



Final Ecological Design

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Sandy Creek Nature Center & North Oconee Greenway



Ecological Findings

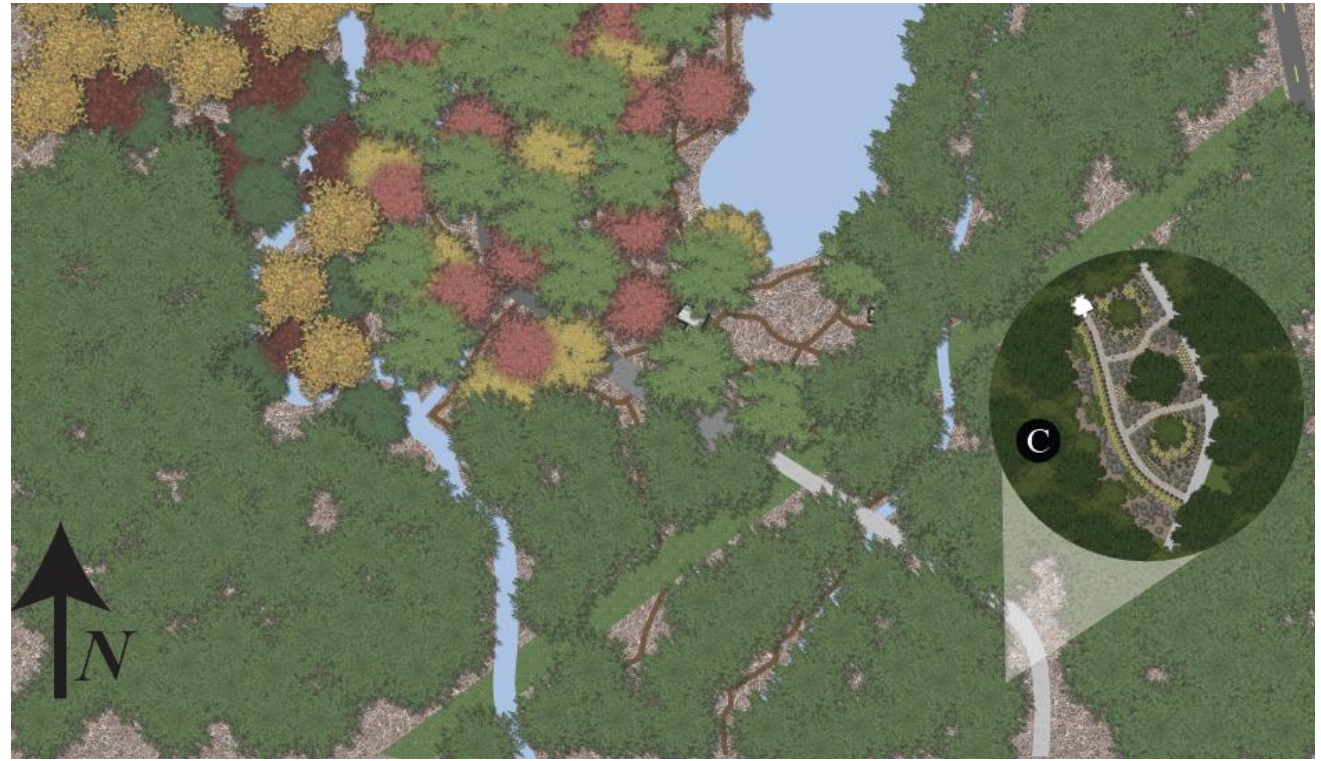
Soil Composition:

- Ultisols: a highly weathered leached red or reddish-yellow acid soil with a clay-rich B horizon (subsoil), occurring in warm, humid climates.
- Inceptisols: a soil of an order comprising freely draining soils in which the formation of distinct horizons is not far advanced, such as brown earth.

Native Species	Invasive Species	Native Wildlife
Sweet Gum	Privet	Rattlesnake
Pines	Catbriar	Opossum
White Oak	Nandina	Deer
Water Oak	Blackberry Vine	Wood Duck
Red Oak		Red Hawk
Maples		Red Headed Woodpecker
Muscadine Vines		Barred Owl



Final Design Plan



Native Pollinator Garden & Pump House

This area of the North Oconee Greenway is very historic. It is home to the old pump house that was once used to pump water from the North Oconee River. The building is now old and abandoned as Athens Clark county has constructed another one to use instead. Although the old building appears to have no use any-more, it is now an important node located along the greenway as it can be viewed and appreciated for its historic value to the city. Photos below show the existing pump house and vegetation located along the greenway as well as a new plan and perspectives of an advanced design for the space.

PERSPECTIVE OF EXISTING VEGETATION

Renovating the old pump house adds extra value and life to the area. As it stands, the building is unstable and unsafe causing people to overlook its historic beauty. Reconstruction will bring beauty and function to the area as well as highlight the history behind the pump houser educating the people that encounter it.

PERSPECTIVE OF PLAN



PERSPECTIVE OF PUMP HOUSE



PERSPECTIVE OF PLAN

This new design brings educational value to users of the greenway by allowing them to experience the full beauty native pollinator gardens have to offer. Around every corner is a new view of earths natural beauty and allows people to get to know information about native plant species.



This native pollinator garden consist of multiple pathways and benches throughout it to allow the user to get very close to the native plants species. Getting closer to the plants species allows an individual to easily visualize the value and beauty of these plants to the area.



PERSPECTIVE OF PLAN



PERSPECTIVE OF PLAN



Below is a list of plants located within the area. Can you walk through and identify where these species planted throughout the garden?

	7	Mexican Grass Tree	<i>Holcia longicoma</i>		7	Mexican Grass Tree	<i>Holcia longicoma</i>
	31	Pampas Grass	<i>Cortaderia selloana</i>		31	Pampas Grass	<i>Cortaderia selloana</i>
	76	Variegated Mondo Grass	<i>Ophiopogon japonicus 'Variegatus'</i>		76	Variegated Mondo Grass	<i>Ophiopogon japonicus 'Variegatus'</i>
	64	Variegated Oat Grass	<i>Arrhenatherum elatius subsp. bulbosum 'Variegatum'</i>		64	Variegated Oat Grass	<i>Arrhenatherum elatius subsp. bulbosum 'Variegatum'</i>
	47	White Oak	<i>Quercus alba</i>		47	White Oak	<i>Quercus alba</i>
	74	Willow Oak	<i>Quercus phellos</i>		74	Willow Oak	<i>Quercus phellos</i>

PLANTING PLAN LEGEND