UF UNIVERSITY of FIORIDA

Introduction to the Problem

The landscape around campus informs visitors and potential new students first impression when they walk on campus. It currently lacks cohesion, needs to be updated for safety, and could be better connected to the natural resources around campus. Updating the landscape will benefit current students, alumni, and future students, as well as faculty and staff.

Background Information

The University has created a Master Plan that outlines the design principles that all UF Landscapes should follow.

1.Greet Gainesville with a More Welcoming and Integrated Urban Experience

2.Redesign Campus Roadways to Support and Encourage All Modes of Travel

3. Integrate All New Campus Projects into the Campus Fabric, Advancing Pedestrian and Bike Connections and Campus Spaces

4.Celebrate the Ecological Setting of the Campus, Embracing Sustainable Goals and LID Practices

5.Reflect UF's Ecological Setting in its Plant Materials, Promoting Simplicity and Maintainability in Planting Design

6.Unify the Campus with Comprehensive Standards for Hardscape and Furnishings¹

These design principles will push the landscape towards the campus landscape vision, also laid out in the master plan, which is a welcoming and interconnected campus with a strengthened core, that is connected to its natural systems and has a cohesive image.

The master plan features 13 priority projects that demonstrate how these design principles are used to create this vision for the campus.

A landscape audit instrument is a tool to use when preforming an audit that will insure consistent results every time

Hypothesis

Creating a landscape audit instrument will simplify the process of connecting the current landscape to the goals of the Landscape Master Plan.

Acknowledgments

Faculty Advisor: Dr. Gail Hansen

Roadw

Bench Low br walls Streetli Small Large ti Sidewa Turf Picnic Tables Shurbs Planting beds Brick ta Pavers Statue Bike ra Limesto boulder Water drainag area Parking Road b >50% Hardsca

The first step was collecting data of what currently exists in the landscapes of the 13 priority project sites. This data was placed into the matrix which highlighted which items were most common and which were rare occurrences. This matrix was used to write questions which were used to create the landscape audit instrument. The audit instrument was tested in the Reitz Union Lawn east. It was tested multiple times to ensure that the results were consistent, which is important for an audit instrument. After the results were verified, action items were added, based on information from the UF Landscape Master Plan and observations made while doing the audit. These action items give ways to connect the current landscape with the overall vision for the campus.

Next Steps

The Next step for this project would be to test the audit instrument in the other priority project areas with new auditors to see if the results are consistent.



A tool to simplify landscape designs on campus **Bobby Edwards Capstone Project Fall 2020**

Matrix of the Inventory of Each Priority Project Site

							Reitz	Reitz						
	Tigert	Union	Tower	Gator	Newal	Stadium	Union	Union	Stadium Deed	Inner Dood	Emerson	Physics	Reitz Union	Total
D 1		Walk V	Plaza V	Plaza	Gateway N		Lawn E		K0ad N	K0ad	Courtyard	Patnway W	Dropon	# 10
Roadway	X	X	X	X	X	X	N7	X 7	λ	X	N7	X	Χ	10
Bench	X	X	X		X		X	X		X	X			8
Low brick			T 7	N 7	T 7	N 7	N 7		T 7	• 7	X 7			
walls	X		X	X	X	X	X	.	X	X	X	.		9
Streetlights	X	X	X	X	X	X	X	X	X	X	X	X	X	13
Small trees	X	X	X	X	X	X	X	X	X	X	X	X	X	13
Large trees	X	X	X	X	X	X	X	X	X	X	X	X	X	13
Sidewalks	X	X	X	X	X	X	X	X	X	X	X	X	X	13
Turf	X	X	X	X	X	X	X	X		Χ	Χ	X	X	12
Picnic														
Tables	Χ		Χ		Χ		Χ	X	Χ		Χ			8
Shurbs	X	X	X	Χ	Χ	X		X	Χ	Χ	Χ		Χ	11
Planting														
beds	X	X	X	X	Χ	X	X	X		X	X		X	11
Brick tables			X				X							1
Pavers	X	X	X	X	X	X			X	X	X			9
Statue			X	X		X	X				X		X	6
Bike racks	X		X		X		X		X	X	X			6
Limestone														
boulders						X			X	X			X	4
Water														
drainage														
area						X	X							2
Parking area	x					X				X		X	X	5
Road blocks				X					X	-				2
>50%				× x										
Hardscape	X	X	X	X					X	x	X	X	X	9
>50% Turf			<u> </u>	<u></u>	X	X	X	X	-		<u> </u>			4

Methods



Current State of the Landscape in front of the "French Fries"²



Current State of the Dairy Pond¹



Plans for the Reitz Union Lawn East from the Master Plan¹



Plant Suggestion for Waterways from the Master Plan¹

UF Landscape Audit Instrument



Map of the 13 Priority Project Areas used for Data Collection¹



Detailed Plans for the East Reitz Lawn¹





The importance of planning a landscape was very prevalent in this project. Most of the problems in the Reitz Union lawn east landscape could have been avoided with better planning, such as not placing light posts next to trees with a wide canopy and not using plants that present maintenance problems. The survey proved helpful in highlighting areas that need improvement for the landscape to match the overall vision for campus. There are now obvious steps forward for improving safety, connecting the landscape to nature, and improving cohesion.

Works Cited



Completed Landscape Audit Instrument

tem	Results (NA if it does not apply)	Compliance Action Items (opportunity to)	Notes
	Plant		
es (under 12 ft.	12	Add small trees to provide shade to seating areas	Suggested trees: Betula nigra-River Birch Cornus florida-Flowering Dogwood
s (over 12 ft tall)	87	Add additional canopy trees along the edges	Suggested Trees: Quercus virginiana-Live Oak Ulmus Americana-American Elm
ees that are d species	100%		
ant beds	17	Add new plant beds with short plants that won't block the eye level view, especially under trees	Suggested plants that will work in shade under trees: Aspidistra elatior-Cast Iron Plant Cyrtomium falcatum-Holly Fern
t plant species	25	Increase the diversity of plants in the landscape	The majority of these species are in one plant bed, and more diversity is needed elsewhere
ants that are d species	80%	Use plants for appropriate for site conditions and cultural requirements	
vered by turf	50%	Enhance areas for passive recreation such as lawn games, walking, etc.	
ed by plant beds	5%	Increase the number of visually appealing plants by replacing turf and hardscape with plant beds	
ered by pond or retention	30%	Provide a learning opportunity through educational signage	
overed by plants	65%	Add native plants commonly found around north Florida waterways	Plant Suggestions: Muhlenbergia capillaris-Muhly Grass Lyonia lucida-Fetterbush
sive plants	1	Replace invasive plants with natives	This plant was a weed and not intentionally planted.
ocking pedestrian affic	1	Plant smaller shrubs to improve the safety of campus	
ocking vehicular estrians	1	Plant smaller shrubs to improve the safety of campus	
) of tree canopy destrian or safety 5	2	Remove branches to improve night-time visibility and safety	
ent) of plants e maintenance	5%	Simplify the plant material for maintenance	
of plant material ts in adjacent areas	85%	Unify the landscape with surrounding landscapes under a single vision	
appropriate for tions	3	Use plants appropriate for site conditions and cultural requirements	
t appropriate for pace	NA		
	Hard	Surface	
vered by nard es	15%		
ce designated for nicles	10%		
ces designated for ans	90%		
a covered by avers	10%	Add new pavers to different areas to improve the aesthetics of the walkway	
ee grates	NA	Densis suchs and make all array ADA	
ed	2	accessible	
r asphalt areas to red	22	Repair cracks in the sidewalk and asphalt	More areas had smaller cracks, but 22 were safety hazards
	Other	reatures	The Oak trees in front of the "French
memorials, and ant points	2	Remove trees or shrubs that block the views of significant points from the majority of pedestrians	fries" statue block the view of the statue from anywhere in the Reitz Union Lawn
one boulders	6	Add more boulders to add variety to the landscape	
ght posts	23	Correct mismatched light posts to create a cohesive image	The majority are the traditional light pole that is in the master plan, so the others should be changed to match
penches	1	Increase the number of benches	
tables	16	Increase the areas where students can eat and gather outdoors	
ater collection eek, pond, etc.)	1	Add educational signage for learning opportunities around the pound	

Take Home Message

. CRJA-IBI Group, GAI Community Solutions Group, DRMP, Inc, The University Of Florida Landscape Master Plan Report October 2018

2. David Conner and Associates, Reitz Union Lawn Planning Study: Observations & Study of a Major Campus Amenity, University of Florida, August 2014