

# Unity PLAZA

A life enriching urban park uplifting and electrifying our community consciousness



Studio  
9  
Design Studio

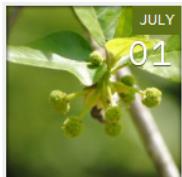
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Design Studio

# Great Expectations...

# unity PLAZA

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## COUNTDOWN #29 TO UNITY PLAZA OPENING ~ NE FLA BOTANICAL GARDEN & RIVER RELATIONSHIP DISCUSSED

POSTED BY JEN JONES ON JULY 1, 2014 IN LEADERSHIP, PLAZA PROGRESS REPORT, PROGRAMMING PLANS, UNITY PLAZA SPONSORED EVENTS, UNITY PLAZA STRATEGIC & COMMUNITY PARTNERS, UNVEIL OF UNITY PLAZA TO JACKSONVILLE | LEAVE A COMMENT



### TAGS

[CHRIS FLAGG](#) [CITY OF JACKSONVILLE](#) [FLAGG DESIGN STUDIO](#)

[JACKSONVILLE FLORIDA](#) [NORTHEAST FLORIDA BOTANICALS](#) [RIVERSIDE AVENUE](#)

[UNITY PLAZA](#)

Upon opening late this year, Unity Plaza will be an urban park and amphitheater located along Riverside Avenue largely inspired in both event programming and aesthetics by our native environment and its proximity to the St. Johns River. Unity Plaza will be a showcase of Northeast Florida native botany, the foundation of the park's landscaping, as well as be a home for the St. Johns Riverkeeper to publicly explore the sensitivity of our river with Jacksonvilleans of all ages through events and campus signage.

Unity Plaza will feature a lush, urban botanical garden, both bee and butterfly friendly, on the 12,000 square foot corner of Forest and Magnolia Streets. There it will highlight perennial and annual flora, ground cover, vine plants, shrubbery and trees in order to demonstrate to the public the stunning opportunity and feasibility of planting with natives. For example, flowering plants such as the White Tupelo Tree, famous for its honey and found along the shores of streams and lakes in St. Johns County and a prime nectar source in Florida will be found among its gardens.

Research, design and planning for this project will be led by downtown advocate and award winning landscape architect Chris Flagg. As shared by Katherine Hardwick on Downtown Vision's dynamic blog ([downtownjacksonville.org](#)), 'Chris Flagg is a true Downtown champion. His firm, **FLAGG Design Studio, LLC**, specializes in community planning, urban design and campus master planning. He is past chair of DVI's **board of directors** and has served on multiple committees including the Executive, "Great Streets," Advocacy and Green committees, the board of the **Cultural Council of Greater Jacksonville** and the **Office of Economic Development**'s Downtown Development Review Board. His professional involvement in Downtown development includes the redevelopment of Laura Street, lead designer on Friendship Fountain, the Laura Street Façade Improvement Grant Program and the redevelopment plans for the Southbank Riverwalk replacement.'

Pre-planning for Unity Plaza included a 2007 \$4 million dollar remodel of the former 4:1 grade FDOT retention pond by land donor NAI Hallmark Partners to transform a 2 acre wasteland into a commanding, state-of-the-art water collecting and cleansing system for storm water runoff in Brooklyn, parts of Riverside and Downtown Jacksonville. The gardens will receive their irrigation from the pond waters while the St. Johns Riverkeeper will use Unity Plaza as a platform for river education utilizing the amphitheater and multiple events as new beacons for sharing the environmental protection needs of the St. Johns River and its value as a community asset.

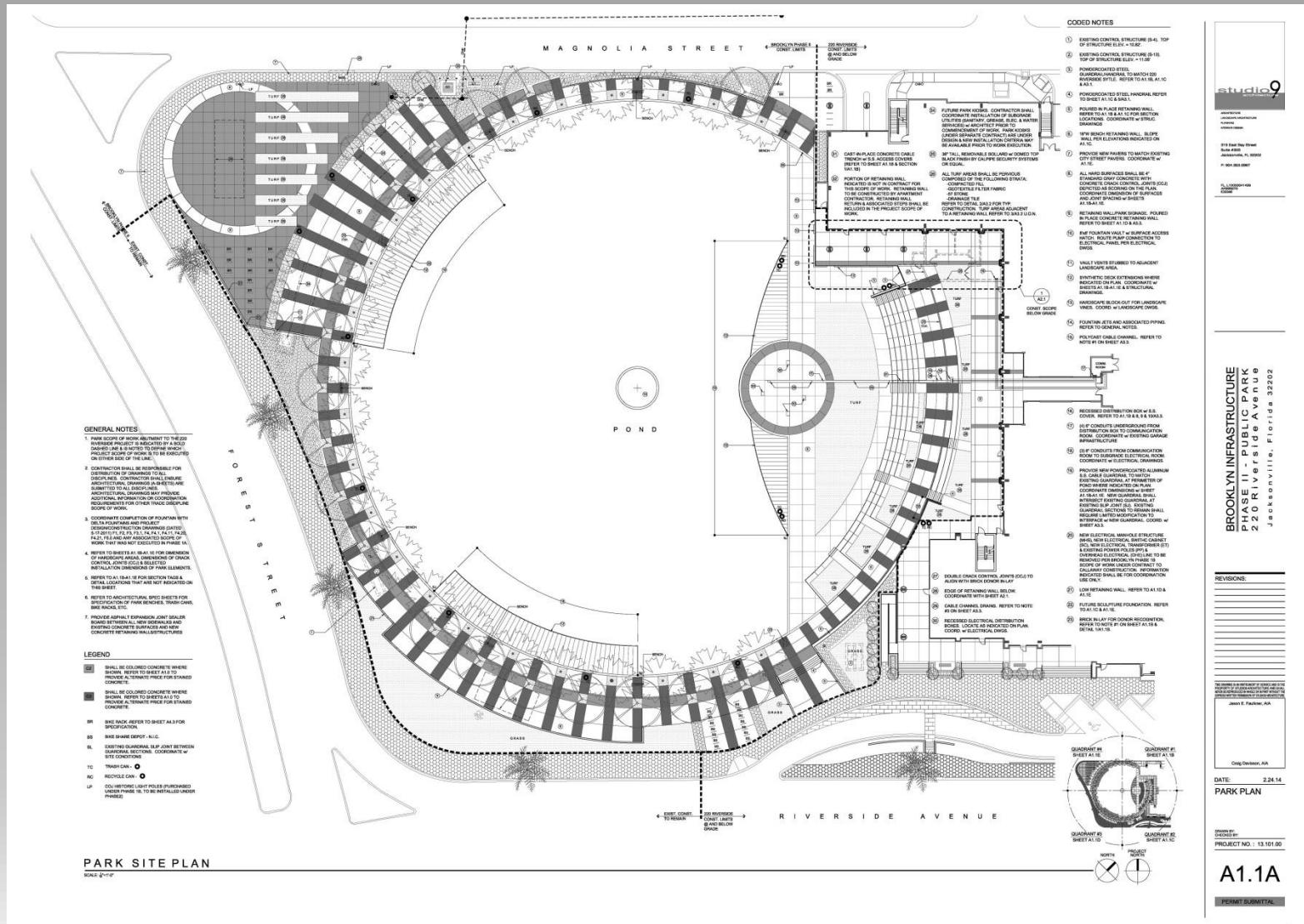
SHARE THIS:

# Program

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- Native Green
- Northeast Florida Native
- Botany
- St. Johns River Sensitivity
- Urban Lush
- Botanical Garden
- Bee and Butterfly Friendly
- Perennial & Annual Flora
- Groundcover
- Vines
- Tupelo Tree
- Educational
- Aesthetics of Florida Native Environment

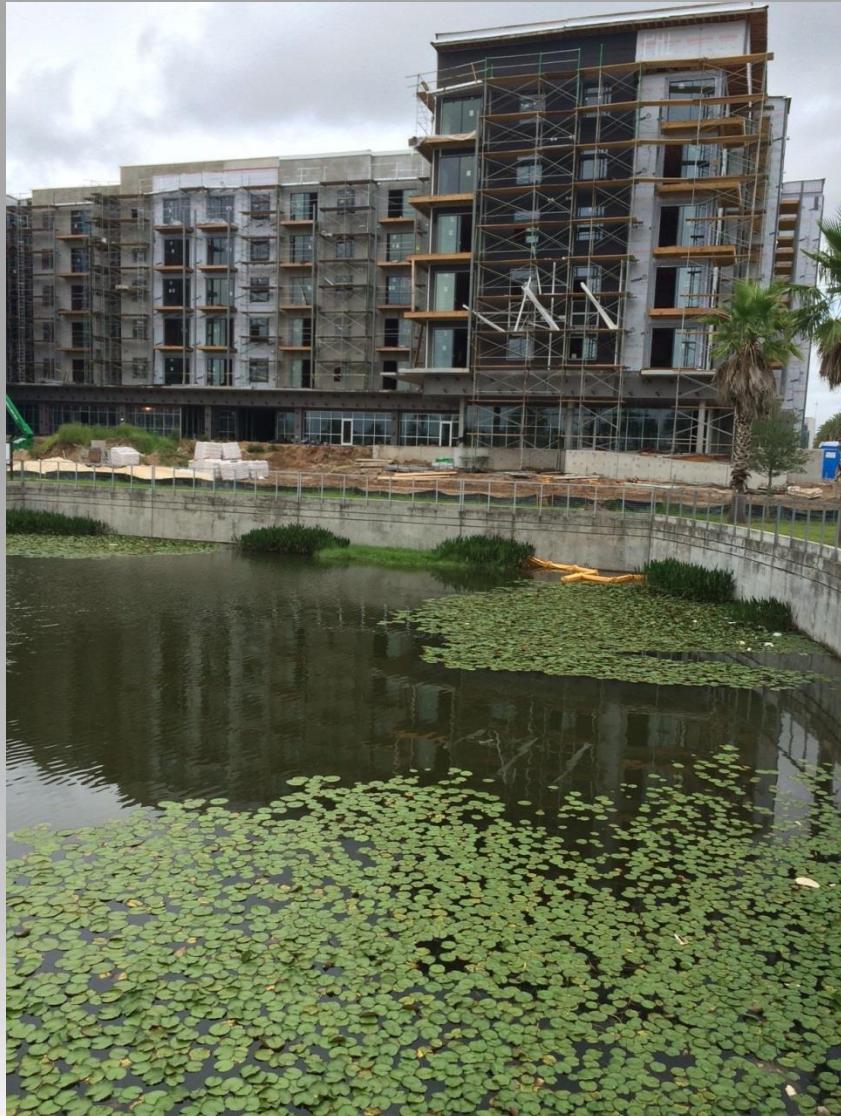
# Program



# Existing Conditions



# Existing Conditions



# Existing Conditions

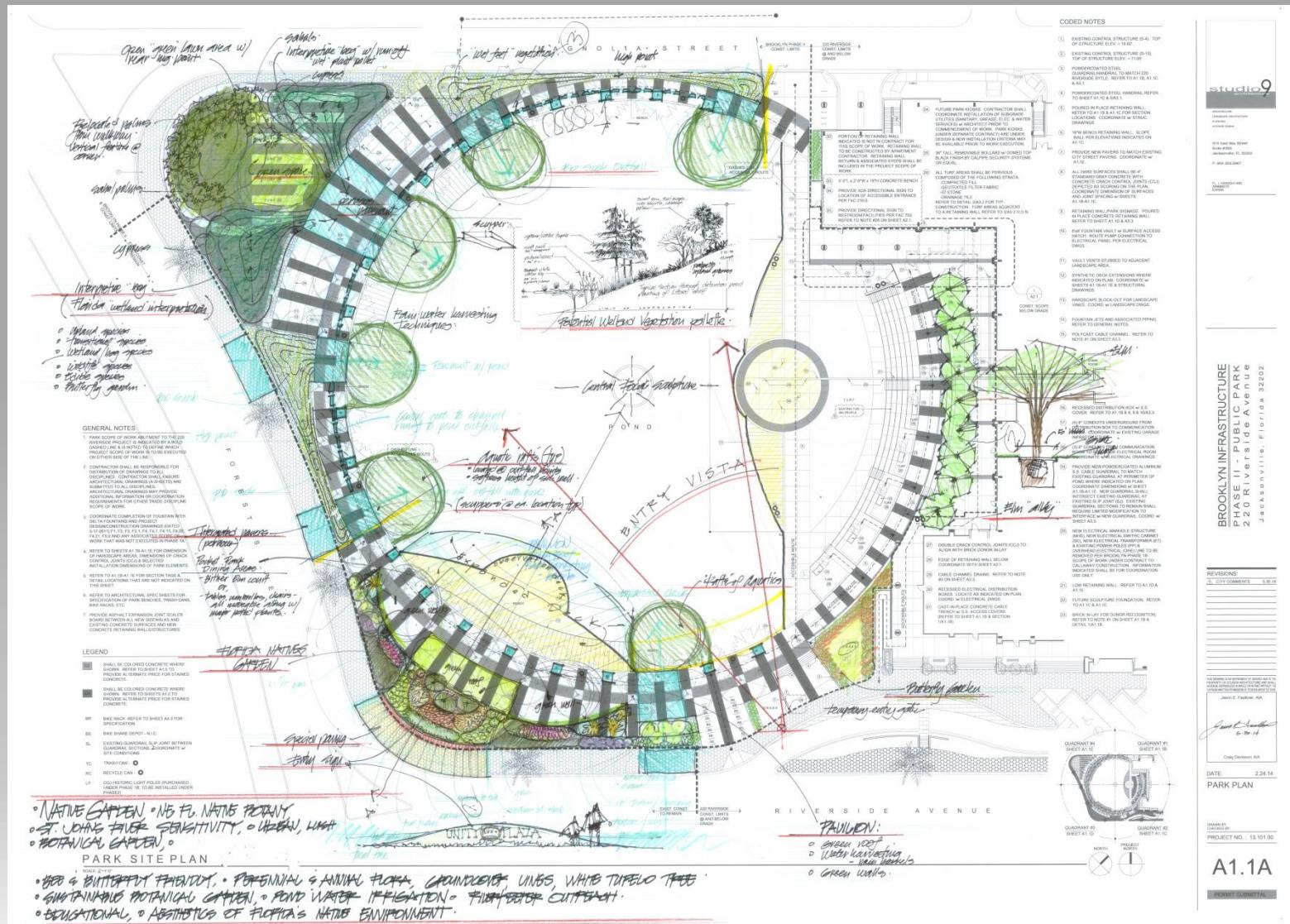
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# Overall Site Vision



# Elements of Consideration

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Architects

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# Green roof

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# Green roof



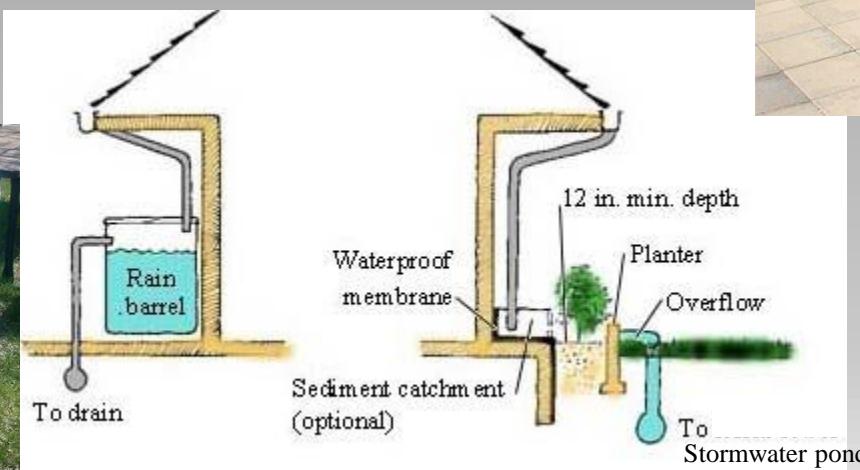
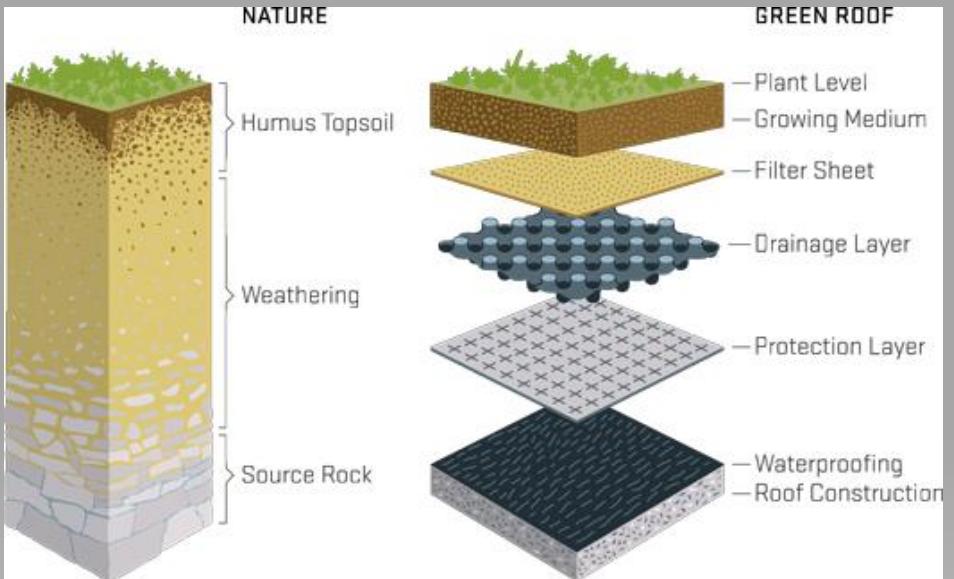
# Green roof



The Jacksonville Zoo



# Green roof design



Rainfall collection system to support the green roof. Educational material to demonstrate process.



# Green roof design

Breaking Ground  
Contracting



# Green roof design



# Green roof cover design



# Green roof cover design



# Shade area



# Green wall



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# Green wall



# Hardscape

## Tree Grates



Educational



# Hardscape

## Tree Sculptures



# Hardscape

## Trench drain and area drains



# Educational Signage



# Educational Signage



# Educational Signage

## NATIVE PLANTS, NATIVE PEOPLE BRINGING CULTURE and ENVIRONMENT TOGETHER

**WHAT ARE NATIVE PLANTS IMPORTANT?**  
Native plants are adapted to the local climate and soil, and provide food and shelter for native animals.

**WHAT IS A PERENNIAL?**  
A plant that lives for more than two years. It can flower and produce seeds each year.

**COMMON BLUES**  
A small, delicate, blue-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**COMMON BLOOM**  
A tall, yellow-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**COPPER COINS**  
A small, pink-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**DRIP PLANT**  
A small, yellow-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**FEATHER BRASS**  
A small, pink-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**WILDE-BERGAMOT**  
A tall, purple-flowered wildflower. It has a long taproot and grows in moist, sandy soil. It is a traditional Ojibwe medicine used to treat sore throats and colds.

**WHAT ARE WETLAND PLANTS USED IN BIOSWALES AND RAIN GARDENS?**  
A wetland is permanently or seasonally wet and has plant communities that are suited for its unique soil and fluctuating water levels. Rain garden plants must tolerate similar conditions. Our wetland plants are a good fit for bioswales and rain gardens. For more ideas on gardens and bioswales check out our sign at the entry to the building.

**WHAT IS A MONOCROAT?**  
An animal in the wet soil that secretly leaves pheromones that attract both plants and insects.

**THEN AND NOW**

**NATIVE PEOPLE HAVE USED NATIVE PLANTS FOR FOOD, MEDICINE, CLOTHING, HABITAT AND TRADING SUPPLIES.** The harvesting of native plants is more than just a means to survive - it has medicinal and social significance, too. Native people are now using plants to protect water quality.

Many of the plants found in this bioswale are native and were grown and planted by students from the Lac du Flambeau grade school.

**COMMUNITY RAINFOREST PLANTING THE FOREST**

The signage features a central circular area with five sections of native plants (Copper Coins, Common Blues, Common Bloom, Drip Plant, Feather Brass) with their scientific names and traditional Ojibwe uses. Above this are two sections: 'NATIVE PLANTS IN THE GARDEN' and 'THEN AND NOW'. The 'GARDEN' section shows a bioswale diagram and student planting activity. The 'THEN AND NOW' section shows historical and modern community planting scenes.

# Stormwater Treatment

## Living Machines



Baima waterway in Fuzhou, China  
Eco-machine treating raw sewage  
12,000 plants and 20 native  
species along with a mechanical  
aeration and bacterial inoculation  
system.

# Stormwater Treatment

## Living Machines



Houtan Park of Shanghai Expo



Greywater Treatment in Tel Aviv

# Stormwater Treatment

## Aquatic mats



# Stormwater Treatment

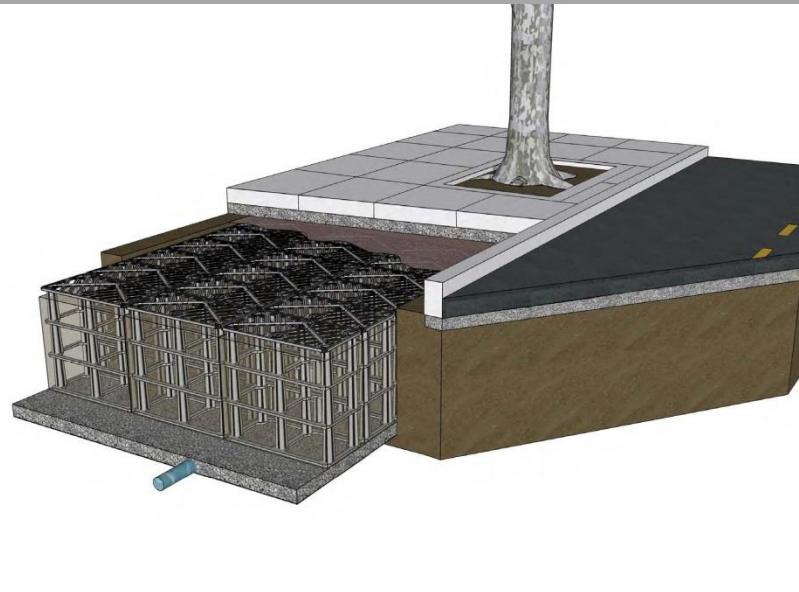
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## Aquatic mats



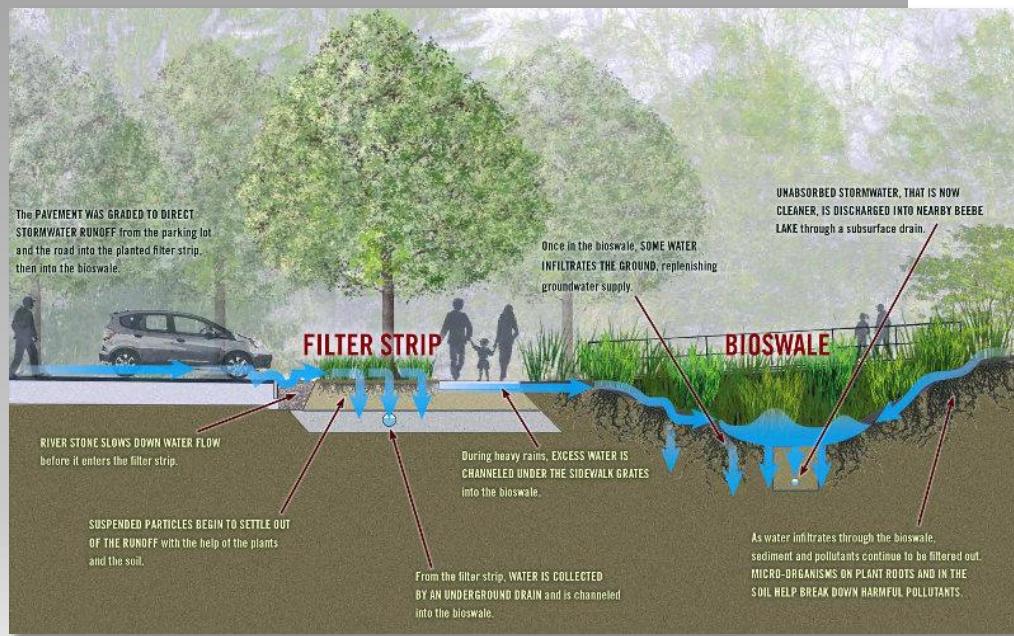
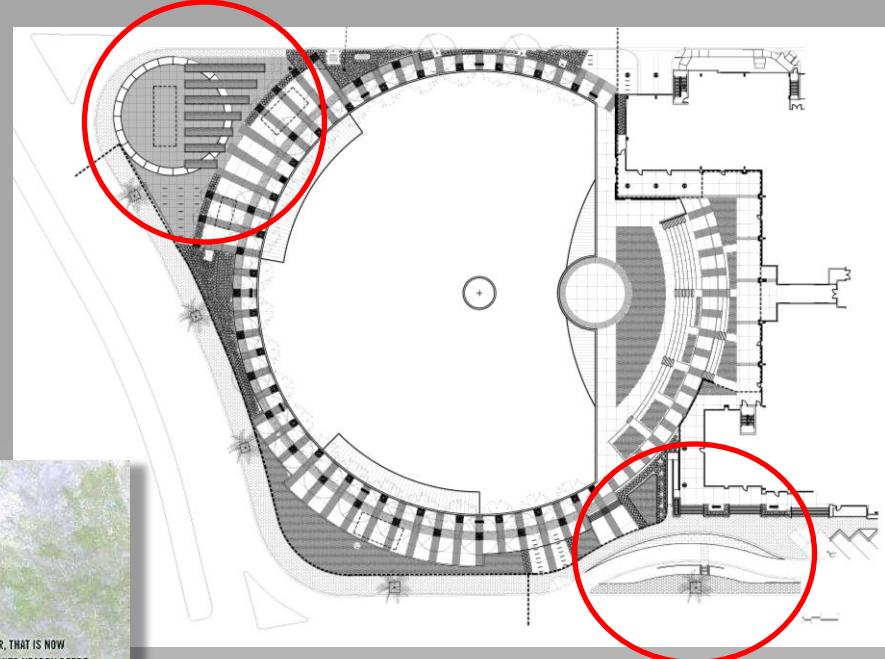
Gainesville's Tumblin Creek  
Stormwater Park

# Stormwater Treatment



Deeproot Silva Cell  
for stormwater  
collection prior to  
filtering to pond.

# Stormwater Treatment



Small design changes that make a difference and continue the educational experience within the space.

# Hardscape

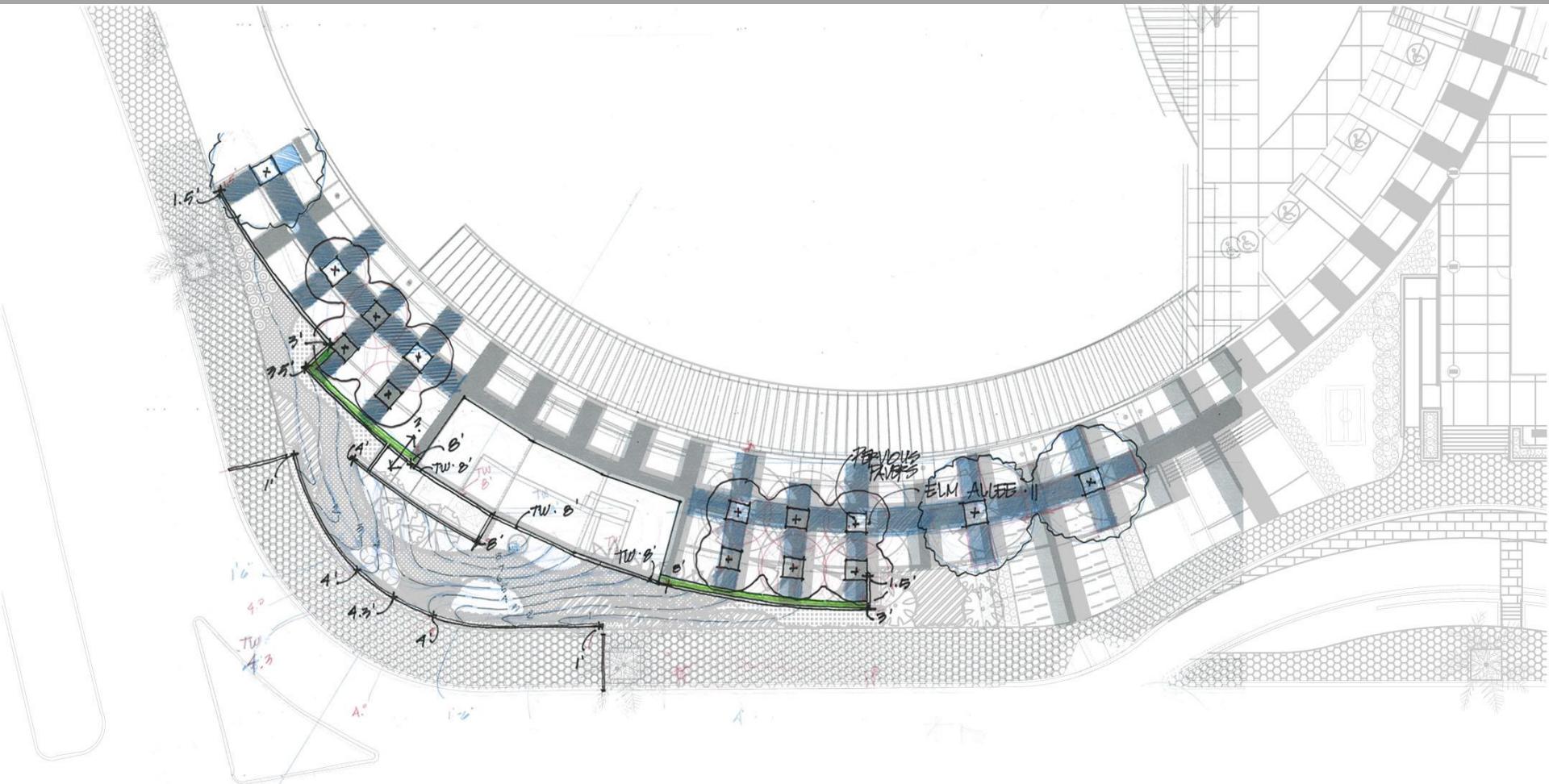
Engaging the Water



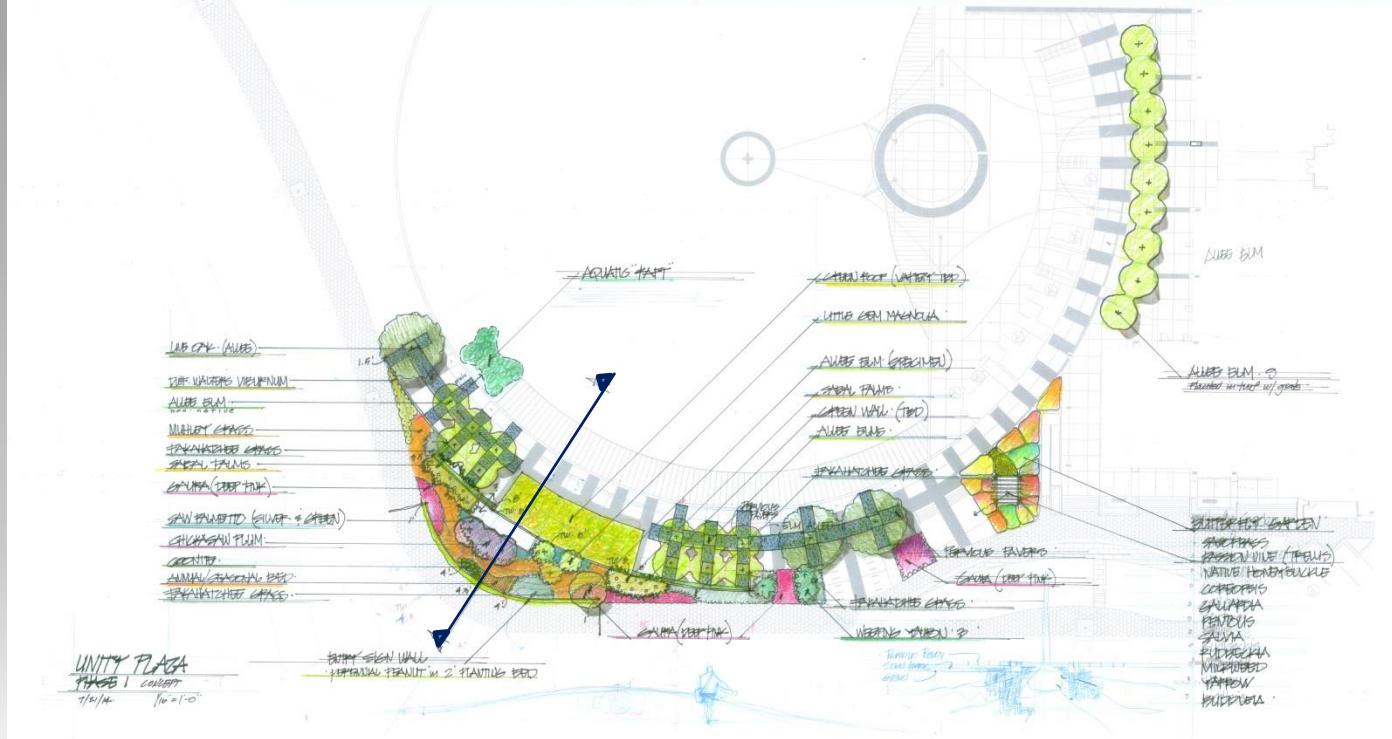
Historic Forth Ward Stormwater park  
Atlanta, GA



# Phase One - Grading



# Phase One



# Landscape - Trees



CHICKASAW PLUM



WINGED ELM



LITTLE GEM MAGNOLIA



WEEPING YAUPON HOLLY



SABAL PALM

# Landscape - Shrubs



SAW PALMETTO



SILVER SAW PALMETTO



GAURA



MUHLY GRASS



FAKAHATCHEE GRASS



DWARF WALTERS  
VIBURNUM



COONTIE

# Landscape - Groundcover



BEACH SUNFLOWER

*Helianthus debilis*



PERENNIAL PEANUT

*Arachis glabrata*



Butterfly Weed

*Asclepias*



BLACK-EYED SUSAN/ GLORIOSA DAISY

*Rudbeckia hirta*



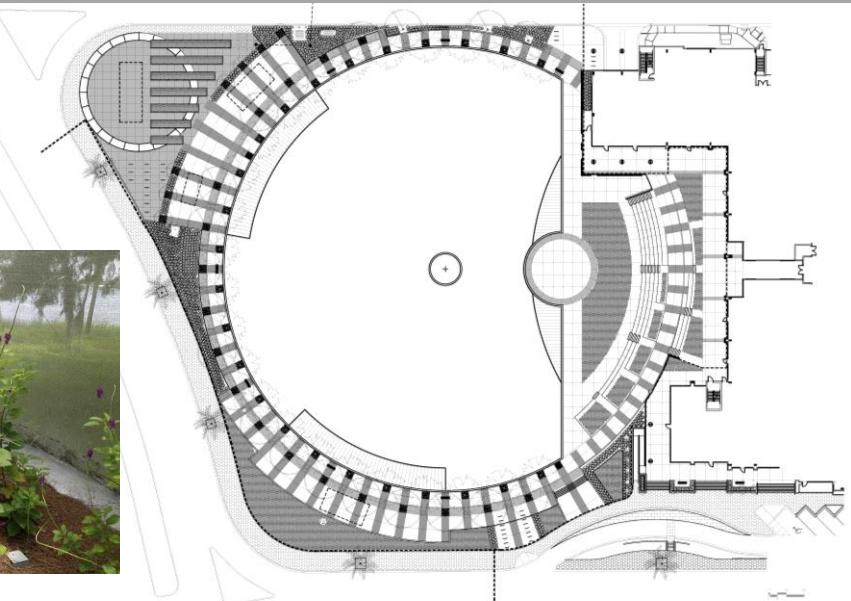
Creeping Phlox

*Phlox subulata*

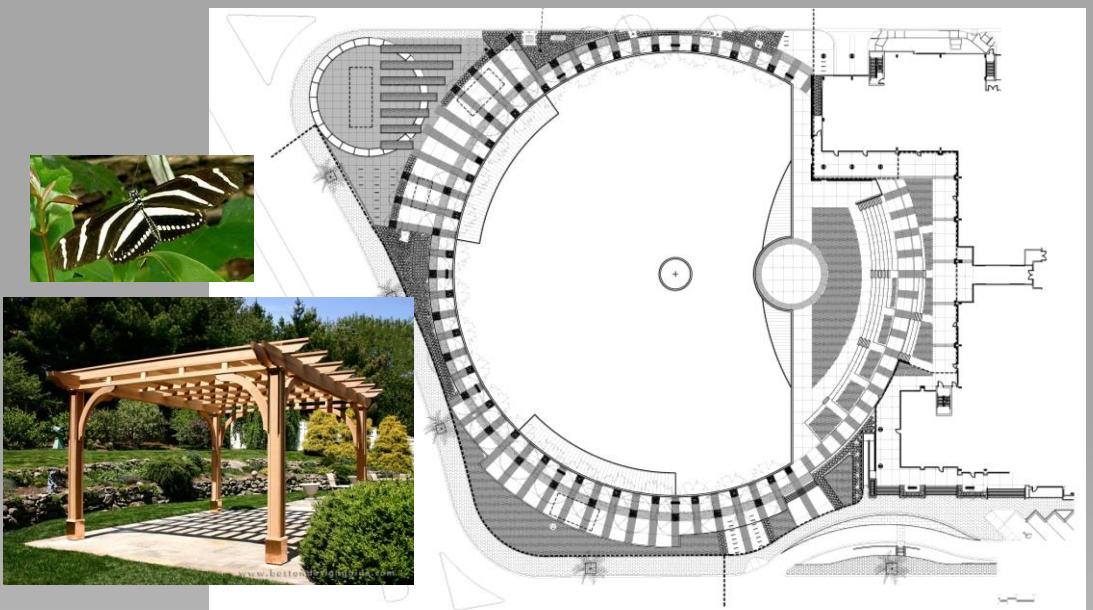
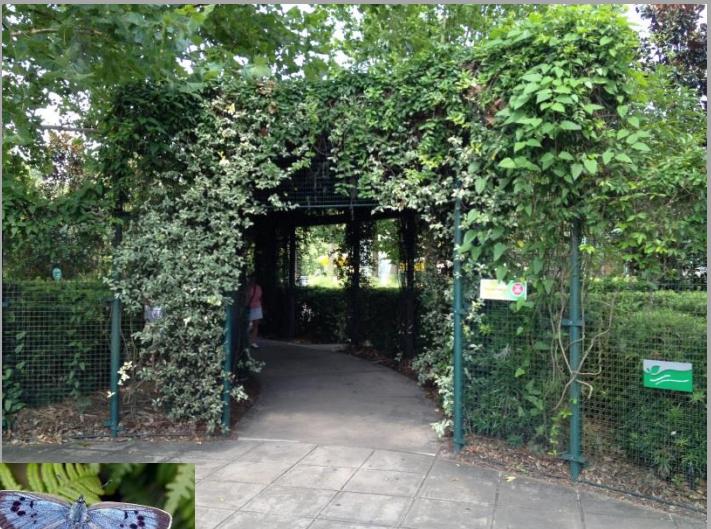
# Landscape - Butterfly Garden



Nectar and host plants



# Landscape - Butterfly Garden



Opportunity for a climbing plant structure over existing utility concrete pad

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