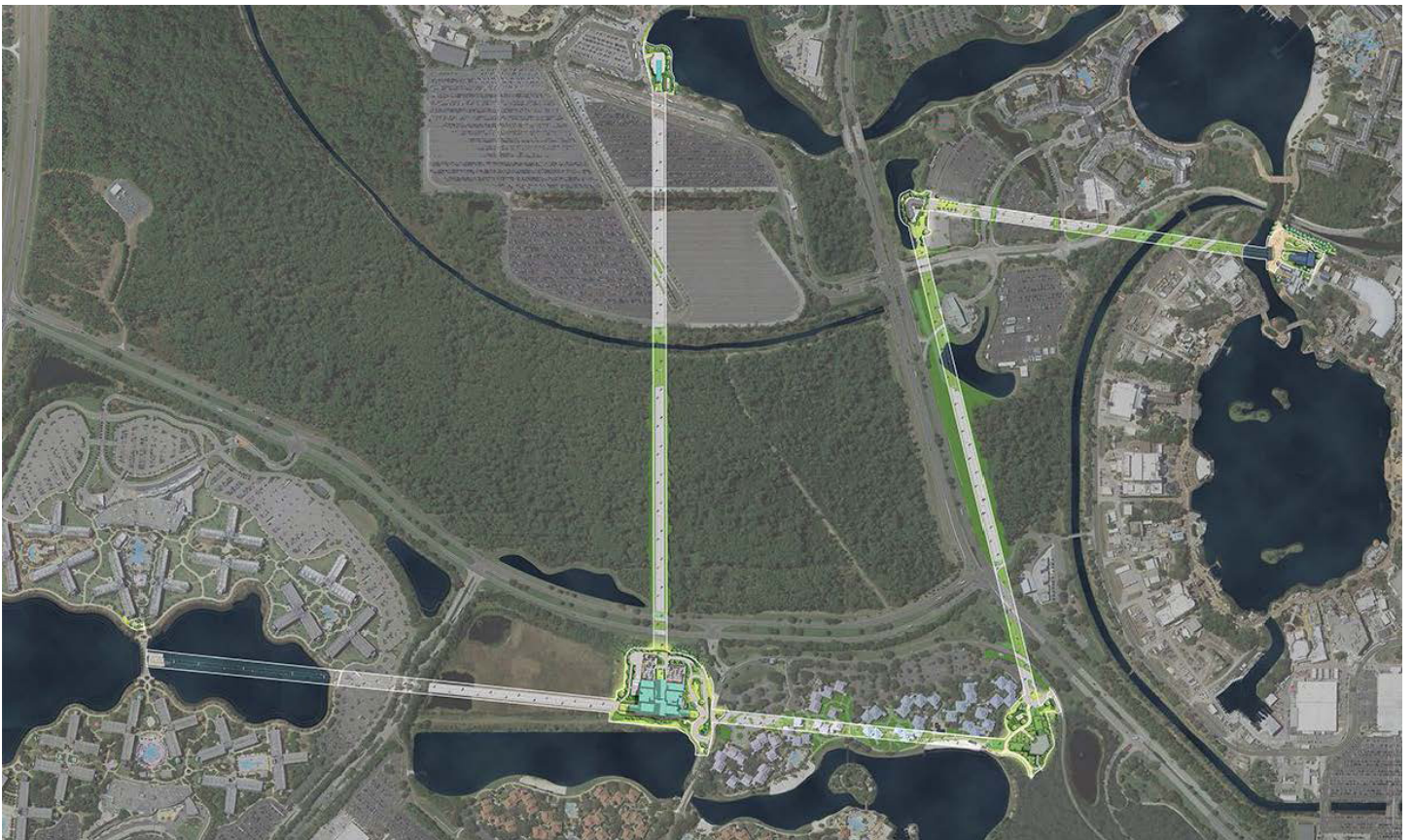














# Mysterious Rainforest Kingdom – Sanya, China

- Focused on major rainforest in the world
- Retail villages
- Water park
- Rides and trails allow guests to explore various environments
- Not a zoo







## Design Communication “Selling Ideas”



# Design Communication

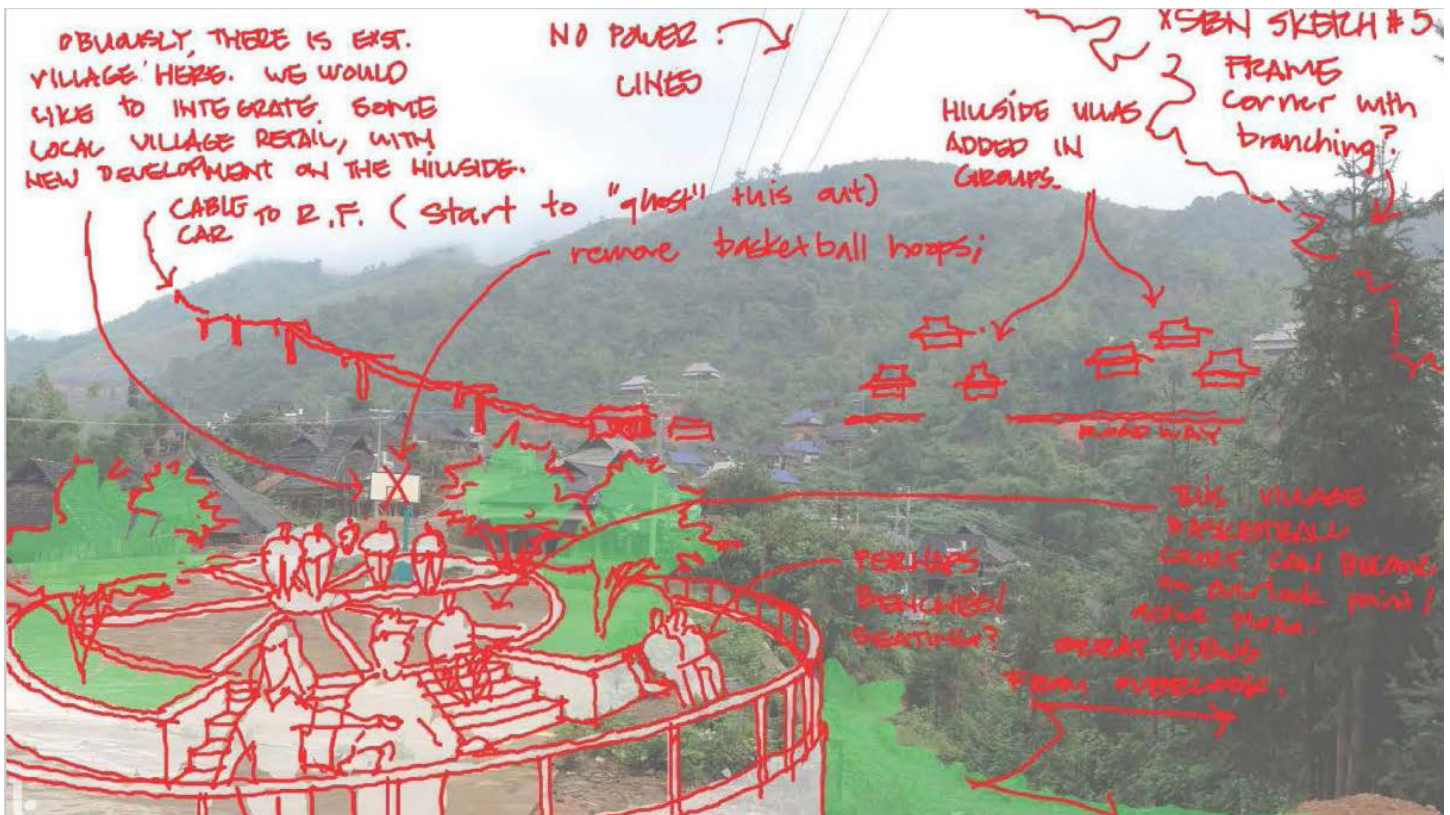
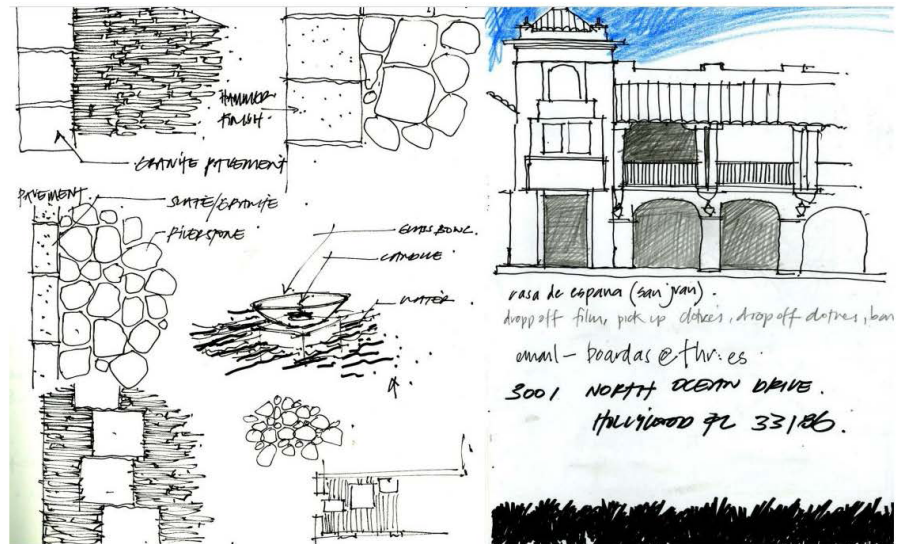
## Step 1: Sketching

Design Thinking

Getting/Communicating the sketch across fast

Nothing can replace a quick sketch

Captures initial thoughts



# Design Communication

## Step 2: Envision

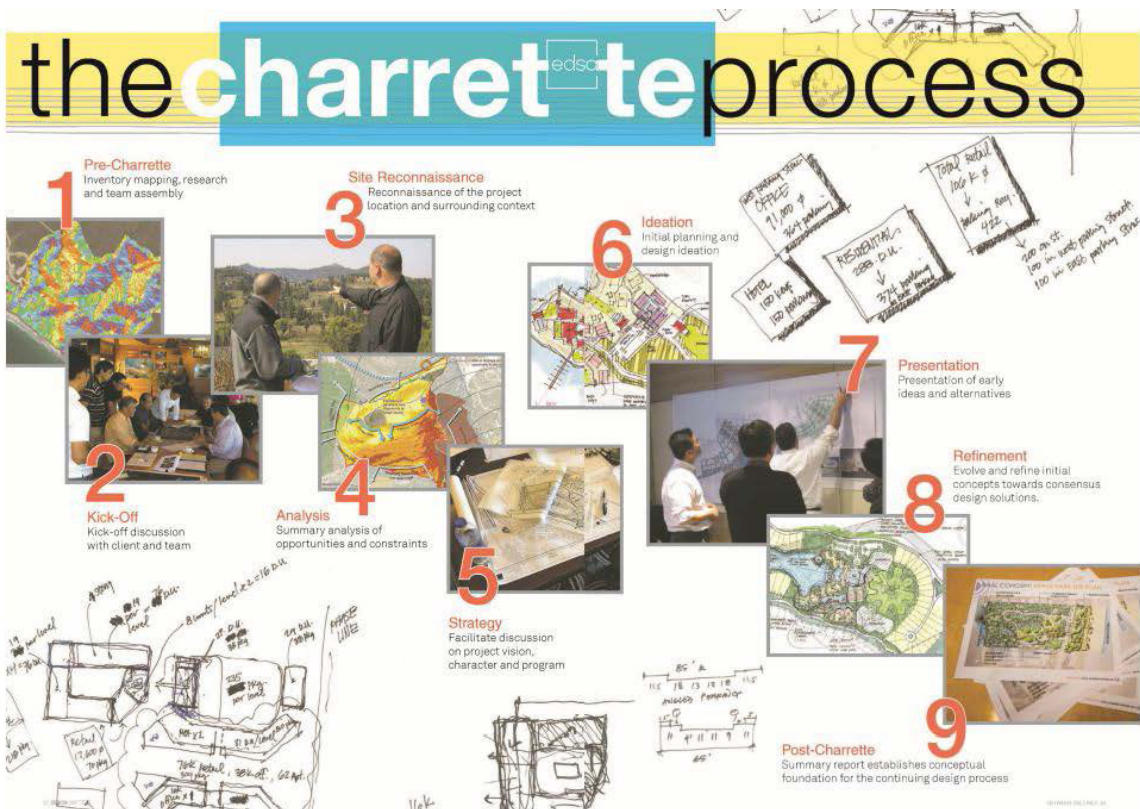
Site visits

Visualize concepts

The Charrette Process

Design process

Working with team members







## Design Communication

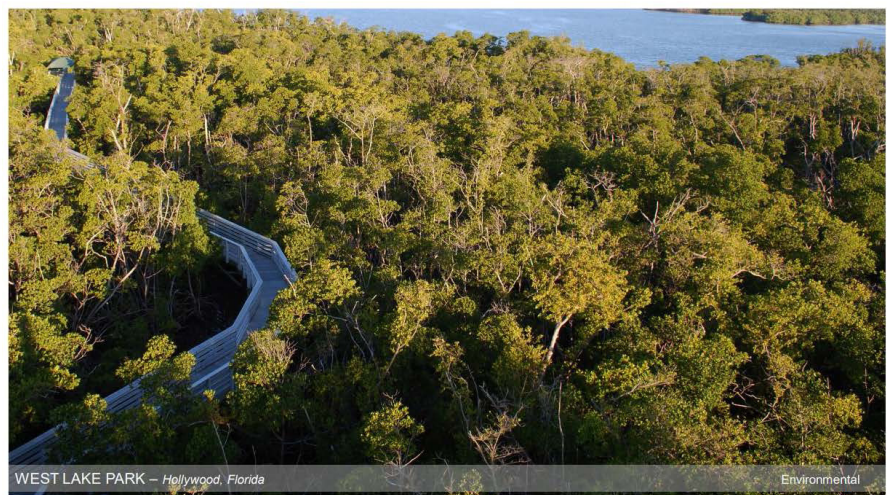
### Step 3: Implement

Thinking into the future

How design works with the landscape

Longevity of design

Human experiences



# The Five Phases of Project

## Process Development

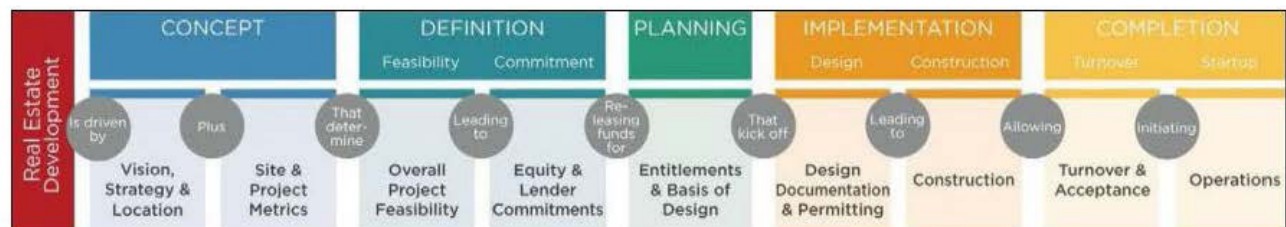
Step 1: Concept

Step 3: Planning

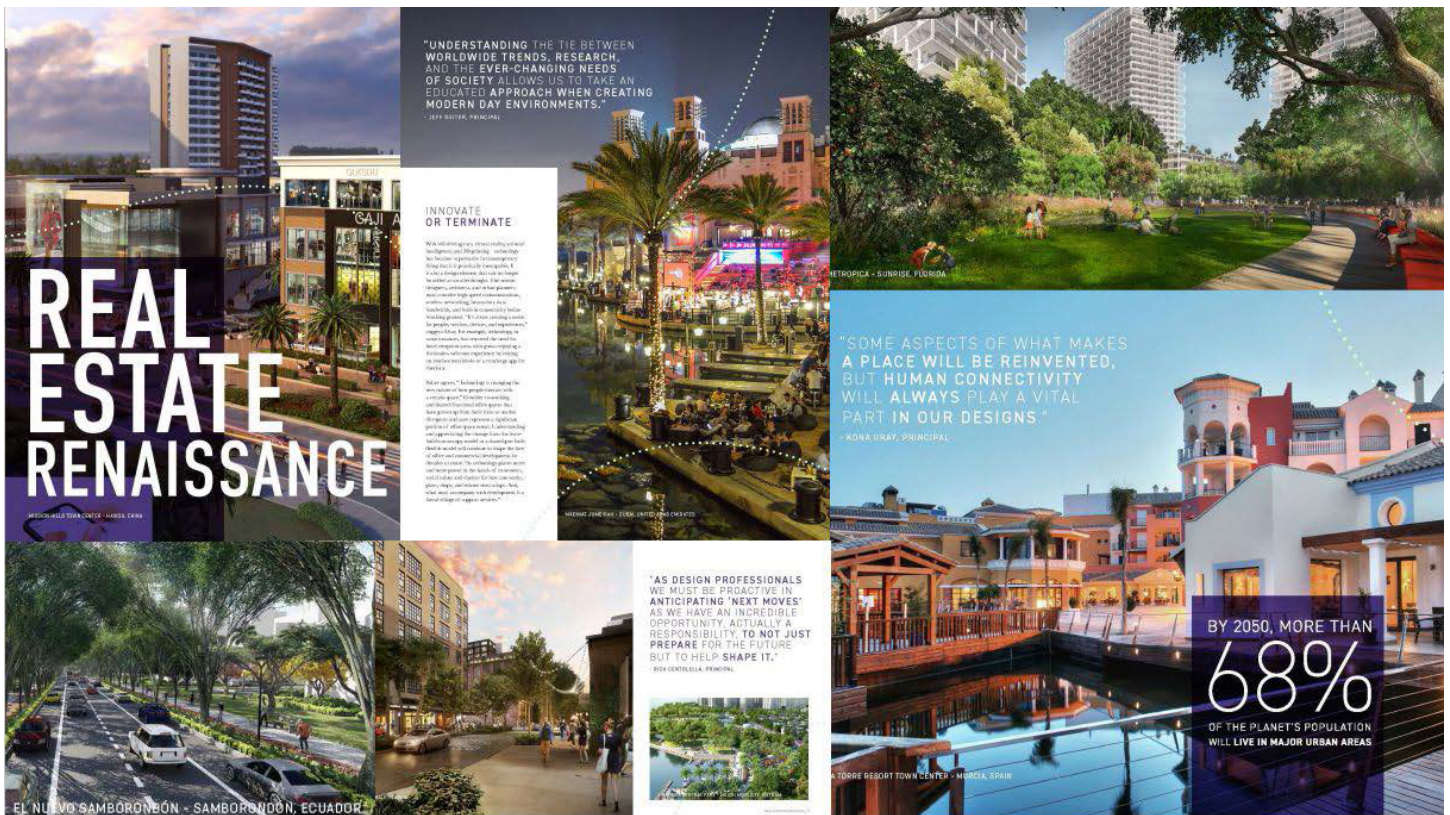
Step 5: Completion

Step 2: Definition

Step 4: Implementation







# Future of Landscape Architecture

# Landscape Architecture + Key Takeaway

We “students” are the future of Landscape Architecture

What is Landscape Architecture?

- Designer of exterior spaces

Quotes from Kona Gray:

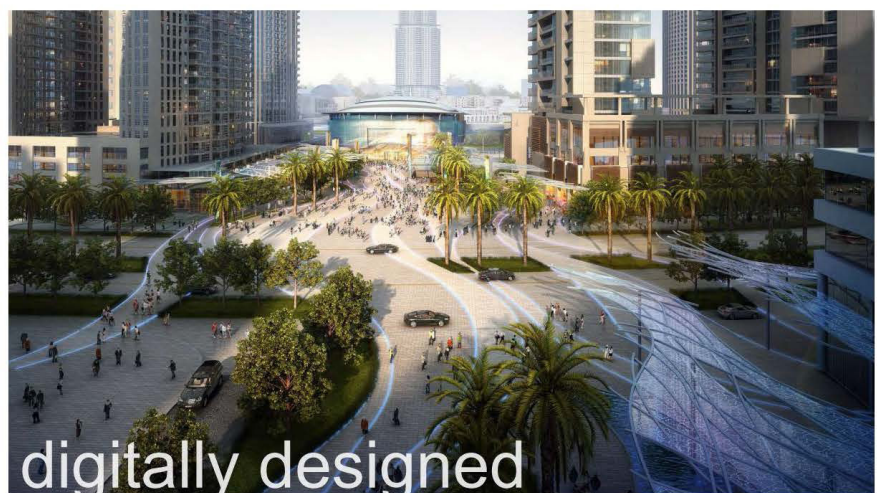
- “Designers have to check their egos”
- “Great designers are great collaborators”



## The Future is NOW + Key Takeaway

The design process is changing:

- New tech allows for process to push the boundaries of thinking
- Sketching is still essential
- Important to explore ideas with new programs
- Use programs to refine design elements
- Adobe Firefly, Alpaca, Mental Canvas, MidJourney, Miro, SketchBook Pro







## People + Place + Purpose = Future

### People

- Informs design

### Place

- Inspires design

### Purpose

- Reason for design

### Future

- Experiences



Be Curious

Be Courageous

Be Compassionate



# SITES

## Sustainable Sites Initiative

Kinzer Hurt and Morgan Sisk

### Meg Calkins

Department Head and Professor at North Carolina State University

FASLA - Fellow of the American Society of Landscape Architects

FCELA - Fellow of the Council of Educators in Landscape Architecture

Before joining NC State, she taught at the University of California at Berkeley, the University of Illinois at Urbana-Champaign, and at Ball State University.

She has Master's degrees in both Architecture and Landscape Architecture from UC Berkeley, and a Bachelor's Degree in Urban Planning from the University of Cincinnati.

One of the founding members of the Sustainable Sites Initiative (SITES).

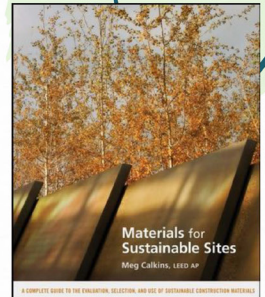
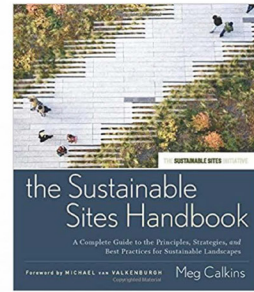


## Author and Editor

**The Sustainable Sites Handbook:** A Complete Guide to the Principles, Strategies, and Best Practices for Sustainable Landscapes

**Materials for Sustainable Sites:** A Complete Guide to the Evaluation, Selection, and Use of Sustainable Construction Materials

**Landscape Architecture Magazine**



# 1

## Sustainable Sites Initiative





# 2

## Prerequisites & Credits

### 1. Site Context

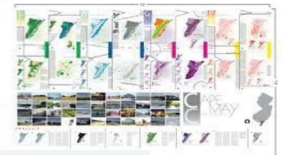
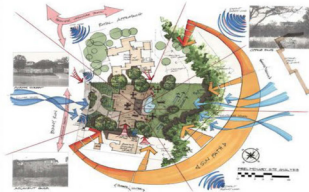
#### Prerequisites:

- Limit development on farmland
- Protect floodplain functions
- Conserve aquatic ecosystems
- Conserve habitats for threatened species

#### Credits:

- Redevelop degraded sites
- Locate projects within existing developed areas
- Connect to multi-modal transit networks

13 possible points





## 2. Pre-Design Assessment and Planning

### Prerequisites:

- Use and integrative design process
- Conduct a pre-design assessment
- Designate and communicate protection zones

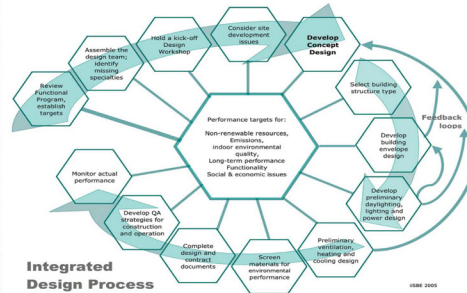
### Credits:

- Engage users and stakeholders

3 possible points

*"The Integrated Design Process is a method for realizing high performance buildings that contribute to sustainable communities. It is a collaborative process that focuses on the design, construction, operation and occupancy of a building over its complete life-cycle."*

-Nils Larsson, 2002



## 3. Water

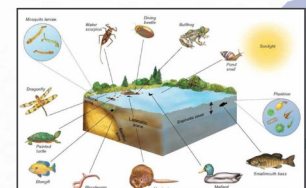
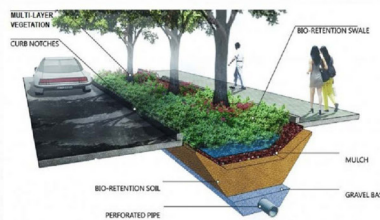
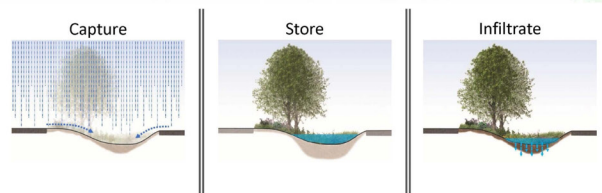
### Prerequisites:

- Manage precipitation on site
- Reduce water use for irrigation

### Credits:

- Manage precipitation beyond baseline
- Reduce outdoor water use
- Design functional stormwater features as amenities
- Restore aquatic ecosystems

23 possible points



## 4. Soil and Vegetation

### Prerequisites:

- Create and communicate a soil management plan
- Control and manage invasive plants
- Use appropriate plants

### Credits:

- Conserve healthy soil and appropriate vegetation
- Conserve special status vegetation
- Conserve and use native plants
- Conserve and restore native plant communities
- Optimize biomass
- Reduce urban heat island effects
- Use vegetation to minimize energy use
- Reduce the risk of catastrophic wildfire

40 possible points



## 5. Materials

### Prerequisites:

- Eliminate the use of wood from threatened tree species

### Credits:

- Maintain on-site structures and paving
- Design for adaptability and disassembly
- Use salvaged materials and plants
- Use recycled content materials
- Use regional materials
- Support responsible extraction of raw materials
- Support transparency and safer chemistry
- Support sustainability in materials manufacturing
- Support sustainability in plant production

41 possible points





## 6. Human Health and Well-Being

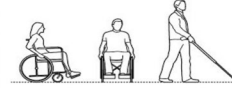
### Prerequisites:

- none

### Credits:

- Protect and maintain cultural and historic places
- Provide optimum accessibility, safety, and wayfinding
- Promote equitable site use
- Support mental restoration
- Support physical activity
- Support social connection
- Provide on-site food production
- Reduce light pollution
- Encourage fuel-efficient and multi-modal transportation
- Minimize exposure to environmental tobacco smoke
- Support the local economy

30 possible points



## 7. Construction

### Prerequisites:

- Communicate and verify sustainable construction practices
- Control and retain construction pollutants
- Restore soils disturbed during construction

### Credits:

- Restore soils disturbed by previous development
- Divert construction and demolition materials from disposal
- Divert reusable vegetation, soil, and rocks from disposal
- Protect air quality during construction

17 possible points



## 8. Operations and Maintenance

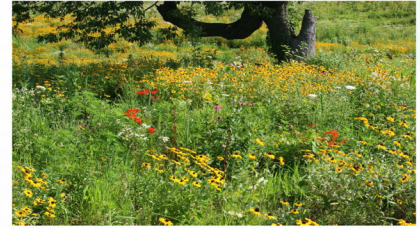
### Prerequisites:

- Plan for sustainable site maintenance
- Provide for storage and collection of recyclables

### Credits:

- Recycle organic matter
- Minimize pesticide and fertilizer use
- Reduce outdoor energy consumption
- Use renewable energy sources
- Protect air quality during maintenance

22 possible points



## 9. Education and Performance Monitoring

### Prerequisites:

- none

### Credits:

- Promote sustainability awareness and education
- Develop and communicate a case study
- Plan to monitor and report site performance

11 possible points





## 10. Innovation

### Prerequisites:

- none

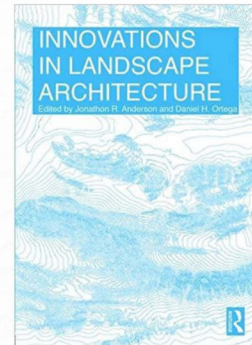
### Credits:

- Innovation or exemplary performance

9 possible points

### Total possible points: 200

- 135 - platinum status
- 100 - gold status
- 85 - silver status
- 70 - base certification



# 3

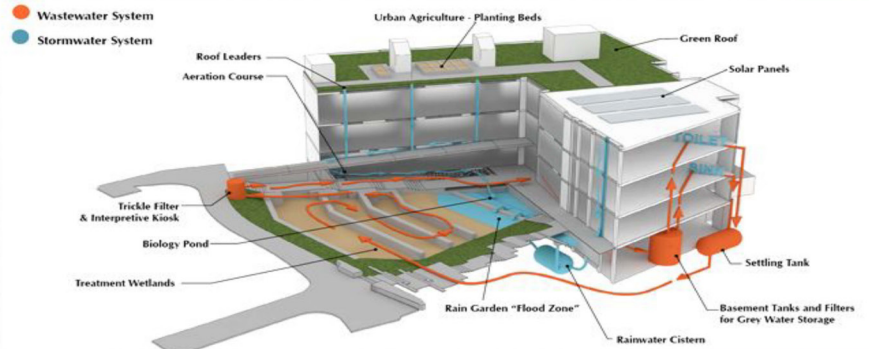
## Projects

## Sidwell Friends Middle School

Located in Washington D.C., this experimental project was designed to recycle black and grey water from the school's toilets, sinks, and roof runoff.

Treated water is reused to flush toilets and in sinks.

Must get tested often to make sure it's running efficiently

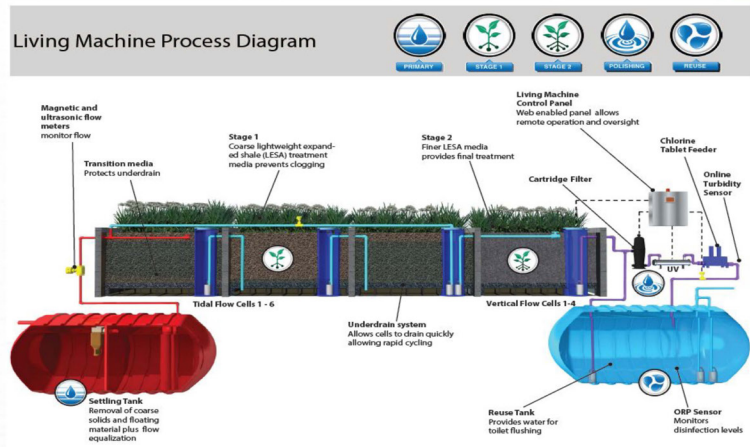


## Living Machine

These systems mimic wetland ecology to treat and reuse wastewater.

Tidal-flow cells filled with plants and aggregate and plants are filled and drained with water up to 18 times a day.

Made up of many components such as the primary tank, two stages of tidal-flow cells, polishing system, and reuse tank.





## Shoemaker Square

Located at the University of Pennsylvania, this project innovatively accumulates and distributes stormwater.

Designed to capture stormwater through rain gardens and series of underground tanks.

Transpiration levels of all vegetation are monitored frequently. Some trees transpired up to 34 gallons in June of 2014.



# 4

## The Living Building Challenge

# Living Building Challenge

The guidelines are ever changing and frequently updated.

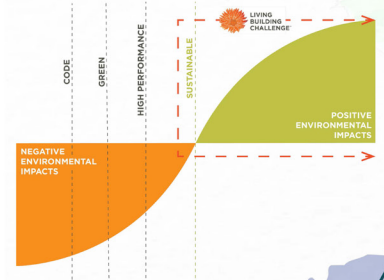
Certification is based off actual performance rather than hypothetical, therefore projects must be operational for twelve months.

All Living Buildings must meet the guidelines of each of the seven petals.

Certification is made to move toward creating regenerative spaces rather than making them "less bad."



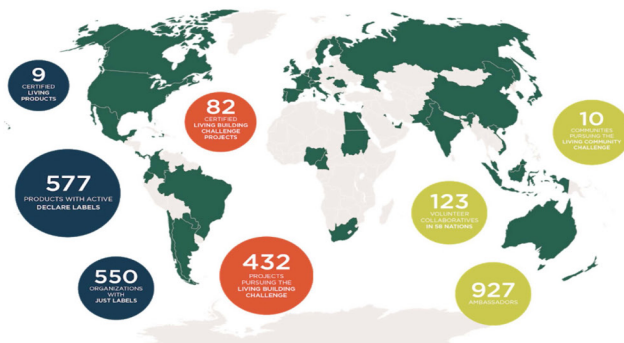
LIVING BUILDING CHALLENGE™



# Living Building Challenge

Guidelines are flexible and can be applied to different scales.

Four typologies: new building, existing building, interior, landscape & infrastructure.



20 Imperatives grouped into seven petals. Some Imperatives are not required for all Typologies.

| PETAL              | IMPERATIVE                      | TYPOLOGY     |                   |          |                            |
|--------------------|---------------------------------|--------------|-------------------|----------|----------------------------|
|                    |                                 | New Building | Existing Building | Interior | Landscape + Infrastructure |
| PLACE              | 1 Ecology of Place              |              |                   |          |                            |
|                    | 2 Urban Agriculture             |              |                   |          |                            |
|                    | 3 Habitat Exchange              |              |                   |          |                            |
|                    | 4 Human Scaled Living           |              |                   |          |                            |
| WATER              | 5 Responsible Water Use         |              |                   |          |                            |
|                    | 6 Net Positive Water            |              |                   |          |                            |
| ENERGY             | 7 Energy + Carbon Reduction     |              |                   |          |                            |
|                    | 8 Net Positive Energy           |              |                   |          |                            |
| HEALTH + HAPPINESS | 9 Healthy Interior Environment  |              |                   |          |                            |
|                    | 10 Healthy Interior Performance |              |                   |          |                            |
|                    | 11 Access to Nature             |              |                   |          |                            |
| MATERIALS          | 12 Responsible Materials        |              |                   |          |                            |
|                    | 13 Red List                     |              |                   |          |                            |
|                    | 14 Responsible Sourcing         |              |                   |          |                            |
|                    | 15 Living Economy Sourcing      |              |                   |          |                            |
| EQUITY             | 16 Net Positive Waste           |              |                   |          |                            |
|                    | 17 Universal Access             |              |                   |          |                            |
| BEAUTY             | 18 Inclusion                    |              |                   |          |                            |
|                    | 19 Beauty + Biophilia           |              |                   |          |                            |
|                    | 20 Education + Inspiration      |              |                   |          |                            |



## Case Study

The Silver Oak Winery in Healdsburg, California is a certified Living Building.

Placed on prime farmland, the winery preserves the history and ecology of the original site. They provided a habitat exchange to set aside land for conservation.

The project is both net positive in water and energy. It uses local water sourced from an on-site pond and treats storm and wastewater.



# 5

## SITES AP Exam

# The SITES AP Exam

**The SITES Accredited Professional Exam**, based on GBCI practices, establishes a common framework to define the profession of sustainable landscape design and development. It provides landscape professionals with the opportunity to demonstrate their knowledge, expertise and commitment to the profession.

The exam is intended to test a candidate's competency to perform the job functions of a SITES AP. It includes 100 total recall, application, and analysis multiple-choice questions.

Candidates must be at least 18 years of age and are recommended to have SITES project experience.

The U.S. Green Building Council offers a four-week study program.

1. A city is redeveloping a parking lot into a pocket park to meet the needs of neighboring residents. The site will include shade trees, a community food garden, and a nature-based playground. The project team plans to pursue C4.7, Optimize Biomass. According to the credit, what will the team use as a baseline condition from which to measure site improvements?

- A. Pre-Columbian condition
- B. Existing site conditions as a parking lot
- C. Same sized park nearby
- D. Closest greenfield or undeveloped site

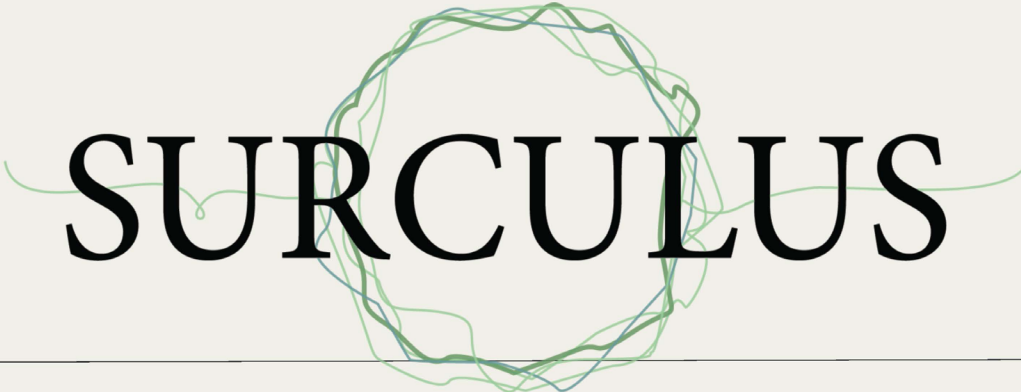
2. According to P7.3, Restore Soils Disturbed During Construction, which of the following applications is required to comply with soil restoration criteria that is guided by a site's reference soil?

- A. Lawn and open space
- B. Trails and bike paths
- C. Preserved natural forest
- D. Mulch-covered playground

## Questions



# SURCULUS

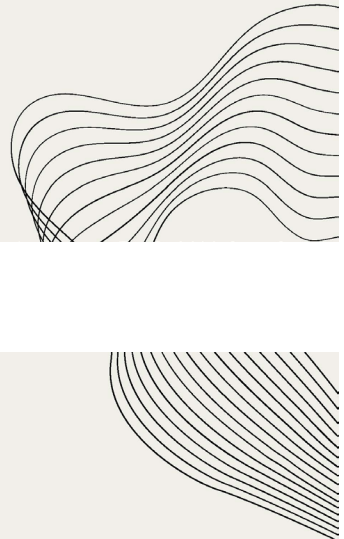
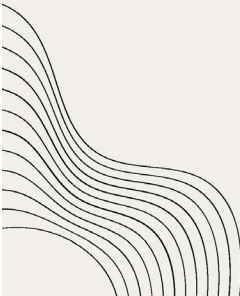


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A DELICATE BALANCE OF ART & SCIENCE

Presented by; Dralyn Clinkscasles  
11/30/23

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SURCULUS



# Erin's Background



**ERIN F. STEVENS**

**PRESIDENT OF SURCULUS**



## **Academic & Geographic Roots**

- Native of Charleston South Carolina
- Harvard University - B.A. in English & American Literature
- Columbia University - Urban Studies.
- University of Georgia - Master's in Landscape Architecture.

## **Professional Career**

- Diverse experience, including federal transit study & neighborhood redevelopment.
- Founded Surculus in 2016, emphasizing resilience & ecological integration.
- Adjunct Professor at Clemson University.
- City of Charleston Design Review Board member.







## INSPIRATIONS & APPROACHES

### SCAPE LANDSCAPE ARCHITECTURE FIRM

Erin's experience at Scape Landscape Architecture Firm served as a main point in her professional career. Scape exposed Erin to modernized & ecological design methodologies & innovative approaches to urban spaces.

### FIELD OPERATIONS

Erin's time at Field Operations furthered her understanding of large-scale urban design projects. Field Operations provided Erin with hands-on experience in the process of conceptualizing & commencing urban landscapes.



SURCULUS

## INSPIRATIONS & APPROACH

### • Inspirations & Approach

- Ecological Design Focus
  - Erin's commitment to ecological design derived from a deep appreciation for understanding site context.

During grad school, she was mentored on the importance of contextual site design, shaping her design philosophy.



### • Building Professional Network

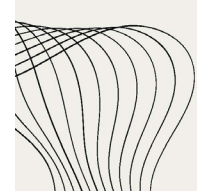
- Erin built her professional network by leveraging relationships & connections.
- She researched desired projects, proactively asked questions, & effectively showcased her capabilities.

SURCULUS

# Introduction to Surculus

Exploring the Transformative World

# SURCULUS



## SURCULUS' MISSION

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Founded in 2016, Surculus is built on an insistence that, when executed superbly, urban design & landscape architecture are capable of addressing humanity's most challenging issues. We emphatically believe that well-designed spaces—no matter the scale—have great potential to engage & express commonality among otherwise unacquainted cultural & socioeconomic cross-sections while providing biodiversity, increasing resilience, activating latent economic possibility, & promoting mental, emotional, & physical well-being. A small firm with a large mission, we understand that the designs we create have the potential to persist & change for many years to come; therefore, careful attention to even the smallest details is essential. Our greatest passion is recognizing the unique ecological, social, & functional potentials in specific sites & working tirelessly to help them come to life. We are focused energetically on urban resilience & effectively integrating ecological & organic systems into human-affected contexts. In doing so, we create spaces that engage people with their communities & with the ecological processes occurring around them.

SURCULUS





## SURCULUS IN DETAIL

**7**

*years of operations*

**200+**

*projects commenced*

**75+**

*open projects*

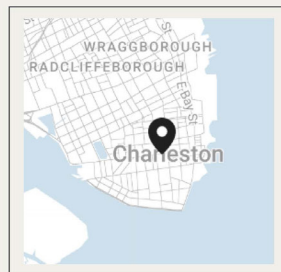
**6**

*employees*



### Origin of Name

*Latin for new plant growth,  
symbolizing collaborative growth in  
the firm.*



### Location

*Currently on Broad St.,  
looking to expand north on the  
peninsula*



## BUSINESS INSIGHTS

### Risk & Confidence

- Erin's Entrepreneurial Journey
  - Erin's transition from a decade of experience to entrepreneurship.
  - Deciding to take a different approach in her career.
- Confidence & Decision-Making
  - Confidence derived from years of industry expertise.
  - Opting to start Surculus over accepting a job offer for personal & business growth.

### First Hire

- Strategic Staffing Decisions
  - The initial hire was a short-term employee due to the lack of hands-on experience
  - Valuable lessons learned from the experience.
- Empowering Student Hire
  - Hiring a student, Erin had previously taught, she navigated her future hiring decisions based on that experience & lesson.



## THE TEAM



*Studio Director /  
ASLA, CLARB*

**Robert K.  
Maerlender**

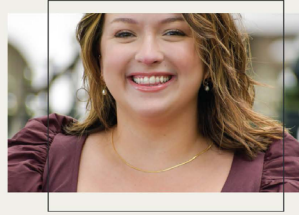
With over 20 years of professional experience, Bob has worked extensively in sensitive coastal environments from Rhode Island to coastal Georgia & internationally in Costa Rica, Israel & the Bahamas.



*landscape Architect /  
PLA*

**Lauren Stubbs**

Lauren's early experiences include working closely with landowners to create extensive nature trails, wildlife viewing areas, & plantings to benefit wildlife.



*Designer*

**Becky Trefethen**

Professionally, Becky has worked in private firms & public planning departments. Her background includes conducting community engagement for Newport, RI's Comprehensive Plan Amendment & Mobility Study, designing master plans for communities in Tennessee & Alabama, & studying current & historic development impacts on the Charleston peninsula.



*Designer*

**Aubrey Miller**

Professionally, Aubrey worked with the California Native Garden Foundation in San Jose & spent the summer helping design public school gardens & native residential sites throughout the Santa Clara Valley.



## LANDSCAPE ARCHITECTURE FROM A BUSINESS PERSPECTIVE

### Erin's Entrepreneurial Journey

- Erin's transition from a decade of experience to entrepreneurship.
- Deciding to take a different approach in her career.

### Exhaustive Nature of Business

- Running a business is exhausting — passion is essential.
- - Encouragement from her civil engineer father.
- - Advantage of having resources & a supportive background.

### Confidence & Decision-Making

- Confidence derived from years of industry expertise.
- Opting to start Surculus over accepting a job offer for personal & business growth.

### Invest in Your Career

- Keep relationships & invest time, even without immediate returns.
- - Never burn bridges — maintain professional connections





# Firm Overview

Exploring the Transformative World of Surculus



## DESIGN PHASES APPROACHES

Using a delicate balance of art & science, our designs embrace complex social, civic, & ecological processes to create dynamic, engaging, & functional landscapes.



Encourage Thriving  
Communities (Re)establish  
Ecosystems



Inspire Time  
Outside



Invigorate  
Underutilized  
Spaces



Build Resilience

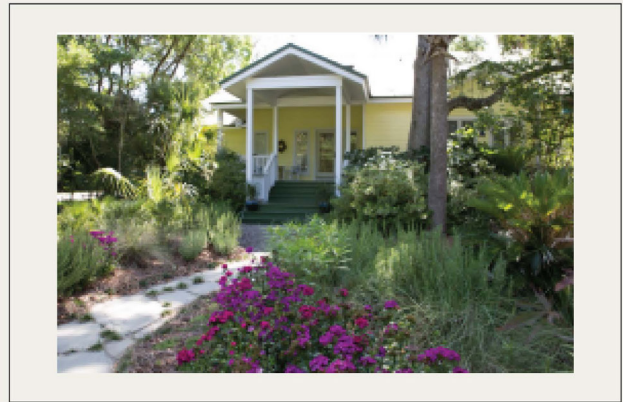


Bringing the built  
environment into a  
better place

**SURCULUS**

## SURCULUS'S FIRST PROJECT SUBURBAN RESIDENCE

- Client's Vision
  - Principles Incorporated
    - Addressing Humanity's Challenges
    - Designing for Community, Biodiversity, & Well-being
    - Attention to Detail & Ecological Sensitivity
- Design Implementation
  - Surgically Removing Traditional Lawn
  - Integration of Beautifully Designed landscape
  - Creation of a Large Grass Area with Purpose

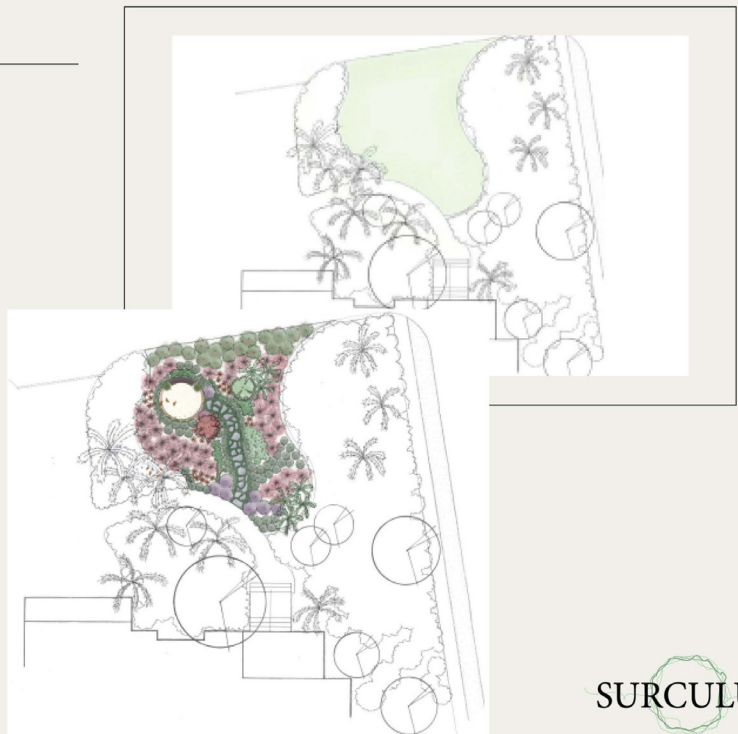


COMPLETED SIX YEARS AGO



## SURCULUS'S FIRST PROJECT SUBURBAN RESIDENCE

- Result & Impact
  - Pollinator-Friendly Garden & Flourishing Ecosystem
  - Less maintenance with the lack of lawn mowing, pesticides & herbicides
  - People Stopping to Take Pictures of the Transformative Garden
- Legacy of the Project
  - A prime example of Surculus's Passion & Expertise
  - Paved the Way for Future Success & Recognition



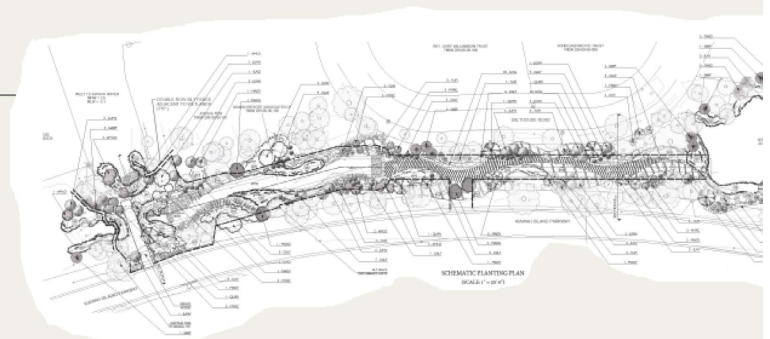
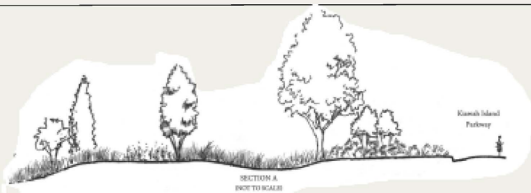


## SURCULUS'S SECOND PROJECT SUBURBAN RESIDENCE

- Larger Scale Project in Kiawah Island, a High-End Resort Community with a Stormwater Focus
- Scope of Project
  - Stormwater Improvement
  - Addressing Water Capacity Issues
  - Connecting Ponds & Implementing Daylighting Strategies
- Challenges & Solution
  - Engineering Impact
  - Initial Design Disturbed the Forest Environment
  - Excavation of Pipeline/Ditch Necessary



## SURCULUS'S SECOND PROJECT SUBURBAN RESIDENCE



- Surculus's Role
  - Native Grading Plan to Reestablish the Forest
  - Balancing Renaturalization with High-End Aesthetics
- Approach Renaturalization While Blending with Surrounding Area
  - Planting Strategy - Evergreens & Native Species for Quick Forest Establishment
- Ecological Benefits
  - Reestablishment of a Grand Forest
  - Native Grading Plan Aids in Rejuvenation
  - Integration of Evergreens for Rapid Forest Growth



## SOUTH CAROLINA GOVERNOR'S MANSION LANDSCAPE ENHANCEMENT



### • Objective

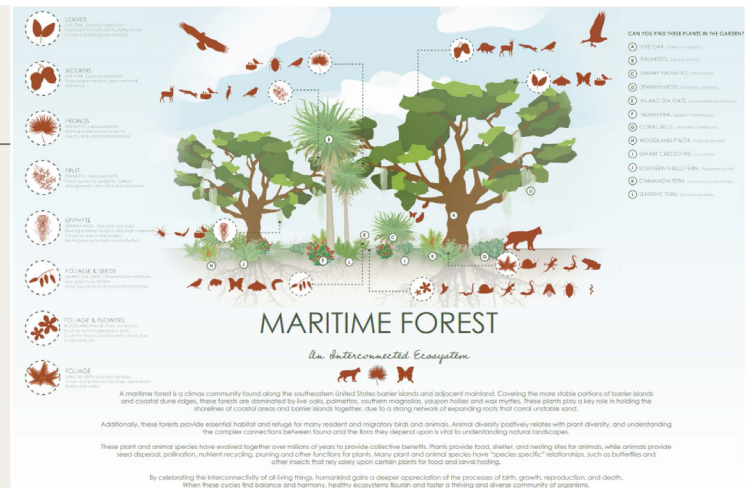
- Integrate native landscapes at the South Carolina Governor's Mansion.
- Collaborate with Autoban to promote biodiversity through targeted plant species.
- one of the things surculus does is help people understand why the landscape & the plants matter ( this focus was birds )

SURCULUS

## SOUTH CAROLINA GOVERNOR'S MANSION LANDSCAPE ENHANCEMENT

### • Surculus Initiatives

- Educational workshops on the importance of native landscapes.
- Bird-watching events to showcase the positive impact on avian biodiversity.



### • Educational Focus

- Empowering the community to understand the significance of landscapes & native plants.
- Special emphasis on the role of landscapes in supporting bird populations.

SURCULUS



# Surculus' Landscape Templates



The maritime live oak forest is the dominant woodland community along the southern barrier islands of the South Carolina coast.



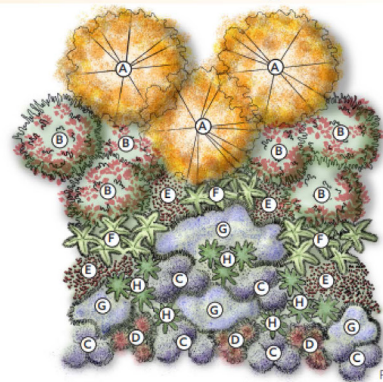
Established tree canopies create opportunities for partial to full shade gardens

This garden celebrates the plant communities found within the partial shade and full shade environments. The **Florida azalea** and **turk's cap** will offer structure and height, creating a backdrop for the massing of the taller and coarse textured **sensitive fern**, the grass like foliage of the **blue eyed grass** and the lovely tubular red flowers of the **Indian pink**. Layering the plants and allowing for the taller plants to be placed in the background ensures that the smaller woodland perennials do not get lost amongst the larger plants. The **ebony spleenwort** brings a loose, upright fern into the mix of lower growing border perennials, including the **woodland phlox** and **coral bells**.

\*If desired, larger plant material such as live oaks, magnolias, sabal palms, American hollies, and dwarf sabal palms could be incorporated in this garden plan.

\*Full shade refers to areas in your garden that receive fewer than four hours of sun each day. Most plants that call for full shade will grow faster and flower better if they receive at least two hours of direct sun. Partial shade and partial sun refer to areas of your garden that receive between four hours and six hours of sun each day. If your plant calls for partial shade, it will do better at the lower end of this sun exposure scale.

- |                                                                                                                                                          |                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. Florida Azalea</b><br><i>Rhododendron austrinum</i> (3)<br>* Attracts hummingbirds and bees.                                                       | <b>E. Indian Pink</b><br><i>Spigelia marilandica</i> (16)<br>Planted in groups of 3 and 5 (18" on center)<br>* Attracts hummingbirds.             |
| <b>B. Turk's Cap</b><br><i>Malvaviscus arboreus var. drummondii</i> (6)<br>* Attracts hummingbirds and butterflies.                                      | <b>F. Sensitive Fern</b><br><i>Asplenium platyneuron</i> (15)<br>Planted in groups of 5 (24" on center)<br>* Provides ground cover.               |
| <b>C. Woodland Phlox</b><br><i>Phlox divaricata</i> (18)<br>Planted in groups of 3 (16" on center)<br>* Attracts hummingbirds, butterflies, and bees.    | <b>G. Blue Eyed Grass</b><br><i>Sisyrinchium angustifolium</i> ( )<br>Planted in groups of 3 and 11 (12" on center)<br>* Attracts birds and bees. |
| <b>D. Coral Bells</b><br><i>Heuchera americana</i> (9)<br>Planted in groups of 3 (15" on center)<br>* Supports specialized bees and pollinating insects. | <b>H. Ebony Spleenwort</b><br><i>Onoclea sensibilis</i> (11)<br>Planted in groups of 3 (12" on center)<br>* Provides ground cover.                |



Drawing Not to Scale  
Planting Area: 10' x

## Maritime Forest Garden



SURCULUS

Trees and shrubs along the landward side of coastal dunes help to stabilize soils and provide food and shelter for wildlife in this critical transitional zone



The transitional area between coastal dunes and more stabilized grounds create opportunities for partial to full sun gardens.

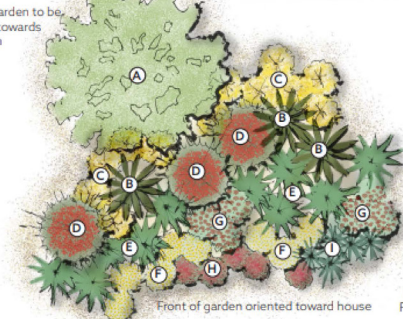
This garden celebrates the plant communities found within the maritime shrub thicket and back dune environments. The **Chickasaw plum** and **coral bean** offer height and an open form, creating shelter and food for wildlife. The striking upright form and tall blooms of the **Spanish dagger yucca** and **coral bean** will rise up amongst the **seaside goldenrod** and **sweetgrass**. The **sweetgrass** will in turn offer a backdrop to the **spotted beebalm**, **black-eyed Susan**, and **scarlet sage** and their mix of flowers and bloom times, ensuring food for the coastal plain pollinators throughout the season. The beautiful and bluish tint of the **little bluestem** grass and red blooms of the **scarlet sage** complete the layering of the plant material, allowing the shortest plants to form the front border.

\* If desired, larger plant material such as live oaks, magnolias, red cedars, sabal palms, yaupon hollies, and pines be incorporated in this garden mix.

\* Full sun refers to areas in your garden that receive six to eight hours of sun each day. Partial sun refers to areas of your garden that receive between four hours and six hours of sun each day. If your plant calls for partial sun, it will do better at the higher end of this sun exposure scale.

- |                                                                                                                                                                                                                    |                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A. Chickasaw Plum</b><br/><i>Prunus angustifolia</i> (1)<br/>* Attracts pollinators; host plant for butterflies; provides cover and food for birds and small mammals.</p>                                    | <p><b>E. Sweetgrass</b><br/><i>Muhlenbergia sericea</i> (10)<br/>Planted in groups of 5 (48" on center)<br/>* Attracts birds, butterflies, and mammals; provides cover and resting sites.</p>                                        |
| <p><b>B. Spanish Dagger Yucca</b><br/><i>Yucca gloriosa</i> (3)<br/>* Attracts hummingbirds, moths, and bees; host plant for butterflies and other key insects.</p>                                                | <p><b>F. Black-eyed Susan</b><br/><i>Rudbeckia fulgida</i> (8)<br/>Planted in groups of 3 and 5 (18" on center)<br/>* Attracts pollinators; host plant for butterflies; seeds eaten by songbirds.</p>                                |
| <p><b>C. Seaside Goldenrod</b><br/><i>Solidago sempervirens</i> (12)<br/>Planted in groups of 5 and 7 (24" on center)<br/>* Attracts pollinators, songbirds, and specialized bees; host plant for butterflies.</p> | <p><b>G. Spotted Beebalm</b><br/><i>Monarda punctata</i> (6)<br/>Planted in groups of 3 (18" on center)<br/>* Attracts hummingbirds, butterflies, moths, and bees; host plant for moths.</p>                                         |
| <p><b>D. Coral Bean</b><br/><i>Erythrina herbacea</i> (3)<br/>* Attracts hummingbirds.</p>                                                                                                                         | <p><b>H. Scarlet Sage</b><br/><i>Salvia coccinea</i> (5)<br/>Planted in group of 5 (18" on center)<br/>* Attracts hummingbirds and butterflies.</p>                                                                                  |
|                                                                                                                                                                                                                    | <p><b>I. Little Bluestem</b><br/><i>Schizachyrium scoparium</i> (5)<br/>Planted in group of 5 (24" on center)<br/>* Provides excellent cover year-round; seeds eaten by songbirds and small mammals; host plant for butterflies.</p> |

Back of garden to be oriented towards the beach



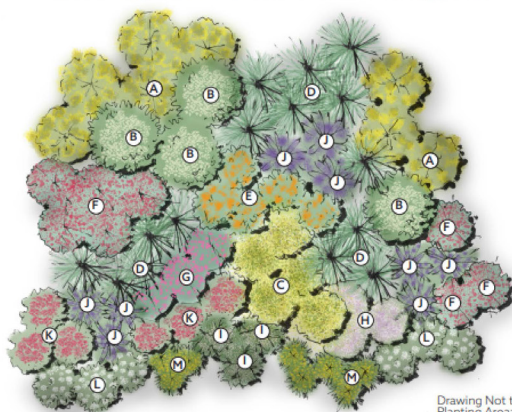
Front of garden oriented toward house

Drawing Not to Scale  
Planting Area: 20' x 12'

## Back Dune Garden



Pollinating insects play a critical role in maintaining natural plant communities and ensuring production of seeds in most flowering plants.



Drawing Not to Scale  
Planting Area: 15' x 12'

Pollinators are facing a decline in their populations worldwide, and this full sun garden offers an opportunity to help in your own yard.

Food, water, and shelter are necessary for the survival of these bees, butterflies, moths, birds, bats, beetles, wasps, and flies. In this garden you will find a diverse range of native plants that bloom at different times, providing food throughout the year. In addition, you will find larval host plants, plants that offer a place to rest and reproduce, and food sources for many birds and small mammals. These perennials have been grouped together by species, helping the pollinators to efficiently locate and fertilize these flowers. The upright **seaside goldenrod** and **beebalm** create a backdrop for the loose **white wild indigo**, while a mass of **little bluestem** weave through the perennial mix. The **purple coneflower**, **butterfly milkweed**, **black-eyed Susan**, **anise hyssop** and **garden phlox** comprise the back layer providing a mix of colorful flowers. The delicate foliage of the **common yarrow** and **lanceleaf coreopsis** create a lower border, flanking the aromatic foliage of the **Georgia savory**.

\* If desired, larger plant material such as maples, redbuds, tulip poplars, black gums, sumac, and elderberry could be incorporated in this garden mix.

\* Full sun refers to areas in your garden that receive six to eight hours of sun each day. Partial sun refers to areas of your garden that receive between four hours and six hours of sun each day. If your plant calls for partial sun, it will do better at the higher end of this sun exposure scale.

- |                                                                                                                                                                                                                                                 |                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A. Seaside Goldenrod</b><br/><i>Solidago sempervirens</i> (8)<br/>Planted in groups of 3 and 5 (30" on center)<br/>* Attracts pollinators and songbirds; supports specialized bees; host plant for butterflies.</p>                       | <p><b>H. Garden Phlox</b><br/><i>Phlox paniculata</i> (3)<br/>Planted in a group of 3 (18" on center)<br/>* Attracts hummingbirds, bees, and butterflies.</p>                       |
| <p><b>B. White Wild Indigo</b><br/><i>Baptisia alba</i> (4)<br/>* Attracts pollinators; host plant for butterflies.</p>                                                                                                                         | <p><b>I. Georgia Savory</b><br/><i>Clinopodium carolinianum</i> (3)<br/>Planted in a group of 3 (24" on center)<br/>* Attracts hummingbirds, bees, and butterflies.</p>             |
| <p><b>C. Black-eyed Susan</b><br/><i>Rudbeckia fulgida</i> (5)<br/>Planted in a group of 5 (18" on center)<br/>* Attracts pollinators; host plant for butterflies; seeds eaten by songbirds.</p>                                                | <p><b>J. Anise Hyssop</b><br/><i>Agastache foeniculum</i> (9)<br/>Planted in groups of 3 (18" on center)<br/>* Attracts butterflies, hummingbirds, birds, and bees.</p>             |
| <p><b>D. Little Bluestem</b><br/><i>Schizachyrium scoparium</i> (15)<br/>Planted in groups of 3, 5 and 7 (24" on center)<br/>* Provides excellent cover year-round; seeds eaten by songbirds and small mammals; host plant for butterflies.</p> | <p><b>K. Scarlet Sage</b><br/><i>Salvia coccinea</i> (6)<br/>Planted in groups of 3 (18" on center)<br/>* Attracts hummingbirds and butterflies.</p>                                |
| <p><b>E. Butterfly Milkweed</b><br/><i>Asclepias tuberosa</i> (5)<br/>Planted in a group of 5 (18" on center)<br/>* Attracts pollinators; host plant for butterflies and moths.</p>                                                             | <p><b>L. Common Yarrow</b><br/><i>Achillea millefolium</i> (6)<br/>Planted in groups of 3 (15" on center)<br/>* Attracts pollinators and bees.</p>                                  |
| <p><b>F. Beebalm</b><br/><i>Monarda didyma</i> (8)<br/>Planted in groups of 3 and 5 (18" on center)<br/>* Attracts pollinators; supports specialized bees; host plant for moths and butterflies.</p>                                            | <p><b>M. Lanceleaf Coreopsis</b><br/><i>Coreopsis lanceolata</i> (8)<br/>Planted in groups of 3 and 5 (12" on center)<br/>* Attracts pollinators; seeds provide food for birds.</p> |
| <p><b>G. Purple Coneflower</b><br/><i>Echinacea purpurea</i> (3)<br/>Planted in a group of 3 (18" on center)<br/>* Attracts pollinators; seeds eaten by songbirds; host plant for butterflies.</p>                                              |                                                                                                                                                                                     |



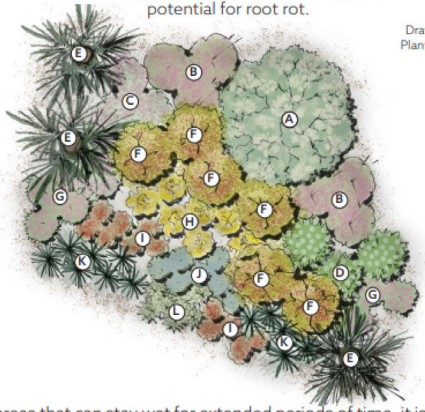
## Coastal Pollinator Garden





Low areas often accept rain runoff from higher areas of your property. When this condition is combined with a high water table, soils can stay wet and create a tricky planting situation due to poor oxygen levels and the potential for root rot.

Drawing Not to Scale  
Planting Area: 20' x 12'



In these areas that can stay wet for extended periods of time, it is important to select plants that tolerate soggy conditions.

Native wetland plants have adapted over thousands of years to these arduous conditions, and this garden celebrates these unique challenges. Altering our perspective of these environments allows us to see that wet areas provide habitat and breeding grounds for birds, insects, mammals, and plants. Plants in these areas assist with filtration and improved water quality, flood attenuation, and erosion control. In this partial sun to full sun garden for wet soil, the **American cyrilla** will eventually become a small ornamental tree, offering abundant summer flowers and orange fall color. The **beautyberry** shrubs create a loose structure, and the **dwarf palmettes** provide an evergreen accent. This garden creates space for the larger, dynamic perennials, welcoming the vertical height of the **coastal plain joe-pye weed** and the large white and pink flowers of the **seashore mallow** and **common rose mallow**. The **swamp milkweed**, larval host plant for the monarch butterflies, fills in the outer edges while the **wrinkleleaf goldenrod** with its bright yellow fall flowers forms a large group in the center. The striking red flowers of the **cardinal flower** and delicate foliage and blue flowers of the **eastern bluestar** create an additional layer as they weave through the evergreen **common rush** and fine textured **narrowsleaf whitetop sedge**.

\*This garden is ideal for places in the landscape that tend to be wet several days (or more) after a significant rain event. You can test the drainage of an area by digging a hole 6" deep and 6" around. Make sure you wait at least 48 hours after rain has fallen. Fill the hole with water, and time how long it takes to completely drain. If there is still water in the hole after 24 hours, you should use plants like these that can tolerate wet feet.

If desired, larger plant material such as sweetbay, tupelo, bald cypress, wax myrtle, swamp azalea, and elderberry could be incorporated in this garden mix.

\*Full sun refers to areas in your garden that receive six to eight hours of sun each day. Partial sun refer to areas of your garden that receive between four hours and six hours of sun each day. If your plant calls for partial sun, it will do better at the higher end of this sun exposure scale.

|                                                                                                                                                                                                           |                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. American Cyrilla</b><br><i>Cyrilla racemiflora</i> (1)<br>* Attracts pollinators; provides cover for wildlife; fruit eaten by birds and mammals.                                                    | <b>G. Swamp Milkweed</b><br><i>Asclepias incarnata</i> (8)<br>Planted in groups of 3 and 5 (24" on center)<br>* Attracts pollinators; host plant for butterflies.                                              |
| <b>B. Coastal Plain Joe-Pye Weed</b><br><i>Eutrochium dubium</i> (6)<br>Planted in groups of 3 (36" on center)<br>* Attracts butterflies and bees; seeds eaten by songbirds.                              | <b>H. Wrinkleleaf Goldenrod</b><br><i>Solidago rugosa</i> (7)<br>Planted in a group of 7 (24" on center)<br>* Attracts pollinators; seeds eaten by songbirds; host plant for moths; supports specialized bees. |
| <b>C. Seashore Mallow</b><br><i>Kosteletzkya pentacarpos</i> (3)<br>Planted in a group of 3 (30" on center)<br>* Attracts pollinators.                                                                    | <b>I. Cardinal Flower</b><br><i>Labelia cardinalis</i> (12)<br>Planted in groups of 5 and 7 (18" on center)<br>* Attracts pollinators.                                                                         |
| <b>D. Common Rose Mallow</b><br><i>Hibiscus moscheutos</i> (3)<br>Planted in a group of 3 (30" on center)<br>* Attracts pollinators; host plant to many butterflies and moths; supports specialized bees. | <b>J. Eastern Bluestar</b><br><i>Amsonia tabernaemontana</i> (7)<br>Planted in a group of 7 (18" on center)<br>* Attracts pollinators.                                                                         |
| <b>E. Dwarf Palmetto</b><br><i>Sabal minor</i> (3)<br>* Fruit eaten by birds and mammals.                                                                                                                 | <b>K. Common Rush</b><br><i>Juncus effusus</i> (12)<br>Planted in groups of 5 and 7 (18" on center)<br>* Provides ground cover; seeds eaten by birds and mammals.                                              |
| <b>F. American Beautyberry</b><br><i>Callicarpa americana</i> (6)<br>Planted in groups of 3 (4' on center)<br>* Fruit eaten by songbirds and mammals.                                                     | <b>L. Narrowsleaf Whitetop Sedge</b><br><i>Rhynchospora colorata</i> (7)<br>Planted in a group of 7 (18" on center)<br>* Attracts butterflies and bees; provides ground cover.                                 |



## Garden for Wet Soil - Sun



## VALUE ADDED INSIGHTS FROM ERIN STEVENS & SURCULUS

### Passion-Driven Entrepreneurship & Strategic Growth

Erin Stevens exemplifies passion-driven entrepreneurship, integrating Surculus with confidence & dedication. Her strategic approach to growth, including careful planning & the implementation of scalable systems, ensures the firm's long-term success.



### Ecological Design & Transformative Impacts

Surculus stands as a leader in ecological design, addressing a significant market gap in Charleston. The firm's commitment to sustainable practices is evident in transformative projects, such as surgically replacing traditional lawns with pollinator-friendly gardens & seamlessly blending high-end aesthetics with ecological benefits.

### Continuous Learning & Future Collaborations

Surculus's commitment to learning from industry leaders like Field Operations & Scape Studio highlights a culture of innovation. Erin's vision extends to future collaborations, building on the firm's success & positioning Surculus for ongoing impact in urban design & ecological architecture.



## KEY TAKEAWAYS

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### *Passion in Business*

Erin's journey emphasizes the importance of passion in running a business.

### *Ecological Design Focus*

Surculus stands out with a focus on ecological design, addressing a gap in the market & an eye-opening experience to what all really goes into landscape projects.

### *Relationships Matter*

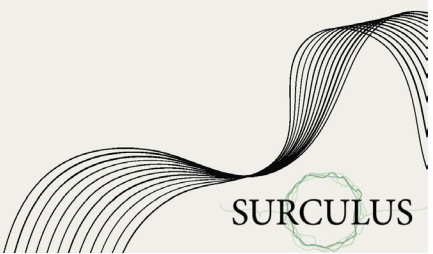
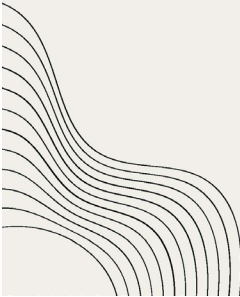
Building & maintaining professional relationships are crucial for business growth.

### *Learning from Challenges*

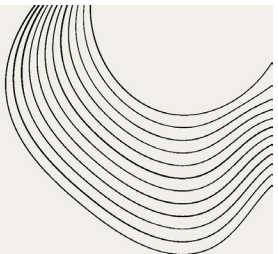
Erin's experience highlights the value of non-dream jobs in shaping a successful career.

### *Strategic Growth*

Surculus strategically plans to expand, bringing ecological design to more urban spaces.



SURCULUS



# Thank you!

---

## SURCULUS' CONTACT INFORMATION

### STUDIO

91-B Broad Street  
Charleston, SC 29401  
(843) 708-5240  
[surculus@surculusdesign.com](mailto:surculus@surculusdesign.com)



SURCULUS



Professional  
Practice

# SHANE FRIESE

## National Park Service

Nicole Summers & Cassie Covington



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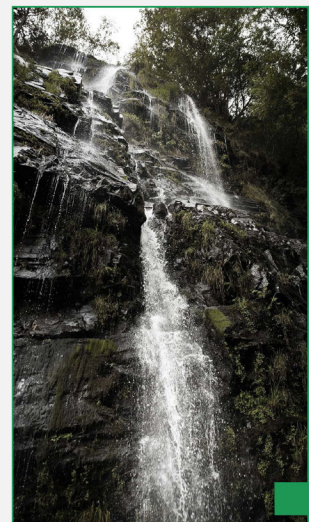
02. Pre-Career

03. Careers

04. NPS Career

05. Pros & Cons

06. Key Takeaways

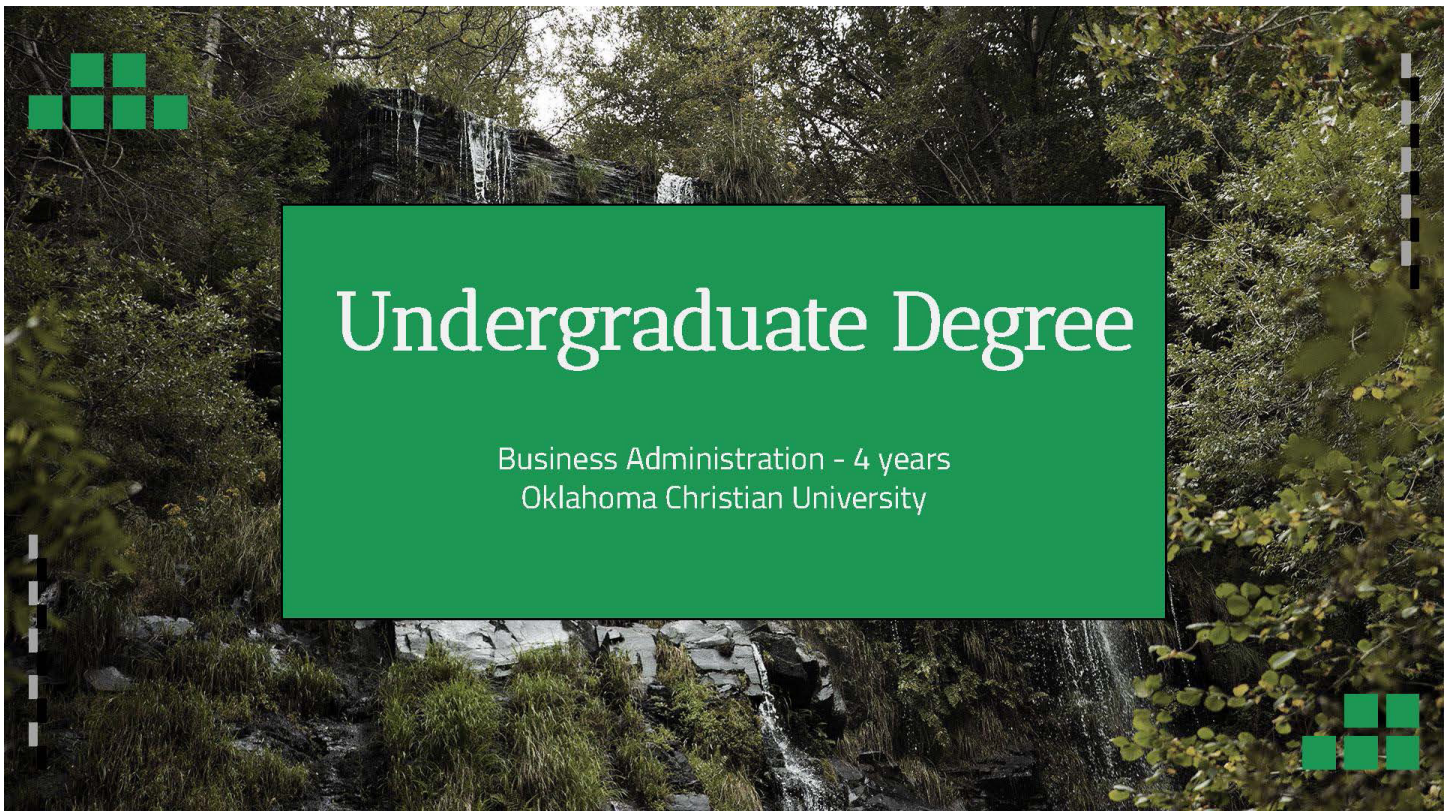




01.

# Education

Oklahoma Christian University and University of Oklahoma



## Undergraduate Degree

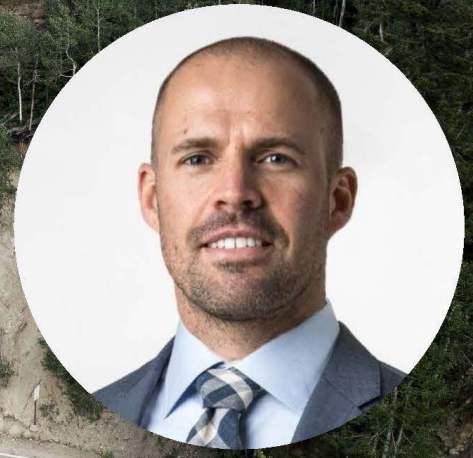
Business Administration - 4 years  
Oklahoma Christian University





# Masters Degree

Landscape Architecture - 3 years  
University of Oklahoma



02.

## Pre-Career

First good taste of National Parks





# Pre – Career



## Grand Teton National Park

Worked at restaurant over the summer, room and board was provided & the perfect place for a college student



## Travelling Experiences

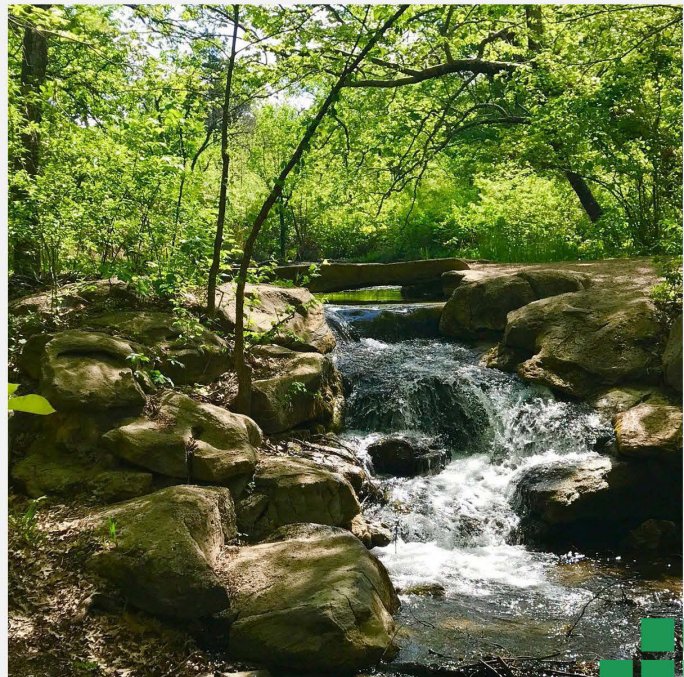
Traveled to Europe, eye opening experiences, came home broke, worked for an insurance company



## First NPS experience

Chickasaw National Recreation Area

- Shadowed a Landscape Architect
- Horrible Experience
- Tedious and Unimportant

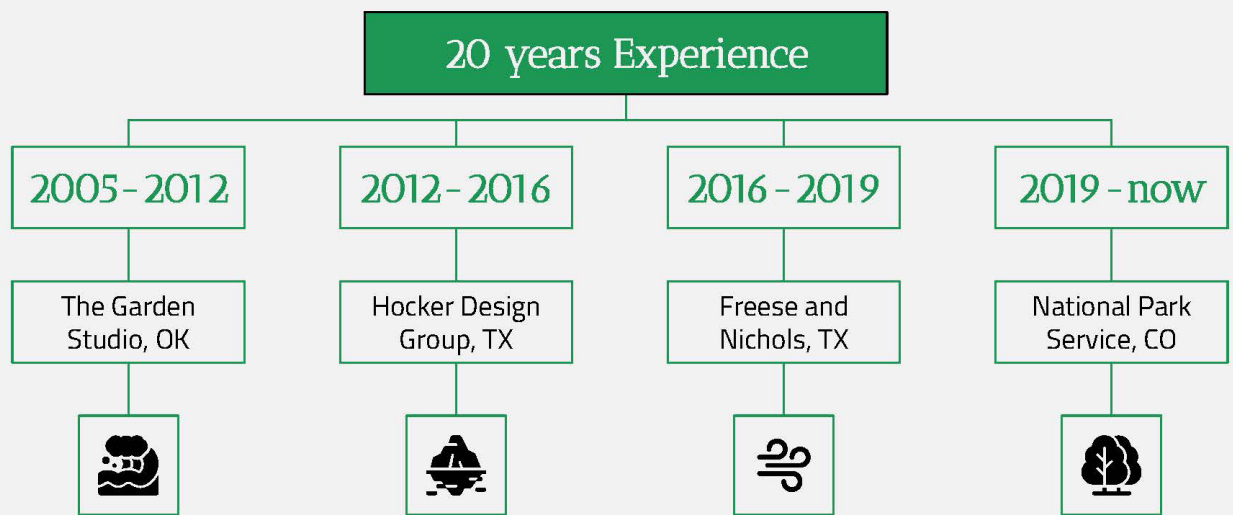




# 03. Career



## Career





# ASLA Featured

Hocker Design  
Group, TX

Cedar Creek, high end residential design, award of excellence (2015)  
Sonoma Mountain, high end residential design, award of excellence (2019)

Freese and  
Nichols, TX

Dynamic Public Plaza, Urban Design, blog (2019)



NPS  
Career 04.





# National Park Service Projects



## North Cascade National Park

Building a fire station and lodge



## Laurel Falls Trail in Smoky Mountains

Trail in disrepair and parking issues



"The goal of a Landscape Architect working for the National Park System is to work to preserve our National treasures and the parks experience through history"

—Shane Frieze



05.

## Pros & Cons



## Pros

- Work travel is incredible
  - Great Salary & Benefits
  - Room for growth
  - Good work life Balance
  - Interesting & large scale projects
- 



## Cons

- Hard to get a NPS job right out of college
  - Frequent administration changes
  - Slow turn around for projects
  - Less design more liaison
  - Checks and Balances
- 





06.

## Key Takeaways



Find your purpose in your work

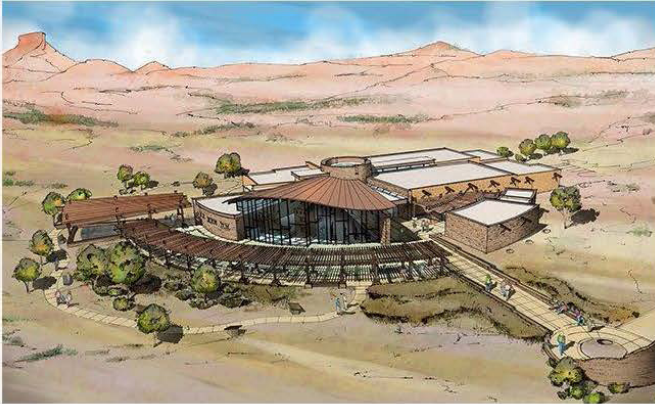
Don't put all your eggs in one basket

Seek out the people who have the career you want to have one day

Have patience

# Thanks!

Do you have any questions?



Nicole Summers & Cassie Covington

## Resources

### Photos:

- <https://www.nps.gov/nature/photogallery.htm>
- <https://thefield.asla.org/2019/07/16/capturing-a-citys-vision-for-a-dynamic-public-plaza/#more-11338>
- <https://www.asla.org/2015awards/95296.html>
- [https://www.asla.org/2019awards/640175-Sonoma\\_Mountain.html](https://www.asla.org/2019awards/640175-Sonoma_Mountain.html)

### Information

- <https://www.linkedin.com/in/shane-friese-189b3a10/>
- Shane Friese - personal presentation



# PROFESSIONALS IN PRACTICE

EXPLORING THE DEPTHS OF LANDSCAPE ARCHITECTURE

HARPER WILSON & JANINA MCDUFFIE

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POWER PLANTS IN THE LANDSCAPE

ZOO DESIGN

# EDWARD KINNEY

PRINCIPAL LANDSCAPE ARCHITECT

URBAN DESIGN DIVISION AT CITY OF GREENVILLE, SOUTH CAROLINA

PLA| MLA | ASLA | ISA| CERTIFIED ARBORIST | LCNP BOARD |

VICE CHAIR SC STATE LICENSURE BOARD

[EKINNEY@GREENVILLESC.GOV](mailto:EKINNEY@GREENVILLESC.GOV)



## HIS CAREER

THE CONSULTANT'S PATH

1

STANTEC

RENO, NEVADA

LANDSCAPE PLANNER

EDUCATION

2

WPI

HILTON HEAD ISLAND

PROJECT PLANNER

EXPERIENCE

3

EKISTICS

DARTMOUTH, CANADA

PROJECT MANAGER

LICENSED LA

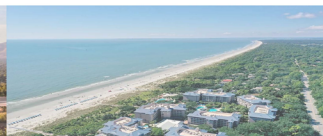
4

CITY OF GVL

GREENVILLE, SC

URBAN DESIGN DIVISION

PRINCIPAL LA





# CONSULTANT

FEWER EMPLOYEES MEANS MORE RESPONSIBILITY

PROJECTS ARE GENERATED BY PROPERTY OWNERS, DEVELOPERS, AND MUNICIPALITIES

RESPONDS TO THE **SCOPE OF WORK** OR A RFP (REQUEST FOR PROPOSAL)

QUALITY, TIME, AND  
BUDGET

**CLIENT** GETS TO  
CONTROL TWO,  
WHILE THE  
**PROFESSIONAL**  
REVEALS THE THIRD

# MUNICIPALITY

GOVERNED BY CITY OFFICIALS, USUALLY A COUNCIL OF SORTS, THAT RELIES HEAVILY ON **COMMUNITY FEEDBACK AND IMPACT**

ARE NOT ABLE TO REQUIRE AFFORDABLE HOUSING, BUT **INCENTIVIZE** IT THROUGH FORM BASED CODES, COMMUNITY DEVELOPMENT, AND ZONING

EX, OFFERING A REDUCTION IN TREE FEES AND LANDSCAPE COSTS

DEVELOPERS **PAY INTO** THE GREEN SPACE

**TREE PRESERVATION ORDINANCE** (SECTION 19-6.5) - CONTRIBUTING BACK INTO GREEN INFRASTRUCTURE

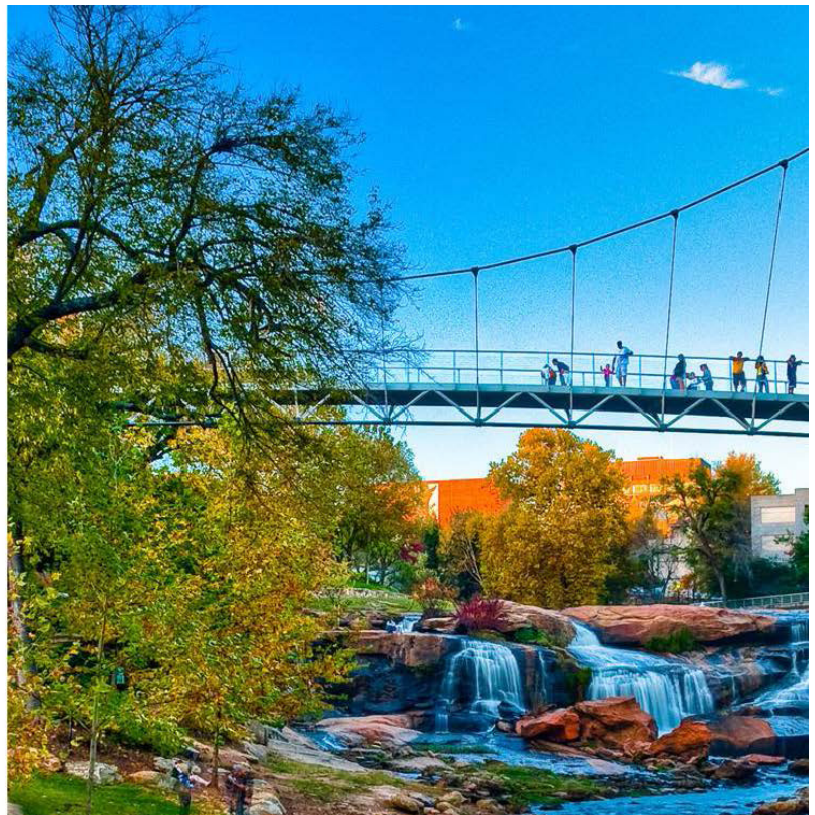
# SMALL, MEDIUM, & LARGE SCALE PROJECTS

## SMALL SCALE

Focuses:

- Human scale
- Aesthetics
- Material and texture
- Views
- Planting

Example: Falls Park



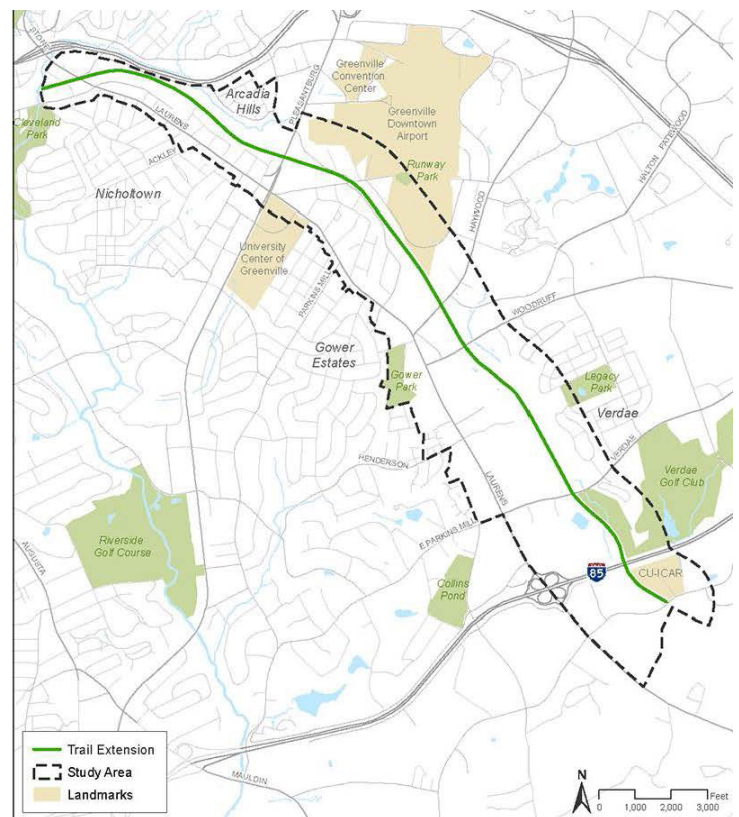
# SMALL, MEDIUM, & LARGE SCALE PROJECTS

## MEDIUM SCALE

Focuses:

- Building Code
- Zoning Code
- Design Guidelines
- Sun/ Shade Diagrams
- SWOT (strength, weakness, opportunity, threat)

Example: Swamp Rabbit Trail





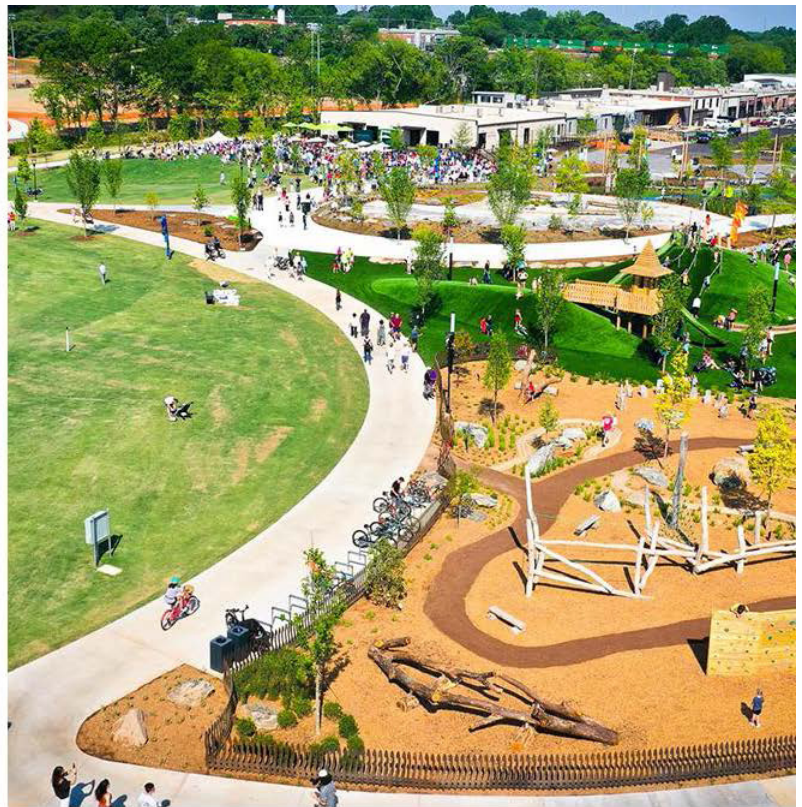
# SMALL, MEDIUM, & LARGE SCALE PROJECTS

## LARGE SCALE

Focuses:

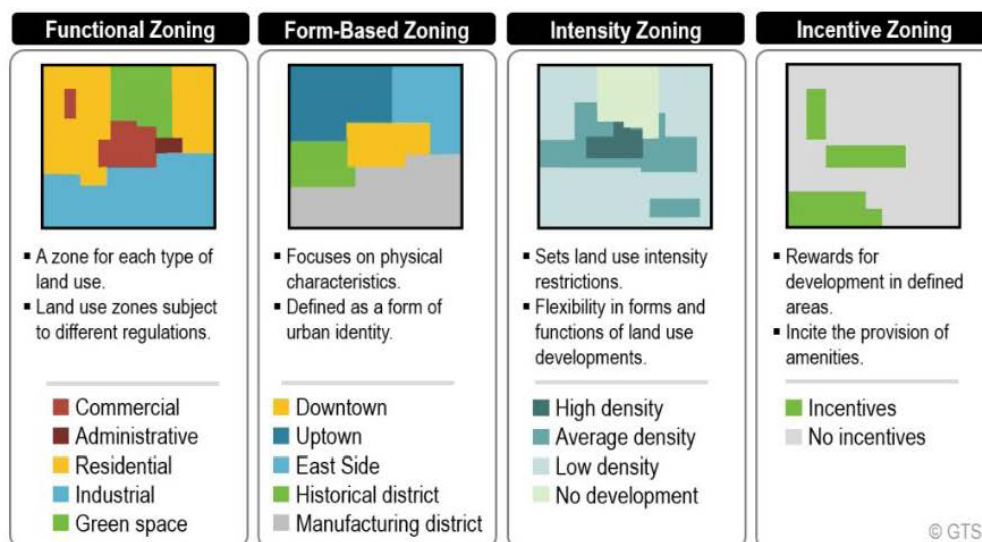
- Land use patterns
- Ordinance writing
- Facility locations
- Demographics
- Economics
- Transportation Networks

Example: Unity Park Affordable Housing Project



## ZONING TYPES

### KEY TAKEAWAY



transportgeography.org

# ZONING TYPES: PROS AND CONS

## FUNCTIONAL (Euclidean)

- Pros: everything is organized, easy to implement and manage, developers have the most freedom
- Cons: often resulting in car dependency, harder to implement walkability

## FORM-BASED

- Pros: cohesive aesthetics, mixed use puts residents near jobs and shops increasing walkability
- Cons: difficult to implement, too much cohesion can lead to a boring city, can scare away new developers (less than 1% of American cities use form-based coding)

## INTENSITY

- Pros: promotes mixed use and walkability, can reduce wasteful land use, doesn't limit aesthetics, used to increase green space
- Cons: could scare away developers with density limitations, could be visually unappealing

## INCENTIVE

- Pros: can provide public benefits (affordable housing, green spaces, historic preservation), provides flexibility for developers,
- Cons: can lead to gentrification or overdevelopment if incentives and public benefits are not fair

## KEY TAKEAWAY

# HOW POWER PLANTS AFFECT THE LANDSCAPE

## LAKE HARTWELL HISTORY

- Built by U.S. Army Corps of Engineers between 1955 and 1962
- Authorized by congress under the 1950 Flood Control Act
- The dam creates a 55,900-acre lake that stretches to the Tugaloo River and Seneca River that come together to create the Savannah River
- Power plant supplies reliable energy during peak hours, power starts up within minutes
- Department of Energy's Southeastern Power Administration (SEPA), revenue goes to the U.S. Treasury
- 1976- sediment and fish found to be contaminated with polychlorinated biphenyls (PCBs) from Pickens power plant



Hartwell Dam in Georgia



## CONSTRUCTION PHOTOS



CLEMSON HIGHWAY BRIDGE CONSTRUCTION



CONSTRUCTION OF DIVERSION DAM NEAR CLEMSON  
UNIVERSITY

## BENEFITS OF HYDROELECTRIC DAMS

- LOTS OF POWER ON DEMAND
- MAKES POWER CHEAPER FOR CONSUMER
- CREATES LAKE RECREATION
- WATERFRONT RESIDENTIAL AND BUSINESS OPPORTUNITIES
- CREATE OPPORTUNITIES FOR US !!

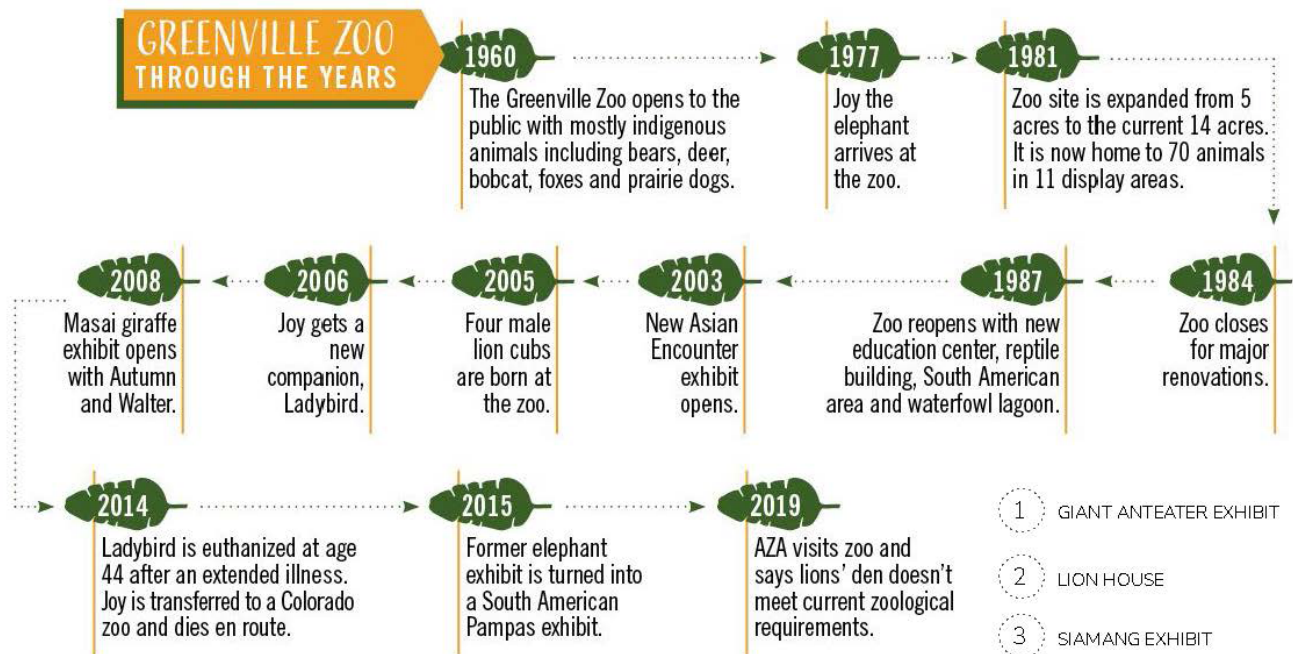


# ZOO DESIGN

GREENVILLE ZOO- ANTEATER EXHIBIT

JONES & JONES

ADELAIDE ZOO





# ANTEATER EXHIBIT

SOUTH AMERICAN PAMPAS EXHIBIT | GREENVILLE, SC

- FIRST RESIDENT MOCHILA OR MO | JOINED BY FLIGHTLESS RHEAS
- NAMED FOR THE FLAT, FERTILE GRASSLANDS IN THE SOUTHEAST REGION OF SOUTH AMERICA
- WILL EVENTUALLY REPRESENT THE ZOO'S LARGEST MIXED SPECIES EXHIBIT FOCUSING ON AN INDIVIDUAL ECOSYSTEM BY INTRODUCING OTHER SOUTH AMERICAN SPECIES TO COEXIST
- SCOPE INCLUDED DEMOLITION OF THE OLD TURTLE POOL AND CONSTRUCTION OF A NEW PLAZA
- THE PLAZA SPACE PROVIDES AN ADDITIONAL VENUE FOR EDUCATIONAL ACTIVITIES, SPECIAL EVENTS AND PRIVATE AFTER-HOURS ZOO RENTALS.



## KEY TAKEAWAY

# JONES & JONES

SEATTLE, WASHINGTON

1

GORILLA  
RAINFOREST

DUBLIN, IRELAND

EXHIBIT FOR  
WESTERN LOWLAND  
GORILLAS

2

OREGON ZOO  
EDUCATION CENTER

PORTLAND, OREGON

HUB FOR  
ENVIRONMENTAL  
LEARNING + ACTIVITY

3

POLK PENGUIN  
CONSERVATION CENTER

ROYAL OAK, MICHIGAN

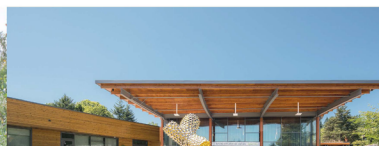
DEVOTED TO PUBLIC  
EDUCATION ON PENGUIN  
CONSERVATION

4

CANADIAN WILD  
CARNIVORE HABITATS

CALGARY ZOO, CANADA

GRIZZLY OR POLAR BEARS  
AIMS TO INSPIRE AND  
CONSERVE WILDLIFE



LARC 2810 LA PROFESSIONAL PRACTICE

BLA

# ADELAIDE ZOO

ADELAIDE, AUSTRALIA

THE ZOO BOASTS AUSTRALIA'S FIRST PURPOSE-DESIGNED 'GREEN ROOF' TO SUPPORT WILDLIFE SHELTER AND EXTENSIVE 'LIVING WALLS' OF NATIVE PLANTS

MAKING IT A SIGNIFICANT HORTICULTURAL PARK AND RESEARCH CENTRE AS WELL AS A WORLD CLASS ZOO

CONSERVATION, ENVIRONMENT, EDUCATION, RESEARCH



# ADELAIDE ZOO

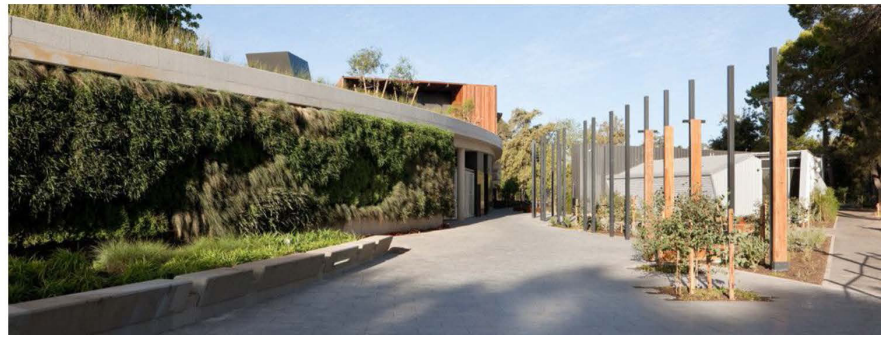
HASSEL | ADELAIDE, AUSTRALIA



A CO-OPERATIVE CONSERVATION AGREEMENT WITH THE CHINESE GOVERNMENT ENTRUSTING THE ZOO WITH THE CARE OF TWO GIANT PANDAS, WANG WANG AND FUNI, FOR A PERIOD OF TEN YEARS







TAKEAWAY?



## SOURCES

HILTON HEAD [SHUTTERSTOCK-1539658046.JPG](#)

RENO NEVADA [637557233684130000](#)

DARTMOUTH [DARTMOUTH.JPG](#)

GREENVILLE [10-3-18-LIBERTY-BRIDGE-FALLS-PARK-E1643224462923.JPG](#)

OREGON ZOO [ORZOOEDCTR\\_OPSIS1.JPG](#)

POLK PENGUIN CONSERVATION CENTER [JONESJONES-DETROITPENGUIN-2.JPG](#)

GORILLA RAINFOREST [DUBLINZOO\\_3509.JPG](#)

GREENVILLE ZOO [HTTP://WWW.GREENVILLEZOO.COM/](http://www.greenvillezoo.com/)

[HTTPS://GREENVILLEJOURNAL.COM/COMMUNITY/KINGS-OF-THE-GREENVILLE-ZOO-LIONS-TO-STAY-AS-ZOO-MAKES-UPGRADES-TO-MEET-INDUSTRY-STANDARDS/](https://greenvillejournal.com/community/kings-of-the-greenville-zoo-lions-to-stay-as-zoo-makes-upgrades-to-meet-industry-standards/)

ZONING TYPES: [HTTPS://TRANSPORTGEOGRAPHY.ORG/CONTENTS/CHAPTER8/URBAN-LAND-USE-TRANSPORTATION/LAND-USE-ZONING/](https://transportgeography.org/contents/chapter8/urban-and-use-transportation/land-use-zoning/)

LAKE HARTWELL:  
[HTTPS://WWW.SAS.USACE.ARMY.MIL/ABOUT/DIVISIONS-AND-OFFICES/OPERATIONS-DIVISION/HARTWELL-DAM-AND-LAKE/HYDRO-POWER/](https://www.sas.usace.army.mil/about/divisions-and-offices/operations-division/hartwell-dam-and-lake/hydro-power/)  
[HTTPS://WWW.INDEPENDENTMAIL.COM/PICTURE-GALLERY/NEWS/2023/07/14/PHOTOS-THEN-NOW-HARTWELL-LAKES-HISTORY-GROWS-BEYOND-60-YEARS-ANDERSON-SC-GEORGIA/12223713002/](https://www.independentmail.com/picture-gallery/news/2023/07/14/photos-then-now-hartwell-lakes-history-grows-beyond-60-years-anderson-sc-georgia/12223713002/)  
[HTTPS://WWW.ATSDR.CDC.GOV/HAC/PHA/SANGAMOWESTON072604HC-SC/SANGAMOWESTON072604HC-SC.PDF](https://www.atsdr.cdc.gov/HAC/PHA/Sangamoweston072604HC-SC/Sangamoweston072604HC-SC.pdf)

GREENVILLE PROJECT PICTURES:  
[HTTPS://WWW.GREENVILLESC.GOV/172/PLANNING-DEVELOPMENT](https://www.greenvillesc.gov/172/PLANNING-DEVELOPMENT)