

UF | UNIVERSITY *of* FLORIDA

SITES



Newell Gateway

Documentation

Project ID: 13740

Introduction

The Newell Gateway is one of thirteen Priority Projects within the University of Florida's Landscape Master Plan selected for their contribution to the University's pursuit of preeminence, either through their transformative design or through their establishment of an important campus standard. The Landscape Master Plan proposes a unified family of gateways to present a welcoming face to campus visitors. The proposed primary pedestrian gateway is incorporated here at the intersection of Newell Drive and West University Avenue to convey Newell Drive's conversion to a pedestrian way and to welcome pedestrians into the campus. The gateway also frames one of the most appealing long views of the eastern most historic portion of campus. Coordination with the City of Gainesville to rethink the pedestrian crossings along West University Avenue has informed the design of the gateway in an effort to promote pedestrian safety and the use of the improved future pedestrian crossing. The redevelopment of the existing UF's Newell Gateway aligns with the SITES Guiding Principles. A few examples are listed below.

Do no harm.

The design and construction of Newell Gateway considers the surrounding environment. For example, silt fencing is provided to reduce the movement of sediment into stormwater drains of adjacent roadways.

Apply the precautionary principle.

The project considers human and environmental health by identifying the campus as tobacco free.

Design with nature and culture.

The project considers the regional context with gateway details and materials that reinforce the historical Gothic architecture of the eastern portion of campus.

Use a decision-making hierarchy of preservation, conservation, and regeneration.

The project considers the historical landscape with the preservation of most of the native trees existing on site prior to redevelopment.

Provide regenerative systems as intergenerational equity.

The project is designed to be constructed in a sustainable manner and with sustainable maintenance and operation practices to provide a campus that can be enjoyed by many generations of future students, faculty and alumni.

Support a living process.

The project maintenance and operations can continue to adapt to the changing demographics of the University by implementing accessible walkways that support multiple levels of mobility. Landscape materials and water regimes can be adjusted for drought and wet conditions.

Use a systems thinking approach.

The project reflects a systems approach to stormwater by retaining stormwater on site by creating rain garden amenities which allow for viewing native plants. Stormwater captured on site percolates and infiltrates into soils to recharge subgrade aquifer systems.

Use a collaborative and ethical approach.

The project encouraged direct and open communication by holding collaborative design and construction meetings and work sessions among colleagues, clients, manufacturers, and users to link long-term sustainability with ethical responsibility.

Maintain integrity in leadership and research.

The project design and construction meetings were conducted in a transparent, highly participatory process with a variety of stakeholders, consultants and contractors.

Foster environmental stewardship.

The site's redevelopment and management foster an ethic of environmental stewardship. For example, irrigation utilizes reclaimed water and irrigation for trees are temporary with watering discontinued after a three year establishment period.

The design and construction of Newell Gateway considers SITES Goals. A few examples are listed below.

Create Regenerative Systems and Foster Resiliency

The project protects natural resources like vegetation by preserving existing native trees on site. The project also fosters resiliency by using reclaimed water for irrigation which reduces pressure on potable water supplies from aquifer, groundwater sources.

Ensure Future Resource Supply and Mitigate Climate Change

The project helps minimize greenhouse gases by creating a pedestrian and bicycle friendly gateway .

Transform the Market through Design, Development, and Maintenance Practices

The project fosters leadership in the construction industry by advocating for sustainable practices by construction material suppliers, construction techniques and maintenance operations.

Enhance Human Well-Being and Strengthen Community

The project helps humans reconnect to nature by providing walks shaded by native canopy trees that support native birds and other wildlife.

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SECTION 1: SITE CONTEXT

PREREQUISITE	TITLE	POINTS
Context P1.1	Limit development on farmland	Required
Context P1.2	Protect floodplain functions	Required
Context P1.3	Conserve aquatic ecosystems	Required
Context P1.4	Conserve habitats for threatened and endangered species	Required
CREDIT	TITLE	POINTS
Context C1.5	Redevelop degraded sites	3 points
Context C1.6	Locate projects within existing developed areas	4 points
Context C1.7	Connect to multi-modal transit networks	3 points

PREREQUISITE 1.1 | LIMIT DEVELOPMENT ON FARMLAND

Case 1: Sites without farmland soils

The 0.575-acre (25,038 SF) project site slated for development does not contain soils defined by the NRCS as prime farmland, unique farmland, or farmland of statewide or local importance. Because of this, there are no additional requirements. Additionally, the site is not located in an area designated by the municipality, county, or state as an agricultural conservation or rural conservation zone, and at least 75 percent of the site area has been altered by preexisting paving, construction or land use, making it a previously developed site.

Soil Map Unit Composition

Source: USDA Natural Resources Conservation Service (NRCS)

Symbol 45 — Urban land-Millhopper complex

- Urban land: 60 percent
- Millhopper and similar soils: 35 percent
- Minor components: 5 percent
 - Lochloosa: 2 percent
 - Arredondo: 2 percent
 - Sparr: 1 percent

- Estimates are based on observations, descriptions, and transects of the map unit.

Typical profile

Source: GSE Engineering & Consulting, Inc. Geotech Report

- 3 to 5 feet depth: Gray and brown SAND with silt
- 7.5 to 8 feet depth: Dark brown SAND with silt



MAP LEGEND

Area of Interest (AOI)	Transportation
Area of Interest (AOI)	Rails
Soils	Interstate Highways
Soil Map Unit Polygons	US Routes
Soil Map Unit Lines	Major Roads
Soil Map Unit Points	Local Roads
	Site Project Boundary

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

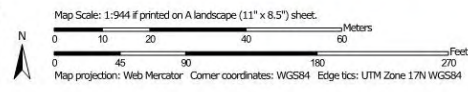
This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alachua County, Florida
 Survey Area Data: Version 21, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 20, 2019—Jan 1, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

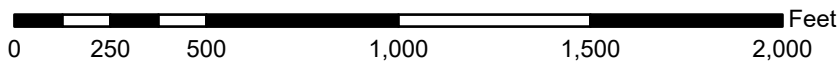
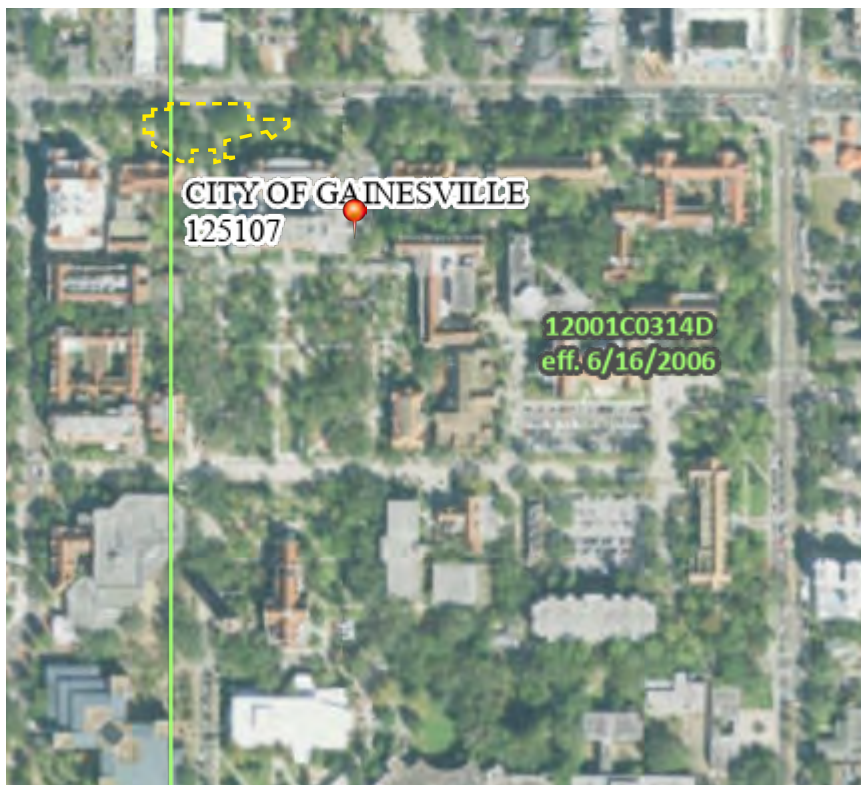


PREREQUISITE 1.2 | PROTECT FLOODPLAIN FUNCTIONS

Case 1: Sites without floodplain

According to FEMA, the project site slated for development is located in zone X (area of minimal flood hazard). The site does not contain land within the 100-year floodplain. There are no additional requirements.

Source: Federal Emergency Management Agency (FEMA)



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/7/2020 at 4:54 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Site Project Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

PREREQUISITE 1.3 | CONSERVE AQUATIC ECOSYSTEMS

Case 1: Sites without aquatic ecosystems

The project site slated for development does not contain aquatic ecosystems or isolated wetlands. There are no additional requirements.









Source: U.S. Fish and Wildlife Service National Wetlands Inventory Map



MAP LEGEND

December 8, 2020

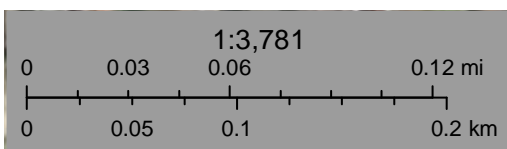
Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland
-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Lake
-  Other
-  Riverine

 Site Project Boundary

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



PREREQUISITE 1.4 | CONSERVE HABITATS FOR THREATENED AND ENDANGERED SPECIES

Case 1: Brownfields and previously developed sites

The 25,038 SF site is previously developed and is in the range of potential habitats for any plant or animal species on U.S. federal or state threatened or endangered lists or on the International Union for Conservation of Nature (IUCN) “Red List of Threatened Species” as critically endangered (CR) or endangered (EN). There is potential for the site to be utilized as foraging habitat by the following threatened or endangered plant and animal species:

- Southern fox squirrel (*Sciurus niger shermani*)
- Sandhill cranes (*Grus canadensis pratensis*)

Refer to letter on following page.



Orlando Office
618 East South Street
Suite 700
Orlando, Florida 32801

T 407.423.8398
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January 11, 2021
[revised May 25, 2023](#)

UF-656 – Landscape Master Plan Implementation

Mr. Dustin Stephany
University of Florida
245 Gale Lemerand
PO Box 115050
Gainesville, FL 32611-5050

Newell Entry – Habitat Assessment
Prerequisite 1.4 | Conserve habitats for threatened and endangered species

Dear Mr. Stephany:

The Newell Entry project area located within the historic district of the University of Florida campus includes surface improvements to implement gateway standards put forward in the UF Landscape Master Plan in coordination with pedestrian infrastructure improvements being undertaken along University Avenue. The existing site has been previously developed and is an urban environment with a significant tree canopy. The Newell Entry has a variety of native and ornamental trees, shrubs and groundcover.

The tree species include:

1. *Lagerstromia spp.*
2. *Magnolia grandiflora 'D. D. Blanchard'*
3. *Quercus virginiana*
4. *Sabal palmetto*

Shrubs consist primarily of ornamentals like *Rhododendron indica* and the turfed areas consist primarily of *Zoysia japonica*.

The site is characterized by urban conditions and does not include natural areas or identifiable nesting habitat for threatened or endangered plant and animal species.

There is potential for the site to be utilized as foraging habitat by the following threatened or endangered plant and animal species:

- Southern fox squirrel (*Sciurus niger niger*)
- Sandhill cranes (*Grus canadensis pratensis*)

[Southern fox squirrels \(previously classified as Sherman's fox squirrel\) typically inhabit open, fire-maintained longleaf pine, turkey oak, sandhills, and pine flatwoods communities. These habitats do not occur at the Newell Entry. There is the potential for this species to occasionally forage within the site if its home territory was within close proximity.](#)

There would need to be native habitat nearby for the fox squirrels as they would not typically travel far from their home range to feed. There is a more likely potential for foraging by sandhill cranes, particularly prior to nesting, or once the colts fledge. [Florida sandhill cranes rely on shallow marshes larger than 5 acres in area for nesting and roosting, and open upland and wetland habitats for foraging \(with vegetation <20 inches high\). The nesting and roosting habitat does not occur at the Newell Entry.](#) The actual potential for these areas to be utilized for foraging by these species would be reduced given the amount of vehicular and pedestrian traffic in the area.

Don J Silverberg, MS, PWS, GTA
January 11, 2021
UF-656 – Landscape Master Plan Implementation

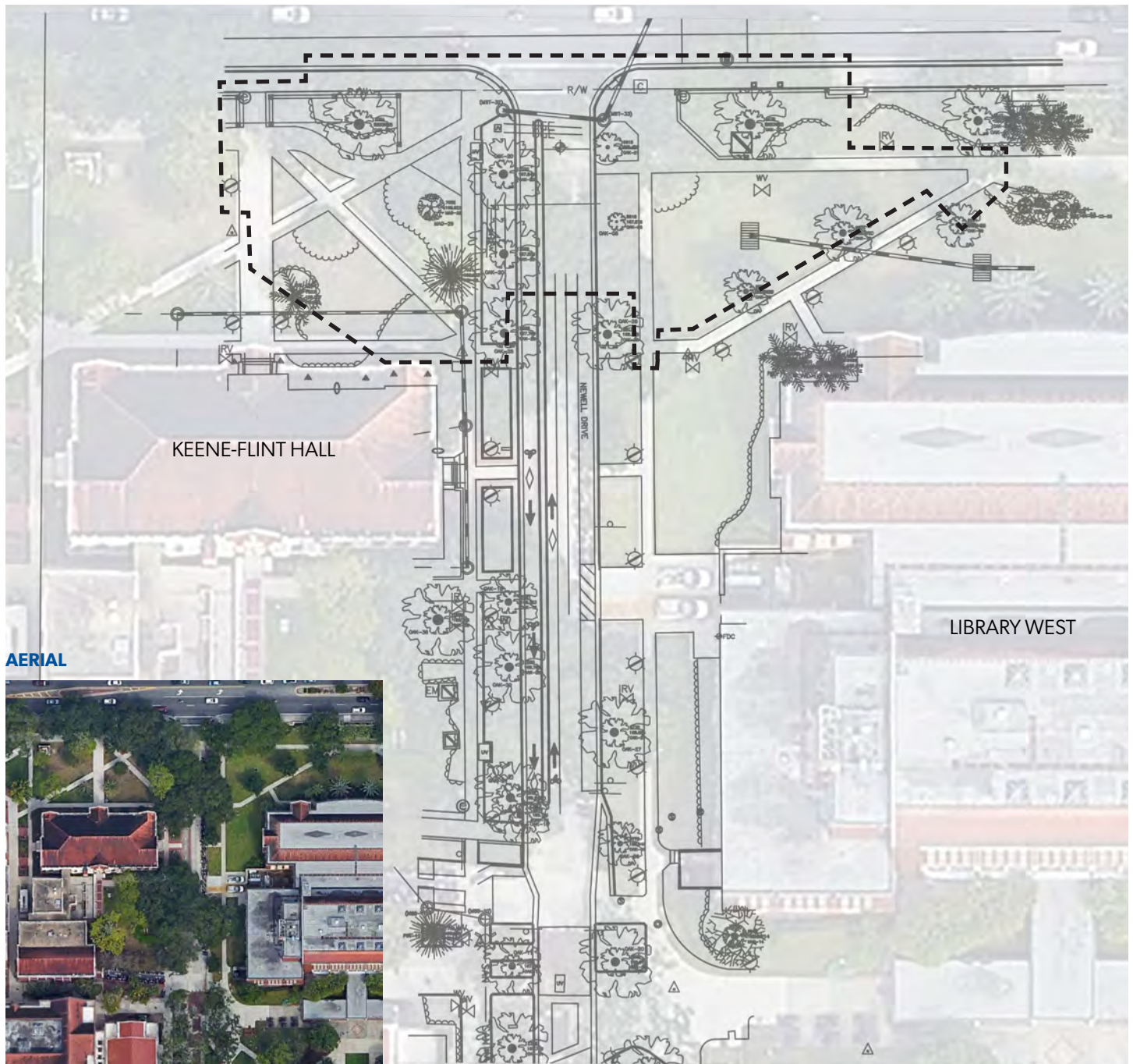
Don J Silverberg, MS, PWS, GTA
Environmental Manager

CREDIT 1.5 | REDEVELOP DEGRADED SITES

Case 1: Previously developed sites

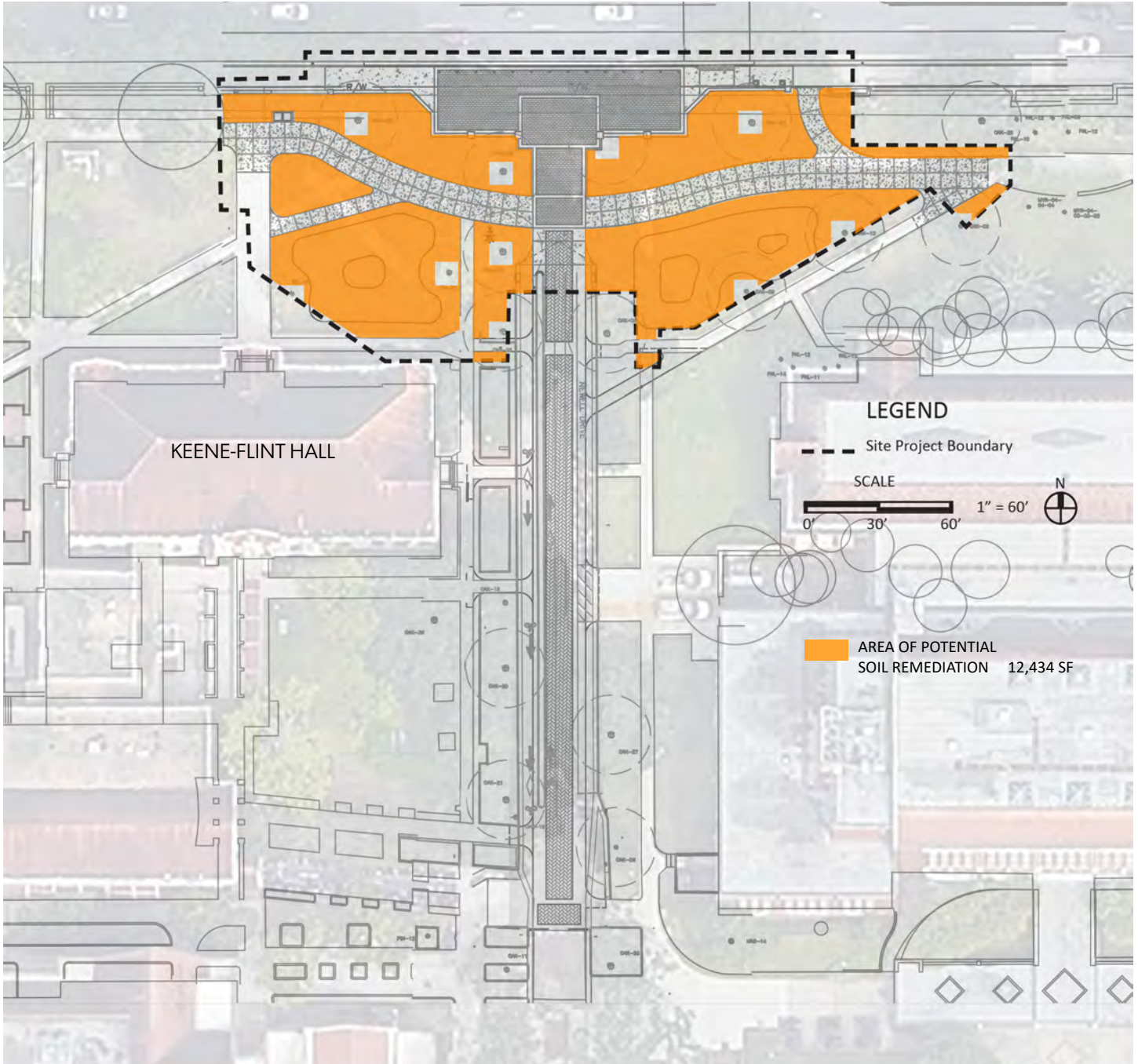
Goal: 3 points

Newell Entry qualifies for Context C1.5 Case 1 due to its classification as a previously developed site. The purpose of this map is to show that 100% of this site has been previously developed and the existing materials on site. The University of Florida dates back to 1853 and has been redeveloped many times throughout the years. The previous development on site includes concrete walkways, bicycle lanes, and a road for connectivity to on campus facilities. For this site there are no areas without major development-related disturbance.



SOIL REMEDIATION

With Newell Entry's previous development, the site contains disturbed soils. The area in orange outlines the disturbed areas which will remain unpaved following completion of construction, existing paving will be removed and the underlying soil will be remediated. Areas of sod that are not disturbed during construction will not have underlying soil remediated.



Historical Photos



UF Campus Circa 1971



Plaza of the Americas/ Library West

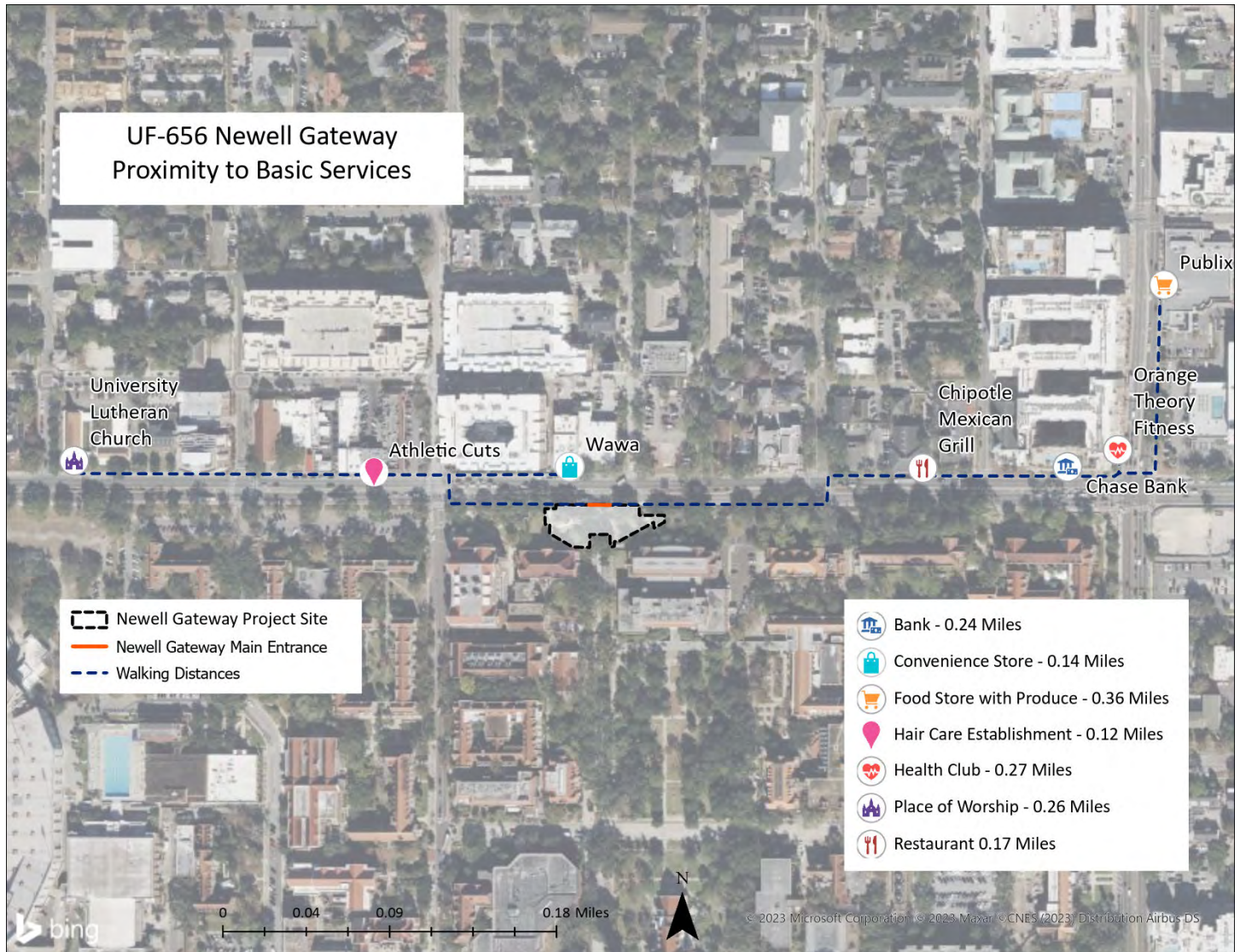


Keene-Flint Hall 1940's

CREDIT 1.6 | LOCATE PROJECTS WITHIN EXISTING DEVELOPED AREAS

Vicinity Map and Site Plan

Goal: 4 points



Project Site is located within 500 feet of existing water and waste water infrastructure.
 The above listed services are accessible to the public and are not restricted to campus occupants.

CREDIT 1.7 | CONNECT TO MULTI-MODAL TRANSIT NETWORKS

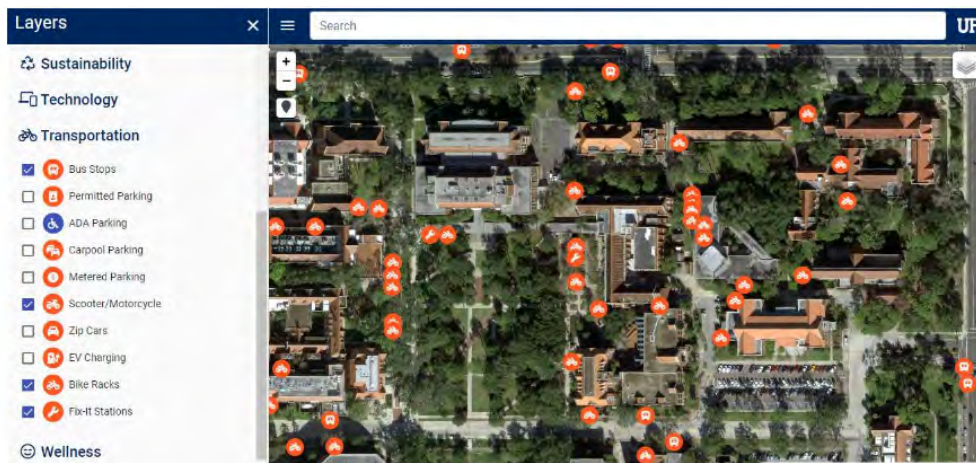
Transit Network

Goal: 3 points

Newell Entry qualifies for Context C1.7 Option 2. RTS Public Transit provides an accessible service for public transit across Gainesville and has created a 10 year Transit Development Plan (TDP) which details the transit agency’s vision for public transportation, an evaluation of transit needs in the area and a plan to prioritize and implement future improvements. Depending on the bus route, the average user can utilize the RTS every 30 minutes throughout the weekdays and weekends (See schedules on following pages). This gateway project acts as a main entrance to the University of Florida and is never physically closed to site users. However, after looking at various UF event calendars (Student Involvement, O’Connell Center, Rec Sports, and Reitz Union) it is clear that the current bus times meet the needs of users as the University itself does not have public events that run past 12:00am.

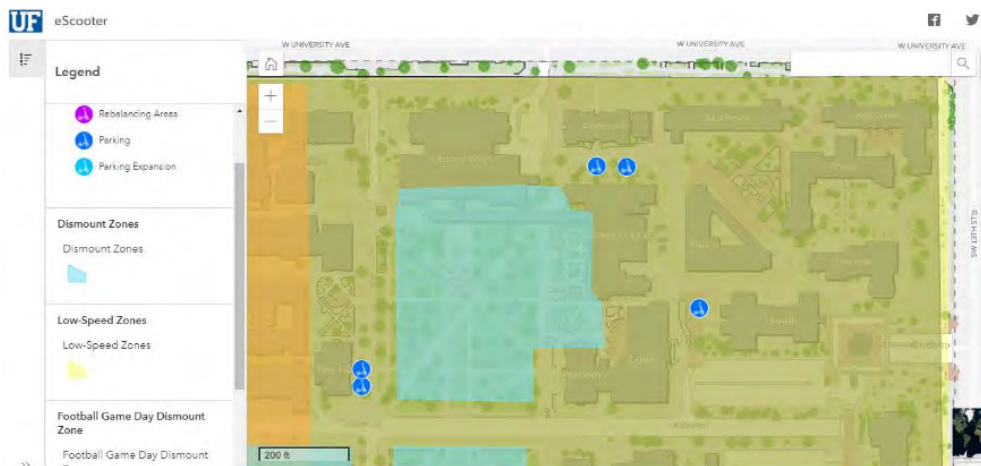
Additionally, it is important to note how proactive the University is at providing transportation to site users while improving health, safety and reducing pollution.

Large events such as sports competitions and graduation ceremonies include free transits across campus to and from the event. There are continuous crosswalks around the gateways and throughout campus. The gateway connects to bicycle network. All roads have shared bicycle lanes and the speed limit on campus is 20 MPH. The historic district includes many bicycle racks.

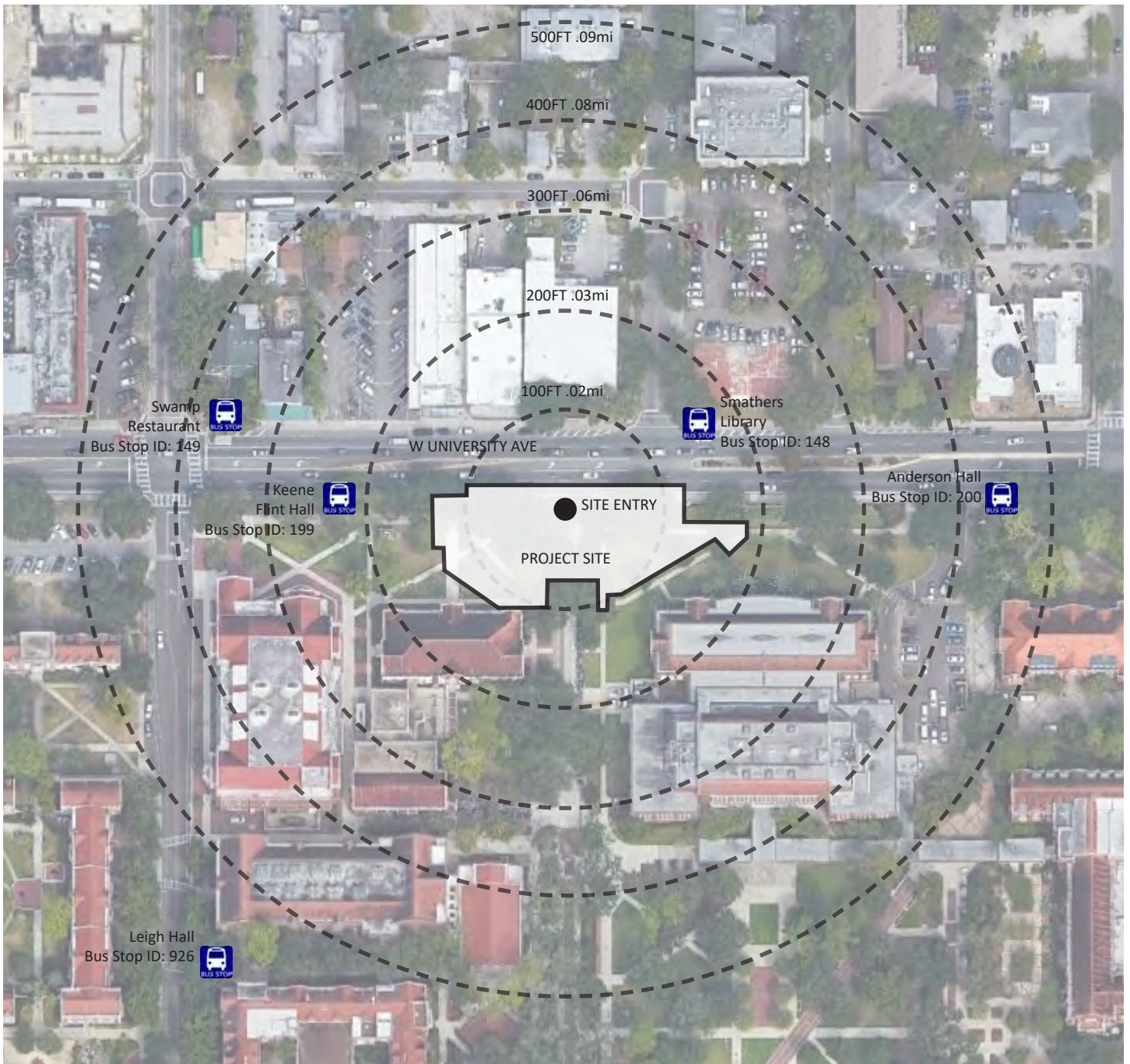


Additionally, for late night, the Student Nighttime Auxiliary Patrol (SNAP) services are available and will pick up at this location and transport site users to a desired location.

Lastly, the gateway project is less than 0.25 miles from e-scooter micro mobility station. This program is very helpful for other universities and cities to meet this credit intent.



SECTION 1: SITE CONTEXT

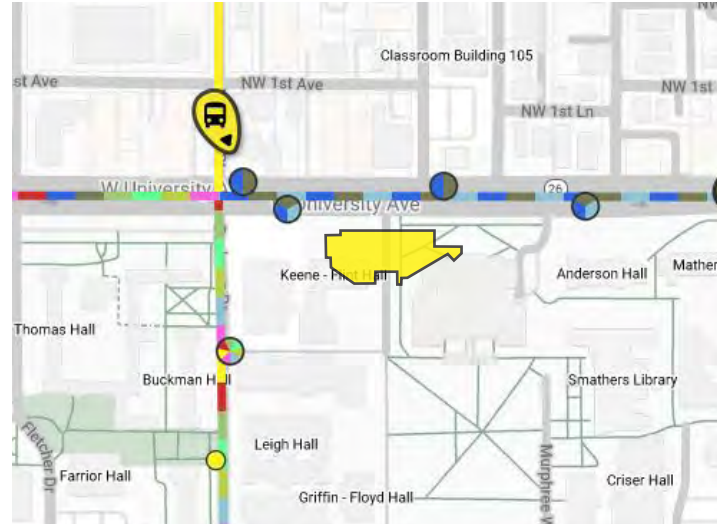


Total Number of site users: 120

Bus Route

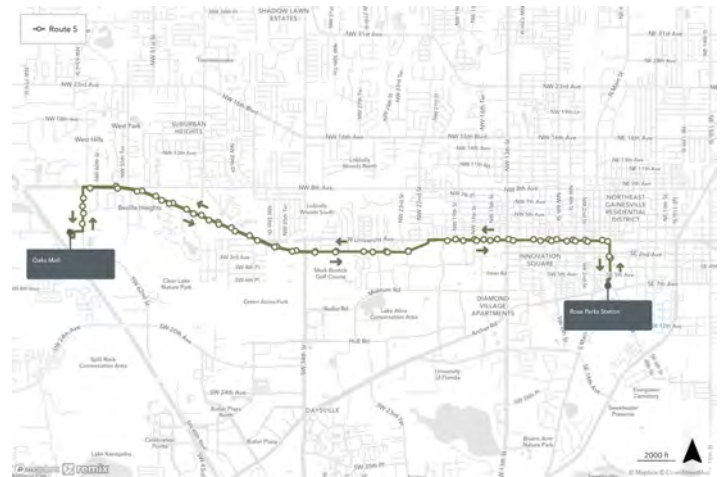
- Leigh Hall - 28 33 34 40 118 119 122
- Keene Flint Hall - 5 33 43 302 303
- Smathers Hall - 5 43 302 303
- Anderson Hall - 5 33 43 302 303
- Swamp Restaurant - 5 43 302 303

Bus Routes Map



Route 5 Rosa Parks Transfer Station to Oaks Mall

- First run starts: 6am
- Last run finishes: 2am



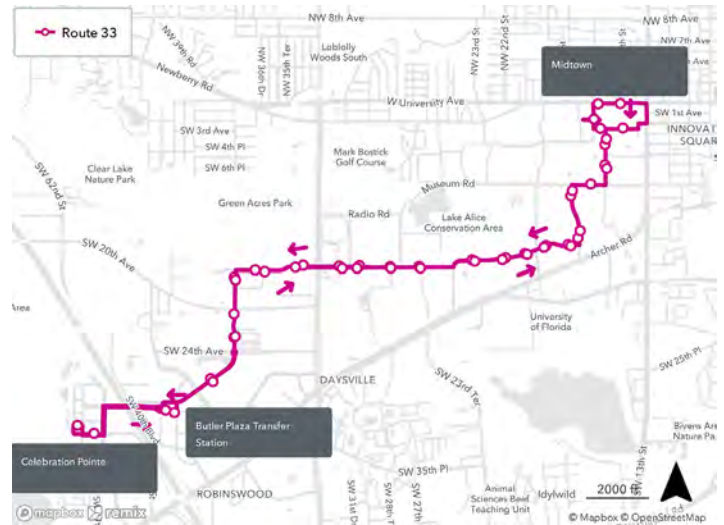
Route 28 The Hub to Butler Plaza Transfer Station

- First run starts: 7:44am
- Last run finishes: 6:12pm



Route 33 Celebration Pointe to Midtown

- First run starts: 7:21am
- Last run finishes: 5:45pm



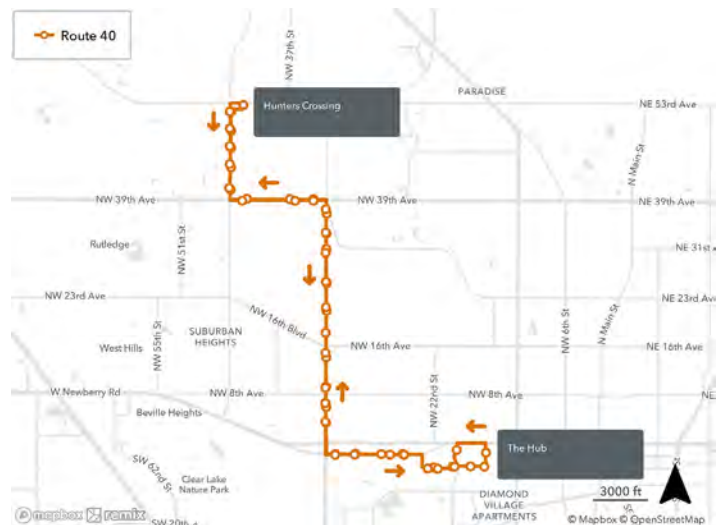
Route 34 The Hub to Lexington Crossing

- First run starts: 6:45am
- Last run finishes: 1:04pm



Route 40 The Hub to Hunters Crossing

- First run starts: 6:54am
- Last run finishes: 6:12pm



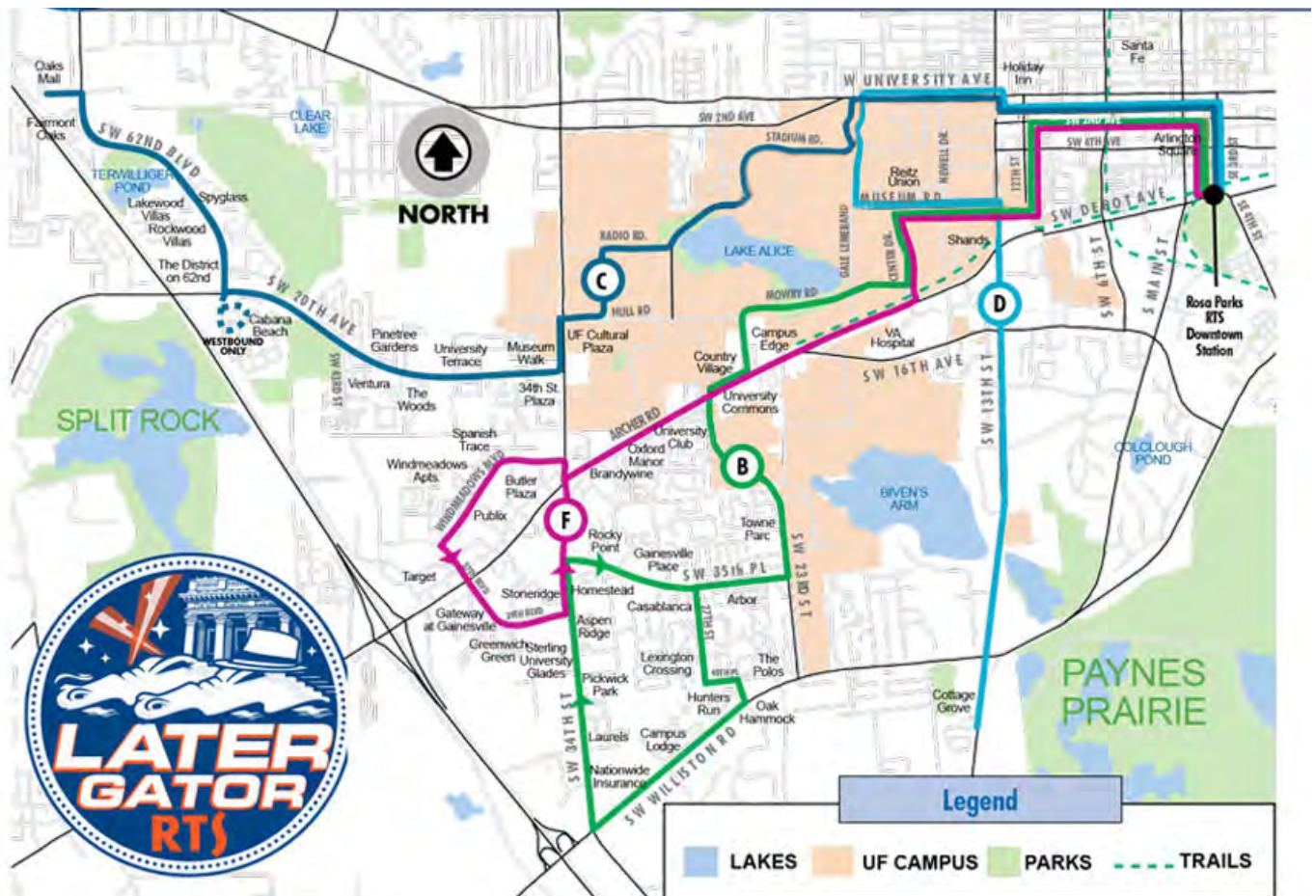
Route 122 UF North/South Circulator

- First run starts: 7:37am
- Last run finishes: 5:05pm



Routes 302 & 303

- First run starts: 8:30pm
- Last run finishes: 3am
- First run starts: 8:45pm
- Last run finishes: 2:45am



SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

PREREQUISITE	TITLE	POINTS
Pre-Design P2.1	Use an integrative design process	Required
Pre-Design P2.2	Conduct a pre-design site assessment	Required
Pre-Design P2.3	Designate and communicate Vegetation and Soil Protection Zones (VSPZs)	Required
CREDIT	TITLE	POINTS
Pre-Design P2.4	Engage users and stakeholders	3 points

PREREQUISITE 2.1 | USE AN INTEGRATIVE DESIGN PROCESS

1. Integrated Design Team

This table identifies the integrated design team including the owner and professionals knowledgeable in design, construction, maintenance, sustainable practices, vegetation, water, soils, landscape ecology, materials, and human health and well-being.

Signatures from all team members are included in the table who:

- participated in the collaborative communication process,
- participated in the development of the site maintenance plan,
- and participated in the site assessment and relevant discussions.




Each one of the individuals identified below has been directly and intimately involved in the Newell Gateway project. Included in the list below are the landscape architects who created the design concepts as a part of the University's Campus Landscape Master Plan; the team of consultant landscape architects, engineers and architects who created the contract documents to execute the design; UF planners, UF support staff, and faculty; and the construction managers and their subcontractors who executed the work.

- Cydney McGlothlin is the University of Florida University Architect. Cydney guides projects through the multi-layered University approval process and works with the UF Planning, Design, & Construction team to ensure compliance with campus design guidelines and other standards.
- Linda Dixon is the Director of Planning at UF. She is responsible for approving and integrating projects into the Campus Master Plan and the Campus Landscape Master Plan at the University.
- Frank Javaheri is the Director of Construction for UF's Department of Planning, Design, & Construction. He currently oversees all major campus projects, assisting the individual UF project managers and guiding projects to completion. Frank has been actively involved in the design and construction process of the Newell Gateway project.
- Melanie Heflin has over thirty years of in experience in construction. Melanie works as the Newell Gateway UF Project Manager who is responsible for directing the design and construction team to execute the project within budget and scope.
- Dustin Stephany has a wide range of experience in engineering and construction management, as well as building operations and maintenance. As the University's Sustainable Building Coordinator, he provides guidance, direction and input into all campus LEED and SITES projects.
- Tina Gurucharri is the recently retired Chair of the University of Florida Department of Landscape Architecture.
- Dan Manley is the current interim Chair of the Department of Landscaped Architecture at UF. Dan coordinated a design charrette between the design team and UF landscape architecture students.
- Tom Schlick is the Assistant Director of Facilities Services, Grounds and Natural Resources, responsible for grounds operations, maintenance and scheduling along with construction support services to the campus community.
- Donna Bloomfield is the UF landscape and grounds superintendent providing maintenance plans and guiding activities to enhance the appearance, operation and functional life of the UF campus landscapes.
- Elizabeth McAlister is a project engineer with the University of Florida with experience in utilities and energy services. Elizabeth assisted throughout the project providing guidance to the consultant team's engineers.
- Scott Fox is the University's Director of Transportation and Parking where he is responsible for a wide range of transportation entities including garage and lot maintenance, incorporation of alternative transportation methods, review of planned University projects and their parking impacts, and management of the budget for these services.
- Joe Souza is UF's Director of Physical Security where he manages and improves security systems by implementing new security technology throughout the campus some of which will be implemented with this project.
- Wade Maclaren is Assistant Director of Operations Support Services for the Physical Plant at UF. Wade oversees maintenance projects to ensure high quality facilities.

SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

- Rachel Mandell works as the university's Senior Planner. Rachel's primary objectives are to monitor the implementation of the Campus Master Plan and assist in the long-range planning efforts that guide the land use and landscape of the university.
- Andrew Meeker is a landscape architect and was previously with the City of Gainesville Community Redevelopment Agency, serving as a bridge between the campus and the City.
- Frank Bellomo is a landscape architect with over 40 years of experience on a variety of project types including extensive campus projects. He served as a landscape architect for the UF Campus Landscape Master Plan and is the Principal-in-Charge of the Newell Gateway and is responsible for the successful delivery of the project.
- Sheeba West is a landscape architect and certified arborist who has been responsible for the delivery of complex projects in the public and private sector for over 20 years including projects on the UF campus.
- Donald Wishart is registered landscape architect and Distinguished Alumnus of the UF Department of Landscape Architecture. Donald provided significant input into the final design direction of the project.
- Andrea Penuela is a landscape architect and graduate of UF who provides design, presentation graphics and production assistance on projects of varying scales and complexities. Andrea served on the project team for Newell Gateway, assisting with document production and presentation graphics.
- Ian Molgaard is a landscape designer who assists with document production as well as providing high quality graphics on numerous projects for GAI Consultants. Ian assisted with the UF Campus Landscape Master Plan and has been the key team member in the completion of the SITES documentation.
- Chris Jones is a principal landscape architect with IBI Placemaking. Chris served as Principal-in-Charge on the UF Campus Landscape Master Plan where the concept designs for the Newell Gateway project were developed. He also provided design oversight to the team as the concept designs were advanced.
- Jaime Igua is a civil engineer and project manager with VHB, responsible for the design of the project drainage, grading and utilities.
- Leonard Sprague is a civil engineer with 20 years of experience on a variety of project types with a particular area of expertise in stormwater management design and hydraulics.
- Shawn Steers is a project engineer with VHB and assisted with all aspects of the infrastructure components of the project.
- Nat Grier is the national practice leader of Campus Transportation with VHB. Nat completed the UF Transportation Master Plan and coordinated during the development of the Campus Landscape Master Plan. He also assisted with transportation issues on the Newell Gateway project.
- Andrew Mitchell is an electrical engineer and President of Mitchell Gullede Engineering with a long history of projects on the UF campus.
- Peter Rizov is an electrical engineer who was responsible for the design of the electrical and lighting systems for the project. Peter also has extensive UF campus design experience.
- Elisabeth Manley is a landscape architect with over 20 years of experience. Located in Gainesville, her expertise in construction documentation and construction administration services allowed her to assist through the construction phase of the project, interfacing with the design team, UF and the construction manager.
- Jennifer Lyons has over 15 years in construction management in the Gainesville/Alachua County area. Jennifer is leading the construction team for CPPI for the Newell Gateway. Jennifer also has taken an active role in the SITES certification and documentation processes.
- Darrel Pons oversees UF campus maintenance crews to achieve a healthy and aesthetic image of the grounds at the University of Florida.
- Craig Hill serves as Associate Vice President in Business Affairs, Craig is responsible for the strategic leadership and direction of multiple transportation and parking services.

Integrate Design Team

<u>Name</u>	<u>Representing</u>	<u>Expertise</u>	<u>Role</u>	<u>Signature</u>
Melanie Heflin	UF PDC	Construction, Maintenance	Project Manager	
Cydney McGlothlin	UF PDC	Architecture, Maintenance	University Architect	
Linda Dixon	UF PDC	Planning, Maintenance	Director of Planning	
Donna Bloomfield	UF Facilities	Grounds, Maintenance	Grounds Superintendent	
Tom Schlick	UF Facilities	Facilities, Maintenance, Vegetation, Soils	Ass't. Director, Facilities Services	
Scott Fox	UF TAPS	Transp. & Parking, Maintenance	Transp. & Parking	
Dustin Stephany	UF PDC	Sustainability, Maintenance, Human Health and Well-being	Sustainability Coordinator	
Joe Souza	UF Security	Security, Maintenance	Director of Security	
Wade Maclaren	UF Facilities	Physical Plant, Maintenance	Ass't. Director, Physical Plant	
Craig Hill	UF Business Affairs	Finance, Maintenance	Finance	RETIRED
Frank Bellomo	GAI	Landscape Architecture, Design, Vegetation, Human Health and Well-being	Landscape Architect	

SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

Name	Representing	Expertise	Role	Signature
Donald Wishart	GAI	Landscape Architecture, Design, Vegetation, Human Health and Well-being	Landscape Architect	<i>DONALD WISHART</i>
Sheeba West	GAI	Landscape Architecture, Design, Vegetation, Landscape Ecology, Human Health and Well-being	Landscape Architect	<i>Sheeba West</i>
Andrea Penuela	GAI	Landscape Architecture, Design, Vegetation, Human Health and Well-being	Landscape Designer	<i>Andrea Penuela</i>
Chris Jones	IBI	Landscape Architecture, Design, Vegetation, Human Health and Well-being	Landscape Architect	<i>Chris Jones</i>
Jason O'Brian	Walker Architects	Architecture, Design	Architect and Project Manager	<i>JOB</i>
Jaime Igua	VHB	Civil Engineering, Design, Hydrology	Civil Engineer	<i>Jaime Igua</i>
Andrew Mitchell	Mitchell Gulledge	MEP Engineering, Design, Materials	MEP	<i>Andrew Mitchell</i>
Peter Rizov	Mitchell Gulledge	Electrical Engineering, Design	Electrical Engineer	
Tina Gurucharri	UF College of Design	Landscape Architecture, Design, Vegetation, Landscape Ecology, Human Health and Well-being		RETIRED
Leonardo Valencia	VHB	Civil Engineering, Design	Civil Engineer	<i>Leonardo Valencia</i>

SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

<u>Name</u>	<u>Representing</u>	<u>Expertise</u>	<u>Role</u>	<u>Signature</u>
Frank Javaheri	UF Construction	Construction, Design, Maintenance	Director of Construction	<i>Farahmary Javaheri</i>
Rob Hoogeveenn	Certified Irrigation Designs Inc.	Irrigation	Irrigation Designer	<i>Rob Hoogeveenn</i>
Shawn Steers	VHB	Civil Engineering, Design	Civil Engineer	<i>Shawn Steers</i>
Elizabeth McAlister	UF Facilities Serv.	Facilities, Maintenance	Facilities Services	<i>Elizabeth McAlister</i>
Nat Grier	VHB	Civil Engineering, Design	Transportation Engineer	<i>Nathaniel Grier</i>
Elisabeth Manley	Manley Design	Landscape Architect, Vegetation	Construction Oversight	<i>Elisabeth Manley</i>
Jennifer Lyons	CPPI	Construction Management, Construction, Materials	Construction Manager	<i>Nolan Davis</i>

2. Collaborative Communication Process

The Newell Entry project used an integrative design process consisting of a team with a wide range of expertise. The communication process included over a dozen official meetings held virtually on Microsoft Teams. All formal meetings were summarized in minutes which were distributed to the team prior to the following meeting with action items addressed to team members. There were numerous informal meetings also held virtually. Communication was also conducted by phone and email often daily throughout the project timeline. Communication occurred on site visits. Lastly, communication occurred on BIM 360 where plans, specifications and other documents were shared with the team for review and comment. Team members who were primarily responsible for collaborative communication included Melanie Heflin/UF, Dustin Stephany/UF, Frank Bellomo/GAI, and Jennifer Lyons/CPPI.

3. Project Sustainability Principles and Performance Goals

Sustainability principles for the Newell Gateway project mirror those found in the University of Florida Landscape Master Plan (LMP), a document completed in 2018 and adopted by the university. This document should be considered as a supplement document to the 2020-2030 Campus Master Plan, a planning document required by Florida statutes, updated every 5 years. Sustainability principles are found throughout the Campus Master Plan as well as the Campus Landscape Master Plan, whose sustainability principles are directly aligned with the design of the Newell Gateway.

The principles described below provided a sustainability framework for the Landscape Master Plan. Within this framework is proposed a series of gateways, campus entry portals, which are a component part of meeting the University of Florida's goals of providing campus-wide comfortable and attractive entrances which encourage all modes of transportation from pedestrian to bicycle, bus, mass transit and eventually, autonomous modes of travel. As funds become available, individual projects advancing this goal are required to follow the LMP and Campus Master Plan site specific framework. During both the design and construction phases of individual projects, the university's Landscape, Vegetation and Lakes (LVL) committee will be tasked to review compliance with both documents to assure a unified campus approach towards these specific performance measures:

- **(1) educate visitors on sustainable approaches undertaken by UF,**
- **(2) protect and improve campus natural communities,**
- **(3) Minimize campus hardscapes to reduce runoff and heat island gain**
- **(4) increase native landscaping,**
- **(5) promote multi-modal transportation.**

Post construction, the LVL committee, as well as UF's planning department and maintenance staff are all tasked to monitor and verify that these measures are continuously being implemented and maintained. Additionally, as new tools become available, the committee is responsible for updating the LMP to help the university transition standard outdoor areas to more engaging spaces. As UF improves its walkable network, it is poised to become a model for other campuses and communities on how to sustainably develop a sense of place through attractive gateways, walking corridors and outdoor civic spaces.

The following Principles are taken directly from the Landscape Master Plan and are included here as sustainability principles because they intentionally tie the practices implemented at Newell Gateway with the ongoing and future campus projects that will ultimately become impacted by Newell:

LMP Principle 2: Redesign Campus Roadways to Support and Encourage All Modes of Travel

The Newell (Northeast) Gateway project is one of several LMP priority projects that modify campus roadways to support and encourage multi-modes of travel. The Newell Gateway project provides a portal into campus for bicyclists and pedestrians that is connected to off-campus facilities and utilizes a newly constructed signalized intersection with pedestrian crosswalks. This previously dangerous crossing of University Avenue into the campus at Newell has been greatly improved though the installation of the traffic signal, allowing for safe crossing of this busy road. It now more readily encourages not only pedestrian travel, but bicycles

SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

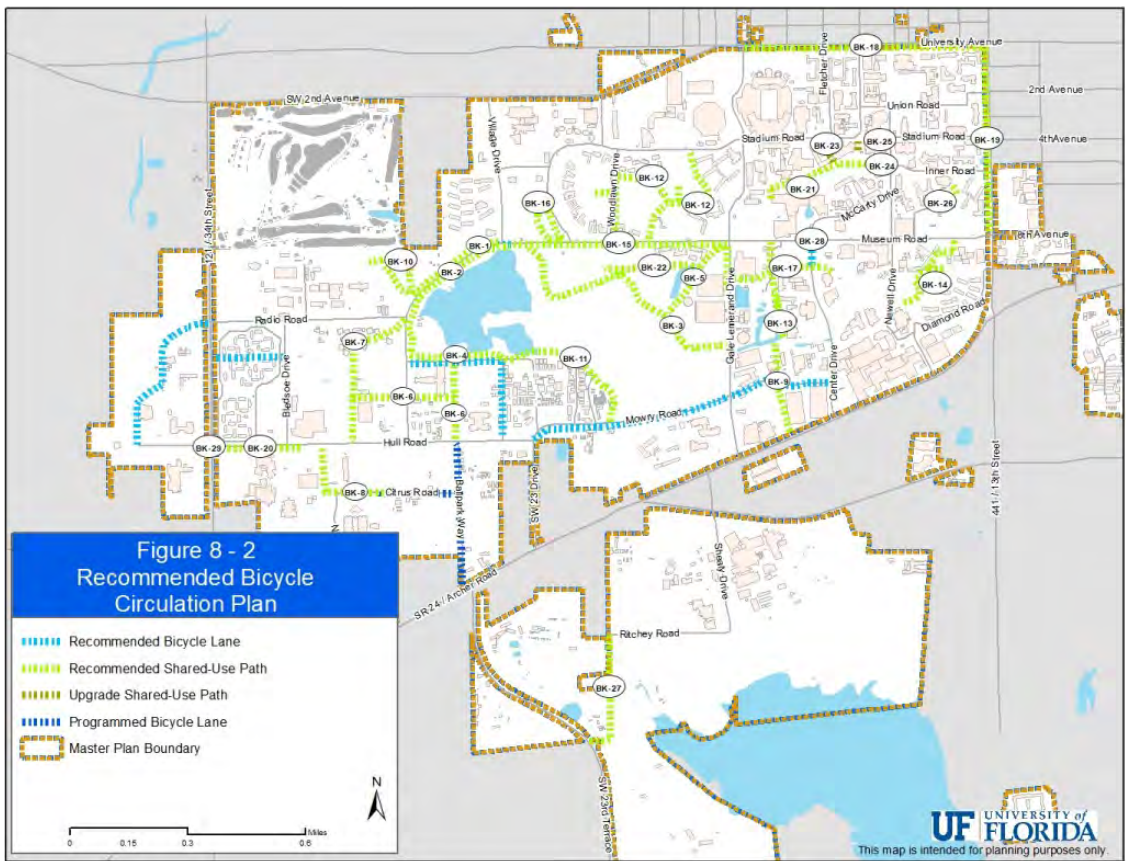
and scooters as well. Immediately upon crossing the Newell Gateway threshold the north/south 20' wide walkway connects to an east/west 16' wide multi-use path. This section of the 16' path within the Newell Gateway project is the first segment of a longer multi-use path intended to extend the length of the campus from its westernmost to easternmost extents and beyond into the surrounding City of Gainesville, encouraging further use by pedestrians, bicycles and scooters.

Timeline:

Short Term: The addition of the signalized intersection at Newell is anticipated to be completed within the next 6 months. Handicap ramps are in place and signal pole foundations have been constructed.

Handicap ramps are in place and signal pole foundations have been constructed.

Long Term: The east/west multi-use path is included in the 10-year improvements noted in the 2020-2030 Campus Master Plan. It is not possible to accurately determine a long-term timeline as all campus projects are subject to state funding sources.



BK-18	Shared-Use Path - University Ave.	West of Gale Lemerand Dr.	SW 13th St.	Construct new and widen existing path on south side of W. University Ave. including removal of some surface parking.
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LMP Principle 3: Integrate All New Campus Projects into the Campus Fabric, Advancing Pedestrian and Bike Connections and Campus Spaces

The Newell Gateway project connects this new pedestrian/bicycle portal with the existing Newell pedestrian/bicycle corridor, Plaza of the Americas and overall campus sidewalk system. As described, a 16' wide multi-use trail was provided in the east-west direction to integrate with a planned multi-use path expansion paralleling the heavily trafficked University Avenue. Landscaping, lighting, and brick gateway features comply with the LMP and integrate with existing landscape features.

The Newell Gateway project closed Newell Drive to vehicular use creating an increase in site users and a decrease in the overall vehicular traffic count. This results in reduced air pollutants, heat island effect and vehicular congestion. Coordinated improvements to the pedestrian crossing at University Avenue between UF, the Florida Department of Transportation and the City of Gainesville has resulted in a significant increase in pedestrian and bicycle traffic, particularly from off-campus to the north. As multimodal transportation continues to evolve the LVL Committee and UF Planning Department will verify the effectiveness of this gateway design and improve upon the LMP.

Timeline:

Short Term: The gateway is complete and the increase in pedestrian and bicycle traffic has been realized. Improvements to the signalized crossing of University Avenue are currently under construction.

Long Term: Sustainability impacts which are a result of the Newell Gateway project go well beyond the reach of the project limits. As a small part of the overall 2000+ acre UF campus the impacts should be understood to be significantly more widespread in reach than this geographically small project area. As previously mentioned, the extension of the first phase of the multi-use path that is a part of the Newell project is likely to take place over the next several years, budgets permitting. There are countless other multi-modal improvements planned throughout the campus, all of which will be impacted by the Newell Gateway project. As an example, construction has just begun on the Inner Road Streetscape, an east/west road which intersects with Newell Drive located south of the Newell Gateway. Widened walks and safer bike/ped crossings will be positively impacted by the increased bike/ped traffic resulting from the Newell Gateway. The Inner Road Streetscape will be completed in approximately one year, but as mentioned, other improvements are planned and indicated in the 2020-2030 Campus Master Plan. Their timing remains budget driven.

LMP Principle 4: Celebrate the Ecological Setting of the Campus, Embracing Sustainable Goals and LID Practices

The Newell Gateway project provides new landscaping with native plants and reclaimed water irrigation. Special care was taken to retain the dense live oak canopy that existed prior to the development of the project, and to augment that canopy with the addition of another newly planted live oak. The live oak, a Florida native tree, is the dominant canopy and signature landscape aesthetic of the University of Florida, and it was critically important to protect these trees, which included locally designated historic trees (over 20" diameter).

As with all campus projects, stormwater drainage is permitted by the State of Florida's Suwannee Water Management District to be collected in pipes and eventually discharged into Lake Alice, the largest water body on campus. The Newell team realized that this direct discharge of runoff, including roadway pollutants, is a less than desirable technique if the intent is to protect the waters of Lake Alice. As a result, it was agreed to create two rain gardens within the Newell Gateway project area. Planted with Florida native Muhley Grass (*Muhlenbergia capillaris*), these rain gardens accept the direct surface runoff, allowing the stormwater to percolate. Constructed with 24" of a specialized soil mix, the rain gardens, a Low Impact Development (LID) approach to handling stormwater, become a natural filtration system for the runoff and is further proof that the university is committed to incorporating sustainable goals and LID practices at this gateway as well as other identified LMP projects. Since this project ties to Lake Alice, the university remains committed to further protecting this watershed by reducing runoff while improving stormwater quality.

Timeline:

Short Term: Currently the LVL committee, planning department, university maintenance staff and other university, city and state personnel are updating the campus stormwater management plan. This plan is anticipated to be finalized in 2024 and will include new detailed projects, policies, and procedures. The LID principles established at Newell Gateway are complete and are operating as designed.

Long Term: Implementation of best practices in sustainability and LID is ongoing here and throughout the campus and will continue at this gateway over time particularly with regards to maintenance practices.

Principle 5: Reflect UF’s Ecological Setting in its Plant Materials, Promoting Simplicity and Maintainability in Planting Design

The Newell Gateway project utilizes the LMP recommended plant list including native species. Invasive species are specifically excluded from the list and are not permitted to be planted on campus. The Newell Gateway plants that were specified were reviewed and approved by the university’s grounds team specialists and the members of the Landscape Vegetation and Lakes Committee. All of the existing oak trees were retained and protected within the project boundaries while necessary tree removals were mitigated with an increased number of trees in the planting plan.

As evidenced by the planting plan, the variety of plant species was intentionally limited. Not including turf only 3 plant species were used: One tree species (Live Oak), 1 shrub (Azalea) and one native grass (Muhley Grass). Shrub and grass plantings were made in masses with flowing bed lines, allowing for ease of maintenance which results in less time performing maintenance and therefore less energy expended, and less fuel.

Timeline:

Short Term: Landscape installations at the Newell Gateway are now complete.

Long Term: Implementation of this principle is ongoing and university staff will monitor the health of existing landscaping at this gateway over time. Any invasive plants will be eradicated by the grounds staff.

Policies and Objectives from the 2020-2030 Campus Master Plan which further sustainability goals for UF and are directly related to the Newell Gateway project are included herein and highlighted:

1. Transportation Element
2. Urban Design Element
3. General Infrastructure Element

Goal 2: Preserve, Maintain and Expand the On-Campus Transportation System to Meet the Needs of Students, Faculty, Staff and Visitors that is Convenient, Safe, Sustainable and Encourages Non-Auto Travel Choices.

Objective 2.1: To provide a roadway network that safely and efficiently accommodates all modes in a comfortable and aesthetically pleasing environment.

Policy 2.1.1: Utilize and refine the roadway design standards depicted in the Landscape Master Plan, and partner with FDOT, City of Gainesville, Alachua County and MTPO to address standards for the Gateway Roads on the campus perimeter based on the roadway hierarchy depicted in Figure 8-1.

Policy 2.1.2: Utilize highway level of service standard “E” for analysis purposes on campus roads, and evaluate the multi-modal quality of service conditions for campus roads to determine an appropriate level of service standard for non-auto modes, if feasible.

Policy 2.1.3: Initiate a routine traffic counting program to include autos, bicycles and pedestrians in coordination with traffic counting programs conducted by FDOT, the City of Gainesville, Alachua County and the MTPO to gather data no less than once every five years.

Policy 2.1.4: Continue to designate speed limits of 20 miles per hour on all university-maintained roadways east of SW 34th Street, and 15 miles per hour within the area north of Museum Road and east of Gale Lemerand Drive.

Policy 2.1.5: Enhance the campus arrival experience by implementing wayfinding signage, intersection improvements, and Landscape Master Plan recommendations for gateways, landscaping, and lighting consistent with Priority Open Space Enhancements and Gateways depicted on Figures 1-5 and 1-6.

Objective 2.2: *To provide pedestrian and bicycle facilities that safely and efficiently accommodate walking and bicycling in a comfortable and aesthetically pleasing environment.*

Policy 2.2.1: Pursue programming, design and implementation of new sidewalk connections as depicted in Figure 8-5 (Table 8-5) and streetscape improvements identified as Priority Open Space Enhancements in Figure 1-5 of the Urban Design Element.

Policy 2.2.2: Pursue programming, design and implementation of bicycle lanes and shared-use paths as depicted in Figure 8-2 (Table 8-6).

Policy 2.2.3: Pursue programming, design and implementation of pedestrian and roadway lighting improvements and continue to review exterior lighting standards in the *University of Florida Design and Construction Standards* for amendment as needed to provide adequate lighting levels and energy efficiency.

Policy 2.2.4: Improve pedestrian/bicycle crossings at SW 13th Street/Museum Road, Inner Road, Museum Road/Sweetwater Drive as depicted on Figures 8-3, 8-9, and 8-10 as well as connections to off-campus neighborhoods.

Policy 2.2.5: New building construction or reconstruction shall respect Pedestrian Connections and Shared-Use Paths identified on Figure 1-4 and strive to enhance these pedestrian and bicycle corridors through building orientation, landscaping and pedestrian amenities.

Policy 2.2.6: Monitor usage and adequacy of existing bicycle parking facilities in terms of quantity, design, lighting, location, security covering, and enhanced amenities (e.g. fix-it stations) and install new or upgraded bicycle parking facilities to correct observed deficiencies.

Objective 2.6: *To maintain or improve outdoor air quality and reduce fuel consumption.*

Policy 2.6.1: The University shall continue implementing an innovative state-of-the-art green fleet policy to encourage purchase of vehicles that are highly fuel-efficient and low emission, use alternative fuels or are non-motorized (e.g. bicycles or Segways).

Policy 2.6.2: The University shall evaluate the use of telecommuting and flexible schedules to reduce the peak hour travel demand and its impact on roads and parking.

Policy 2.6.3: The University shall continue to expand, where appropriate, distance learning and evening class offerings to reduce the peak hour travel demand and its impact on roads and parking.

Policy 2.6.4: Encourage use of environmentally-responsible scooters.

Goal 1: Create and Maintain a Campus that is Welcoming, Easily Navigated, and Attractive.

Objective 1.1: Utilize design standards to create a unified campus appearance with clear connections between different campus regions, disciplines, and partners that welcome and orient campus users and assist them in navigating the campus through coherent visual cues.

Policy 1.1.1: Continue to implement and update as necessary the University of Florida Design and Construction Standards, Landscape Master Plan, and Campus Design Guidelines. These documents apply to all university construction projects including those performed or managed by Facility Services Division, Planning, Design, and Construction Division, IFAS Facilities and Operations Division, Department of Housing and Residence Life, University Athletic Association and on-campus Sororities and Fraternities. These documents include guidelines and standards for architecture, landscaping, hardscaping, lighting, roads, parking, bicycle and pedestrian facilities, interior/exterior signage, irrigation, earthwork, stormwater, utilities and American with Disabilities Act (ADA) Compliance.

Policy 1.1.2: Implement gateway features as depicted on Figure 1-6 according to the Landscape Master Plan standards.

Policy 1.1.3: Implement and refine the roadway and streetscape design standards and guidelines of the Landscape Master Plan.

Policy 1.1.4: The University shall work with the City of Gainesville, Alachua County and the Florida Department of Transportation to improve access and aesthetics on Gateway Roads identified on Figure 1-6 through university participation on the Metropolitan Transportation Planning Organization and its committees, and any special interest groups or local government committees as may be created to address such issues.

Policy 1.1.5: Open space connections as identified on Figure 1-4 and 1-8 (Lake Alice Trails System), shall be maintained and enhanced to provide bicycle and pedestrian access.

Objective 1.3: Utilize landscaping and tree canopy to enhance the campus environment and reflect the University's ecological setting.

Policy 1.3.1: Use trees and other plant materials, exterior furniture, and paving materials to reinforce the spatial organization, create well defined functional open spaces, reinforce clearly defined entrances, enhance existing corridors and campus spaces particularly adjacent to buildings, within the Urban Park future land use classification, and along roadways, pedestrian connections and shared-use paths depicted in Figure 1-4 consistent with principles of the Campus Design Guidelines and Landscape Master Plan.

Policy 1.3.2: Implement appropriate landscape, hardscape, pedestrian, and/or bicycle improvements in areas identified as Open Space Enhancement Priorities in Figure 1-5. These improvements may be implemented as part of a building construction project or as independent projects funded through the Facilities Services Division, other administrative sources, grants or private donors. Such projects shall also reinforce the pedestrian connections and shared-use path corridors identified in Figure 1-4. These high-visibility open space enhancements shall be recommended for approval by the Lakes, Vegetation and Landscaping Committee.

Policy 1.3.3: Maintain campus edges that are attractive and welcoming by implementing Landscape Master Plan priority projects (Figure 1-5), gateway treatments (Figure 1-6), wayfinding signage, and intersection improvements (Figure 8-10) compatible with Landscape Master Plan standards and the urban design goals of the adjacent local government jurisdiction.

Policy 1.3.4: Consider the reduction of excessive hardscape areas across campus and the possibility of incorporating porous materials in areas of heavy pedestrian use.

Policy 1.3.5: Continue to maintain and expand University inventories of trees (particularly National Champion and Heritage Specimens) and rare plants (both ornamental and naturally occurring) on

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the main campus. These inventories are maintained by Business Affairs Technical Services in collaboration with the Planning, Design and Construction Division, Facilities Services Division, School of Forest Resources and Conservation, and the Department of Biology.

Policy 1.3.7: Maintain and implement the tree and shrub planting plan as specified in the Landscape Master Plan include streetscape standards.

Policy 1.3.8: The University of Florida Design and Construction Standards, Division 329000 shall continue to specify procedures for the protection and replacement of existing trees and vegetation and provide these standards online.

Policy 1.3.9: Development projects that impact or necessitate the removal of existing trees and vegetation shall be addressed according to the University of Florida Design and Construction Standards. Required tree mitigation or relocation shall be approved by the Lakes, Vegetation and Landscaping Committee.

Policy 1.3.10: Consistent with the University of Florida Design and Construction Standards, special protection is afforded to national Champion and Heritage Specimen trees that are numbered and tagged as part of the University's "Tree Walk" maintained by the UF School of Forest Resources and Conservation. These tagged trees are for teaching purposes and require special protection during any construction activity that may disturb soil near these trees.

Policy 1.3.11: Campus utilities shall be placed where the planting and growth of trees is not compromised, and underground placement is preferred.

Policy 1.3.12: No living tree on the University of Florida main campus or Alachua County Satellite properties shall be removed or relocated without the approval of the Lakes, Vegetation and Landscaping Committee except under the following conditions:

- The tree is dead.
- The tree is an immediate safety hazard to people, domestic animals, buildings or other structures, or motor, bicycle or pedestrian traffic, and no responsible correction is available other than tree removal as verified by a certified arborist when feasible.
- The tree is infested with harmful insects or fungi that cannot be controlled, are not normally present on trees of the species, and may reasonably be expected to spread to other trees not so infested as verified by a certified arborist when feasible.
- The tree or trees were planted specifically for purposes of research or other arboriculture/silviculture activities and were intended to be removed upon research completion or harvest.
- A record of such removals is kept and forwarded monthly to the Lakes, Vegetation and Landscaping Committee.
- Trees of up to five inches in diameter (twenty inches in circumference) may be removed when deemed necessary for maintenance or operations.

Policy 1.3.13: Landscaping required as part of any building new construction, renovation,

Objective 1.4: Implement sustainable stormwater practices in all campus site development incorporating Low Impact Development techniques where physically, economically, and practically possible.

Policy 1.4.1: The University shall strive to incorporate stormwater improvements into all new building sites and into modification of existing sites. These improvements include, but are not limited to, rain gardens, roof-top gardens, porous soil amendments, hardscape storage, pervious pavement and other innovative stormwater techniques as depicted in Figure 9-2 with a commitment to funding proper maintenance of their appearance and function.

Policy 1.4.2: The University shall follow the examples and recommendations in the Landscape Master Plan to incorporate stormwater treatment techniques in the existing landscape through identified utilities and roadways projects and other project opportunities to be identified.

Policy 1.4.3: All proposed stormwater projects on campus involving the use of designated open space (land use classifications of Green Space Buffer, Urban Park and Conservation) shall seek approval from the Lakes, Vegetation and Landscape Committee during the design phase. These projects must be in conformance with the primary function of the open space.

4. Program Plan

Opportunities, characteristics, and constraints:

Located at its intersection with West University Avenue, Newell Drive is converted to Newell Gateway, a primary pedestrian gateway. It is a previously developed roadway with scooter and motorcycle parking. The gateway is the welcoming face to campus visitors and frames one of the most appealing long views of the campus. It will become an extension to the primary multi-use pathway along the historic Plaza of the Americas leading to Union Road. Newell Gateway also connects secondary walkways leading to surrounding buildings and the larger pedestrian network. The improved design widens and realigns the secondary walkway to allow easy east-west movement. Many pedestrians, bicyclists and motorcyclists pass through and park at Newell Drive due to its adjacency to Library West, classroom buildings and Plaza of the Americas. Low walls along University Ave. help delineate the UF campus from the right-of-way and guide pedestrian safety. Coordination with the City to rethink the pedestrian crossings along West University Avenue has informed the design of the gateway in an effort to promote pedestrian safety and the use of the improved future pedestrian crossing. Currently, the intersection is the site of unsafe pedestrian activity.

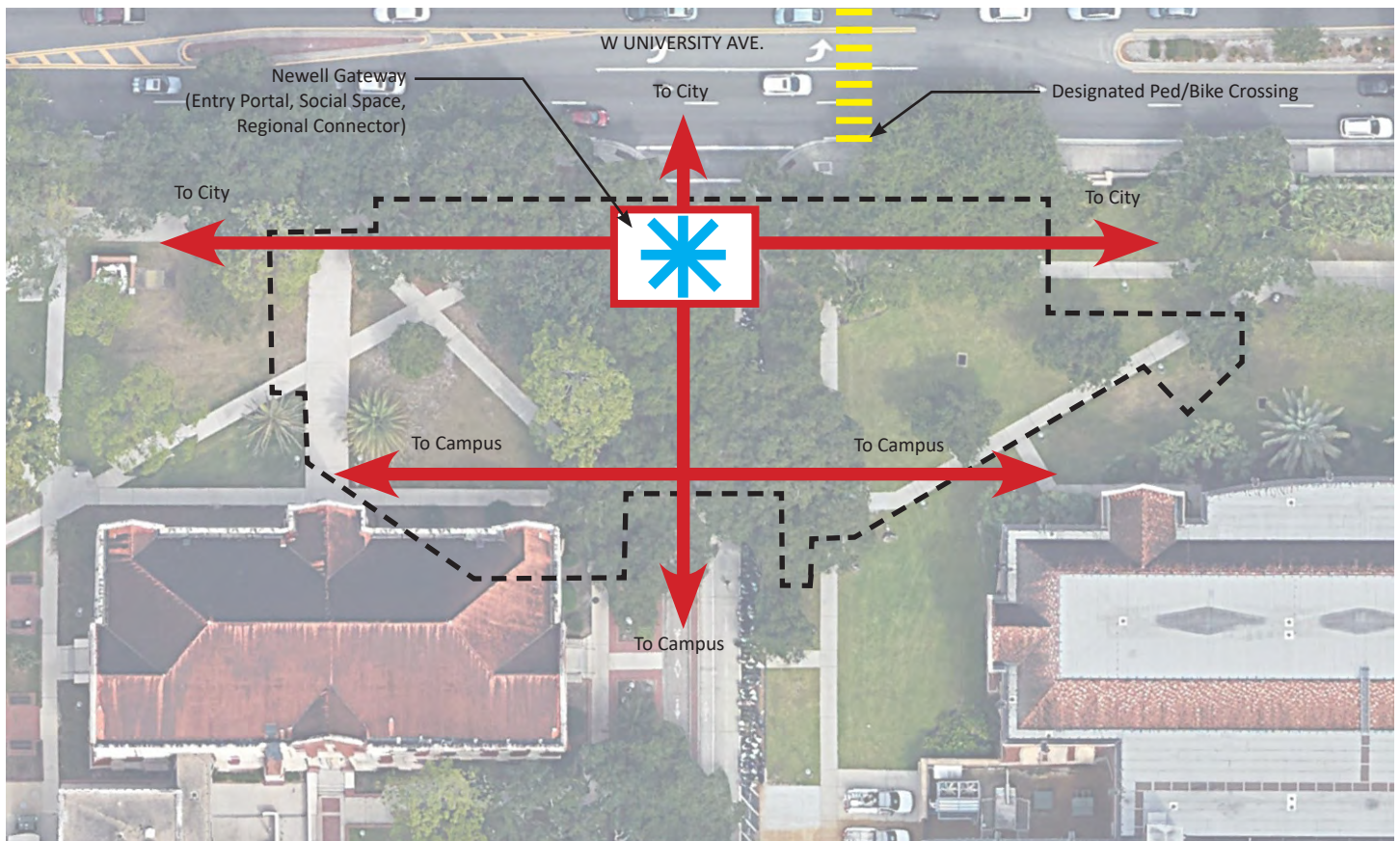
The new gateway marks the beginning of a major pedestrian walkway through the heart of the campus. Newell Drive's conversion to a pedestrian gateway will encourage site users to utilize multi-modal transportation such as walking, bicycling and public transportation. It incorporates a brick gateway plaza and pathway reusing existing brick from the area. The realigned, secondary walkway reduces the amount of existing paving. The majority of existing trees are to remain and will be protected through construction. Additional trees are placed in adequate planting space which provide shade for the comfort of pedestrians and bicyclists. Low-maintenance shrub and groundcover planting within raingarden areas contribute to collection and infiltration of stormwater.

Opportunities:

- Enhancing Landscape
- Upgrading Utilities
- Enhancing pedestrian and bicycle mobility

Constraints:

- Existing Trees
- Existing Utilities
- Continuous daily campus operations including heavy pedestrian traffic



5. Stakeholders and site user groups

Primary users are those members of the immediate campus population, that is, individuals who are on campus regularly for work or as students. Those would be the students, faculty/administration, and university employees.

Secondary users would individuals who are not regularly on campus and therefore would not have an opportunity to regularly use either gateway, only doing so on the occasions that they visit campus. Those individuals would be university visitors including alumni, visiting lecturers, prospective students and their families, etc. Also in that group would be Gainesville residents who might visit campus for any number of reasons including sporting events, cultural events, or just generally enjoying the beauty of the campus.

6. Plan for Construction Oversight

Elisabeth Manley, landscape architect with Manley Design, will be the team member responsible for construction oversight and will be coordinating the Construction Manager, Jennifer Lyons, CCPI. The pre-construction meeting will occur after the completion of the design and final bid acceptance and the method for making changes in the field during construction will follow standard practices.

7. Site Maintenance Plan

Site Maintenance Plan Strategy has been developed through collaboration with multiple entities throughout the University.

Maintenance operations of Newell Gateway is mainly facilitated by the University's Grounds department of which intends to further our LMP goals, including irrigation whenever the opportunities exist.

Other entities include staff from our integrated pest management plan, Environmental Health and Safety, wastewater treatment staff to help meet our reclaimed water goals, waste and refuse staff to further divert as much waste from entering our local landfills. Once complete this document has been reviewed by UF's planning department to ensure that such activities are meeting the goals of our landscape master plan.

Refer to table of Integrated Design Team members acknowledging participating in the development of the site maintenance plan.

PREREQUISITE 2.2 | CONDUCT A PRE-DESIGN SITE ASSESSMENT

Pre-design site visit

Below are photos of the design team conducting a pre-design site assessment for Newell Gateway. This included taking photos and learning more about the existing conditions of the site.



Notes from Minutes

<u>Name</u>	<u>Representing</u>	<u>Newell</u>	
Tom Schlick	UF	2-1	<ol style="list-style-type: none"> 1. Reviewed the proposed signal locations from FDOT concept plans for 16th Street 2. Broken curb and gutter on west side of Newell Drive to be replaced even if that work goes south of the main project area in order to allow for unobstructed drainage along gutter. 3. Drainage inlets at University Avenue are on UF property but FDOT permit will be required. 4. Transition from gateway elevation to Newell Drive elevation will require additional drainage inlets. 5. Planter wall layout at the entry will be refined to open the throat of gateway to reduce pinch point on the sidewalk on University while still preserving large oaks flanking the entry.
Dustin Stephany	UF		
Frank Bellomo	GAI		
Donald Wishart	GAI		
Sheeba West	GAI		
Andrea Penuela	GAI		
Elisabeth Manley	Manley Designs		
Jason O'Brian	Walker Architects		
Jaime Igua	VHB		
Andrew Mitchell	Mitchell Gullledge		
Peter Risov	Mitchell Gullledge		

Site Assessment Worksheet

SITES® v2 Site Assessment Worksheet			
P2.2: CONDUCT A PRE-DESIGN SITE ASSESSMENT			
PROJECT NAME		PROJECT ID#	
Newell Entry		13740	
SITE CONTEXT			
Identify and map the following information	Information collected can help achieve the following SITES Prerequisites and Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Existing or planned pedestrian, bicycle, or transit including: Nearby transit routes and stops, bicycle lanes and shared lane markings, bicycle racks/storage, and bicycle networks	C1.7: Connect to multi-modal transportation networks, C6.5: Support physical activity, C6.9: Encourage fuel efficient and multi-modal transportation	Map at C1.7 provided by Regional Transit System of Gainesville; Map at C6.5 provided by the University of Florida.	The information gathered could influence the design of the hardscapes and for this portion of campus.
WATER			
Identify and map the following information or provide a narrative as required by Table 2.A-B in the Reference Guide	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
100-year floodplain, as determined by FEMA (or local equivalent for projects outside the United States).	P1.2: Protect floodplain functions	FEMA flood maps were analyzed and it was determined that our site did not fall within the 100-year floodplain boundaries.	The information gathered may influence the design of the impervious areas, the approach to stormwater design including LID opportunities and the specified landscape plants.
Full extent of delineated aquatic ecosystems, including isolated wetlands	P1.3: Conserve aquatic ecosystems	Figure 7.2, the Natural Communities Map of the Conservation Element of the UF Campus Master Plan indicates no aquatic ecosystem or wetlands on site.	The lack of aquatic ecosystems and wetlands could influence the design of the landscaping as well as the site drainage.
Wetland, shoreline, or riparian buffer	P1.3: Conserve aquatic ecosystems, C3.6: Restore aquatic ecosystems	Figure 7-2, Natural Communities Map and Figure 7-4, Water Resources Map of the UF Campus Master Plan, indicates that there are no wetlands, shorelines or riparian buffers on the project site.	The information gathered could influence the approach to handling stormwater and landscape design.
Streams, wetlands, or shorelines that have been artificially modified (e.g., buried, piped, drained, channelized, bulkheaded, or armored). Determine existing conditions, dimensions, and historic extent.	C3.6: Restore aquatic ecosystems	Figure 7-4, Water Resources Map of the UF Campus Master Plan, and campus aerial photos, 1932 to present, indicates that there are no streams, wetlands or shorelines on the project site that were modified.	The information gathered could influence the layout of the impervious areas, stormwater and landscape design.
Overland water flow on site. Determine topography, direction of flow, and effects on the watershed, including natural rates of erosion.	P3.1: Manage precipitation on site, C3.3: Manage precipitation beyond baseline, C3.6: Restore aquatic ecosystems, P7.2: Control and retain construction pollutants	The topographic survey of the site, completed by Deren Surveying, confirms generally flat topography, and allows for understanding of current surface water flow.. The survey can be found in the SWPPP - Stormwater Pollution Prevention Plan. Refer to C7.2	The information gathered may influence the layout of the impervious areas, stormwater, and landscape design.
Existing and potential pollution sources (both point and nonpoint sources) and health hazards, including on-site sources and off-site sources in adjacent areas that may impact the site.	C1.5: Redevelop degraded sites, C3.3: Manage precipitation beyond baseline, P7.2: Control and retain construction pollutants	Review of 2010 UF Main Campus Water Quality Report. Includes water quality data on 20 sampling sites throughout the campus. Reviewed UF Clean Water Campaign with online data. Analyzed UF Storm Drain System map to determine possible connections from offsite sources into Lake Alice Watershed.	The information gathered may influence the layout of the impervious areas and the design of the approach to stormwater design as a part of the overall campus stormwater system.
Average annual and monthly precipitation	P3.1: Manage precipitation on site, P3.2: Reduce water use for landscape irrigation, C3.3: Manage precipitation beyond baseline, C3.4: Reduce outdoor water use, C3.5: Design functional stormwater features as amenities	The average annual and monthly precipitation data was acquired from the St. Johns River Water Management District (SJRWMD) Hydrologic Data site.	The information gathered could influence the layout of the impervious areas, the approach to the stormwater system design to capture precipitation on site and the selection of appropriate landscape plants.
Watershed conditions including common stormwater pollutants, specific pollutants of concern, local, regional or state watershed plans, and artificial modification of natural hydrology	P1.2: Protect floodplain functions, P3.1: Manage precipitation on site, C3.3: Manage precipitation beyond baseline, C3.5: Design functional stormwater features as amenities, C3.6: Restore aquatic ecosystems	Review of 2010 UF Main Campus Water Quality Report. Includes water quality data on 20 sampling sites throughout the campus. Reviewed UF Clean Water Campaign with online data. Analyzed UF Storm Drain System map to determine possible connections from offsite sources into Lake Alice Watershed. Utilized the map "Watersheds University of Florida"	The information gathered may influence the layout of the hardscapes, and stormwater design to capture and filter surface runoff before making its way offsite and downstream.
Potable and non-potable water for the site and opportunities to capture, treat, and reuse rainwater and graywater.	P3.2: Reduce water use for landscape irrigation, C3.3: Manage precipitation beyond baseline, C3.4: Reduce outdoor water use, C3.5: Design functional stormwater features as amenities	Availability of potable and non-potable water on site came from UF Facilities utility maps. Greywater is available. Capuring rainwater for irrigation use was considered but not implemented because of the limited available space for cisterns, the amount of water needing to be made available, and the concern over possible vandalism at the site.	The information gathered will influence the landscape design as well as the design of an efficient, reclaimed water irrigation system with components that are designed to be temporary.

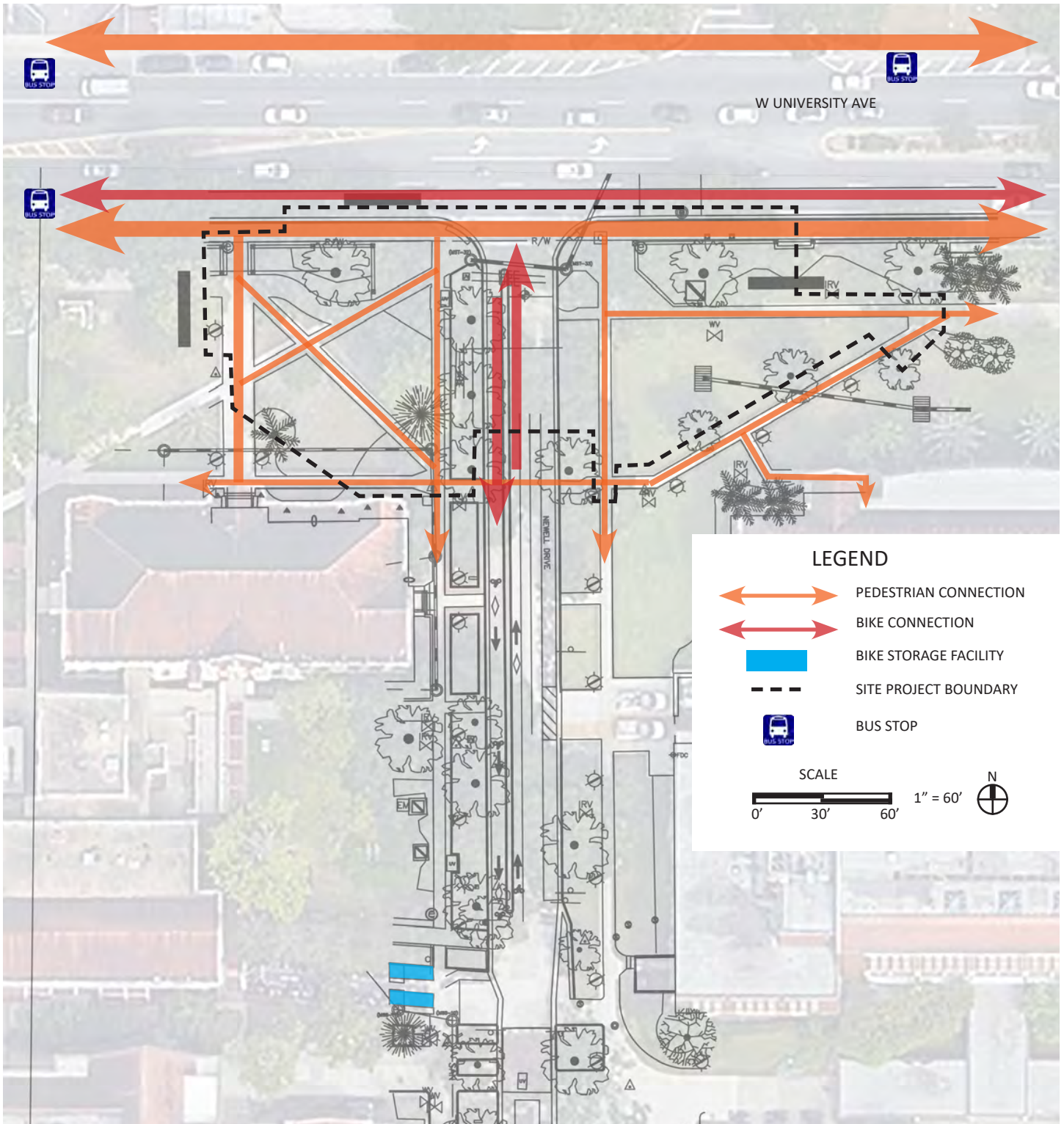
SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

SOILS			
Identify and map the following information or provide a narrative as required by Table 3.A-B in the Reference Guide	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Soils defined by the U.S. NRCS (or local equivalent for projects outside the United States) as prime farmland, unique farmland, farmland of statewide importance, or farmland of local importance.	P1.1: Limit development on farmland	Soil data was gathered from U.S. NRCS maps. Soil is not defined as farmland. Additional soil information specific to the site was completed by the geotechnical engineer.	The information gathered could influence the plants specified and the approach to storm system design including possible LID techniques.
Healthy soils found on site.	P4.1: Create and communicate a soil management plan, C4.4: Conserve healthy soils and appropriate vegetation, P7.3: Restore soils disturbed during construction	Figure 7-3. Soils map, from the Conservation Element of the UF Campus Master Plan. Also utilized US Dept. of Agriculture Soil Conservation Service Soil Survey of Alachua County.	The information gathered may influence the preservation of existing trees on site which have extensive root systems that are critical to the soil structure. Could also influence the plants specified and the approach to storm drainage.
Soils disturbed by previous development. Identify degree of disturbance (disturbed or severely disturbed) and the following characteristics: organic matter content and depth, texture and bulk densities, infiltration rates, soil biological function and soil chemical characteristics.	C7.4: Restore soils disturbed by previous development	Refer to C7.4 Site Plan	The information gathered will influence design, establishment and maintenance of landscapes, hardscapes and site drainage.
Test results or verified allowable ranges for organic matter, compaction or infiltration and soil chemical characteristics or soil biological function	P4.1: Create and communicate a soil management plan, C6.7: Provide on-site food production, P7.3: Restore soils disturbed during construction C7.4: Restore soils disturbed by previous development	Soil test results were completed and the results are found at C7.4	The information gathered could influence design, establishment and maintenance of landscape on site. It could also help determine the viability of on-site food production.
Major native plant community types of the ecoregion based on the U.S. EPA (or local equivalent for projects outside of the United States), www.epa.gov/wed/pages/ecoregions/level_iii_iv.htm	C4.6: Conserve and use native plants, C4.7: Conserve and restore native plant communities	Per EPA, the Level I Ecoregion is Eastern Temperate Forest, Level II is Mississippi Alluvial and SE Coastal Plain and Level III Ecoregion is Southern Coastal Plain.	The information will influence plant material selection and maintenance and the determination if existing native habitat exists for restoration or augmentation.
Determine the terrestrial biome by using the World Wildlife Fund Wildfinder, www.worldwildlife.org/science/wildfinder/	C4.8: Optimize Biomass	WWF Wildfinder identifies the terrestrial biome as Temperate Coniferous Forest	The information will influence plant material selection and maintenance and the determination if existing native habitat exists for restoration or augmentation.
Follow local, state and federal regulations to ensure existing and imported soils are healthy for food production and are safe for physical contact by the public. For previously developed sites, brownfield sites or sites that have been subject to application of chlorinated pesticides and herbicides, see section 3.B. in Reference Guide for requirements	C6.7: Provide on-site food production	On site food production was deemed inappropriate for this site due to its highly urban character, limited space and high concentration of pedestrians, bicycles and scooters. Additionally, on site (i.e. on-campus) food production is dedicated to another part of the UF campus.	The presence of food production elsewhere on campus, concentrating energy expenditure to a single campus location, is a more appropriate approach to food production at UF.
VEGETATION			
Identify and map the following information or provide a narrative as required by Table 4.A in the Reference Guide	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Provide narrative describing how information gathered could influence site design.
Potential threatened or endangered species habitat. Include plant and animal species identified on federal or state threatened or endangered lists or on the International Union for Conservation of Nature Red List of Threatened Species as critically threatened or endangered.	P1.4: Conserve habitats for threatened and endangered species, P2.3: Designate and communicate VSPzS	No such habitat exists for plants of animals on this highly urbanized site. Refer to the letter in Credit P1.4 regarding Habitat Assessment	This information may influence plant material selection to support native flora and fauna.
Zones of land cover or vegetation types. Note whether each zone contains the following: - invasive plants as listed by regional, state, or federal entities - native plants and native plant communities - appropriate plant species - special status plants (for trees, note DBH)	P4.2: Control and manage invasive plants, P4.3: Use appropriate plants, C4.4: Conserve healthy soils and appropriate vegetation, C4.5: Conserve special status vegetation, C4.6: Conserve and use native plants, C4.7: Conserve and restore native plant communities, C4.8: Optimize biomass	P4.2 - See P1.4 list. P4.3 - Planting Plan (see Landscape Master Plan list of approved plants). Refer also to C4.5 Site Map. On-site analysis reveals no native plants on site with the exception of Quercus virginiana (Live Oak). There are special status trees per the City of Gainesville. All oaks over 20" are considered Historic Trees.	This information could influence plant material selection to support native flora. The information will also affect the decision of trees that must be retained and any invasive species that might exist which need to be removed.
Risk of catastrophic wildfire for on-site areas and adjacent landscapes at risk	C4.11: Reduce the risk of catastrophic wildfire	As a developed and highly urban environment, there is no risk of wildfire. In addition, the site is well protected by the City of Gainesville fire	This information may influence plant material selection and the determination of whether there are plants on site that increase the chance of fire.

SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING

MATERIALS INVENTORY			
Identify and map the following information or provide a narrative as required by Table 4.B-C in the Reference Guide	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Existing landscape materials and other site elements (e.g. structures, roads, parking lots, pathways) that could be safely retained, salvaged, reused, or recycled.	C5.2: Maintain on-site structures and paving C5.4: Reuse salvaged materials and plants. C7.5: Divert construction and demolition materials from disposal C7.6: Divert reusable vegetation, rocks, and soil from disposal	See data on C5.2 Maintain on-site structures and paving. See data on C5.4 Reuse salvaged materials and plants, materials and disposal. See data on C7.6 Divert reusable vegetation, rocks, and soil disposal.	This information will influence the salvaging and disposal of existing bricks, concrete and landscape and can minimize the need for new materials.
Potential suppliers of salvaged or reused materials,	C5.4: Reuse salvaged materials and plants	See data on C5.4 Reuse salvaged materials and plants	This information will influence the selection of suppliers for pavers and furnishings.
Potential suppliers of recycled materials,	C5.5: Use recycled content materials	See data on C5.5 Use recycled content materials	This information will influence the selection of suppliers for bricks, wall materials, benches, lighting and landscape and irrigation materials.
Potential suppliers of regional and local materials	C5.6: Use regional materials C6.11: Support local economy	See data on C5.6 Use regional materials. See data on C6.11 Support local economy	This information will influence the selection of suppliers for all project construction materials and design elements.
Potential suppliers of sustainable extracted materials	C5.7: Support responsible extraction of raw materials	See data on C5.7 Support responsible extraction of raw materials	This information will influence the selection of suppliers of raw materials for the project..
Potential suppliers of safer alternative materials	C5.8: Support transparency and safer chemistry	See data on C5.8 Support transparency and safer chemistry	This information will influence the selection of suppliers for those that advocate and/or disclose their use of materials which list chemicals and assess related hazards.
Potential suppliers of sustainable materials manufacturers	C5.9: Support sustainability in materials manufacturing	See data on C5.9 Support sustainability in materials manufacturing	This information will influence the selection of suppliers for bricks, wall materials, benches, lighting and other products to those who advocate and/or disclose information related to the sustainable production of their materials.
Potential suppliers of sustainable plant producers	C5.10: Support sustainability in plant production	See data on C6.10 Support sustainability in plant production	This information will influence the selection of growers and suppliers of landscape plants and turf.
Potential local workforce and businesses	C6.11: Support local economy	See data on C6.11 Support local economy	This information will influence the contractor who is hired to construct the project as well as his/her subcontractors and staffing.
HUMAN USE OF SITE			
Identify and map the following information	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Nearby shops, services, and facilities in operation that have pedestrian access to site. Map walk distances of these basic services from planned project entrance.	C1.6: Locate projects within existing developed areas	Refer to C1.6 Vicinity Map and Site Plan	This information can influence improving connectivity to facilities adjacent to the site.
Historic buildings, structures, objects, and cultural landscapes that are significant to local culture and histories. Note whether these are listed in a historic register.	C6.1: Protect and maintain cultural and historic places	Refer to C6.1 Site Photographs and Maps provided by UF Planning, Design and Construction and UF Facilities at http://historic.facilities.ufl.edu/	This information could influence the site design to preserve and protect the buildings and existing mature trees on site.
Interesting or unique features that will enhance the user experience and encourage site use such as view corridors, site landmarks, large shade trees, and water features (natural or designed).	C6.2: Provide for optimum site accessibility, safety, and wayfinding. C6.4: Support mental restoration, C6.5: Promote physical activity, C6.6: Support social connection	Refer to site plans at C6.2, C6.4, C6.5 and C6.6. Map at C6.5 by the University of Florida	This information could influence the layout of benches, lights and consider shade and safety of pedestrians.
CLIMATE AND ENERGY			
Identify and map the following information or provide a narrative as required by Table 6.A-B in the Reference Guide	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Microclimate considerations including positive sounds or excessive noise, wind, and sun exposure (sun angles) and shading opportunities, and any unique microclimate factors that may affect site design decisions, building orientation, and plant selections.	C4.10: Use vegetation to minimize building energy use, C4.11: Reduce the risk of catastrophic wildfire, C6.4: Support mental restoration, C6.5: Promote physical activity, C6.6: Support social connection	Refer to C6.4 Site Plan C6.5 Site Plan C6.6 Site Plan. Wind data provided by www.weatherspark.com . Noise data provided by rentlingo.com/noise-index	This information could influence the protection of existing trees that provide shade to pedestrians on site and will influence plant selection particularly related to microclimate and safety for pedestrians.
Opportunities to generate renewable energy on site (e.g., wind, solar, geothermal, low-impact hydro)	C8.6: Use renewable sources for landscape electricity needs	Wind data provided by weatherspark.com . Refer also to Map at C4.9 for shading information	This information may influence the use of solar or wind energy
ADDITIONAL CONSIDERATIONS			
Identify and map the following information	Information collected can help achieve the following SITES Prerequisites and/or Credits	Provide title of map(s) where information is identified and include any additional notes OR provide reasons for not addressing topics	Describe how information gathered could influence site design.
Any additional considerations not included in the above			

1. Site Context - Community and Connectivity



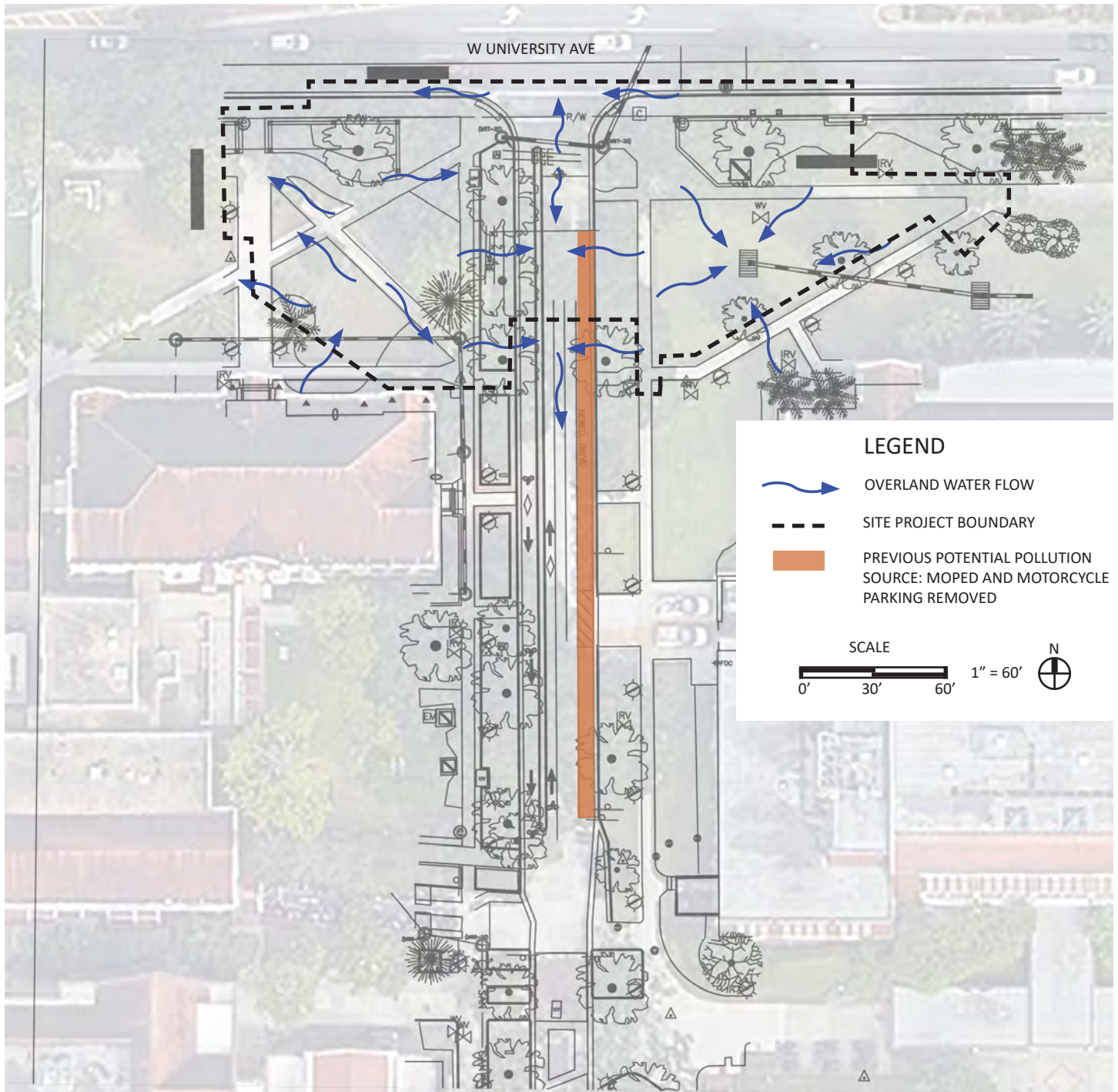
Source: <https://gainesvillefl.maps.arcgis.com/apps/webappviewer/index.html?id=8e43b21cb3fc46bea35eccea2c67026f>

2. Water

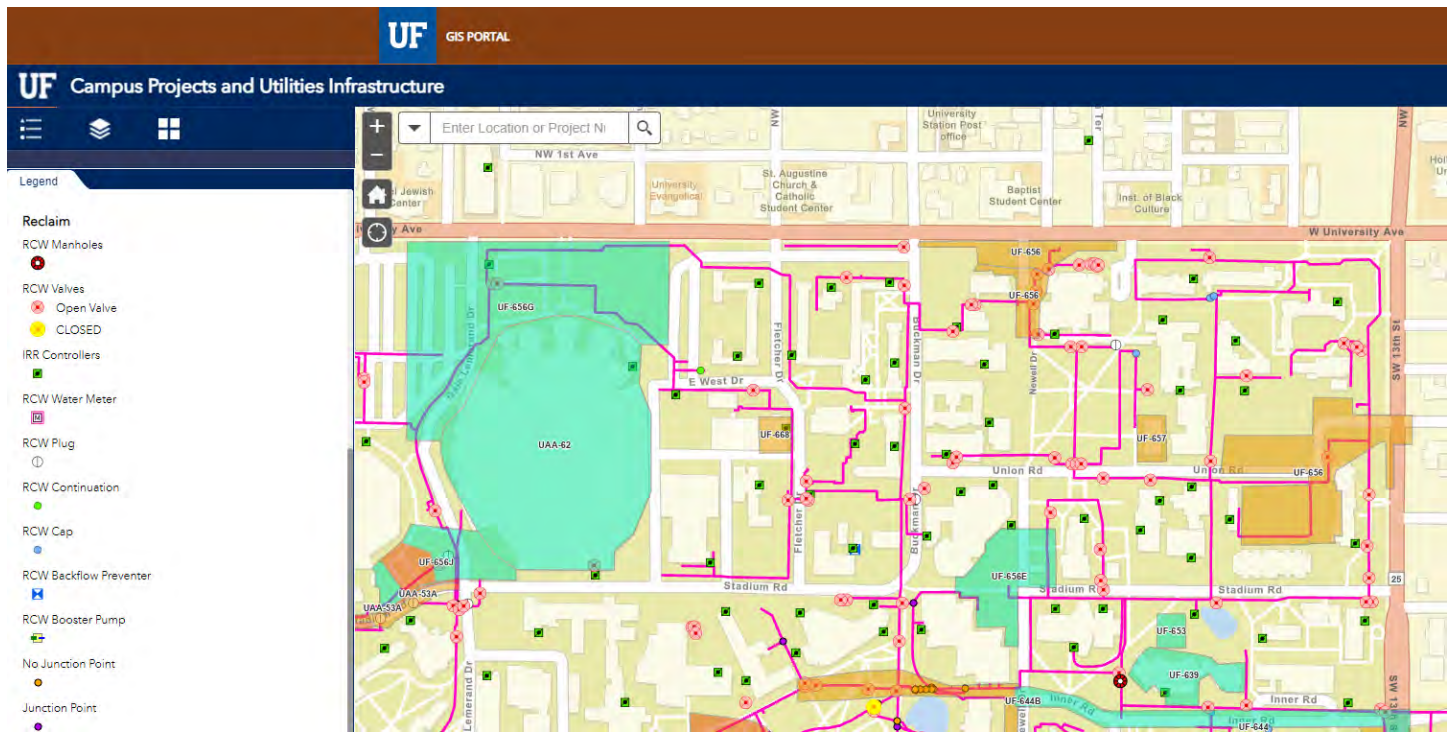
The site is not located within the 100-year floodplain and does not contain any aquatic ecosystems, wetlands, shorelines, riparian buffers or streams. Newell Drive and W University Ave are sources of urban vehicular pollution that include heavy metals, oils and gas. There is potable and non-potable water access on site. The site is located within the Lake Alice Watershed which drains approximately 60% of the UF Main Campus.

PRECIPITATION

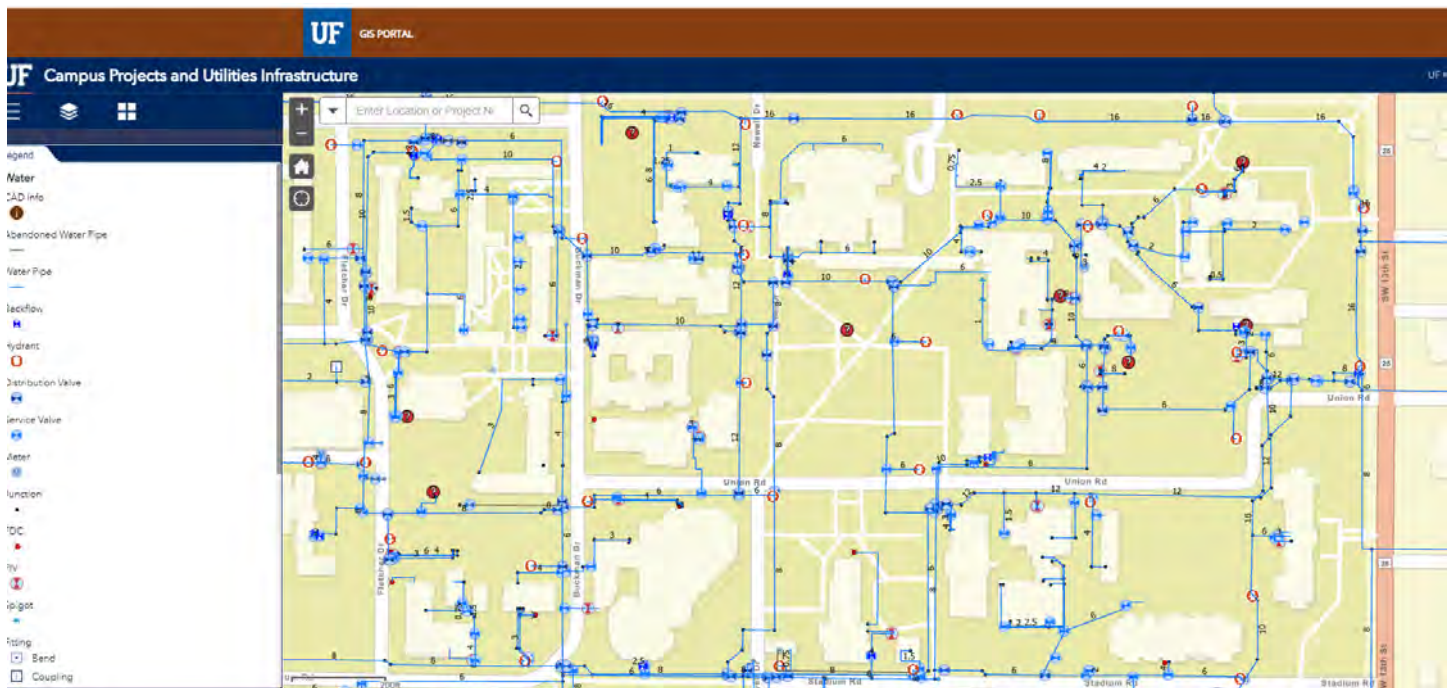
47.09 inches Average annual precipitation
3.92 inches Average monthly precipitation



Reclaimed Water

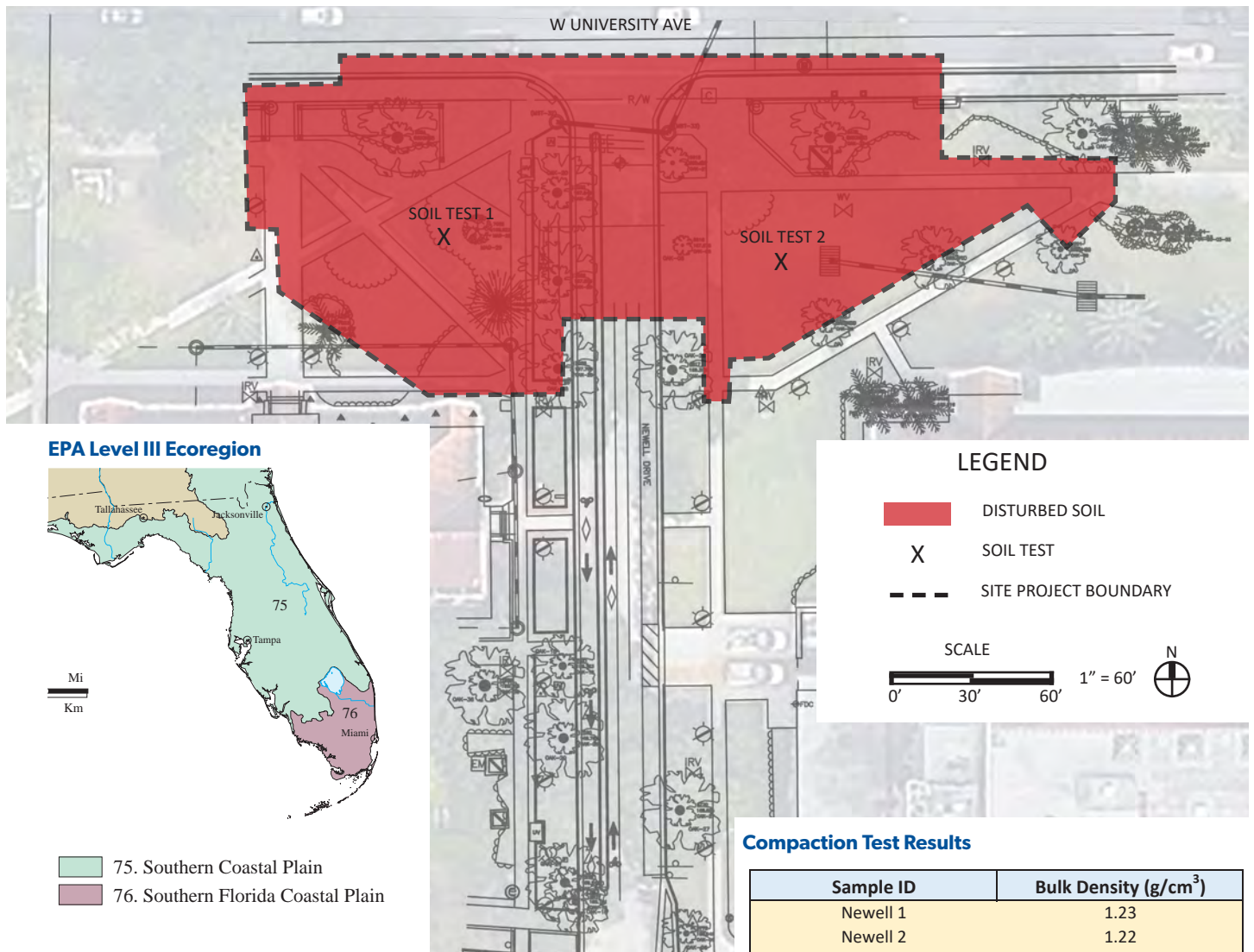


Potable Water



3. Soils

According to the EPA level III ecoregion, Southern Florida Coastal Plain is the major native plant community type on site. The site is not located on farmland and there will be no on-site food production.



Organic Matter Results

Lab Number	Sample Identification	Copper	Manganese	Zinc	Organic Matter	Electrical Conductivity
		mg/kg in the soil				
E166278	Newell 1	1.12	7.68	9.24	4.76	0.16
E166279	Newell 2	1.03	1.16	5.53	3.57	0.15

Test 1 Soil Chemical Characteristics

Nutrients	Level mg/kg or ppm	Interpretation	Nutrients	Level mg/kg or ppm	
Phosphorus (P)	179	HIGH	Sulfur (S)	15.5	} *For these nutrients see directions on the following pages
Potassium (K)	125	HIGH	Copper (Cu)	1.1	
Magnesium (Mg)	332	HIGH	Manganese (Mn)	7.7	
			Zinc (Zn)	9.2	
Calcium (Ca)	2107	Ca is typically adequate in Florida soils			

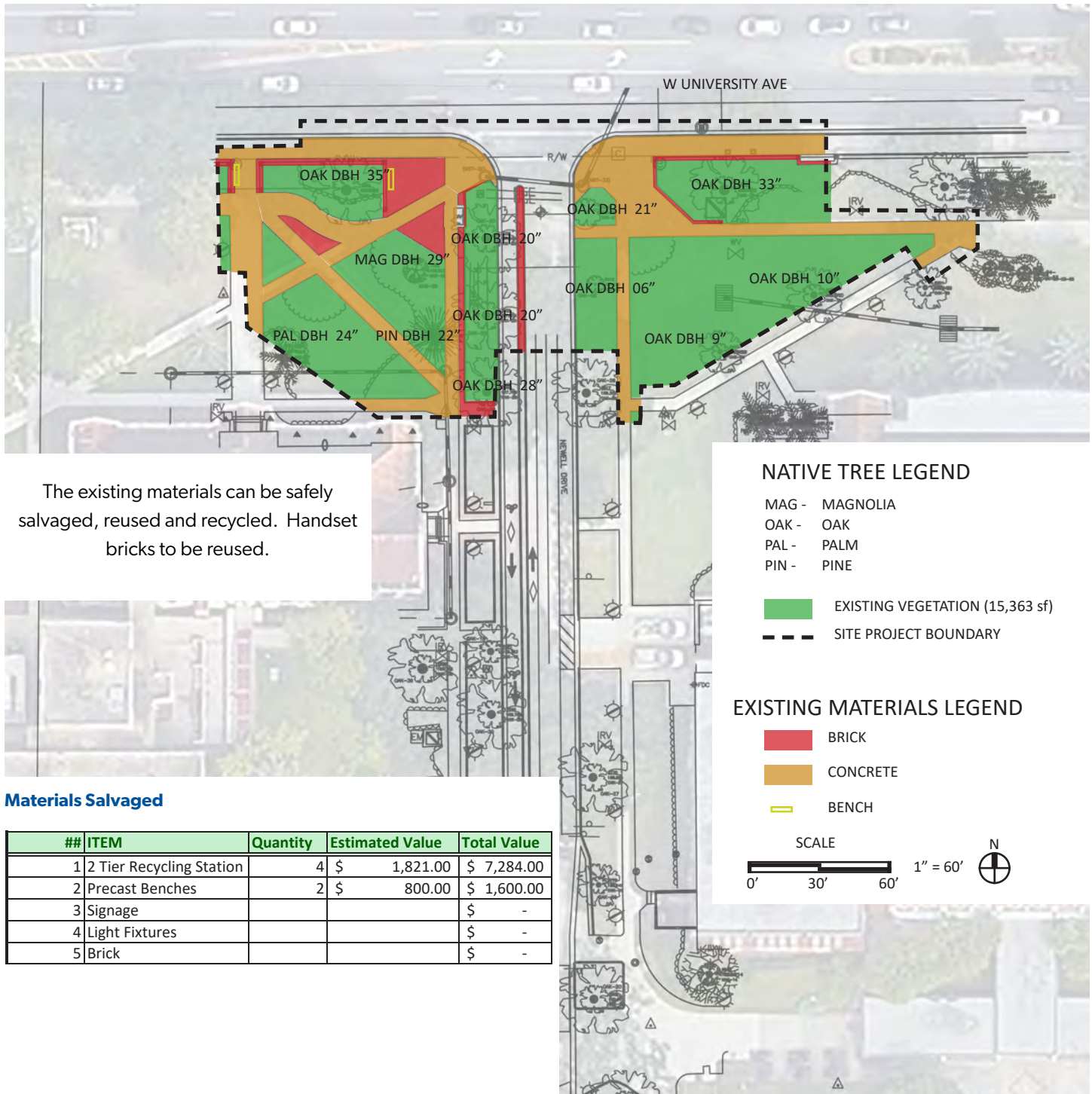
Test 2 Soil Chemical Characteristics

AB-DTPA Extractable Nutrients

PHOSPHORUS (mg/Kg or ppm P)	20
POTASSIUM (mg/Kg or ppm K)	46
MAGNESIUM (mg/Kg or ppm Mg)	34
CALCIUM (mg/Kg or ppm Ca)	265

4. A. Vegetation & B. Materials Inventory

The site does not contain any invasive plants and is not at risk for catastrophic wildfires. The site is characterized by urban conditions and the native trees on site are identified below. The landscape plan incorporates appropriate plant species that are native and Florida friendly. The site includes special status plants including canopy trees that are 20 in. DBH, which are considered heritage trees according to the City of Gainesville Land Development Code.



Materials Salvaged

##	ITEM	Quantity	Estimated Value	Total Value
1	2 Tier Recycling Station	4	\$ 1,821.00	\$ 7,284.00
2	Precast Benches	2	\$ 800.00	\$ 1,600.00
3	Signage			\$ -
4	Light Fixtures			\$ -
5	Brick			\$ -

4. C. Materials, Plants, Soils and Labor Procurement

SRM Concrete (Concrete)

Ken Russi / Email: krussi@smyrnareadymix.com

Anderson Columbia Co. Inc. (Asphalt)

Julio Amparo / Email: Julio.Amparo@andersoncolumbia.com

Limerock Industries, Inc (Limerock)

Dawn Summers / Email: summersdawn@bellsouth.net

HD Whitecap (Steel & Wire for Concrete)

Terry Mulligan / Email: Terry.Mulligan@whitecap.com

Storm Structures

Material Supplies for UF-656 Landscape Master Plan Project

Oldcastle Infrastructure

Zoila Chavarria (Zoila.Chavarria@oldcastle.com)

904-577-9136

Precast Concrete

Material Supplies for UF-656 Landscape Master Plan Project

Spring Precast

John Cronin (jcronin@springprecast.com)

229-938-0175

USI

Material Supplies for UF-656 Landscape Master Plan Project

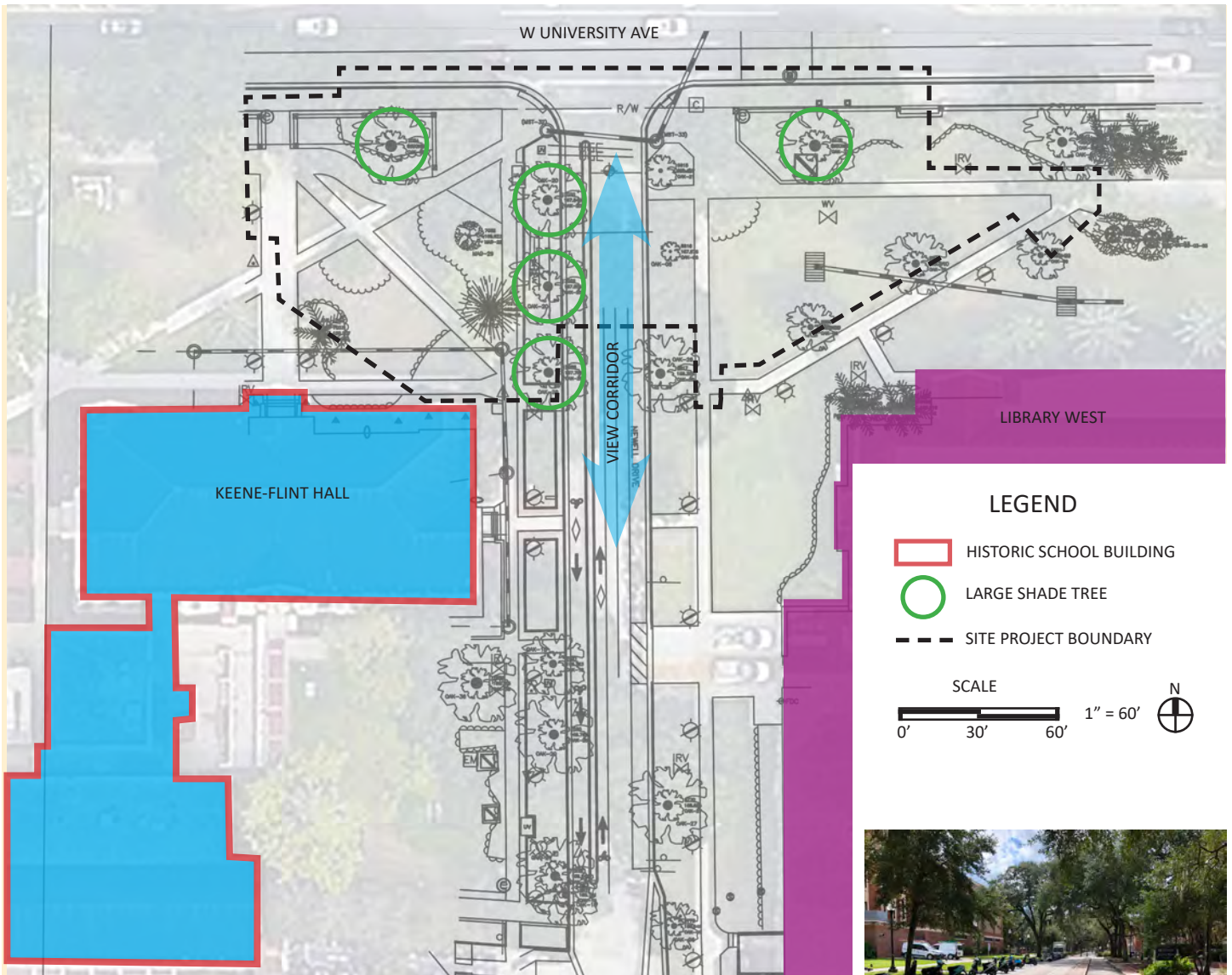
Core and Main

Jim Chambers (jim.chambers@coreandmain.com)

352-351-814

5. Human Use of Site

The University of Florida campus historic district was added to the National Register of Historic Places on April 20th in 1989, registration number 8AL 2552.



Type of Service

- Restaurant
- Hair care
- Place of Worship
- Library
- School
- Convenience Store
- Community Center

Basic Services Nearby

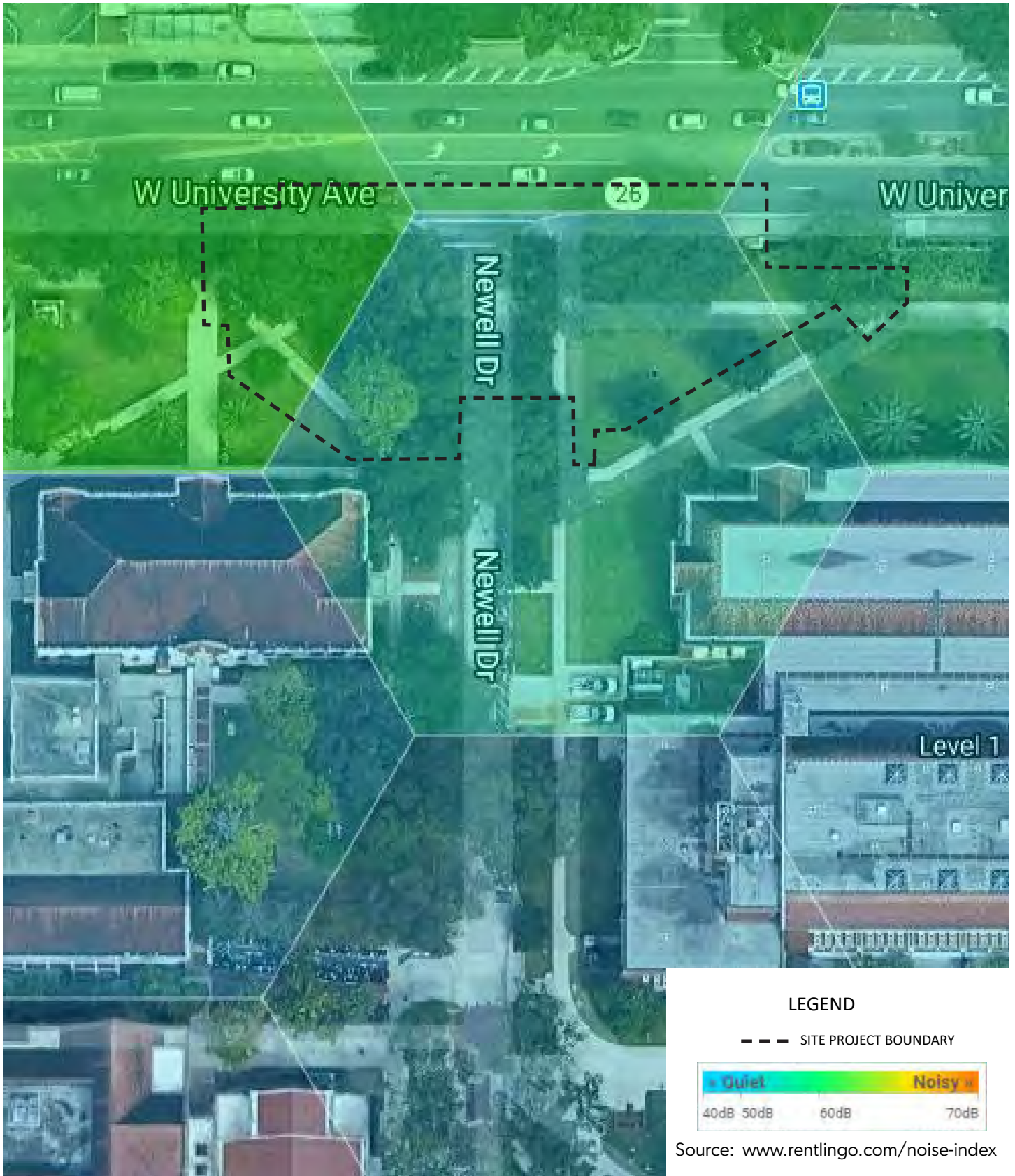
- Tijuana Flats 660 ft
- Wawa 735 ft
- Sushi Chao 690 ft
- Mochi 525 ft
- Style Cuts 614 ft
- Library West 203 ft
- Keene-Flint Hall 159 ft
- Pita Pit 660 ft



View Corridor

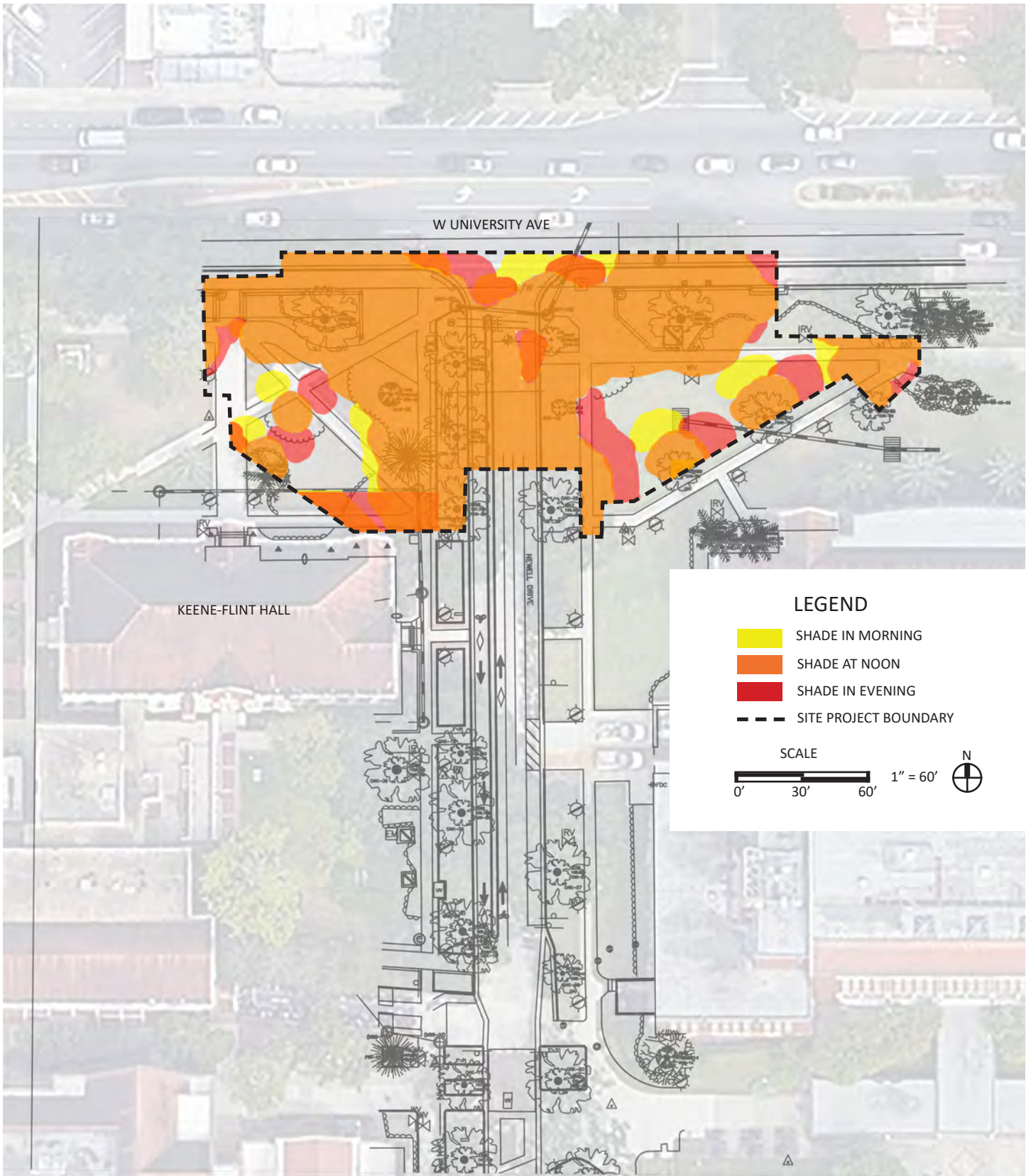
6. Climate and Energy

Noise Map



6. Climate and Energy

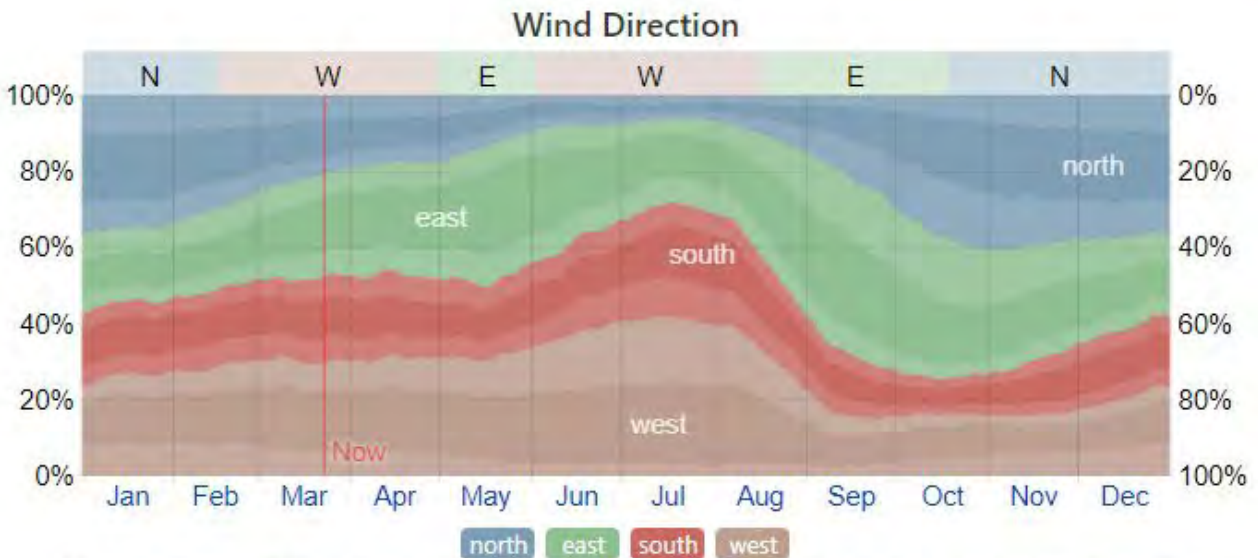
Shade Map



6. Climate and Energy

The predominant average hourly wind direction in Gainesville varies throughout the year.

The wind is most often from the west for 2.5 months, from February 15th to April 10th and for 2.5 months, from June 2nd to August 17th, with a peak percentage of 42% on July 16th. The wind is most often from the east for 1.1 months, from April 30th to June 2nd and for 2.0 months, from August 17th to October 18th, with a peak percentage of 47% on September 11th. The wind is most often from north for 3.9 months, from October 18th to February 15th, with a peak percentage of 36% on January 1st.



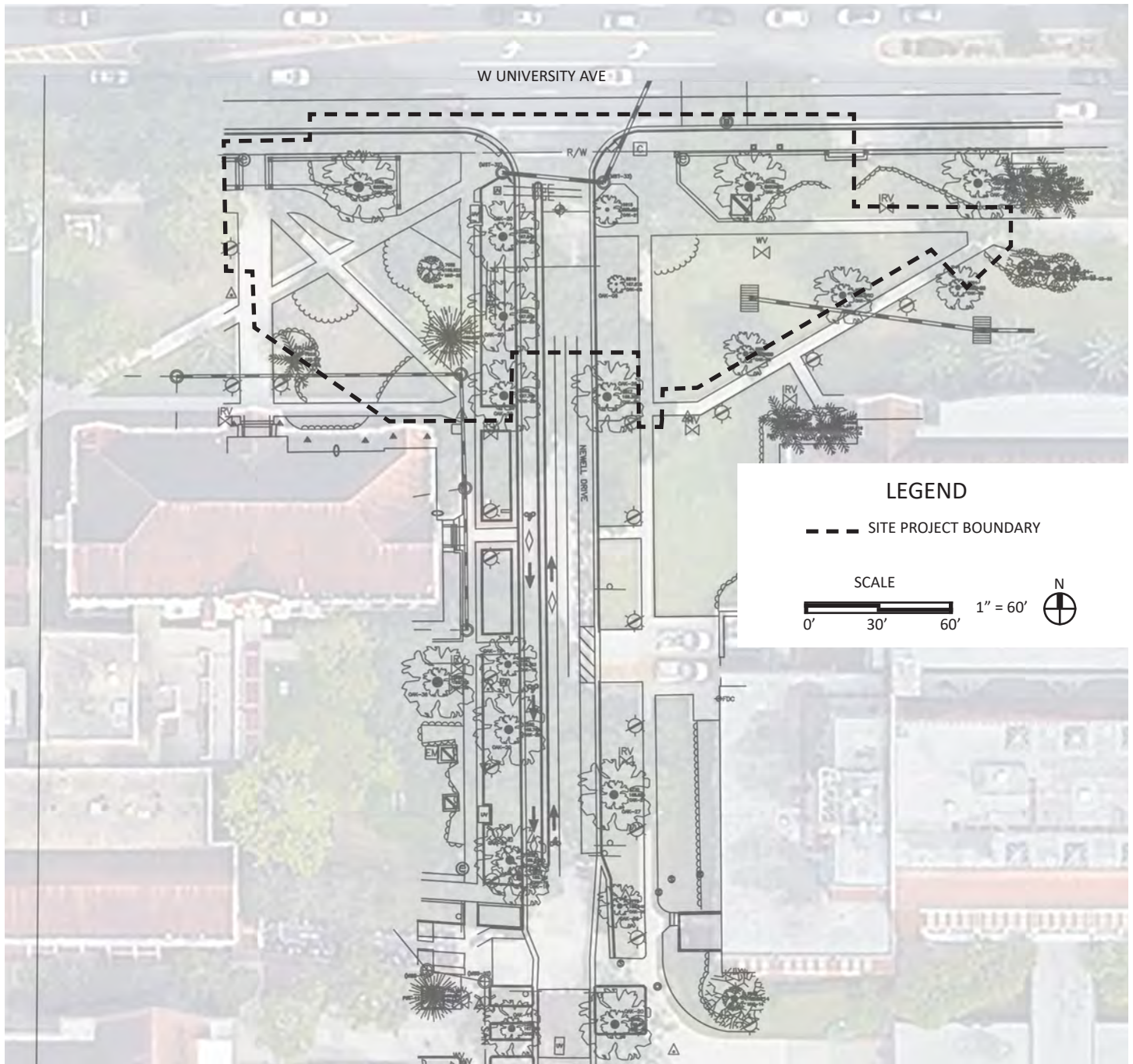
The percentage of hours in which the mean wind direction is from each of the four cardinal wind directions, excluding hours in which the mean wind speed is less than 1.0 mph. The lightly tinted areas at the boundaries are the percentage of hours spent in the implied intermediate directions (northeast, southeast, southwest, and northwest).

Source: www.weatherspark.com

PREREQUISITE 2.3 | DESIGNATE AND COMMUNICATE VEGETATION AND SOIL PROTECTION ZONES (VSPZs)

Site plan

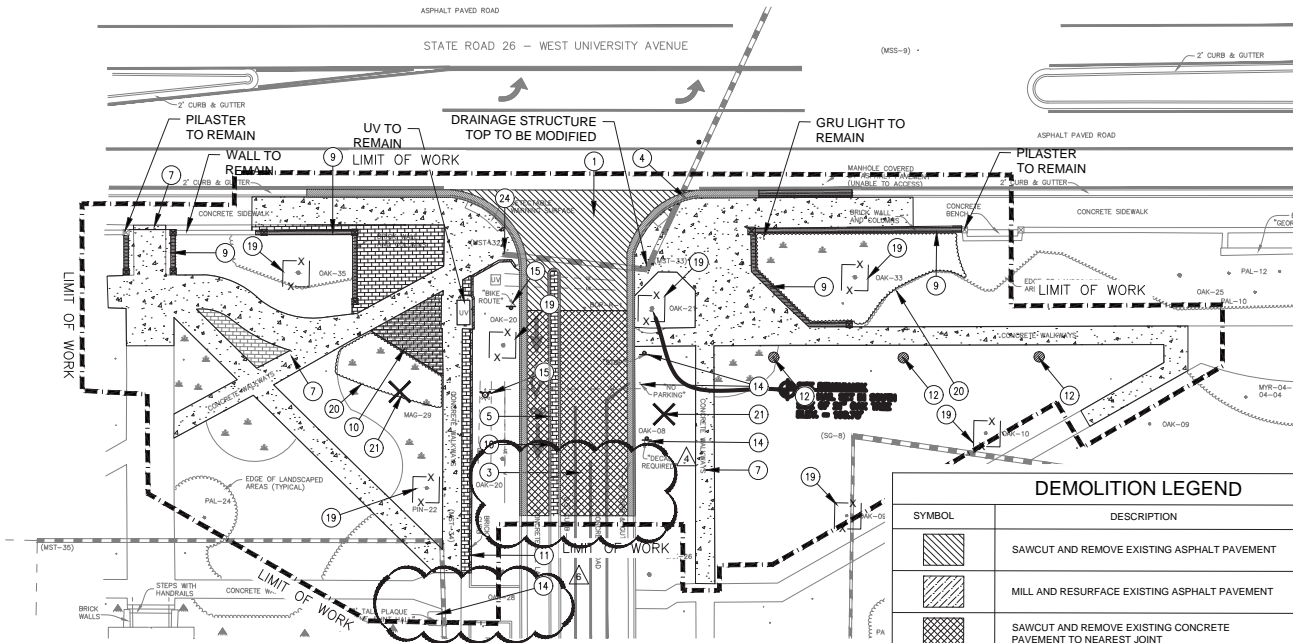
Due to large size of existing trees the VSPZ boundaries do not meet requirements. Tree protection barriers will be installed around base of tree before construction begins to protect all above ground portions of trees from mechanical damage, protect root systems from compaction, and provide awareness of protected areas to equipment operators. There is to be no staging of construction materials below canopy.



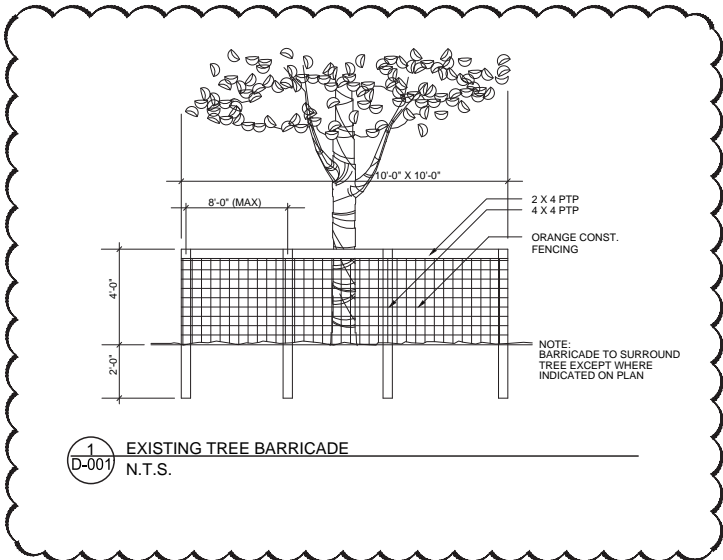
Photographs of Tree Protection and Signage



Construction Documents



DEMOLITION LEGEND		
SYMBOL	DESCRIPTION	NOTES
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT	(1)
	MILL AND RESURFACE EXISTING ASPHALT PAVEMENT	(2)
	SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT TO NEAREST JOINT	(3)
	REMOVE EXISTING CONCRETE CURB AND GUTTER TO NEAREST JOINT	(4)
	REMOVE EXISTING CONCRETE CURB TO NEAREST JOINT	(5)
	REMOVE EXISTING CONCRETE ISLAND	(6)
	SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT	(7)
	ABANDON EXISTING FLOOR DRAIN GRATE	(8)
	REMOVE EXISTING WALL	(9)
	REMOVE EXISTING BRICK PAVERS, STORE FULL UNDAMAGED PAVERS FOR RE-INSTALLATION	(10)
	REMOVE EXISTING BRICK CURB	(11)
	EXISTING LIGHTS TO BE RELOCATED, SEE ELECTRICAL PLANS	(12)
	REMOVE EXISTING BOLLARD	(13)
	REMOVE AND DISPOSE OF EXISTING SIGN	(14)
	RELOCATE EXISTING FIRE HYDRANT	(15)
	REMOVE EXISTING PICNIC TABLE	(16)
	REMOVE EXISTING BENCH	(17)
	REMOVE EXISTING GATE CONTROL	(18)
	INSTALL TREE BARRICADES	(19)
	REMOVE EXISTING SHRUBS	(20)
	REMOVE EXISTING TREE	(21)
	SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT & BASE, AND RECONSTRUCT PER ADD ALTERNATE #1	(22)
	REMOVE EXISTING GROUND TRAFFIC SENSOR	(23)
	REMOVE EXISTING STRUCTURE	(24)
	DEMO NOTE	



Specifications

31 13 00 SELECTIVE TREE AND SHRUB REMOVAL AND TRIMMING

SECTION 1 – GENERAL

1.1 SUMMARY

- A. This section includes general protection and pruning of existing trees and plants that are affected by execution of the Work, whether temporary or permanent construction.

1.2 DEFINITIONS

- A. The Protection Zone shall be defined as the area surrounding individual trees or groups of trees to be protected during construction, and is further defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated.

1.3 SUBMITTALS

- A. Contractor shall provide product data for each type of product indicated.
- B. Contractor shall provide samples for each type of organic mulch in sealed plastic bags labeled with composition of materials by percentage of weight, protection zone fencing, and protection zone signage.
- C. Contractor shall provide a written Tree Pruning Schedule detailing scope and extent of pruning of trees to remain that interfere with or are affected by construction.

- E. Contractor shall provide maintenance recommendations from an arborist, for care and protection of trees affected by construction during and after completing the Work.
- F. Contractor shall provide documentation of existing trees and plantings indicated to remain, which shall establish preconstruction conditions that might be misconstrued as damage caused by construction activities.

1.4 QUALITY ASSURANCE

- A. Arborist shall be an arborist certified by ISA, be licensed arborist in the jurisdiction where Project is located, and be a current member of ASCA, or registered Consulting Arborist as designated by ASCA.
- B. Contractor shall conduct pre-installation conference at the project site.

1.5 PROJECT CONDITIONS

- A. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.

2. Parking vehicles or equipment.
 3. Foot traffic.
 4. Erection of sheds or structures.
 5. Impoundment of water.
 6. Excavation or other digging unless otherwise indicated.
 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.
- B. Contractor shall not direct vehicle or equipment exhaust toward protection zones.
- C. Contractor shall prohibit heat sources, flames, ignition sources, and smoking within or near protection zones and organic mulch.

SECTION 2 – MATERIALS

2.1 MATERIALS

- A. Topsoil shall be:
1. Natural or cultivated top layer of the soil profile or manufactured topsoil; containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 1 inch in diameter; and free of weeds, roots, and toxic and other non-soil materials.
 2. Stockpiled topsoil from areas cleared and grubbed or stripped from locations shown on Drawings or locations stripped as directed by the Utility.
- B. Organic Mulch shall be wood and bark chips, free from deleterious materials.
- C. Protection-Zone Fencing shall be fencing fixed in position and may be previously used materials when approved by the Utility.
1. Plastic Protection-Zone Fencing shall be plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and supported by tubular or T-shape galvanized-steel posts spaced not more than 8 feet apart, and shall be non-fading high-

visibility orange in color.

2. The height of the fencing shall be 4 feet.

- D. Protection-Zone Signage shall be shop-fabricated, rigid plastic or metal sheet with attachment holes pre-punched and reinforced; and legibly printed with non-fading lettering.

SECTION 3 – EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Contractor shall examine the site to verify that temporary erosion and sedimentation control measures are in place. Contractor shall verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones. Erosion and sedimentation control measures are to be as specified in Division 31 25 00 Erosion and Sedimentation Control.
- B. Contractor shall protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Contractor shall protect root systems from ponding, erosion, or excessive wetting caused by dewatering operations.
- C. Contractor shall mulch areas inside protection zones and other areas indicated with 4-inch average thickness of organic mulch. Do not place mulch within 6 inches of tree trunks.

3.2 PROTECTION ZONES

- A. Contractor shall install protection-zone fencing along edges of protection zones in a manner that will prevent people from easily entering protected area.
- B. Contractor shall install protection-zone signage in visibly prominent locations in a manner approved by the Utility.
- C. Contractor shall repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by the Utility.
- D. Contractor shall maintain protection-zone fencing and signage in good condition as acceptable to the Utility and remove when construction operations are complete and equipment has been removed from the site.

3.3 EXCAVATION

- A. Contractor shall excavate at edge of protection zones and for trenches indicated within protection zones according to requirements in Section 31 20 00 Excavation Trenching and Backfilling.

- B. Where utility trenches are required within protection zones, the Contractor shall hand excavate under or around tree roots or tunnel under the roots by drilling, auger boring, or pipe jacking. Contractor shall not cut main lateral tree roots or taproots; cut only smaller roots that interfere with installation of utilities. Cut roots as required for root pruning.
- C. Contractor shall not allow exposed roots to dry out before placing permanent backfill.

3.7 FIELD QUALITY CONTROL

- A. Contractor shall engage a qualified arborist to direct plant-protection measures in the vicinity of trees, shrubs, and other vegetation indicated to remain and to prepare inspection reports.

CREDIT 2.4 | ENGAGE USERS AND STAKEHOLDERS

1. Site assessment process and program plan

Goal: 3 points

Individual site users and stakeholders who participated in the program plan and site assessment process included those individuals identified in Prerequisite 2.1. They represented the following stakeholder groups:

Students

- Faculty
- University Staff:
 - Grounds
 - Facilities
 - Engineering
 - Security
 - IT
 - University Police
 - UF Planning
 - Environmental Health and Safety
 - Athletics
 - Parking and Transportation
 - University Architect
- University Administration
- University Alumni
- City of Gainesville
- Gainesville Community Redevelopment Agency
- Alachua County
- Gainesville Residents

The Newell Gateway project was initially conceived as an integral part of the University of Florida Campus Landscape Master Plan, completed in 2020. As a part of the Landscape Master Plan process, Steering and Stakeholder Committees were established to determine desired areas of campus improvement and an overall campus wide approach to sustainability in the future disposition of roads, campus edges, pedestrian ways, water bodies, open spaces, connectivity to the City of Gainesville and other typologies. Steering and Stakeholder Committee members, who are the ultimate suite users and stakeholders, can be found in those committee meeting minutes (See Appendix A).

As a result of the Campus Landscape Master Plan, thirteen Priority Projects were identified, including Newell Gateway. The initial concept design for Newell Gateway was created at this Master Plan level. Because of its importance to the future of the campus the University advanced the project for detailed design and construction, resulting in an additional level of design scrutiny and review by five standing committees at UF who reviewed the Newell Gateway project at both the schematic design and design development stages. These committees are comprised of university faculty with a particular expertise in the subject matter of the committee on which they serve as well as student representatives. Additional committee members include university staff, students, City of Gainesville and Alachua County representatives and other interested and affected parties. Committee members and who they represent can be found in the minutes of each committee meeting (See Appendix A). Minutes of the Parking and Transportation Committee were not made publicly available. Also included are copies of the presentations that were made to each committee at the schematic and design development phases of the project. These committees include Lakes, Vegetation and Landscaping (LVL), Architectural Review Council (ARC), Parking and Transportation, Land Use and Historic Preservation.

Based on the input of site users and stakeholders, the programmatic and functional needs were identified as:

- Establish a design aesthetic befitting a top 5 public university
- Strengthening the existing tree canopy while assuring diversity of species.
- Improving campus wayfinding
- Improving connectivity throughout campus, city, and county
- Designing vehicular areas to accommodate future use by autonomous vehicles
- Incorporating artful and educational treatment of rainwater on campus
- Enhancing campus edges and creating defined gateways to create a more welcoming campus and strengthen connections to the city
- Providing safe accommodations for pedestrians and cyclists
- Creating consistency of design and materials across campus

2. Schematic design review

As described above, the Schematic design plans for the Newell Gateway project were reviewed by the following committees on the dates indicated:

- | | |
|-------------------------------------|-------------------|
| • Architectural Review Council | December 1, 2020 |
| • Parking and Transportation | December 8, 2020 |
| • Lakes, Vegetation and Landscaping | December 10, 2020 |
| • Historic Preservation | December 15, 2020 |
| • Land Use | February 2, 2021 |

The schematic design plans for the Newell Gateway project were presented to the five UF committees at their regularly scheduled meetings. Copies of the minutes of those meetings are attached (See Appendix B). Highlighted on those minutes found in the Appendix for each meeting is an explanation of the details of the presentation made by the design team, along with committee member comments. Requested revisions were made at the Design Development level.

3. Design development presentation and review

Design development plans for the Newell Gateway project were reviewed by the following committees on the dates indicated:

- | | |
|-------------------------------------|-------------------|
| • Architectural Review Council | February 2, 2021 |
| • Parking and Transportation | February 9, 2021 |
| • Historic Preservation | February 16, 2021 |
| • Lakes, Vegetation and Landscaping | February 22, 2021 |
| • Land Use | March 2, 2021 |

Design development drawings for the Newell Gateway project were presented to the five review committees at their regularly scheduled meetings. Copies of the minutes of those meetings are attached (See Appendix C). Following each presentation, the committee discussed concerns with appropriateness of design, sustainability, safety and security and other issues of concern to the individual committee members. Each one of the five committees approved the design development drawings as presented. Some requested minor modifications to the drawings and requested modifications, if any, were made as the contract documents were completed.

4. Present the design to the public

The design of the Newell Gateway project was developed during the completion of the UF Campus Landscape Master Plan (LMP), prior to retaining the design team to complete the drawings and specifications for bidding and construction. It was at the LMP stage that the design intent was set.

The previously described Steering Committee and Stakeholder Committee members represented a cross section of the entire UF community. Additionally, during the completion of the LMP, 2 meetings were held at the campus student union, open to the public and any UF faculty, student or university staff member. Those portions of the presentation featuring the Newell Gateway design from the overall Campus Landscape Master Plan (See Appendix D).

The project was also shared with the public in multiple websites and newspapers. (See Below).

The Gainesville Sun | Gainesville.com

UF's Northeast Gateway part of efforts to create beautiful, welcoming campus

Carlos Dougnac and Linda B. Dixon Guest columnist
Published 6:00 a.m. ET June 28, 2022



The University of Florida has a new "front door" — the Northeast Gateway, which is the first step in turning the core of our campus into a pedestrian realm.

The Northeast Gateway, accessed from University Avenue, is a major portal to our university and now has a look and feel befitting a top-five institution of higher education. The next phase will be the Union Walk project, which will link Tigert Hall to Tower Plaza, Gator (Corner) Plaza and Newell gateway. In time, we will have a primary walkway through campus that showcases the beauty of our buildings and landscape, with memorable spaces for large gatherings.

The university does not control the properties that border the campus — including areas along 13th Street and University Avenue currently under construction, which are governed by the city of Gainesville. That said, our partnership with the city ensures that new developments are complementary and also address needs of our campus community.



The University of Florida's Northeast Gateway. UF/Clyan Taylor

We do have say over the greenspace within our campus as a whole — from its edges to its core, its roadways to its natural systems. We have prioritized greenspace in 31 conservation areas within the nearly 2,000 acres that comprise our main campus.

These areas were identified in 1995 and reconfirmed in a collaborative process that included faculty, staff and students in 2005. A similar update process is underway now to develop enhanced management strategies for these areas. Together, nearly one-third of our campus, 457 acres, is in designated conservation areas; another 99 acres are designated in other open space categories.

These conservation areas receive our highest efforts to preserve, manage and protect their natural features and status as native habitats for flora and fauna. We have adopted buffers and restrictions to keep them as natural and pristine as possible given their location within an urban environment.

We have creeks, ponds, wetlands and woods; thousands of trees, including heritage trees and pollinator plants; wildlife that ranges from egrets, osprey, owls, bats and woodpeckers to deer, otters and Florida's famed alligators.

Our dedication to conservation helps us fulfill our role as a pilot for the Audubon International Cooperative Sanctuary Program — we were, in fact, the first university in the country to set up university-wide environmental planning standards with this nonprofit organization.

Our campus is beautiful and we are constantly finding ways to enhance its natural and built environments. We know that a quality landscape provides an important sense of identity for a collegiate community. It also plays a part in prospective students wanting to attend UF and in the health and happiness of the students, staff and faculty already here.

Inviting outdoor spaces offer our campus community places to gather and collaborate; to ponder and study; to sit quietly and be refreshed.

Our campus offers a respite from the city that surrounds it. I hope you will visit the new Northeast Gateway, take a walk around the courtyard adjacent to Tigert Hall and see for yourself how our vision for a truly spectacular university environment is taking shape.



The University of Florida's Northeast Gateway. UF/Clyan Taylor

The Gainesville Sun 6/28/22

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UF plans to create an auto-free zone on campus

The university will begin construction on two gateway projects in the late Summer

By Camilla Pereira
Angus Staff Writer

As a result of the deadly accidents of the last year, the bicycle and pedestrian zone will limit vehicles in the north-eastern corner of campus access along Buckman Drive. To maintain transit and auto access, the former one-way street Road will now become a two-way road, according to the Transportation and Parking Strategic Plan.

The area will stretch diagonally across the core of campus, uniting the Plaza of the Americas and the Plaza of the Union. The Northeast Gateway project, which will incorporate more pedestrian access into campus and a connection from UF to the city, respectively.

The changes are expected to make campus easier to navigate as the university works toward becoming more pedestrian-friendly by 2025, Director of Planning Linda Dixon said.

Along with 13 other projects planned to take place over the next three to four years, construction of the two gateways will begin in August, as proposed in UF's Landscape Master Plan.

Kim Walsh-Childers, a UF journalism professor, is concerned about whether this parking loss will make finding a parking spot even harder.

"There are faculty who have to drop kids off at daycare, and they can't do that," she said.

SEE TRAFFIC SAFETY PAGE 4

Maggie Li / Angus Staff

Jeremy Mall, 25, a culinary teacher at East Side High School, practices rock climbing in a homemade crop top at the Knot Climbing Gym on Tuesday, June 1, 2021. Mall is an avid "Crop Top Tuesday" participant, and he said climbing in crop tops is "fun and freeing."

Fewer parking spots

TRAFFIC SAFETY, from pg. 1

New traffic signals will also be implemented in Northwest High Street to improve pedestrian safety.

The university permanently removed motorcycle and scooter parking in an area near Library West to accommodate the construction as of May 16, senior director of Transportation and Parking Services Scott Fox wrote in an email.

Paula Mello, a 24-year-old UF English and sustainability studies senior, rides her scooter to and from class. She has struggled to find parking on campus and even shattered her mirror trying to cram her scooter into the crowded Library West parking lot.

"I feel like parking on campus is always a struggle everywhere, so I feel like getting rid of parking is not a straight out, perfectly great idea," Mello said.

To combat the loss of motorcycle and scooter parking, the Transportation and Parking Strategic Plan recommended implementing six new parking zones. Following the university's goal to reduce internal mobile traffic, these spots will be outside the core of campus.

Meanwhile, the Northeast Gateway will serve as the major connection from UF to the Innovation District in downtown Gainesville, providing a drop-off area next to Tigert Hall.

Because of the new campus vehicle restrictions, RT3 bus routes are expected to be rerouted around the bicycle and pedestrian zone, according to the Transportation and Parking Strategic Plan.

Falina Mitra, a 22-year-old UF alumna, used to take the bus to campus, but after construction started this year she considered purchasing a bike to get to her classes.

"I feel that changing the bus routes wouldn't really help students like me and others that heavily rely on that as a means of transportation," she said.

RT3 will examine and test out new routes and schedules in hopes of minimizing changes and finding optimal routing for the community, according to the Transportation and Parking Strategic Plan.

Plans for the auto-free zone stem back to 2018, but the Landscape Master Plan and the Transportation and Parking Strategic Plan wasn't adopted until June 2019 by UF's Board of Trustees. Both plans were later evaluated and incorporated into the Campus Master Plan in December 2020, Dixon said.

The university also encourages students, faculty and staff to bike and walk to campus to minimize vehicular traffic.

"To experience that as a more park-like environment that really provides, pretentious bicycling and walking are vehicles, I think that that will be a very transformational change," Dixon said.

@CamillaPereira
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the independent florida alligator 6/7/21

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Higher Education

University of Florida Campus Gateway Improvements Gainesville, FL

VHB is helping fast-track the completion of two new entry gateways to accommodate the University of Florida campus community. The Northeast and Newell Gateways serve as main entries into the campus, an area where pedestrian safety has been a concern, as well as a link to the Innovation District in Downtown Gainesville.

VHB designers and engineers are working with the University, City of Gainesville, and Florida Department of Transportation on the enhancements, which include moving a gate house on the Northeast Gateway to allow for pedestrian and vehicular-friendly drop-off, adding bicycle and bus lanes, new hardscape with pavers, and a dedicated space for a future art installation. Two parking areas are being retrofitted with environmentally friendly stormwater treatment features via bio-retention swales which will collect stormwater runoff from the asphalt. The runoff will be treated within the swales before entering the stormwater system. The Newell Gateway improvements consist of closing the vehicular driveway at University Avenue and replacing it with a brick-paved plaza.

With features that elevate sustainability and pedestrian safety, the Northeast and Newell Gateways will serve as an important first impression for visitors and students and help orient parking and campus entry for both pedestrians and vehicular traffic.

VHB - <https://www.vhb.com/institutions/higher-education/university-of-florida-gateway-improvements/>

SECTION 2 - APPENDIX

A. Appendix for Site assessment process and program plan



meeting notes

To:	Erik Lewis	Date of Meeting:	December 12-14, 2017
Company:	University of Florida	Meeting Number:	1
Project Name:	Landscape Master Plan	Project No:	
RE:	December 12-14, 2017 Campus Visit		
Recorded By:	Ruth Loetterle		
In Attendance:	See below for specific meeting attendees		

Note: Any errors or omissions to meeting note content should be reported to the writer within five working days from date of distribution to ensure reissue; failure to do so establishes the following as record copy.

Tuesday, December 12

Kick-off Meeting

In attendance: Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, Donald Wishart, DJ Silverberg, David Sowell, Ruth Loetterle

A review of figures in the Campus Master Plan

Figure 1-1 Planning Sector Boundaries

- UF is divided into Planning Sectors that establish standards for building heights, setbacks, light fixtures.
- Design standard set by the LMP may be more comprehensive in their application

Figure 1-3 Conservation, Green Space Buffers, and Urban Parks

- “Urban Park” designation is reserved for significant open space
- Conservation Areas are to be planted with native species only

Figure 1-4 Open Space Connections

- Pedestrian Connections are to be respected by new projects
- Shared-Use Paths are 12’ wide off-street bikeways/trails, some paved in permeable asphalt

Figure 1-5 Open Space Enhancement Priorities

- May inform the selection of 10 projects
- Significant trees – Tree Walk isn’t up to date

Figure 1-6 Urban Design Connections

- Emphasis on street trees and a second row of trees behind within City
- Tina Gurucharri has suggested planting native flowering trees as the second row on edge of conservation areas
- Tree mitigation policy currently provides much protection of small trees, but perhaps more protection is needed for large trees. Considering amending policy to allow the funding of site enhancements in lieu of contribution to tree fund
- Archer Road project – traffic slowed to 20 mph, bike lane added, some turning lanes removed, mid-block crossing added (serves 4 hospitals, all destination traffic)

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Boston Knoxville



- Reitz Lawn – General idea is strong – no new planting/replacement in center, shaded N/S linear walks, bike route on N side. Design merits an additional look as funding of projects is beginning – how to route past ballroom and accommodate fire lane; how to separate bikes from peds (if bikes use sides, the placement of benches is complicated); how to enhance links from the north, loading dock between CSE and the HUB intrudes on ped connection (possibly shift to west side of HUB); how to make slope west of Marston usable; how to simplify walks
- Hull Road at 34th discussed as future enhanced west gateway
- Dairy Pond – LA classes have studied, mostly unmanaged, Facilities added concrete pad on N side in 2001 and cleared in last 2 years in response to security concern and effort to keeping plants to under 4'
- Ocala Pond – Dean of Fine Arts interested in enhancing to contribute to entry experience and create usable space, how to provide views and still have wildlife value
- Graham Pond – not natural pond, previously planting of natural edge not maintained and mowing to edge has resumed

Updated Urban Design Connections Plan

- Enhance connections -- between historic core and medical centers (hills on Newell and Central complicate the connection); between Health facilities on 34th and those on Archer; between Cultural Plaza and historic core
- Connection from existing and proposed garages at Lemerand lot to Reitz and past Physics service and observatory will become critical.
- Auto-restricted zone (Buckman to 13th; Stadium to University) – no buses, transit mall with reversible vehicles, incorporation of hydraulic bollards
- Bus routes – heavily used, large vehicles, some are city routes, McCarty is a major transit transfer stop
- Inner Rd is dysfunctional with diagonal parking and bike route
- Scooter management is needed, most users are former bus riders, most live within 1 mile of campus, many in Greek housing east of 13th St and students involved in athletics
- Undergrad parking is available at dorms and at 34th St
- Campus Greenway is part of a 30 mile trail connection to Depot Park

Guidelines

- In addition to furnishings, need to look at memorials and plaques as well as handrails.

Wednesday, December 13

Meeting with the Faculty of the College of Design, Construction and Planning

In attendance: Linda Dixon, Erik Lewis, Tina Gurucharri, Peggy Carr, Dan Manley, Chris Jones, Frank Bellomo, Ruth Loetterle

Ideas from Dan Manley's fall studios:

- Gator Pond – addressed current addition of untreated stormwater by replacing pipe from parking with vegetated swale
- Turlington Plaza – proposed alternative bus route (Stadium, Buckman, Union, 13th, Inner, Newell, McCarty) to avoid traffic along Newell at Turlington in order to have ped plaza space span the Newell roadway
- N/S bike linkage to E/W bike trail via route west of Black Hall, due to its flatter terrain



- Woonerf between HUB and Newell – very congested area, conflicts between bus stop and ped connection; (recent shifting of bus stop has helped) students proposed use of Fletcher for return routes, and Buckman only for through route buses

Ideas from Peggy Carr’s fall studios:

- Concern with earlier letter that allows Lake Alice to receive untreated campus stormwater; campus needs to model good stormwater management
- Study of campus sinkholes – Ocala, Gator, Dairy, and Liberty – to achieve sedimentation reduction, Lake Alice water quality improvement and nutrient reduction; revealing invisible processes appropriate to the campus aesthetic; proposing intervention for space types; studied precedents for treating field run-off, such as NFL (Foxboro, MA?) and European fields (most nutrient loading from athletic fields, stormwater from the stadium goes to Reitz ravine, causing erosion); studied the balancing of public access with habitat needs and their contribution to the historic campus fabric
- Current and possible campus stormwater treatment – (LID stormwater management techniques have become part of construction standards) basin under building at PK Yonge, O’Connell lot islands with trees, lawn and raised drains, Yulee pit redesign as a detention basin, Reitz Lawn and Vet School dog walk as broad swales

Ideas from Tina Gurucharri’s fall studios:

- Opportunity to treat stormwater at campus gateways – Yulee Pit and 34 St to serve as a teaching tool and as a model for the City
- Potential to create parallel systems of swale and perforated pipes on campus for stormwater management
- Opportunity to celebrate/inform students about stormwater – 79% of students interviewed about stormwater on campus were unaware of campus sinkholes

General Campus Input:

- University Avenue – selectively remove walls at back of sidewalk; create a garden walkway within the campus paralleling the sidewalk
- Newell Plaza – work with City to combine NW 16th St with Newell intersection, move shelter, integrating shelter at edge with walls, move scooters out
- Gateways – each should have an element that create a unique photo opportunity
- Tigert Hall – provide a VIP entrance, locating it on the east side would replace curbside parking spaces with a bus stop and add a drop-off loop, locating it on the west side would require coordination with future parking garage
- Bike /pedestrian zones – how to direct compatible usage
- Wayfinding – campus design with visual coherence that intuitively helps navigate a campus
- Service areas – the location of service areas should be restricted from major ped connections

Student Collaboration with LMP Team:

- Dan’s students will be photo documenting campus hardscape, which can be shared
- Charrette on Tuesday, February 20 at 4:00 for one of the selected ten spaces, to help students more quickly commit to an idea and study it
- Followed by presentation by LMP team at 6:00



Thursday, December 14

Steering Committee Meeting

In attendance: Carlos Dougnac, Linda Dixon, Erik Lewis, Mark Helms, Tina Gurucharri, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

- LMP team to meet with Facilities Services staff in January to solicit input – Tom Wichman, Jason Haeseler, and Dustin Jackson.
- Dustin wants to take holistic look at campus stormwater.
- LMP team to meet with Gail Hansen de Chapman of Lakes, Vegetation, and Landscaping Committee in January
- Residential area enhancements are currently undertaken by Housing; Facilities Services does mowing
- Much campus utility work is slated for the next five years, offering great potential for implementing site enhancements. An understanding of the schedule will be helpful in selecting the ten campus areas for study in the LMP, possible conference call prior to the next campus visit
- A rethinking of campus access should be undertaken; LMP team should meet with UF staff needing special campus access to discuss how to do business in the future, not merely continuing the way it has been done in the past

Proposed Meeting Summary (including recent meeting invitation/emails)

January 18-19, 2018

- Meet with Tom Wichman, Gail Hansen de Chapman, Jason Haeseler – Thursday, time tbd
- Meet with Nancy Chrystal-Green of Student Affairs – Thursday, time tbd
- Meet with Vice Presidents – Friday, January 19, 10:00 – 11:00
- Stakeholder meeting – Friday, 1:00-4:00
- Debrief with Project Steering Committee – Friday, time tbd

February 2018

- Meet with Project Steering Committee – date/time tbd
- Meet with transportation consulting team – Tuesday, February 20, 1:00 – 2:00
- Charrette and presentation with DCP students – Tuesday, February 20, charrette at 4:00, presentation at 6:00
- Meet with transportation consulting team – Wednesday, February 21, morning

END OF MEETING NOTES



meeting notes

To:	Erik Lewis	Date of Meeting:	January 18-19, 2018
Company:	University of Florida	Meeting Number:	2
Project Name:	Landscape Master Plan	Project No:	115095
RE:	January Site Visit		
Recorded By:	Ruth Loetterle		
In Attendance:	See below for specific meeting attendees		

Note: Any errors or omissions to meeting note content should be reported to the writer within five working days from date of distribution to ensure reissue; failure to do so establishes the following as record copy.

Thursday, January 18

Campus Utilities Meeting

In attendance: Jason Haeseler, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

Sector approach to upgrading utilities

- Campus is divided into 44 sectors, boundaries are typically roadways
- Prioritization of campus utility projects has identified most critical projects on campus. Work on that project is then packaged with all other utility projects within that sector to minimize repeated excavation and repair

Project to interconnect three chiller plants in North districts – at Weil, McCarty, Walker Halls

- All three are at capacity and at end of life, need to interconnect to shed load and make improvements to individual plants
- #1 priority is the connection of Weil and McCarty plants – connection will be taken down Gale Lemerand Dr, between Bldgs 0719 and 0720, and through the Union Lawn
- Connection of McCarty to Walker will be taken east of HUB, up Buckman Dr, east on Union Rd
- New plant at McCarty may be built west of existing, closer to Constans Theatre (Bldg 0150 is one of oldest on campus)
- New plant at Walker will be 2-story – area will be quieter and cooling tower addition to Walker Hall can be returned to Walker for repurposing (or removed)

Bridged sidewalk at Ben Hill Griffin Stadium

- Old track stands were left in place and bridged over; sidewalk (not road) on north side of Stadium Road is on a bridge

Other Projects

- Steam system will be taken through 13th St tunnel to Norman Hall
- Gale Lemerand Garage to start summer 2018
- Garage considered for Tigert Hall would be modelled on garage at Norman Hall



Thursday, January 18

Meeting with the Facilities Services Grounds Department

In attendance: Jason Haeseler, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Tom Wichman, Grounds Superintendents – Darrell, Donna, James, Phillip, and Russell, Ruth Loetterle

Campus Furnishings

- Benches – Keystone bench used at POA costs \$1800 vs \$120 for wooden bench. Dedicated benches installed at Medical campus were in response to a request with limited funds
- Lighting – 7000 fixtures on campus, an annual replacement program would enable the campus to get a better price from vendor
- Brick “tabling” tables – each edge brick is pinned and grouted in place
- Brick walls – brick cap allows for quick and easy repairs, not requiring the ordering of a new cap; precast caps show age with staining and skateboarders use; peaked cap was used at Heavener Hall wall to discourage skate boarders
- Bike racks – owned by Transportation and Parking; white vinyl coated racks are going away
- Receptacles – owned by Resource Management; mixed reviews on Big Belly system; false readings, burst bags, gum on sensors are a problem; have a 10-year contract. Covered receptacles are a must – keep trash from blowing and critters out
- Fountains – Building Maintenance maintains
- Art – piece at Newell Hall was a late addition to the project; multiple points of contact in the turf compounds maintenance
- Signage – location in turf compounds maintenance; lack of uniformity in design, height, alignment, and installation creates visual pollution
- Brick walks – prefer 4” concrete base in high traffic areas, areas subjected to vehicular traffic, or adjacent to trees; bricks set on sand at Fine Arts are settling creating a maintenance headache
- Bollards – removable bollards are not always replaced leaving hole as a hazard
- Standards should reflect district identities
- “Or equal” clause is required; campus bikeway project was a DOT project and an exception

Planting

- Turf – tailgating occurs on any lawn area, damaging lawns; Ole Miss has good quality turf despite tailgating
- Importance of the right plant in the right place
- Hammocks – haven’t seen damage to trees, but beds get trampled by students accessing hammocks; tight spacing of palms at Newell Hall to accommodate hammocks requires hand mowing
- Large beds are a problem for maintenance

Operations

- Parking spaces and access – spaces need to be provided so staff don’t have to pull off on lawn areas; service area at New Chemistry is good; service along Stadium Rd east is challenging
- Move-in/move-out days challenge lawn
- Steam lines – problematic—killed large live oak on Museum Rd; agave gardens are low maintenance solution where there are leaks
- Irrigation – two systems on campus, Weathermatic and Rain Bird; drip irrigation installed on LEED projects is hard to maintain; prefer rotors in lawn areas and pop-ups in plant beds



- In-house construction – boardwalks, stairs, porches, walks, brick walls
- Dumpsters – need to be effectively screened, use of compactors would eliminate four dumpsters, but footprint is bigger
- Lifts used for building washing – parked in the landscape on the east campus to minimize travelling time back to Facilities Services
- Golf carts - trying to limit use, other campuses have had problems

Top ten areas of campus for improvement

- North lawn at Ben Hill Griffin Stadium – traffic should be kept off except for game day; poor quality lawn, roots of trees exposed in detention pond; trucks take short cuts through the area
- West side of Buckman Drive – tired landscape, palms planted at New Chemistry, planters installed by Facilities remedied former worn dirt areas; originally Washingtonian Palms; Date palms flank street north of University Ave
- Physics – where live oak was lost; replanting has been designed and plants are ordered; connection to new parking garage south of Physics is complicated; steam tunnel passes through the area, helium storage for all of campus in SE corner of Physics, sludge trucks pass through area weekly from Water Reclamation Sludge Bldg to the south out to Gale Lemerand Dr.
- Fine Arts Courtyard – preliminary study has been done
- Reitz Union Hotel drop-off and South Side of Bookstore – area between Bldgs 0719 and 0720, west of Reitz Union is most intense utility corridor on campus; pedestrian problem exists at corner of Reitz Union Dr and Museum Rd
- East of HUB

Other campus areas for improvement

- South side of Shands on north side of Archer Rd – tired landscape, poor lawn, drainage problems; area to become a staging area for two years during construction of chilled water line
- Northwest corner of Norman Hall – heavy tailgating challenges the landscape
- Service areas in the historic core in general – services need to be consolidated, dumpsters need to be effectively addressed, parking needs to be provided so trucks don't block walks or park on lawn
- Specific service areas in the historic core – east side of Library West, northwest corner of Turlington Hall (terminus of view travelling south on Buckman Dr); Sisler Hall service area compromises nice courtyard on north side
- Tigert Hall – west side is unattractive, landscape on east side is tired, contractors park on lawn at south side
- West side of Broward Hall – dining hall formerly in building
- Weedy slope along 13th St at Cypress Hall

Action Item: Tom Wichman to provide list of plants that work well on campus

Next Meeting: April 2017



Thursday, January 18

Lunch Meeting with Gail Hansen

In attendance: Gail Hansen, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, Ruth Loetterle

Areas for campus improvement

- South Side of Lake Alice – tall grasses obscure views to lake, removal and addition of a walkway would open lake to greater use
- Botanical garden –UF is a land grant university without a botanical garden; Wilmot Gardens is maintained by townspeople/master gardeners
- Hull Rd entrance – street trees in first section

Possible list of ten areas for conceptual design

1. Stadium Road West
2. Inner Road
3. Union Road
4. Newell Drive
5. A gateway
6. South side of Physics
7. Dairy Pond and connections
8. Area between Wertheim addition and Reitz Union
9. University Avenue – two paths, on either side of walls, bike path component
10. A creek
11. Business School courtyard

Thursday, January 18

Meeting with Student Affairs re NPHC and MGC site selection

In attendance: Nancy Chrystal-Green, Reggie Lane, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, Ruth Loetterle

Goals for NPHC and MGC sites

- Recognition of their presence on campus and communication of their presence to prospective students
- Incorporation of reverence, some rituals may be associated
- Do not need to accommodate performance space; that will remain in Turlington Plaza
- Coming out is associated with a photo op
- Recommend two separate sites
- Could be in pavement with an associated plaque in benches/wall
- Possible sites east of Constans Theatre and on redesigned entry walks to Union Lawn

NPHC and MGC

- NPHC member organizations are fixed at nine nationally
- MGC member organizations could expand beyond the current eleven
- Campus membership of individual organizations is between 3 and 40



Friday, January 19

Meeting with Project Steering Committee

In attendance: Carlos Dougnac, Linda Dixon, Erik Lewis, Mark Helms, Tina Gurucharri, Chris Jones, Frank Bellomo, Ruth Loetterle

LMP should provide direction for residence halls

LMP should provide direction to guide infill of first floor of Reitz Union ballroom

UF would benefit from having a campus landscape architect in PDC and another LA in operations

LMP guidelines will be incorporated into UF's Design Guidelines

Street sections in LMP will establish build-to lines

Campus lighting should be Dark Sky compliant

Action Item: Contact student group doing research on pedestrian tunnel safety

Friday, January 19

Meeting with Charlie Lane and Curtis Reynolds

In attendance: Charlie Lane, Curtis Reynolds, Carlos Dougnac, Linda Dixon, Erik Lewis, Mark Helms, Tina Gurucharri, Chris Jones, Frank Bellomo, Ruth Loetterle

University Trustees want UF to become one of the nation's Top Five Public Universities

Strengthening the campus core

- Closing Union Road to vehicular traffic (including buses) would be transformative
- Important to communicate these transformative moves and the walking distance of 2 minutes

Establishing a unified image for UF

- Many tired spaces
- Sixteen college and sixteen institutes at UF pose a challenge to establishing a unified image
- North and south campuses lack a consistent language
- Unified streets with an appropriate scale and consistent canopy are essential
- LMP should provide the Cultural Plaza with a palette
- Overhead wires will be going away in five years

Campus introductions

- Lawn north of Ben Hill Griffin stadium provides introduction to UF from the west (Athletics is concerned about RV parking on lawn north of stadium; consider parking RV by new baseball field)
- Intersection of Museum with 13th provides introduction to UF when approached from the south (wooded edge just to the south could provide a new opportunity)
- Replacement of the electronic marquees at 34th St and Gale Lemerand Dr can be considered

Implementing the LMP

- Campus projects have a \$2 mil threshold; keeping some projects under this amount would assist implementation
- Important to implement projects giving the "biggest bang for the buck".
- Identification of 8-10 areas for refreshing by in-house Facilities staff would assist implementation



Friday, January 19

Meeting with Stakeholder Committee

In attendance: Linda Dixon, Erik Lewis, Peggy Carr, Christopher Nelson, Wendy Thomas, Cydney McGlothlin, Howie Ferguson, Jason Haeseler, Matt Williams, Gail Hansen, John Barrow, Katerie Gladdys, Mario Agosto, Gregg Clarke, Tom Wichman, Mark Clarke, Hal Knowles, Andrew Meeker, William Waters, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

Suggestions for campus enhancement

- Improve campus wayfinding
- Provide sidewalk on west side of 13th St at Cypress Hall, possibly by eliminating median in 13th St
- Connect county, city, campus – Pace/Pause/Percolation. Pavement to Ponds, Plants to People
- Use topo change as rationale for design change
- Construct garages with ability for future conversion to building space
- Design roads with look to future use by AV vehicles and smaller roadway widths
- Incorporate artful, educational treatment of rainwater on campus
- Extend walkway inside walls along University Ave further west
- Enhance pedestrian connection from business school through Carlton Plaza to Gator Pond; consider removal of Little Hall Express so that connection terminates at Gator Pond (improvements to cooling tower will allow appendage to Walker to be removed or repurposed)
- Broward entry
- East side of Broward dining
- East side of Constans Theatre
- Stadium St – a well-used route for students living east of campus, still too much emphasis on cars
- Dedicated drop-off north side of Library, a safe “kiss and go”

Top ten areas of campus for improvement

- Enhance campus edges – building in flexibility in plan to allow for adaptation and updating
- Create symbolic entry points for the campus that create a sense of place
- Connect campus to Downtown at 2nd Ave – to encourage students to explore Downtown
- Provide space for a kiss and go drop-off
- Reconnect the heart of the campus – prospective students are not excited by Union Lawn, excitement starts at Marston/POA
- Interconnect campus green spaces and open space; create a large central green space that other campuses have
- Emphasize a regional sense of place
- Emphasize water on campus – enhance ponds, create walkways/boardwalk at Lake Alice; integrate ponds into LID; use art to help students visualize water cycle on campus
- Accommodate pedestrians and cyclists
- Activate Stadium Road east with public art – provide drop-off for unloading of heavy art materials
- Address and enhance services areas
- Consider turf growth when planting trees (no options for shade-loving turf)
- Provide planting standards so that tired plantings can be replaced
- Create consistency across campus



Friday, January 19

Meeting with Dan Manley's Landscape Architectural students

In attendance: Dan Manley and 15 students, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

Variety of paving types exist on campus; predominantly concrete pavement; grass curb is used at bat houses

Variety of wall types exist on campus; complementary vs consistency discussion

Action Item: Dan Manley to forward students' analysis and campus photos

END OF MEETING NOTES



meeting notes

To:	Erik Lewis	Date of Meeting:	January 26, 2018
Company:	University of Florida	Meeting Number:	3
Project Name:	Landscape Master Plan	Project No:	PL-00012
RE:	Project Areas for Conceptual Design		
Recorded By:	Ruth Loetterle		
In Attendance:	Carlos Dougnac, Linda Dixon, Erik Lewis, Mark Helms, Tina Gurucharri, Chris Jones, Ruth Loetterle		

Note: Any errors or omissions to meeting note content should be reported to the writer within five working days from date of distribution to ensure reissue; failure to do so establishes the following as record copy.

Thirteen campus project areas were selected for conceptual design, expanding the number from the original ten to allow the incorporation of the four civic spaces identified by the Strategic Development Plan. The projects were selected to include a variety of campus spaces to serve as typologies to guide the improvement of other similar projects. Three of the areas were identified as “transformative” projects on a campus-wide scale. All thirteen projects will be highly impactful.

Three Transformative Projects

1. Union Road from Tigert Hall to Dauer Hall
2. Turlington Plaza
3. Gator (Corner) Plaza (the intersection of Stadium Road and Gale Lemerand Drive)

Impactful Campus Projects

4. North lawn of Ben Hill Griffin Stadium
5. Gateway at the intersection of Newell Drive and University Avenue, including campus edges and Newell Drive to meet the recent reconstruction of Newell Drive at the Plaza of the Americas
6. Business School courtyard behind Matherly Hall
7. Gateway at 2nd Avenue and rear of Tigert Hall
8. Inner Road
9. East end of the Union Lawn – Dairy Pond/South and west sides of Marston/East and south side of the HUB, including the recognition of the NPHC and MGC in the important connective spaces south of Marston and east of the HUB
10. Stadium Road from Turlington Plaza to Gator Plaza
11. North side and west end of the Union Lawn
12. Linkage of Union Lawn to Museum Road
13. Pedestrian/bike linkage of Museum Road to Gale Lemerand Drive south of Physics and to Center Dr

The selected areas represent the following important typologies for the UF campus:

- pedestrian gateway
- vehicular gateway
- courtyard
- pond
- vehicular core street

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- non-vehicular core street
- campus edge
- bike/ped corridor
- service area

Other important areas for improvement, such as the campus edges along University Avenue / 13th Street, housing courtyards, and Newell Drive south of Inner Road will be addressed in the guidelines, on the overall Landscape Master Plan drawing, and in street sections, where appropriate. Their future improvement will also be guided by the conceptual design for the relevant typology.

The LMP Guidelines will address the incorporation of public art into the campus.

CRJA will follow up with an estimated fee for the increased scope.

END OF MEETING NOTES



meeting notes

To:	Erik Lewis	Date of Meeting:	February 20-21, 2018
Company:	University of Florida	Meeting Number:	3
Project Name:	Landscape Master Plan	Project No:	PL-00012
RE:	February Site Visit		
Recorded By:	Ruth Loetterle		
In Attendance:	See below for specific meeting attendees		

Note: Any errors or omissions to meeting note content should be reported to the writer within five working days from date of distribution to ensure reissue; failure to do so establishes the following as record copy.

Tuesday, February 20

Stadium North Lawn Meeting

In attendance: Laird Veatch, Bill Smith, Erik Lewis, Chris Jones, Frank Bellomo, Ruth Loetterle

Athletics wants to improve the stadium area as the northwest gateway to the campus

- Athletics Department is embracing Collegiate Gothic; development of Gator (Corner) Plaza will need to blend this new approach with previous approach
- Future enhancement of the front porch of the stadium will be built within the same footprint
- Support the replacement of the existing entry signs – they block views of the stadium area

Hospitality emphasis on game days for north lawn (see attached plan provided by Athletics)

- Maximize open, level lawn for use on game days – will require removal of some trees
- Desire symmetrical treatment of north lawn
- Tents for major donors will be erected flanking the central walk
- Music an Gator garden
- Major donor parking along east, west sides, perhaps on former roadbed of northbound Gale Lemerand
- Dumpsters located near chillers at SE corner, but is a major student approach
- Stormwater detention alternatives to expand level area – allow shallow detention over the whole site; shift eastern basin further east; exfiltration is not compatible with large vehicles

Tuesday, February 20

Meeting on site regarding the Newell Drive /16th Street intersection at University Ave

In attendance: Deborah Leistner, Emmanuel Posadas, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, Ruth Loetterle

- Gainesville is currently funding a pedestrian crossing study; traffic movement is being videotaped
- The City is open to expanding the intersection to allow crossing in line with both streets
- The City would consider informally closing the block of NW 16th St between 1st Ave NW and W University Ave to vehicular traffic through the placement of planters to help simplify the intersection at University
- Possible routing of bicycle traffic to 16th St north of University to promote a safe crossing of University at 16th Street

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Friday, February 21

Joint Transportation and Landscape Master Planning Teams Meeting

In attendance: Carlos Dougnac, Craig Hill, Scott Fox, Tina Gurucharri, Linda Dixon, Erik Lewis, Nat Grier, Rohan Sadhai, Jordan Crandall, Chris Jones, Frank Bellomo, Ruth Loetterle

Enhancement of campus edges

- Provision of sidewalk along 13th Street adjacent to Cypress Hall – parking for disabled residents and caregivers at Cypress Hall is required
- Removal of parking between Buckman and Fletcher Drives and relocation of scooter parking to this area – lot currently accommodates Bull Gator parking on game days
- Creation of additional Kiss and Ride locations at campus edges – in front of Tigert Hall?
- Advisable to get ahead of Uber/Lyft use and provide designated pick-up/drop-off area at campus edges

Ped/Bike Gateways

- Identify gateways at Stadium Road and Newell Drive as ped/bike entries
- Offset of campus and City streets to be incorporated into a single large gateway, to which bike routes in the City are directed for safe crossing of University Ave and 13th Street

Impact of the expansion of non-vehicular zone:

- Accommodation of access to evening performances at Auditorium and the Music Bldg.
- Accommodation of disabled staff and students
- Integration of University shuttle with RTS – linear transfer station along Museum Road? RTS stops along perimeter with expanded University shuttle system?
- Rerouting of University 100 series bus routes that currently use Union Road and Newell Drive to turn around at the center of campus
- Precludes Newell Drive as dedicated bus route from University to Medical Center in response to the City's wayfinding concerns; signage and clarity of landscape can address
- Move in/move out days – possible solutions using scheduling, carts, and volunteer moving assistance
- Additional enforcement on game days; possible pre-assignment of tailgating space

Redesign of Inner Road:

- Accommodation of increased evening discharge at Inner Road – light is currently slow
- Creation of cycle track on Inner Road; will need to accommodate crossings of three major N/S campus pedestrian routes – at either side of DCP and at Ocala for pedestrian traffic from tunnel
- Restriping of Inner Road – RTS needs an 11' min lane width; can get by with 10.5'
- Enlargement of turning radius at Inner Road and Newell Drive – existing radius at Buckman Drive and Union Road is inadequate for buses

Enhancement of Stadium Road:

- 15' wide vehicular lanes offer space for bike lanes
- While traffic speed could accommodate mixing of bikes and vehicles, consistency in bike ways for campus should be the goal; buffered bike lanes could be created as the first phase
- Cycle track is less compatible with the large number of destinations along Stadium Road

Transportation MP milestones – recommendations to be made in April/May with final report in mid/late summer; these are similar to Landscape MP milestones



Friday, February 21

Meeting with Operations Staff and Joint Transportation and Landscape Master Planning Teams

In attendance: Carlos Dougnac, Craig Hill, Scott Fox, Linda Dixon, Erik Lewis, Katie Karwan, Jason Haeseler, Derrick Bacon, Gregg Clarke, Chief Linda Stump, Lisa Deal, Bill Properzio, _____ (man sitting between Jason and Derrick Bacon at the corner), Nat Grier, Rohan Sadhai, Jordan Crandall, Chris Jones, Frank Bellomo, Ruth Loetterle

Impact of the expansion of non-vehicular zone:

- Accommodation of reduction in parking, both accessible and other – possible expansion of parking at Hough Hall by employing 90 degree parking
- Accommodation/enhancement of transit facilities to ensure that ridership is not negatively affected; dedicated Newell Avenue bus does not need to be advanced
- Accommodation of service and delivery vehicles – analysis of St. Augustine’s accommodation of service vehicles may serve as a guide; ped/bike ways will be constructed to accommodate heavy loading
- Attention to safety issues for nighttime movement on campus; current exploration of bringing evening classes to Historic Core for issues of safety
- Provision of adequate lighting for movement throughout the non-vehicular zone
- Adjustments to Fed Ex and UPS, and other private delivery services as they will be restricted from use of ped/bike ways; Business School is a regular recipient; UF will need to explore alternatives – development of a University delivery system to individual buildings (in use at other institutions); provision of designated parking spaces for walk-in delivery by private delivery to buildings (currently in practice at Oaks Mall); possible increase to pricing structure
- Adjustments to current loading areas such as at Fine Arts for delivery/drop-off of materials; gas deliveries to Chemistry and Williamson will not be affected
- Modifications to waste collection to be considered – possibly consolidated spaces for waste collection with ease of access; use of compactors to reduce number of locations; some areas may be walked in
- Continuation of early morning trash collection for issues of safety in busy areas
- Consideration and incorporation of Facilities Services zoned service areas proposed by Mark Helms to provide easier access to materials
- Facilitation of a cultural change among Facilities Service staff
- Accommodation of new routes such as Inner Road for two-way bus traffic, ensuring radii are adequate
- Employment of different bollard system, technology-operated, for safety – ensure that space adjacent to bollards does not permit movement around the bollards, especially for very public areas such as the O’Connell Center
- Adjustment in University policy regarding scooters
- Facilitation of a cultural shift among the community to ensure that vehicles do not use ped/bike ways
- Enhancement of service areas – the service area at Hernandez Hall is a good model
- Accommodation of City and RTS concerns re University/Downtown transit connections – accommodate City bus turnaround at Tigert Hall, possible bus pull-off in front of Tigert

Additional Post-meeting input

- Consider providing dedicated service parking at ends of three north/south pedestrian routes that occur between Newell Drive and SW 13th Street



Friday, February 21

Meeting with CPPEC

In attendance: Charlie Lane, Joseph Glover, Curtis Reynolds, Carlos Dournac, Craig Hill, Scott Fox, Tom Mitchell, Mike McKee, Brad Pollitt, Laird Veatch, _____ (see below), Linda Dixon, Erik Lewis, Nat Grier, Rohan Sadhai, Jordan Crandall, Chris Jones, Frank Bellomo, Ruth Loetterle

General Comments

- Increase in online/asynchronous learning should be kept in mind; limit is unknown
- Decline in after 5:00 pm classes has declined due to shortage of space; space is now available
- Positive reduction in perceived barriers to City
- Enhanced access to green space
- Increased areas for enjoyment be visiting alums
- Provision of raised “stage” areas at Turlington is a positive addition
- Walls at campus edges were a response to jay-walking; MTPO study considered mid-block crossings at 16 and 19th
- A great opportunity, will require a cultural change, like other changes at an institution; it will be initially uncomfortable and then become accepted

Campus Gateways

- Athletics wants to develop the area north of the stadium as the NW campus gateway; shifting of Gale Lemerand Drive and elimination of marquee are positive changes
- Gateways should be considered for other locations, especially the Medical Center area
- Official entrance to the campus is currently unclear
- Gateways could be enhanced with the pairing of a defining moment with each gateway
- Gateway at 34th Street and Hull Road should be enhanced to better incorporate the area into the campus

Unnamed attendees: two women on either side of Tom Mitchell, woman sitting next to James Glover, woman sitting next to Ruth, man sitting between Scott Fox and Carlos Dournac, and man sitting between Brad Pollitt and Curtis Reynolds -- David Guzick, Cheryl Gater, Gene Herring, Karen Rice, Colt Little were all invited to the meeting...

END OF MEETING NOTES



meeting notes

To:	Erik Lewis	Date of Meeting:	April 9-10, 2018
Company:	University of Florida	Meeting Number:	4
Project Name:	Landscape Master Plan	Project No:	PL-00012
RE:	April Site Visit		
Recorded By:	Ruth Loetterle		
In Attendance:	See below for specific meeting attendees		

Note: Any errors or omissions to meeting note content should be reported to the writer within five working days from date of distribution to ensure reissue; failure to do so establishes the following as record copy.

Monday, April 9

Team Meeting

In attendance: Carlos Dougnac, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

Master Plan

- Differentiate existing vs proposed trees
- Low walls do effectively control pedestrian movement—Buckman and Stadium Rd West wall is successful
- New garage at Gale Lemerand will have an associated bus stop
- Date palm disease is challenging trees

Union Road

- Show and widen crosswalk at Union Rd and Buckman Dr

Tigert Court

- Only one inbound lane is needed; give additional space to median or to side
- Cost of relocating backflow preventer is \$100,000; Linda supports
- Guardhouse should be on driver’s side; provides tokens to enable VIP parking and directions to visitors

Newell Court

- Expand pedestrian crosswalk to include all of NW 16th St

Century Tower Plaza

- Century Tower Plaza is a good name
- Seatwall at potato is functional; serves as a meeting place within plaza; provide seatwall adjacent to potato to continue it as a landmark for meeting

Union Lawn East

- Panhellenic group performances involve 10-20 performers and 100 observers; would like to use terrace
- Gatherings at the monuments would probably number 10-12 persons
- Pinning ceremonies would not occur at the monuments

Inner Road

- Address pedestrian and bike crossings at eastern end; directing pedestrians to W 13th intersection and bicycles further west

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Stadium Road West

- Keep crosswalk/raised table at Fletcher limited to normal width; widening for entire block would further embolden pedestrians

Stadium Plaza

- All pavement at Gator at Ben Hill Griffin Stadium will be demolished for utilities
- Provide trees for shade at sitting steps
- Use of area as pedestrian space on game day contingent on a second parking exit onto Stadium Rd west of the plaza, so that buses can make loops
- Lighting—Scott Stricklin wants to use traditional; Linda supports a modern design
- Shade trees should replace palms

Tuesday, April 10

Stakeholder Meeting and Post Meeting Input

Master Plan

- Maximize shade for pedestrian spaces and corridors
- Cypress trees could help to visually connect water bodies and courses on campus
- Enhance connection to Reitz Union from McCarty bus stop to promote engagement with Liberty pond; possible overlook, replacement of fencing, widen walk at bus stop
- University Ave—proposed treatment should extend west past DOT-owned triangle; service drive needed parallel to University between west of Fletcher to provide parking access
- Ocala Pond is in good health
- New scooter parking locations—VHB input
- Wall and agave planting in W 13th median controls pedestrian crossings
- New baseball stadium will include parking for 500 cars; stadium will hold 100,000; possible parking at Flavet Field

Union Road

- Simplification of Turlington service area—compactor serving many adjacent buildings to be supplemented by dispersed locations; round structure removed; lift removed and service dock partially walled and converted to terrace; much expense went into screening of service area from Pugh Hall

Tigert Court

- Three outbound lanes may/may not be needed
- Smaller buses, not full-size city buses, will be entering court
- HC spaces currently needed for Walker Hall
- Provide for bicycle access, bicyclists currently avoid the entry

Century Tower Plaza

- Official name of stone is “Turlington Rock”; is multi-ton stone; plans for specialty lighting (e.g., celebrating game days and holidays) to await new location
- Uplighting to be added under overhang of Turlington Hall
- Front door of Turlington is not visible when approaching from the northeast, address tall brick wall and stairs
- Square corners of tabling tables should be rounded



Union Lawn East

- Dancing—new members are presented on two weekends during the year; many performances—20 groups each presenting for two hours
- 1st Fridays of the month and Founder’s Day—music at noontime class change

Union Lawn

- Enhance views of lawn from south as well as north

Stadium Plaza

- Norwegian study cites that traffic signage removal promotes slower movement and greater safety
- Question raised of how autonomous vehicles will navigate curbsless environments
- Suggestion to manifest “The Swamp” in the planting at the stadium
- More LID efforts, even if small, for educational value
- Address nutrient loading of stormwater from Stadium field

Reitz Union

- Stage to be demolished with expansion of Constans Theater
- Circle at west end of lawn has been constructed
- Relocation of stone sculpture at Reitz Union circle will be difficult; the recent relocation from the north to south side of Reitz Union required two years of coordination
- Deletion of the sidewalk on the east side of Reitz Union Dr was deliberate; some concern expressed by Nancy Chrystal-Green
- Crosswalk at Reitz Union Drive and Museum is heavily used and unsafe; lighting is poor; pedestrian crossings slow vehicular traffic; a full signal is required to permit pedestrian crossing that is coordinated with the signal to the west at Gale Lemerand
- Connection to be made southward from Reitz Union Drive to Wilmont Gardens and to Rail Trail across Archer Rd

Tuesday, April 10

Meeting with Curtis Reynolds

In attendance: Curtis Reynolds, Carlos Dougnac, Tina Gurucharri, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

General Campus

- Show future building sites as boxes to demonstrate how they will help shape adjacent spaces, relate to major circulation and be serviced
- Add roundabout at Museum and Hull

Tigert Court

- Possible only two outbound lanes needed

Stadium Road West

- Possible addition of center pier at intersection with Fletcher Dr to signal limited access

Stadium Plaza

- Need to gain an understanding of Athletics vision for Champion’s Walk
- Curbs seem necessary for regular daily use
- Possible addition of a café associated with Gator Dining building



Next steps

- Coordinate with Cultural Plaza
- Present to CPPEC in September
- Possible presentation to BOT in December
- Initial efforts need to demonstrate a big win for the campus; prioritization is important

Tuesday, April 10

Meeting with Tina Gurucharri

In attendance: Carlos Dougnac, Tina Gurucharri, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

Stormwater Treatment

- Include rain gardens, etc. within campus for as demonstration for educational value
- Review Dan Manley studio research
- Review Peggy and Dan's award-winning project on Gator Pond
- Permeable pavement—experience on campus has found best results with pervious asphalt
- Include stormwater treatment in streetscape cross sections

Tree Planting

- Let the ecology of the campus read; tell the story of campus topography and watersheds with plant palette
- Plant cypress in wet/flooded areas, such as detention basins north of stadium

General Campus

- Expand pedestrian pavement at south Newell gateway
- Provide seating at overlook at Dairy Pond to accommodate folks without hammocks
- Shifting Inner Rd northward will affect future building site
- Parking on site of future Data Science Building will be accommodated in lot on half of Norman Field
- Broward Recreation area—Basketball is most heavily used; construction of new Rec Center is on back burner
- Business Dean loved closing of Union Rd to traffic; no service access concerns
- Walk between Broward and Rawlings Halls is heavily used

Phasing

- Neville and Union will have biggest impact

Tuesday, April 10

Health Center Site Walk with Brad Pollitt

In attendance: Brad Pollitt, Linda Dixon, Erik Lewis, Chris Jones, Frank Bellomo, David Sowell, Ruth Loetterle

General Campus

- A more cohesive, well-maintained landscape is the goal for the Archer Rd face of the Health Center
- The main drop entry space is dark, obscured and unwelcoming
- The sunken area is being developed as a children's garden
- The entrance to Dental Science from Center Dr needs to be enhanced
- Exterior signage is not as effective and does not reflect the identity of the Health Center
- The Sycamore tree is a descendent of the tree in Greece of Hippocratic Oath fame



Action Items by Area

Union Road

- Show and widen crosswalk at Union Road and Buckman Drive

Tigert Court

- Reduce inbound lane to one; give additional space to median or to side
- Relocate guardhouse to be on driver's side
- Study reduction of outbound lanes to two and other traffic clarifications

Newell Court

- Expand pedestrian crosswalk to include all of NW 16th St

Century Tower Plaza

- Provide seatwall adjacent to relocated Turlington Rock to allow its continuance as a landmark for meeting
- Improve visibility of front door of Turlington when approaching from the northeast

Union Lawn East

- Accommodate Panhellenic group performances on terrace
- Accommodate 10-12 persons at the monuments
- Provide seating at overlook at Dairy Pond to accommodate folks without hammocks

Union Lawn

- Enhance views of lawn from south as well as north

Inner Road

- Address pedestrian and bike crossings at eastern end; direct pedestrians to W 13th intersection and bicycles further west
- Minimize shifting of western end of Inner Road northward due to impact of future building site
- Expand pedestrian pavement at south Newell gateway

Stadium Road West

- Limit crosswalk/raised table at Fletcher to normal width
- Study addition of center pier at intersection with Fletcher Drive to signal limited access

Stadium Plaza

- Provide trees for shade at sitting steps
- Replace palms with shade trees
- Restore curbs within plaza
- Accommodate Athletics' vision for Champion's Walk
- Study addition of a café associated with Gator Dining building
- Incorporate more LID efforts, even if small, for educational value
- Address nutrient loading of stormwater from Stadium field

Stadium North Lawn

- Plant cypress in detention basins north of stadium

Reitz Union

- Include circle at west end of lawn

Master Plan

- Differentiate existing vs proposed trees
- Maximize shade for pedestrian spaces and corridor Express the ecology of the campus with plant palette
- Express the ecology of the campus with plant palette
- Interconnect water bodies and courses on campus with cypress trees



- Include rain gardens, etc. within campus for as demonstration for educational value
- Review Dan Manley studio research
- Review Peggy and Dan's award-winning project on Gator Pond
- Include storm water treatment in streetscape cross sections
- Add roundabout at Museum and Hull Roads
- Extend proposed treatment of University Ave west past DOT-owned triangle
- Include service drive parallel to University between west of Fletcher to provide parking access
- Incorporate scooter parking locations per VHB input
- Show future building sites as boxes
- Enhance connection to Reitz Union from McCarty bus stop; widen walk at bus stop
- Study enhancement of walk between Broward and Rawlings Halls
- Round corners of tabling tables

University Health Center

- Create a more cohesive, well-maintained landscape
- Enhance main drop entry space
- Enhance to Dental Science from Center Drive
- Study exterior signage to reflect the identity of the Health Center

END OF MEETING NOTES

B. Appendix for Schematic design review



**Preservation of Historic Buildings & Sites Committee
December 15, 2020 at 2:00 PM
Planning, Design & Construction Division, 245 Gale Lemerand Drive
ZOOM MINUTES**

MEMBERS PRESENT:

Marty Hylton – Chair –Interior Design
Joe Aufmuth – University Libraries
Ann Baird – Associate University Librarian, Libraries
Brent Carr - Psychiatry
Megan Daly – University Libraries
Tom Dana – College of Education
Sara Diffenbach - Student
Linda Dixon – Planning, Design & Construction
Chad Doering – Housing & Residence Education
Jacqueline Hahn – Student
Craig Hill – Business Affairs
Lisa King - Department of Clinical & Health Psychology
Francisco Oquendo - Planning, Design & Construction
Priya Sharma – Pediatric Radiology
Carl Van Ness – Librarian & Archivist, Special Collections

MEMBERS ABSENT:

Jason Byrd – Clinical Faculty, Psychiatry
Anthony Coman – Management Communication Center
Carlos Dougnac – Planning, Design & Construction
Samantha Evans – Student Affairs
Lacy Hoffman – Honors Program
Gail Mathapo – Assistant University Librarian
Rachel Slivon – Warrington College of Business, Lecturer

OTHERS PRESENT:

Erik Lewis – Planning, Design & Construction
Melissa Thomas - Planning, Design & Construction
Frank Javaheri – Planning, Design & Construction
Melanie Heflin – Planning, Design & Construction
Tamera Baughman – Planning, Design & Construction
Frank Bellomo – GAI
Chris Jones – IBI
Jason O’Brian – Walker Architects
Joe Akins – VMDO
Alexander Jack – VMDO
Michele Westrick – VMDO
Jennifer Lyons – Unknown
Lorenzo Battist – Unknown
Richardson,? – Unknown

I. ADOPTION OF AGENDA AND AUGUST 2020 MINUTES

Motion: Joe Aufmuth made the motion to adopt the agenda and approve the August minutes.

Second: Tom Dana

Motion Passed Unanimously

II. MAJOR PROJECTS

UF – 656 – Landscape Master Plan Tigert/Newell Gateways **Melanie Heflin**

Melanie introduced herself and stated she was before the committee to talk about the Landscape Master Plan. She said that the project would be in sections and the first section would be the Tigert Hall and Newell Gateway improvements. Frank Bellomo from GAI, Jason O'Brian from Walker Architects, and Chris Jones from IBI are here to present today and CPPI is the Contractor. The project start will be May 2021, with estimated completion at the end of August prior to semester starting.

Chris went over the locations of the gateways and started with the Newell Gateway. The transformation is essentially the removal of the road from this gateway. The transformation of that environment into a pedestrian gateway arrival point at the northern edge of the campus. This will follow the direction of the Landscape Master Plan and the Plaza of Americas for design. This is a 20' wide pedestrian walkway with a curbed condition will still accommodate service and emergency vehicles. There will be brick walls tying into the existing walls to create a gathering plaza space. There will be a 12' wide multiuse path that will run along University Avenue. The project will tie back to some of the existing circulation networks and transition down the roadway add oak trees to comply with the Landscape Master Plan. An alternate will be to extend the 20' wide walkway down the existing road with a concrete lined edge and center with the bollards. Chris showed the layout of the gateway and how the brick walls are laid out. Also, there will be a curb area and a mountable curb for emergency vehicles.

The Northeast Gateway at Tigert Hall impacts Union Drive. This project will reconfigure the entry and exist lanes and creating an auto court. The committee stated they were concerned about an outgoing bike lane and the design team stated they were still trying to figure that out. That determination will be in a few weeks. There are drop-off and temporary parking zones along the edges with bollards. There will be seating around the auto court to accommodate the tour busses and kiss and ride. There will be a new guard shed, and Jason O'Brian went over the structure. He stated the building will match the existing Tigert Hall. In the Little Hall parking lot will be headend parking instead of angle parking. The project will maintain the existing number of spaces to have a no net loss for parking in this area. There is an add alternate for have permeable brick pavers and the islands are stormwater catching zones to help with the runoff of the stormwater in this area. This will allow for sustainable improvements for this area. In front of the Little Lot the VIP and bike parking will be reconfigured to move it away from Tigert Hall. The gathering plaza will be reconfigured as well for a more secure and private gathering area.

Motion: Joe Aufmuth made the motion to approve the Advanced Schematic Design phase of the project.

Second: Carl Van Ness

Motion Carried Unanimously

LAND USE AND FACILITIES PLANNING COMMITTEE MINUTES
February 02, 2021
Planning, Design & Construction
ZOOM Meeting

ATTENDEES:

MEMBERS PRESENT:

Ann Baird, Librarian, UF AFA Library
Meredith Beaupre, Academic Advisor, Honors Program
David Bowles, Director of Rec Sports

Paul Davenport, Physiological Sciences
Sarah Davis, Student
Linda Dixon, Planning, Design & Construction
Margaret Fields, Associate Dean of Liberal Arts and Sciences
Megan Forbes, Chair, English Language Institute
Scott Fox, Transportation & Parking
Timothy Garrett, Associate Professor, Pathology, Immunology and Laboratory Medicine
Creed Greer, Program Director, University Writing Program
Kevin Heinicka, IFAS Facilities Planning & Operations
Mark Helms, AVP, Facility Services Division
Craig Hill, VP's Office – Business Affairs
Brian Keith, Associate Dean, Office of Library Administration
Mark Leeps, Assistant, Journalism
Frank Lomonte, Director & Professor, College of Journalism
Graciela Lorca, Associate Professor, Microbiology & Cell Science
Cydney McGlothlin, University Architect, Planning, Design & Construction
Jacqueline Miller, Curator/Adjunct Professor
Keith Rambo, Engineer, Electrical & Computer Engineering
Blake Robinson, Student
William (Bill) Smith, Assistant Director, Operations, University Athletics Association
Jay Watkins, Associate Director and Associate Professor,
Timothy Young, Sr. Associate, Academic Advising Center

MEMBERS ABSENT:

Missy Daniels, Growth Management, Alachua County
Carlos Dougnac, AVP, Planning, Design & Construction
Rhuanito Ferrarezi, Assistant Professor
Gail Hansen De Chapmen, Chair, Lakes, Vegetation & Landscaping Committee
Marty Hylton, Chair of PHB&S, Libraries
Frank Lomonte, Director and Professor, Journalism
Mary Lusk, Extension Agent – IFAS Extension
Carol McAuliffe, Assistant University Librarian
Jamieson McMahon, Building Code Inspector, EH&S
Andrew Persons, Director, Department of Doing, City of Gainesville
Amy Stein, Associate Professor
Richard Stepp, Associate Professor, Anthropology/Latin American Studies
Zhong (John) Su, Associate Professor, Radiation Oncology – JAX
Matt Williams, Director, Office of Sustainability

VISITORS:

Mike Castine, Growth Management, Alachua County – attending for Missy Daniels
Melissa Thomas, Planning, Design & Construction
Erik Lewis, Sr. Planner, Planning, Design & Construction
Frank Javaheri, Director of Construction, Planning, Design & Construction
Melanie Heflin, Project Manager, Planning, Design & Construction
Tamera Baughman, Project Manager, Planning, Design & Construction
Chad Doering, Director of Facilities, Housing
Chris Jones, IBI, Design Consultant
Kevin Trejos, Student
Frank Bellomo, GAI Associates, Landscape Design
Alexander Jack, VMDO
Nancy Chrystal-Green, UF
Michele Westrick, VMDO
Hannah Ulloa, Unknown

CHAIR: Timothy Young, Sr. Associate, Academic Advising Center, Chair

CALL TO ORDER:

Timothy called the meeting to order at 2:00pm.

APPROVAL OF AGENDA AND MINUTES:

Paul Davenport moved to approve the agenda and the December minutes; Megan Forbes seconded; motion passed unanimously.

UF – 656 – Landscape Master Plan – Newell & Tigert Gateways (Advanced Schematic Design)

PRESENTING: Melanie Heflin / Frank Bellomo / Chris Jones

DISCUSSION: Melanie introduced herself and stated she was before the committee today for Advanced Schematic Design phase approval. She had with her Frank Bellomo from GAI Associates and Chris Jones from IBI to present the project. Chris stated he would be speaking about the Landscape Master Plan with specifics on the Newell and Tigert Gateways. The Newell Gateway will be a pedestrian pathway with a plaza area and brick pavers. It will have brick walls and bollards to protect the area from vehicles. The brick walls will have planted beds behind them to enhance the UF experience moving the pedestrians down the brick paver pathway to the Plaza of Americas. The plaza will have a curb on both sides with a mountable curb in the middle for emergency vehicles. There will be a Magnolia tree and a small 8” oak that will be removed to enhance the flow of the bike and pedestrian walkway that runs behind the brick walls of the plaza. This will be the start of a bike & pedestrian pathway through parts of campus.

The Tigert Gateway entry and exit lanes will be reconfigured to have one lane entry with a bike lane and three lanes to exit: one turning left, one turning right and one straight with a bike lane. The bike lane is still being configured but there will be one on entry and exit. The corner will be enhanced with brick pavers and columns. The median will be a flowering understory trees with Oak trees on the streetscape to comply with the Landscape Master Plan. There will be an auto court for drop off and pick up. There will be bollards and seating walls to help guide pedestrians and bicycle traffic. The material will match the existing seating areas and sidewalks around the auto court. The Little parking lot was reconfigured to 90-degree parking instead of diagonal. This allowed no impact in parking spaces for this lot. The lot will be

permeable pavers with the medians to be rain gardens to compensate for the stormwater runoff. The back of Tigert Hall will be reconfigured to have VIP parking and 5 handicap spaces. There will be an outside gathering area that will be more private with added landscaping and seating.

The committee was concerned about the entrance at the Tigert Gateway to be painted crosswalks. The design groups stated “Duratherm” thermoplastic is proposed and it should last about 25 years. The committee asked if an RTS bus would be coming into the auto court. Chris responded that the design can accommodate buses and large vehicles if needed, but there will be a new RTS bus stop on SW 13th Street and buses are not anticipated to be regular users of the auto-court. The design anticipates the potential use of the autonomous shuttle. The committee asked about the utilities at the corner of NW 13th Street and the Tigert Gateway and the design team stated that some utilities may need to be moved to accommodate the project but the utility vault will not be impacted. The committee was concerned about vehicular drop off at the Newell Gateway plaza and extra bollards have been added to the area to prohibit a vehicle from pulling over. FDOT is constructing a new crosswalk on the corner of the plaza to help move pedestrians and bikes across this area safely. The committee asked about the loss of scooter parking near the library. However, new scooter parking areas are being created to relocate scooter parking. The committee asked about the Newell Gateway and the movement of the pedestrians and Chris showed them the vision of the Gateway giving a connection to the new pedestrian and bike walkway.

MOTION: Paul Davenport motion to approve the Advanced Schematic Design phase as presented. Meredith Beaure seconded motion. Motion passed unanimously.



MINUTES

University Lakes, Vegetation and Landscape Committee December 10, 2020, at 9:00 AM Facilities, Planning & Construction ZOOM MEETING

The University Lakes, Vegetation and Landscape Committee (ULVLC) met Thursday, December 10, 2020 for a zoom meeting online.

Members attending:

William Barber – Assistant Director, UF Police Department
Donna Bloomfield – Grounds, Facility Services
Gregg Clarke – Director of Operations, Facility Services
Adam Dale – Assistant Professor, Entomology and Nematology Department
Linda Dixon – Director, Planning, Design & Construction
Gail Hansen De Chapman – Environmental Horticulture - Chair
Alpa Nawre – Assistant Professor, Landscape Architecture
Melanie Nelson – Associate Professor, Medicine
Tom Schlick – Assistant Director of Grounds, Facility Services

Members not attending:

Carlos Dougnac – Assistant Vice President, Planning, Design & Construction
Craig Hill – Assistant Vice President, Business Affairs
Brian Keith – Associate Dean, Library Administration
Brett Scheffers – Assistant Professor, Wildlife Ecology and Conservation
Kevin Trejos - Student
Matt Williams – Director, Sustainability

Visitors attending:

Melissa Thomas – Administrative, Planning, Design & Construction
Erik Lewis – Sr. Planner, Planning, Design & Construction
Tom Feather – Project Manager, Planning, Design & Construction
Tamera Baughman – Project Manager, Planning, Design & Construction
Melanie Heflin – Project Manager, Planning, Design & Construction
Frank Javaheri – Director of Construction, Planning, Design & Construction
Basil Lannone – Office of Sustainability
Chris Jones – IBI
Frank Bellomo – GAI Consultant/Landscape Architect
Laurie Hall – CHW- Landscape Architect
Chris Doering – Director of Facilities for Housing
Fiona Hogan – Office of Sustainability
Jim Richardson – VMDO
Pete ? – VMDO
Chris Gimuer – VMDO
Alexander Jack – VMDO
Michele Westrick – VMDO
Frances Lengowski – VMDO

Kasey Teimouri – Schenkel Shultz
Tina Gurucharri – Associate Professor, Department of Landscape Architecture
352-294-0655 – Tom Schlick - phone
352-342-7965 – Tom Feather - phone
352-294-0813 – Donna Bloomfield - phone

I. Adoption of Agenda and Minutes

Motion: Adam Dale moved to adopt the agenda and approve the minutes with the change suggested to the November minutes.

Second: Melanie Nelson seconded.

Motion Carried Unanimously

II. MAJOR PROJECTS

UF – 656 – Landscape Master Plan

Frank Javaheri / Melanie Heflin

Frank introduced himself and said he is representing for Melanie Heflin, the Project Manager for this project. The project is here today for Advanced Schematic Design approval. This project is for the Landscape Master Plan and details the Newell Gateway and North East Tigert Gateway.

The Newell Gateway is being transformed into a pedestrian gateway through the Historic District. There will be brick and retainage walls. In the entrance area of the gateway there will be bollards in place to discourage vehicular usage. There will be regular curbs at the road with a small area on the curb being mountable by emergency vehicles. There will also be a 12' width sidewalk for a multiuse trail. In creating the symmetry of the trail, a 28" magnolia will need to be removed. The committee spoke about this tree and trying to reconfigure around the tree but reviewing the area, because it is a multiuse trail, it will not be feasible. This tree in the future will inhibit the canopy growth of the two 20" DBH oaks so the design team thought it would be better to remove the magnolia. There is a small 8.5" oak tree that will be removed and replaced with larger oak to match the path and stay in line with the Landscape Master Plan.

The North East Tigert Gateway will be a transformation of an auto court circle drive. This will be a vehicular/pedestrian gateway. There will be impacts on the landscape and a new bus shelter, a new guard house and an upgrade to the Criser lot, Little lot, VIP and service parking area, and an outdoor gathering plaza in the back of Tigert Hall. The auto court will have seating and bollards around it to help with traffic flow. The road will become a one lane entry with a bike lane and there will be three lanes exist. The design team went over the landscaping choices and the layout of the areas and streetscapes. The little lot will be widened to the south and the north allowed the space number to stay the same by headend parking instead of angled parking and the lot will be permeable pavers and the islands will be rain gardens collection areas and curb less to create a more sustainable solution. The seating area in the Tigert Hall gathering will be reconfigured and given an upgrade to refresh this area. The committee asked if there is a way to direct the pedestrian walkway thru the little parking lot. There is a grouping landscape area at the back of Tigert and in need of refresh and a heritage oak tree that will need to be removed because of the design. There will also be a few trees in the parking lots for reconfiguration. There is a total of 88 trees to be removed. There is a proposed plan of 71 new trees will be added. The rest will be with standard mitigation. The committee asked if the design team could try to save more of the long leaf pine trees. The committee also asked about diversity on the plantings. The committee asked to change out some of the Crepe myrtles to Chickasaw plum or a small flowering tree. The project will be coming back for Design Development approval and will be able to see the landscaping changes and a tree removal table. The committee asked for looking at organization of the different species and grouping like species to have a more diverse look. Some of the Cypress trees and cabbage palms will be transplanted but the other trees are being removed. There is a dogwood and some Crepe Myrtles that may be moved if possible if there is a place to move them.

Motion: Alpa Nawre made the motion to approve the plans and tree removals as presented and with standard mitigation. The committee recommended species other than Crepe Myrtle be looked at

the area at Tigert Hall and Union Road. The Committee requested the project come back to the committee with landscape details at Design Development.

Second: Melanie Nelson

Motion Carried Unanimously

C. Appendix for Design development presentation and review



Preservation of Historic Buildings & Sites Committee
February 16, 2021 at 2:00 PM
Planning, Design & Construction Division, 245 Gale Lemerand Drive
ZOOM MINUTES

MEMBERS PRESENT:

Marty Hylton – Chair –Interior Design
Joe Aufmuth – University Libraries
Ann Baird – Associate University Librarian, Libraries
Brent Carr - Psychiatry
Anthony Coman – Management Communication Center
Megan Daly – University Libraries
Sara Diffenbach - Student
Linda Dixon – Planning, Design & Construction
Craig Hill – Business Affairs
Gail Mathapo – Assistant University Librarian
Priya Sharma – Pediatric Radiology
Carl Van Ness – Librarian & Archivist, Special Collections

MEMBERS ABSENT:

Jason Byrd – Clinical Faculty, Psychiatry
Tom Dana – College of Education
Chad Doering – Housing & Residence Education
Carlos Dougnac – Planning, Design & Construction
Samantha Evans – Student Affairs
Jacqueline Hahn – Student
Lacy Hoffman – Honors Program
Lisa King - Department of Clinical & Health Psychology
Francisco Oquendo - Planning, Design & Construction
Rachel Slivon – Warrington College of Business, Lecturer

OTHERS PRESENT:

Melissa Thomas - Planning, Design & Construction
Frank Javaheri – Planning, Design & Construction
Melanie Heflin – Planning, Design & Construction
Milo Zapata – Planning, Design & Construction
Cydney McGlothlin – Planning, Design & Construction
Mark Humbert – Planning, Design & Construction
Bill McGinn – University of Florida
Frank Bellomo – GAI
Chris Jones – IBI
Jason O’Brian – Walker Architects
Joey Mandese – Vertex Construction
Adam Gayle – Walker Architects
Phillip Rickman – Sigma Alpha Epsilon

UF – 656 – Landscape Master Plan Tigert/Newell Gateways – Melanie Heflin/Cydne McGlothlin

Cydne introduced herself and stated she was before the committee to present the Design Development phase. There will be a Newell Gateway and a Tigert Court Gateway with a new gate house.

Chris pointed out updates concerning committee recommendations and safety issues at University Avenue. There will be a new pedestrian gateway at Newell and a crosswalk across University Avenue as part of an FDOT project. Bollards will be added at the road to control vehicle access. Some of the bollards will be removable for emergency vehicle access. The LUFPC expressed concern about the Newell Gateway and pedestrians going to the east. To accommodate this movement, there will be a pedestrian walkway to the east and an opening in the wall immediately west of the historic wall bench.

The Tigert Gateway shows improvements at the entry and exit to SW 13th Street and the parking lots around Tigert Hall. The updates added bike lanes to the exit and entry at SW 13th Street. The auto court area is the same design as presented previously. The Criser parking lot changes introduced permeable pavers for stormwater runoff. The project will adjust the striping in the southern bay to be code compliant for the handicap spaces. There will be planting elements in the middle of the parking lot to create shading and provide for stormwater. The Little parking lot was to be all permeable paving but now only the outer rows to the north and south will be the permeable pavers. The middle medians between the parking will be stormwater planters. The handicap spaces have increased in front of Tigert Hall. The bollards have been increased across the full length of Tigert Hall to separate the vehicular and pedestrian as an added security measure.

Jason O’Brian reviewed the architectural design of the guard house. He showed changes from the past design to present. The architectural design has been scaled down a little. The brick and precast trim, base, and sills will match the surrounding buildings. There will be clear glazing with anodized aluminum storefront and the metal around the roof will be copper. The committee discussed the color of the aluminum and confirmed it will match historic buildings in the area, e.g. Tigert Hall. The plans for the Guard house went to the Architectural Review Council and was approved.

Motion: Brent Carr made the motion to approve the Design Development phase as presented.

Second: Joe Aufmuth

Motion Carried Unanimously



Land Use and Facilities Planning Committee
March 2, 2021 at 2:00 PM
Planning, Design & Construction Division, 245 Gale Lemerand Drive
ZOOM Minutes

ATTENDEES:

MEMBERS PRESENT:

Ann Baird, Librarian, UF AFA Library
Meredith Beupre, Academic Advisor, Honors Program
David Bowles, Director of Rec Sports
Nancy Chrystal-Green, AVP – Division of Student Affairs
Linda Dixon, Planning, Design & Construction
Carlos Dougnac, AVP, Planning, Design & Construction
Rhuanito Ferrarezi, Assistant Professor
Margaret Fields, Associate Dean of Liberal Arts and Sciences
Megan Forbes, Chair, English Language Institute
Timothy Garrett, Associate Professor, Pathology, Immunology and Laboratory Medicine
Gail Hansen De Chapmen, Chair, Lakes, Vegetation & Landscaping Committee
Kevin Heinicka, IFAS Facilities Planning & Operations
Mark Helms, AVP, Facility Services Division
Craig Hill, VP's Office – Business Affairs
Brian Keith, Associate Dean, Office of Library Administration
Mark Leeps, Assistant, Journalism
Frank Lomonte, Director & Professor, College of Journalism
Graciela Lorca, Associate Professor, Microbiology & Cell Science
Carol McAuliffe, Assistant University Librarian
Cydney McGlothlin, University Architect, Planning, Design & Construction
Jacqueline Miller, Curator/Adjunct Professor
Keith Rambo, Engineer, Electrical & Computer Engineering
William (Bill) Smith, Assistant Director, Operations, University Athletics Association
Amy Stein, Associate Professor
Richard Stepp, Associate Professor, Anthropology/Latin American Studies
Jay Watkins, Associate Director and Associate Professor,
Timothy Young, Sr. Associate, Academic Advising Center

MEMBERS ABSENT:

Missy Daniels, Growth Management, Alachua County
Paul Davenport, Physiological Sciences
Sarah Davis, Student
Scott Fox, Transportation & Parking
Creed Greer, Program Director, University Writing Program
Marty Hylton, Chair of PHB&S, Libraries
Mary Lusk, Extension Agent – IFAS Extension
Jamieson McMahon, Building Code Inspector, EH&S
Andrew Persons, Director, Department of Doing, City of Gainesville

Blake Robinson, Student
Zhong (John) Su, Associate Professor, Radiation Oncology – JAX
Matt Williams, Director, Office of Sustainability

VISITORS:

Mike Castine, Growth Management, Alachua County – attending for Missy Daniels
Melissa Thomas, Planning, Design & Construction
Frank Javaheri, Director of Construction, Planning, Design & Construction
Melanie Heflin, Project Manager, Planning, Design & Construction
Tom Feather, Project Manager, Planning, Design & Construction
Milo Zapata, Project Manager, Planning, Design & Construction
Myra Au - UF
Chris Jones, IBI, Design Consultant
Kevin Trejos, Student
Frank Bellomo, GAI Associates, Landscape Design
Patrick Eddy – Jacobs
Jessica Davidson – Jacobs
Chuson Faddon – Jacobs
Jose Ramos – Jacobs
Robert Mooney – Jacobs
JM Baker – Unknown
Adam Gayle – LEVEL Design
Joey Mandese – Vertex Construction
Fraser Ringel – HDD expert

CHAIR: Timothy Young, Sr. Associate, Academic Advising Center, Chair

CALL TO ORDER:

Tim called the meeting to order at 2:00pm.

APPROVAL OF AGENDA AND MINUTES:

Meredith Beaupre moved to approve the February minutes and the agenda with changing the order of UF-623 with UF-668 ; Rhuanito (Johnny) Ferrarezi seconded; motion passed unanimously.

UF – 656 – Landscape Master Plan – Newell & Tigert Gateways (Design Development Phase)

PRESENTING: Melanie Heflin / Frank Bellomo / Chris Jones

DISCUSSION: Melanie introduced herself and stated she was before the committee today for Design Development phase approval. She introduced Frank Bellomo from GAI Associates and Chris Jones from IBI to present the project.

The Newell Gateway is a pedestrian pathway with a plaza area and brick pavers connecting Newell Drive to a new signalized crossing of University Avenue. Previously, the committee expressed concern for

pedestrian movement to the east so a break in the wall was added with a sidewalk connection to allow for that movement.

The Tigert Gateway entry and exit lanes will be reconfigured to have one lane entry with a bike lane and three lanes to exit: one turning left, one turning right and one straight with a bike lane. The bike lane is still being designed but there will be one for entry and exit. The corner will be enhanced with brick pavers and columns. The median will be flowering understory trees with Oak trees on the streetscape to comply with the Landscape Master Plan. There will be an auto court for drop off and pick up. The material will match the existing seating areas and sidewalks around the auto court. Permeable pavers will be added to the Criser parking lot, and there will be a net loss of 10 spaces due to changing the spaces to 81/2' wide. The metered spaces in the Criser lot will remain. The Little parking lot will have permeable pavers at the edges of the lot and rain gardens in the medians to compensate for stormwater runoff. The back of Tigert Hall will be reconfigured to have VIP parking and 5 handicap spaces. There will be an outside gathering area that will be more private with added landscaping and seating. The committee asked about walking in the parking lot to the buildings, and whether the median space was better used as a pedestrian walkway. Chris responded that the area is too narrow for walking and has light poles. He noted that the parking lot is a gated controlled area, and that the swales in the median meet LEED goals for the project. UF has been coordinating with FDOT for modifications within the state road ROW. The committee asked about the impact to scooters in this area. This area will no longer be scooter accessible because this will become part of the new pedestrian pathway. New, mega scooter parking areas are being created to relocate scooter parking.

A member asked about an area near the Gatehouse that does not have pavers. The designers noted that this area is a curbed environment that changes to a flush environment for the pedestrian pathway but that they would consider incorporating pavers in that location.

MOTION: Megan Forbes made a motion to approve the project as presented. Brian Keith seconded motion. Motion passed unanimously.

INFORMATION:

Tim Young, the chair, stated that the election of committee chair will take place at the April or May meetings.

ADJOURNMENT: There being no further business to discuss, the meeting adjourned at 3:41pm.



MINUTES
University Lakes, Vegetation and Landscape Committee
February 22, 2021, at 9:00 AM
Facilities, Planning & Construction
ZOOM MEETING

The University Lakes, Vegetation and Landscape Committee (ULVLC) met Monday, February 22, 2021 for a zoom meeting online.

Members attending:

- William Barber – Assistant Director, UF Police Department
- Gregg Clarke – Director of Operations, Facility Services
- Linda Dixon – Director, Planning, Design & Construction
- Gail Hansen De Chapman – Environmental Horticulture - Chair
- Brian Keith – Associate Dean, Library Administration
- Alpa Nawre – Assistant Professor, Landscape Architecture
- Matt Williams – Director, Sustainability

Members not attending:

- Donna Bloomfield – Grounds, Facility Services
- Adam Dale – Assistant Professor, Entomology and Nematology Department
- Carlos Dougnac – Assistant Vice President, Planning, Design & Construction
- Craig Hill – Assistant Vice President, Business Affairs
- Melanie Nelson – Associate Professor, Medicine
- Brett Scheffers – Assistant Professor, Wildlife Ecology and Conservation
- Tom Schlick – Assistant Director of Grounds, Facility Services
- Kevin Trejos - Student

Visitors attending:

- Melissa Thomas – Administrative, Planning, Design & Construction
- Tom Feather – Project Manager, Planning, Design & Construction
- Frank Javaheri – Director of Construction, Planning, Design & Construction
- Fiona Hogan – Office of Sustainability
- Cydney McGlothlin – UF Architect, Planning, Design & Construction
- Steven Vann – Project Manager, College of Engineering
- Melanie Heflin – Project Manager, Planning, Design & Construction
- Ronnie Cooper – Project Manager, IFAS
- Frank Tipton – Project Manager, IFAS
- Frank Bellomo – GAI Associates
- Chris Jones – IBI
- 352-342-7965 – Unknown

I. Adoption of Agenda and Minutes

Motion: Brian Keith moved to approve the Agenda.

Second: Alpa Nawre

Motion Carried Unanimously

II. MAJOR PROJECTS

UF – 656 – Landscape Master Plan Implementation – Newell & Tigert Gateways Melanie Heflin

Melanie introduced herself and the Landscape Master Plan Implementation of the Newell and Tigert Gateways for Design Development approval. Frank Bellomo from GAI and Chris Jones from IBI gave the presentation.

Frank stated the Newell Gateway would be a plaza area with brick pavers and walls. They are focusing othe design to address safety concerns on University Avenue. The project will implement a vertical curb and gutter system instead of the mountable curb. There will be bollards placed across the plaza close to the road to prevent vehicular traffic in the plaza area. The team is working with DOT on a new traffic signal and crosswalk adjacent to this gateway.

At the Tigert Gateway, the entry/exit was reconfigured to accommodate the bike lane on the exit. There will be an auto court for drop off with bollards and seating. The Criser parking lot will have winged elm on the islands and live oaks. The project will create stormwater planters and some small crape myrtles trees in the medians with a row of permeable pavers to address stormwater runoff. Some long leaf pine and other trees marked to be removed will now be saved. In the medians of Little parking lot, the project is proposing red maple. There are existing oaks that can now be saved on site. The new mitigation is 145 trees and the project will be addressing them with plantings and standard mitigation. The Little parking lot will have the permeable pavers on the north and south lanes of the parking. There will be stormwater planters in the median areas for this lot as well. The VIP parking in the back of Tigert has brick pavers and added handicap parking to have it all in one place. The gathering area in the back of Tigert will be configured as a meeting or gathering space. The committee was concerned about the Podocarpus shrubs because of needed maintenance. The committee asked if the design team could look at something else in our standards that may work with less maintenance. Bollards were added behind Tigert at the road to help secure the gathering area from vehicular traffic and create a safety barrier.

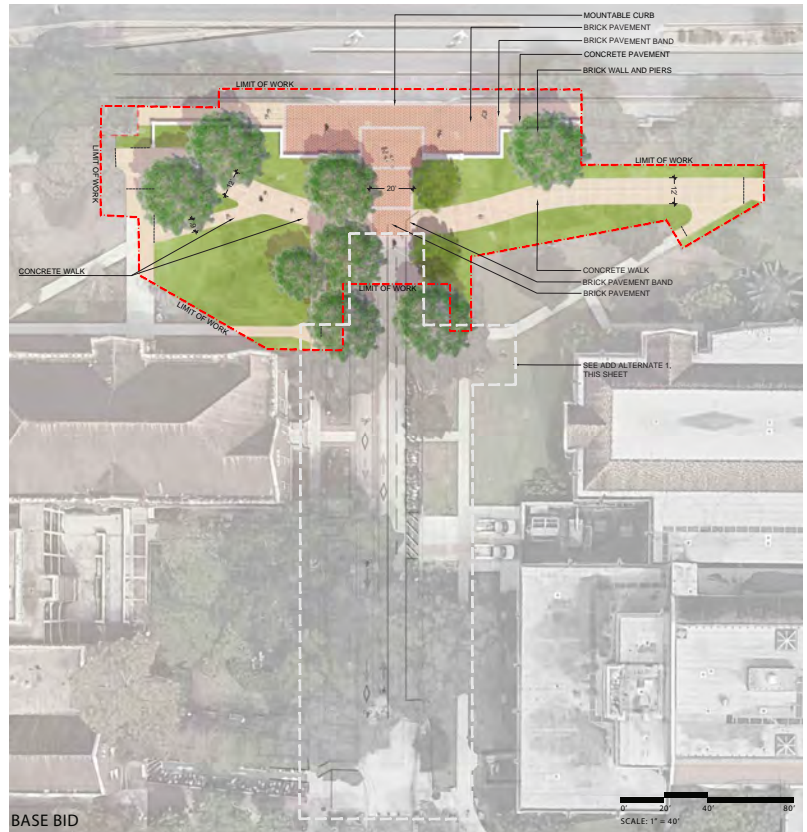
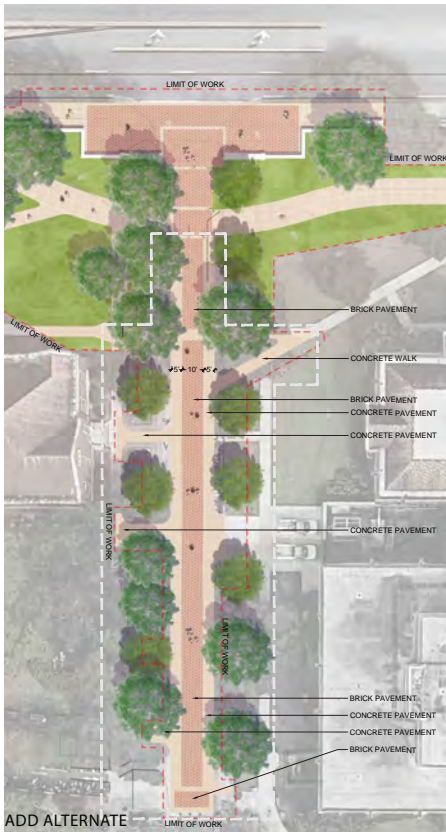
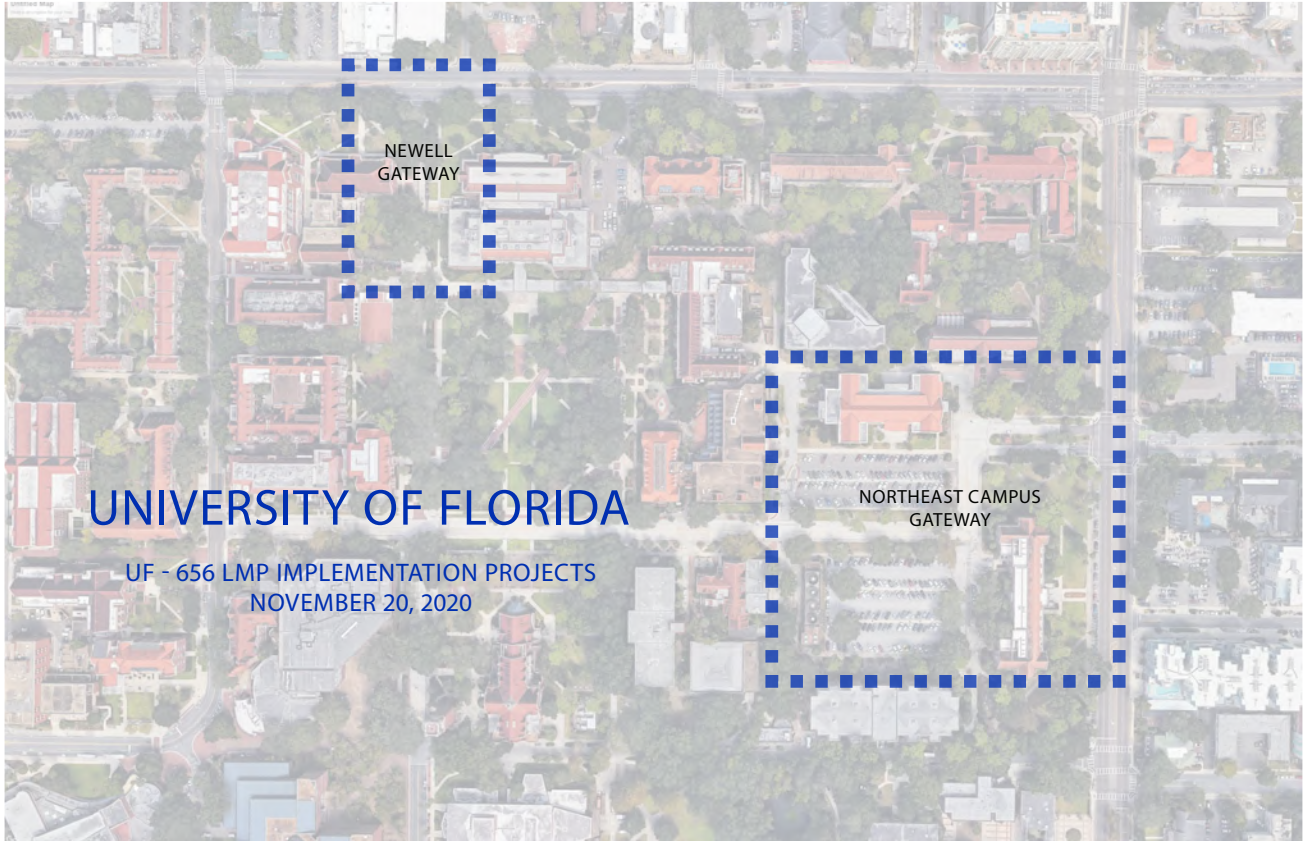
The committee asked about the security for the pedestrians on 13th Street. Frank show the aerial of the area to show the brick wall and pillar on each side of the intersection. The committee suggested looking at the security of the area for pedestrians. The committee was concerned about the landscape at the facade of Tigert viewed from Union Road. Five cabbage palms will remain in that area and one cabbage palm will be added for uniformity. There are two ligustrum trees that will be transplanted on campus by Facilities. The old cabbage palms will be removed. There is a Magnolia that will remain and azaleas will be added in the planting bed with the existing giant border grass that will remain.

Motion: Brian Keith made the motion to approve the project as presented.

Second: Alpa Nawre

Motion Carried Unanimously

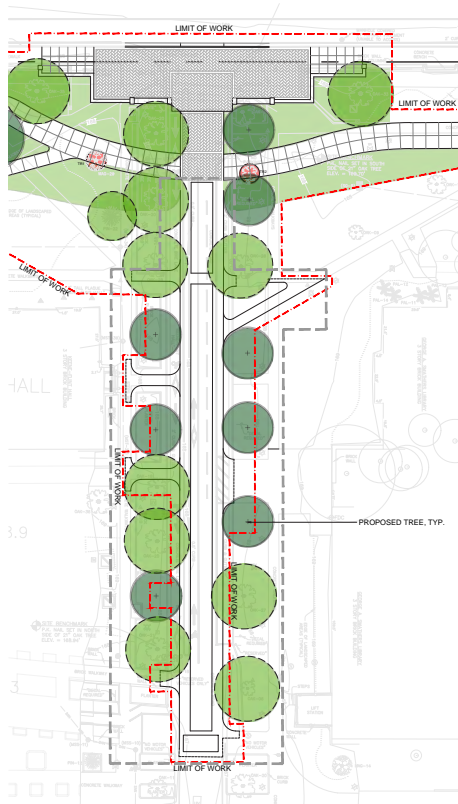
D. Appendix for Present the design to the public



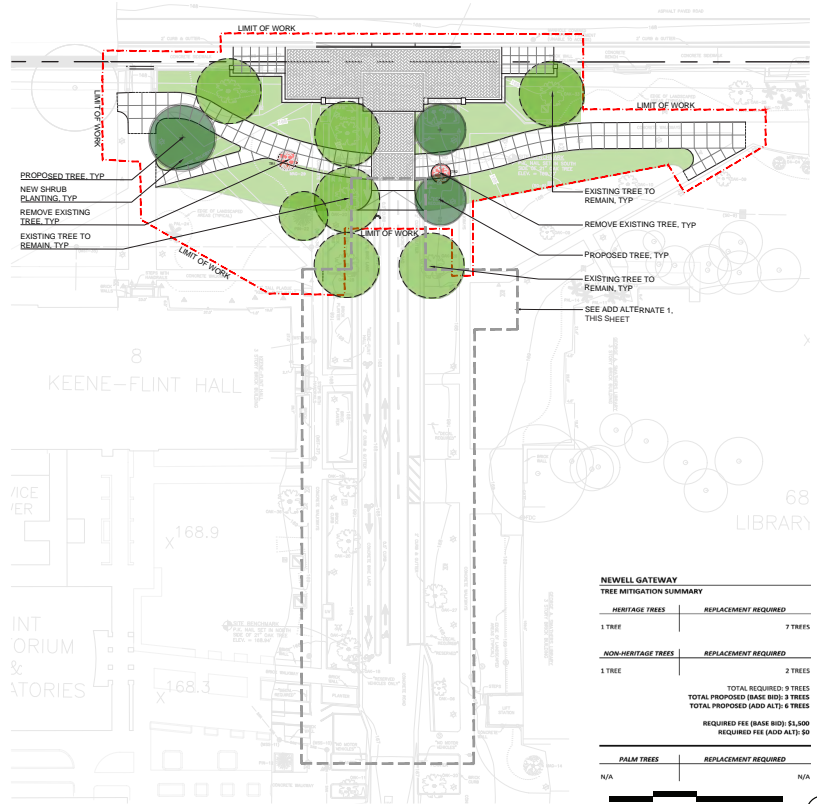
NEWELL GATEWAY
 NOVEMBER 20, 2020



SECTION 2: PRE-DESIGN ASSESSMENT + PLANNING



ADD ALTERNATE



BASE BID

NEWELL GATEWAY TREE MITIGATION SUMMARY

HERITAGE TREES	REPLACEMENT REQUIRED
1 TREE	7 TREES
NON-HERITAGE TREES	REPLACEMENT REQUIRED
1 TREE	2 TREES
TOTAL REQUIRED: 9 TREES	
TOTAL PROPOSED (BASE BID): 3 TREES	
TOTAL PROPOSED (ADD ALT): 6 TREES	
REQUIRED FEE (BASE BID): \$1,500	
REQUIRED FEE (ADD ALT): \$0	
PALM TREES	REPLACEMENT REQUIRED
N/A	N/A

SCALE: 1" = 40'

NEWELL GATEWAY PLANTING & TREE MITIGATION
NOVEMBER 20, 2020



- CAMPUS STANDARD LIGHT
- NEW SHRUB PLANTING
- CONCRETE PAVEMENT
- BRICK ENTRY WALL AND PIER
- BRICK PAVEMENT AND BANDING

NEWELL GATEWAY PERSPECTIVES
NOVEMBER 20, 2020



SECTION 3: SITE DESIGN | WATER

PREREQUISITE	TITLE	POINTS
Water P3.1	Manage precipitation on site	Required
Water P3.2	Reduce water use for landscape irrigation	Required
CREDIT	TITLE	POINTS
Water C3.3	Manage precipitation beyond baseline	6 points
Water C3.4	Reduce outdoor water use	5 points
Water C3.5	Design functional stormwater features as amenities	4 points

PREREQUISITE 3.1 | MANAGE PRECIPITATION ON SITE

Calculations

The 60th percentile precipitation event was calculated from rainfall data from a combination of two rainfall gauges at the Gainesville Alachua Fairgrounds Station and the Tusawilla-Micanopy rain gauge within the Gainesville vicinity obtained from the St. Johns River Water Management District (SJRWMD) Hydrologic Data site. The combination of the two rainfall gauges was required to obtain daily rainfall dating back to 1989. Data from the Tusawilla-Micanopy site ranged between 1990 to beginning of 1998, and rainfall data for the Gainesville Alachua Fairgrounds ranged from the beginning of 1998 to 2020. These were the best and most complete available data that provided rainfall daily rainfall amounts for 30 years.

Data was organized and ranked from the highest amount of inches in rainfall to lowest after removing all rainfall events of 0.1 inch or less. A percentile number was calculated for each ranked daily storm event based on the highest ranked event. From this data analysis the 60th percentile event is 0.56 inches of rainfall amount.

The total amount of required storage was calculated to be 726 cft as calculated from the total impervious area (15,560 sft) for the proposed development on the Newell Gateway and the 60th percentile precipitation event (0.56 inches).

The stormwater features proposed for the site are two retention rain gardens with total available capacity of 2,501 cft, which is more than 3 times the required volume for the 60th percentile precipitation event.

As provided by the Geotech report, the saturated hydraulic conductivity (Kv) for the site ranges between 18.7 to 28 ft/day.

Calculations are provided to demonstrate that the volume generated by the 60th percentile event is retained and infiltrated within 3 days. Refer to the recovery analysis.

- The Average Yearly rainfall during the 30-year rainfall span is 47.09 inches
- The Average Monthly rainfall during the 30-year span is 3.92 inches.

TABLE 1
UF LMP - Newell Gateway
Stage-Storage Calculations

Rain Garden West

	STAGE	AREA		STORAGE	
	(ft)	(ac)	(sft)	(ac-ft)	(cft)
TOP OF BANK	168	0.04	1797.00	0.02	977.50
POND BOTTOM	167	0.00	158.00	0	0.00

Rain Garden East

	STAGE	AREA		STORAGE	
	(ft)	(ac)	(sft)	(ac-ft)	(cft)
TOP OF BANK	168	0.06	2654.00	0.03	1523.50
POND BOTTOM	167	0.01	393.00	0	0.00

Combined Gardens East and West

	STAGE	AREA		STORAGE	
	(ft)	(ac)	(sft)	(ac-ft)	(cft)
TOP OF BANK	168	0.10	4451.00	0.06	2501.00
POND BOTTOM	167	0.01	551.00	0	0.00

Rainfall Amount at Various Percentile Events For a 30 Year span			
60th Percentile		95th Percentile	
Amount	Required Retention	Amount	Required Retention
Inches	cft	Inches	cft
0.56	726	1.88	2,438

Provided capacity in both Rain Gardens	2,501 cft
--	-----------

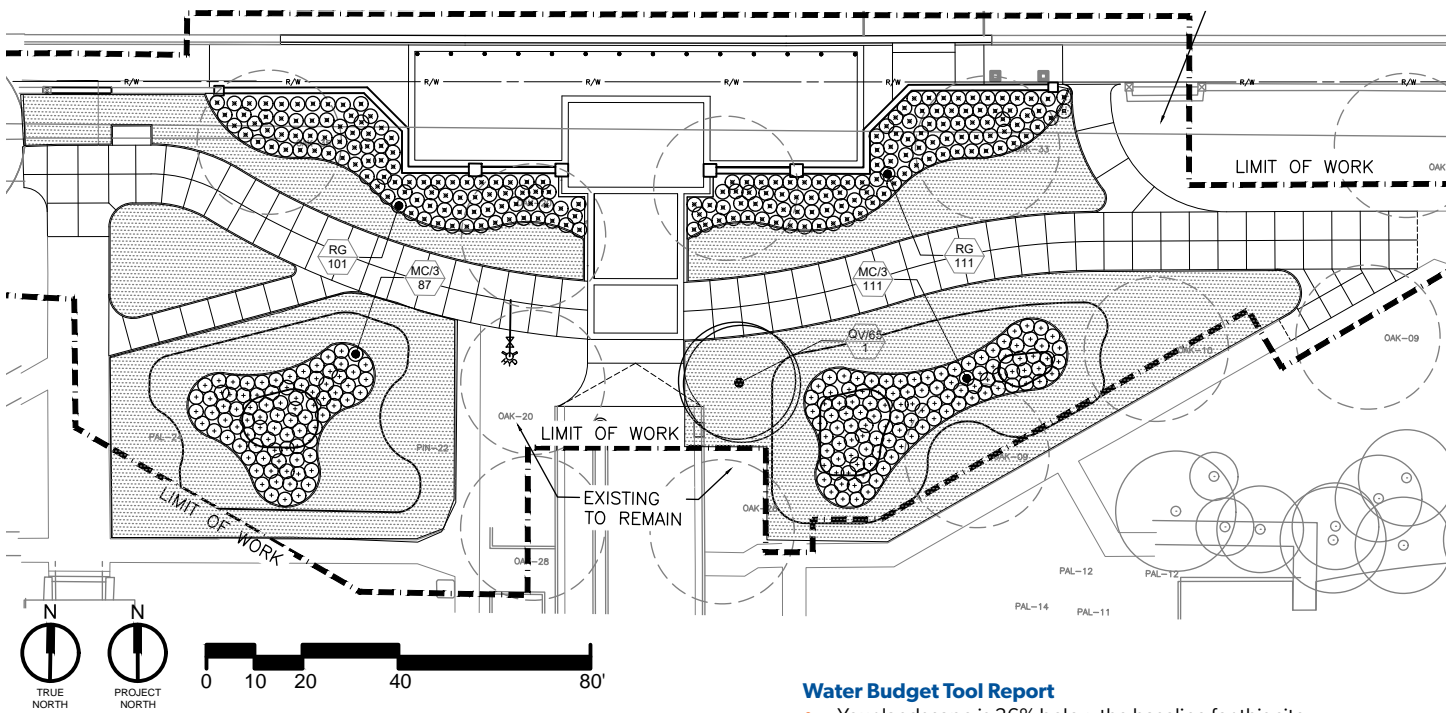
30 Year Span Data (1990-2020)	
Average Yearly	Average Monthly
inches	inches
47.09	3.92

Boring I.D.	Base of Aquifer (ft)	Porosity (%)	Hydraulic Conductivity (k _h) (ft/day)	Unsaturated Vertical Infiltration (k _v) (ft/day)	Seasonal High Groundwater Table (ft)
L-1	> 15	20	19.4	12.9	4
L-2	> 15	20	28	18.7	4

PREREQUISITE 3.2 | REDUCE WATER USE FOR LANDSCAPE IRRIGATION

Planting plan + Planting Schedule

The landscape and irrigation design strategy includes utilizing low water use native and Florida friendly plants irrigated by reclaimed, non-potable water source that exists on the campus site. It also includes removing permanent irrigation from canopy trees after an establish period of approximately 3 years. Refer to summary of Hydrozones table for Landscape Coefficients. Plant selection supports minimizing water use and maintenance while balancing pedestrian use of site. As stated, there is no potable water utilized for irrigation at the Newell Gateway project site. Reuse water supplies the irrigation system and a commitment has been made for the life of the project as evidence by the letter by Facilities Services.



Water Budget Tool Report

- Your landscape is 36% below the baseline for this site.
- Single Site or Development? Single Site
- Landscape Area 9,478 SF
- Irrigation? Yes
- Total Area of Turfgrass 7,341 SF
- Landscape Water Allowance 23,864 GAL / month
- Landscape Water Requirement 21,915 GAL / month
- Potential Peak Watering Savings 1,949 GAL / month

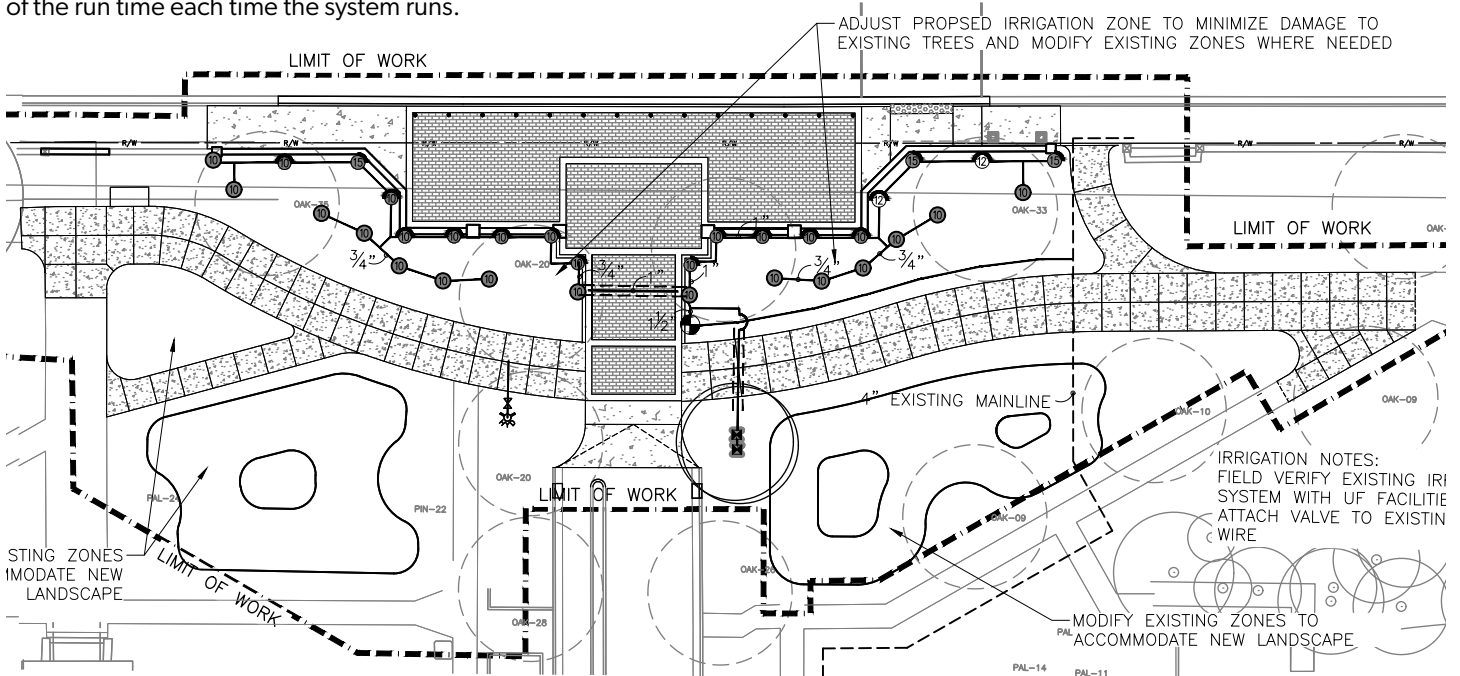
TREES	QTY	BOTANICAL NAME	COMMON NAME
QV/65	1	Quercus virginiana	Southern Live Oak
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME
MC/3	198	Muhlenbergia capillaris	Pink Muhly Grass
RG	167	Rhododendron indicum 'Mrs. G.G. Gerbing'	Azalea G.G. Gerbing
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME
ZE	7,341 sf	Zoysia japonica 'Empire'	Korean Grass

Summary of Hydrozones

Zone	Area (SF)	Plant Type / Landscape Feature	Water Demand	Irrigation Type	Required Water (GAL/Month)	Landscape Coefficient (K _i)
1	7,341	Turfgrass	Low	Fixed Spray	20,709	0.6
2	400	Trees	Low	Microspray	226	0.2
3	1,737	Shrubs	Low	Microspray	980	0.2

Irrigation Plan

Existing irrigation will be removed, replaced, and tie back into existing non-potable water source on the campus. Unfortunately, there can be no installation of a water meter. Located on a 2,000+ acre campus, much of which, new projects on campus must invariably become a part of the overall irrigation system. As a result, while there are water meters on campus, they show water use for much larger areas well beyond the Newell Project Limits, and not for small component irrigation systems added to the overall campus system. To determine irrigation water use on a monthly basis, calculations can be made by determining the flow in gallons per minute for each reduced flow head installed, multiplied by the number of days per month that the system is run and the length of the run time each time the system runs.

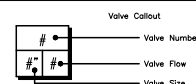


IRRIGATION SCHEDULE NEWELL GATEWAY			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		PSI
	Rain Bird 1812-PRS-NP 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.		30
	Rain Bird 1812-PRS-NP 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.		30
	Rain Bird 1812-PRS-NP 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.		30
	Rain Bird 1812-PRS-NP HE-VAN Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.		30
	Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.		30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.	1	
	Irrigation Lateral Line: PVC Class 200 SDR 21	446.6 l.f.	
	Pipe Sleeve: PVC Schedule 40	39.3 l.f.	

Post-establishment Irrigation Calculations

Component	Type	Qty.	Total GPM
10 Series	1/4	4	1.56
	1/2	12	9.48
	Full	11	17.38
12 Series	1/2	2	2.6
15 Series	1/2	1	1.85
Bubbler		1	0.5
Total GPM:			56.77

56.77 x 25 min run time, 2 times per week = 2838.50 gal./week
 2838.50 gal. x 4.4 weeks/month = 12,489.40



Irrigation zones typically run two days a week for 20 – 30 minutes. During establishment of new installations, the days may be increased. Of course, soil types, site conditions and plant material are also considered. There is not a flow sensor on the overall system for detecting a broken sprinkler. We are working toward having flow sensors on individual sites for level of control, but we’re not quite there yet.

Donna Bloomfield
 Grounds Superintendent
 Phone: 352 294 0813
 Email: dbloomf@ufl.edu

Rainfall Summary Tables

Newell Drive Proposed Impervious Area

15,560 sft

30 Year Span Rainfall Data

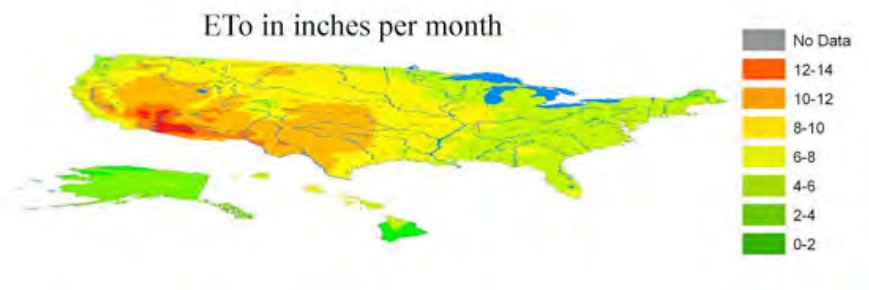
Year	Rainfall	Monthly Average- Per Year
	Inches	Inches
1990	42.9	3.58
1991	46.72	3.89
1992	44.35	3.70
1993	32.49	2.71
1994	41.52	3.46
1995	48.86	4.07
1996	51.23	4.27
1997	52.81	4.40
1998	49.78	4.15
1999	34.74	2.90
2000	34.83	2.90
2001	40.52	3.38
2002	51.92	4.33
2003	48.13	4.01
2004	56.15	4.68
2005	50.67	4.22
2006	32.77	2.73
2007	44.03	3.67
2008	41.34	3.45
2009	47.93	3.99
2010	40.82	3.40
2011	35.03	2.92
2012	58.9	4.91
2013	47.85	3.99
2014	56.23	4.69
2015	49.39	4.12
2016	44.31	3.69
2017	71.04	5.92
2018	63.45	5.29
2019	49.56	4.13
2020	49.54	4.13

Rainfall Amount at Various Percentile Events For a 30 Year span			
60th Percentile		95th Percentile	
Amount	Required Retention	Amount	Required Retention
Inches	cft	Inches	cft
0.56	726	1.88	2,438

Provided capacity in both Rain Gardens	2,501 cft
--	-----------

30 Year Span Data (1990-2020)	
Average Yearly	Average Monthly
inches	inches
47.09	3.92

Evapotranspiration Rate



Letter of Availability



Business Affairs

www.facilities.ufl.edu

Planning, Design & Construction

245 Gale Lemerand Dr. Gainesville, FL 32611

DATE: 4/8/2022

SUBJECT: UF-656/Newell Gateway SITES, Reclaimed Water Availability

INTENT: Letter of Availability – Reclaimed Water

To Whom It May Concern:

The University of Florida shall maintain a water protection and conservation program for the main campus and satellite facilities in Alachua County through the St. Johns Water Management District, Suwannee River Water Management District and the Gainesville Regional Utility, which outlines various procedures on how to protect and conserve the potable water supply and source, The university maintains a water protection and conservation program consistent with this policy, supportive of UF's green building program, and in compliance with its water use permits. The majority of the main campus is irrigated with reclaimed water, and low-flow fixtures are required by the UF Design and Construction Standards. The University's Water Reclamation Facility has the capacity to process over 3 million gallons daily, using the Kuger BioDenipho process. This process makes an end product suitable for use as reclaimed water, used for campus irrigation. The University's Water Reclamation Facility commits to providing reclaimed water for landscape irrigation to the Newell Gateway site for the entirety of its operation.

Sincerely,

A handwritten signature in black ink, appearing to read 'Charles Hammann'.

Charles Hammann

Director of Utilities & Energy Services

Facilities Services

CREDIT 3.3 | MANAGE PRECIPITATION BEYOND BASELINE

Calculations

Goal: 6 points

The 95th percentile precipitation event was calculated from rainfall data from combination of two rainfall gauge at the Gainesville Alachua Fairgrounds Station and the Tuscowilla-Micanopy rain gauge within the Gainesville vicinity obtained from the St. Johns River Water Management District (SJRWMD) Hydrologic Data site. The combination of the two rainfall gauges was required to obtain daily rainfall dating back to 1989. Data from the Tuscowilla-Micanopy site ranged between 1990 to beginning of 1998, and rainfall data for the Gainesville Alachua Fairgrounds ranged from the beginning of 1998 to 2020. These was the best and most complete available data that provided rainfall daily rainfall amounts for 30 years.

The stormwater features proposed for the site are two retention rain gardens with total available capacity of 2,501 cft, which is more than 3 times the required volume for the 60th percentile precipitation event.

As provided by the Geotech report, the saturated hydraulic conductivity (Kv) for the site ranges between 18.7 to 28 ft/day.

The **95th** percentile precipitation event (1.88 inches), as obtained from the above-mentioned rainfall data analysis, generates a total volume of runoff of 2,438 cft over the impervious area. This total amount is retained within the proposed stormwater feature with total capacity of 2,501 cft.

- The Average Yearly rainfall during the 30-year rainfall span is 47.09 inches
- The Average Monthly rainfall during the 30-year span is 3.92 inches.

TABLE 1
UF LMP - Newell Gateway
Stage-Storage Calculations

Rain Garden West

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.04	1797.00	0.02	977.50
POND BOTTOM	167	0.00	158.00	0	0.00

Rain Garden East

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.06	2654.00	0.03	1523.50
POND BOTTOM	167	0.01	393.00	0	0.00

Combined Gardens East and West

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.10	4451.00	0.06	2501.00
POND BOTTOM	167	0.01	551.00	0	0.00

Boring I.D.	Base of Aquifer (ft)	Porosity (%)	Hydraulic Conductivity (k _i) (ft/day)	Unsaturated Vertical Infiltration (k _v) (ft/day)	Seasonal High Groundwater Table (ft)
L-1	> 15	20	19.4	12.9	4
L-2	> 15	20	28	18.7	4

TABLE 2
UF LMP - Newell Gateway
Rainfall Summary Tables

Newell Drive Proposed Impervious Area 15,560 sft

30 Year Span Rainfall Data

Year	Rainfall	Monthly Average- Per Year
	Inches	Inches
1990	42.9	3.58
1991	46.72	3.89
1992	44.35	3.70
1993	32.49	2.71
1994	41.52	3.46
1995	48.86	4.07
1996	51.23	4.27
1997	52.81	4.40
1998	49.78	4.15
1999	34.74	2.90
2000	34.83	2.90
2001	40.52	3.38
2002	51.92	4.33
2003	48.13	4.01
2004	56.15	4.68
2005	50.67	4.22
2006	32.77	2.73
2007	44.03	3.67
2008	41.34	3.45
2009	47.93	3.99
2010	40.82	3.40
2011	35.03	2.92
2012	58.9	4.91
2013	47.85	3.99
2014	56.23	4.69
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Rainfall Amount at Various Percentile Events For a 30 Year span			
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Inches	cft	Inches	cft
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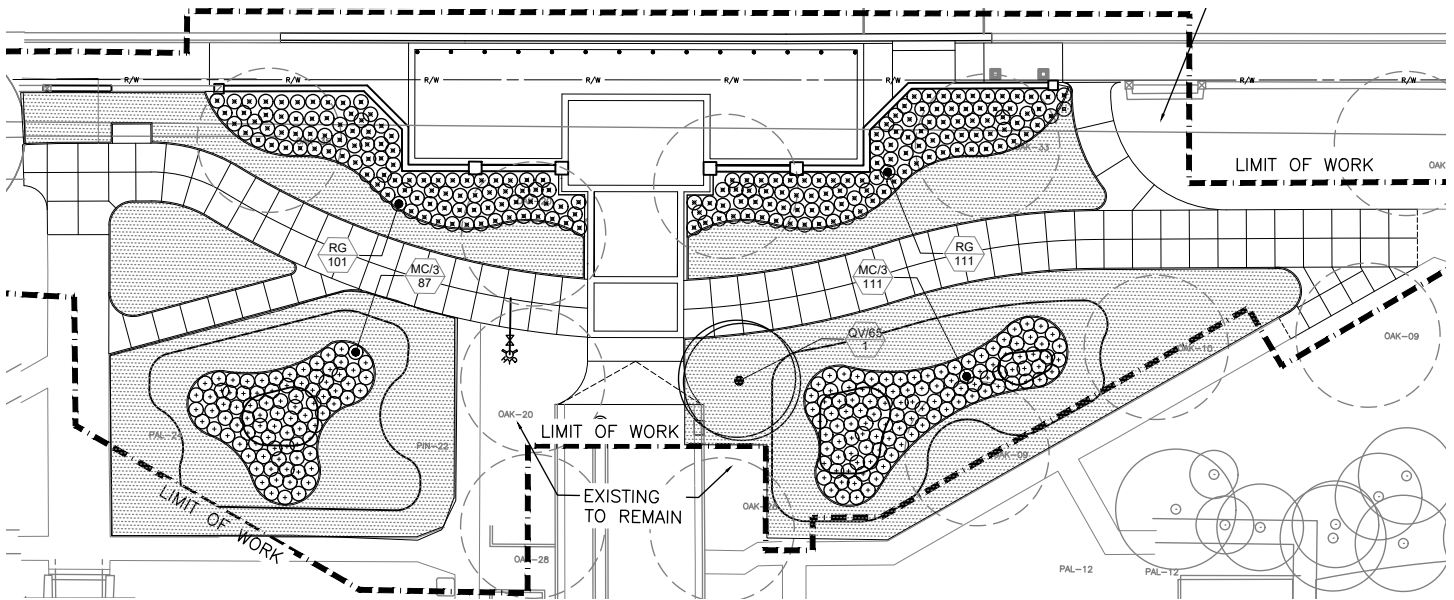
Provided capacity in both Rain Gardens	2,501 cft
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30 Year Span Data (1990-2020)	
Average Yearly	Average Monthly
inches	inches
47.09	3.92

CREDIT 3.4 | REDUCE OUTDOOR WATER USE

Planting Plan

Goal: 5 points



Newell Drive Proposed Impervious Area

30 Year Span Rainfall Data

Year	Rainfall	Monthly Average-Per Year
	Inches	Inches
1990	42.9	3.58
1991	46.72	3.89
1992	44.35	3.70
1993	32.49	2.71
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PLANT SCHEDULE NEWELL GATEWAY

TREES	QTY	BOTANICAL NAME	COMMON NAME
QV/65	1	Quercus virginiana	Southern Live Oak
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME
MC/3	198	Muhlenbergia capillaris	Pink Muhly Grass
RG	167	Rhododendron indicum 'Mrs. G.G. Gerbing'	Azalea G.G. Gerbing
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME
ZE	7,341 sf	Zoysia japonica 'Empire'	Korean Grass

Water Budget Tool Report

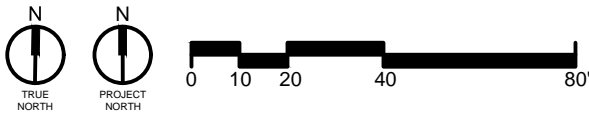
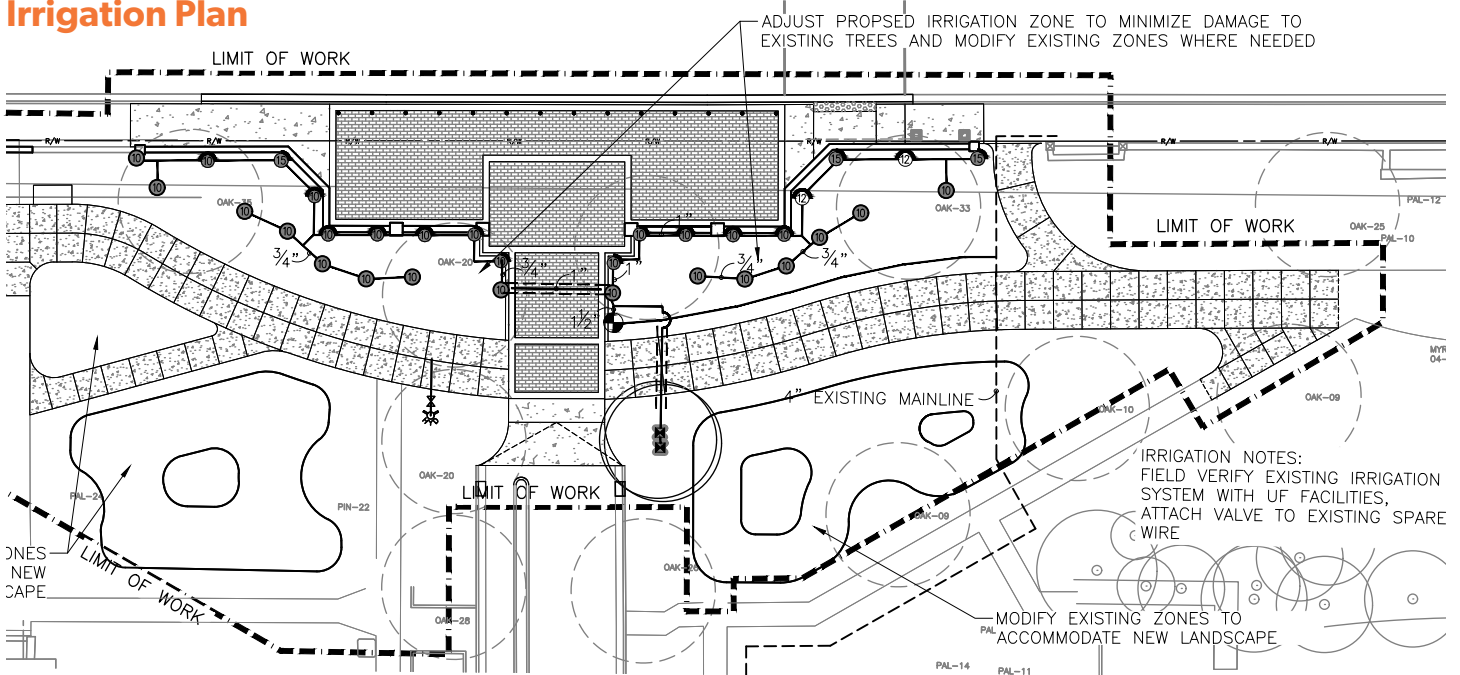
- Your landscape is 96% below the baseline for this site.
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- Landscape Area 9,478 SF
- Irrigation? Yes
- Total Area of Turfgrass 7,341 SF
- Landscape Water Allowance 23,864 GAL / month
- Landscape Water Requirement 1,206 GAL / month
- Potential Peak Watering Savings 22,658 GAL / month

Landscape coefficient values (K_L)

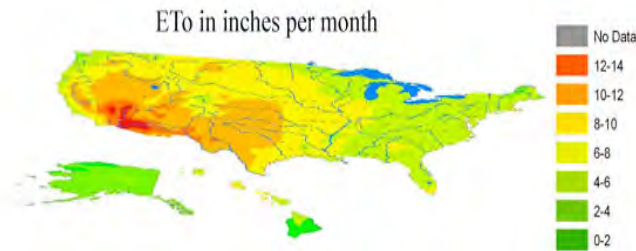
- TREES - 0.2
- SHRUBS - 0.2
- GROUND COVER - 0.6



Irrigation Plan



Evapotranspiration Rate



Post-establishment Irrigation Calculations

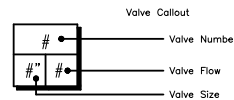
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15 Series	1/2	1	1.85
Bubbler		1	0.5

Total GPM: 56.77

56.77 x 25 min run time, 2 times per week = 2838.50 gal./week
 2838.50 gal. x 4.4 weeks/month = 12,489.40

Irrigation zones typically run two days a week for 20 – 30 minutes. During establishment of new installations, the days may be increased. Of course, soil types, site conditions and plant material are also considered. There is not a flow sensor on the overall system for detecting a broken sprinkler. We are working toward having flow sensors on individual sites for level of control, but we’re not quite there yet.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird 1812-PRS-NP 10 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.	13	30
	Rain Bird 1812-PRS-NP 12 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.	2	30
	Rain Bird 1812-PRS-NP 15 Series MPR Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.	2	30
	Rain Bird 1812-PRS-NP HE-VAN Series Shrub Spray 12.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. With Pressure Regulating Device and Non-Potable Purple Cap.	21	30
	Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.	4	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.	1	
	Irrigation Lateral Line: PVC Class 200 SDR 21	446.6 l.f.	
	Pipe Sleeve: PVC Schedule 40	39.3 l.f.	



SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.	10	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Irrigation Lateral Line: PVC Class 200 SDR 21	5.6 l.f.	

Water Budget Calculations

WaterSense New Home Specification: Water Budget Tool (V 1.04)								
Enter your information in these columns.					These columns will automatically populate.			
This water budget tool shall be used to determine if the designed landscape meets Criteria 4.1.1 of the specification. Please refer to the WaterSense Water Budget Approach for additional information.					Peak watering month: <input style="width: 100px;" type="text" value="apr"/>			
Your Name: <input style="width: 150px;" type="text" value=""/> [Enter] Builder Name: <input style="width: 150px;" type="text" value=""/> [Enter] Lot Number/Street Address: <input style="width: 150px;" type="text" value=""/> [Enter] City, State: <input style="width: 150px;" type="text" value="Gainesville, FL"/> Zip Code (required): <input style="width: 100px;" type="text" value="32611"/> * In Canada, enter just the first three characters of your postal code (e.g. A1A)					1B: Average monthly reference evapotranspiration (ETo): <input style="width: 100px;" type="text" value="5.77"/> inches/month 2A: Average monthly rainfall: <input style="width: 100px;" type="text" value="2.08"/> inches/month			
Enter information about your landscape here: STEP 1A - ENTER THE LANDSCAPED AREA (A) <input style="width: 100px;" type="text" value="9,478"/> Area of the designed landscape (square feet) Is an irrigation system installed on this site? <input style="width: 50px;" type="text" value="Yes"/>					Monthly baseline (gallons/month) based on the site's peak watering month: <input style="width: 100px;" type="text" value="34,091"/> gallons/month Monthly landscape water allowance or LWA (gallons/month) based on the site's peak watering month: <input style="width: 100px;" type="text" value="23,864"/> gallons/month			
Need help?								
See the WaterSense website for help on what to plant or search for a certified irrigation pro!								
Step 2B/Table 1.								
Zone	Hydrozone/Landscape Feature Area (sq. ft.)	Plant Type or Landscape Feature	Water Use	Irrigation Type	Landscape Coefficient (K _L)	Default DU (hidden)	Distribution Uniformity (DU _{Lo})	LWR _H (gal/month)
1	400	Trees	Low	Microspray	0.2	70%	70%	226
2	7,341	Turfgrass	Low	Fixed Spray	0.6	65%	65%	20,709
3	1,737	Shrubs	Low	Microspray	0.2	70%	70%	980
4		Nonvegetated Softscape		No Irrigation				-
5								-
6								-
7								-
8								-
9								-
10								-
11								-
12								-
13								-
14								-
15								-
Total Area =		9,478 of 9478 square feet		Landscape Water Requirement or LWR for the Site (gal/month)				21,915
You have used 92% of your allowance. This is 36% below the baseline.								

Peak Watering Month:

Is an irrigation system being installed on this site?

This worksheet determines if the designed landscape meets the water budget.

If the landscape water requirement is LESS than the landscape water allowance, then the water budget criterion is met.
 If the landscape water requirement is GREATER than the landscape water allowance, then the landscape and/or irrigation system needs to be redesigned to use less water.

STEP 3A - REVIEW THE LWA AND LWR FROM PART 1 AND PART 2

LWA (gallons/month) LWR (gallons/month)

STEP 3B - REVIEW THE TOTAL AREA OF TURFGRASS* IN THE DESIGNED LANDSCAPE FROM STEP 2B

The designed landscape contains square feet of turfgrass.* This is of the landscaped area.

*This includes the area of any pools, spas, and/or water features, designated by WaterSense to be counted as turfgrass.

OUTPUT - DOES THE DESIGNED LANDSCAPE MEET THE WATER BUDGET?

If YES, then the water budget criterion is met.
 If NO, then the landscape and/or irrigation system needs to be redesigned to use less water.

The designed landscape water requirement is a reduction in water use from the baseline calculated in Part 1.



CREDIT 3.5 | DESIGN FUNCTIONAL STORMWATER FEATURES AS AMENITIES

Site plan

Goal: 4 points

Site precipitation is managed on site through the use of two rain gardens that will collect stormwater runoff. The rain gardens are integrated into the design of the site and can be accessed by surrounding walkways on every side. The rain gardens are not only functional, but the natural shape and plantings also serve as an aesthetically enhancing feature for site users. Users will have a first hand educational experience regarding how natural stormwater features can help manage water on a site and enhance the landscape through thoughtful design.

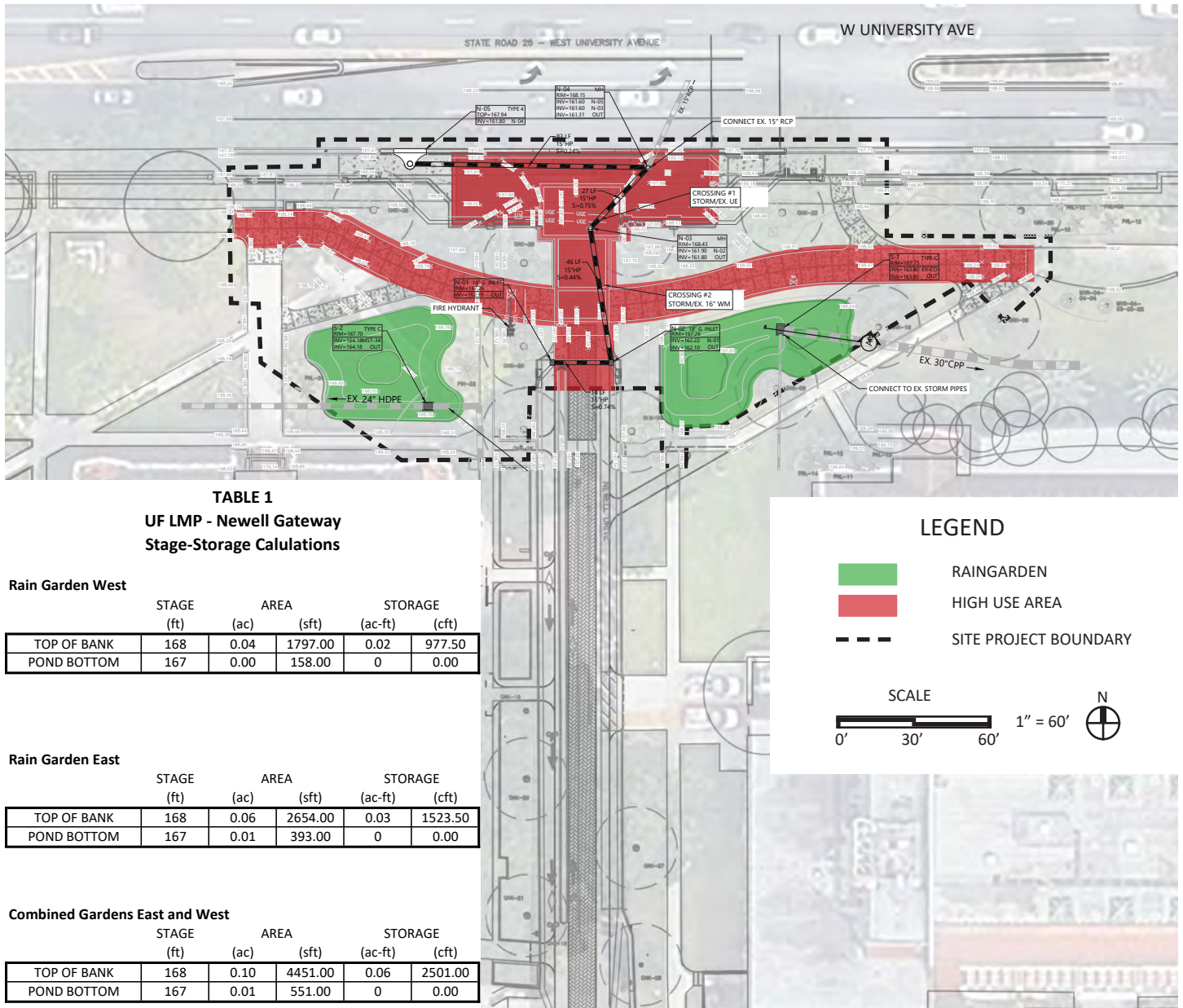


TABLE 1
UF LMP - Newell Gateway
Stage-Storage Calculations

Rain Garden West

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.04	1797.00	0.02	977.50
POND BOTTOM	167	0.00	158.00	0	0.00

Rain Garden East

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.06	2654.00	0.03	1523.50
POND BOTTOM	167	0.01	393.00	0	0.00

Combined Gardens East and West

	STAGE (ft)	AREA (ac)	AREA (sft)	STORAGE (ac-ft)	STORAGE (cft)
TOP OF BANK	168	0.10	4451.00	0.06	2501.00
POND BOTTOM	167	0.01	551.00	0	0.00

LEGEND

- RAINGARDEN
- HIGH USE AREA
- SITE PROJECT BOUNDARY

SCALE 1" = 60'

0' 30' 60'

SECTION 3: SITE DESIGN – WATER

Calculations

Square Footage of stormwater and conveyance features

Area Drains/Gutters - 84 Sq.ft.

8" Pipe - 15 Sq.ft.

16" Pipe - 332 Sq.ft.

24" Pipe - 108 Sq.ft.

30" Pipe - 75 Sq.ft.

Stormwater Ponds - 4,451 Sq.ft.

Total - 5,065 Sq.ft.

Photographs

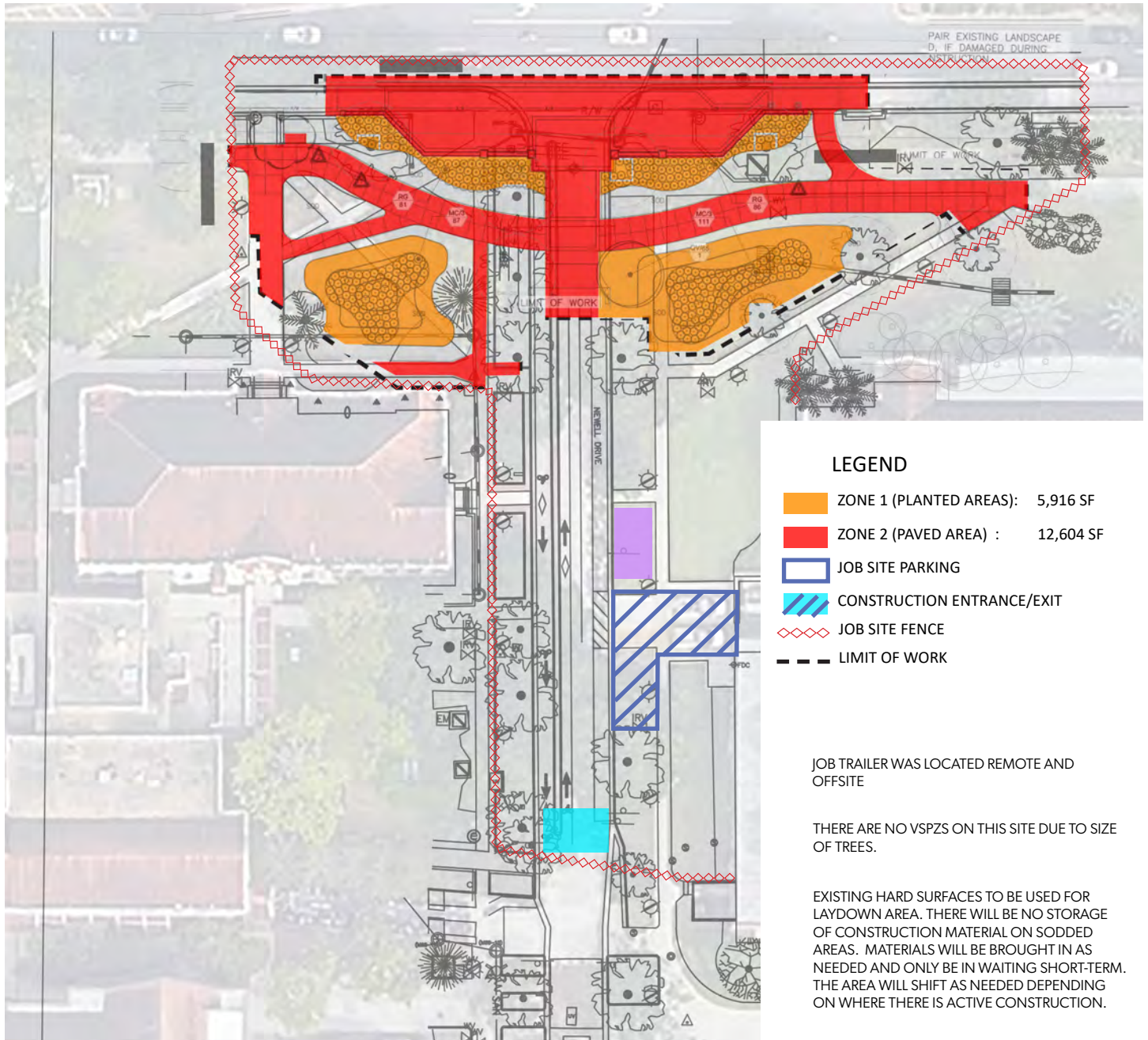


SECTION 4: SITE DESIGN | SOIL + VEGETATION

PREREQUISITE	TITLE	POINTS
Soil+Veg P4.1	Create and communicate a soil management plan	Required
Soil+Veg P4.2	Control and manage invasive plants	Required
Soil+Veg P4.3	Use appropriate plants	Required
CREDIT	TITLE	POINTS
Soil+Veg C4.8	Optimize biomass	1 points
Soil+Veg C4.9	Reduce urban heat island effects	4 points

PREREQUISITE 4.1 | CREATE AND COMMUNICATE A SOIL MANAGEMENT PLAN

Site plan



Newell Entry’s soil management plan is shown as a series of hatch pattern zones with a key offering square footages of each soil restoration treatment zone, as well as the material staging area. Zone 1 outlines the disturbed areas where existing paving will be removed, some construction excavation will occur, and the underlying soil will be remediated and restored. Areas of sod that are not disturbed during construction will not have underlying soil remediated. Zone 2 contains pavement that will not be re-vegetated. The materials staging area is on existing paving that will remain in place and construction vehicle access is available down Newell Drive. The specific activities and methods of soil remediation will be described in more detail in the narrative portion of the submission documents and in the required Soil Management Plan Worksheet.

SITES® v2 Soil Management Plan Worksheet

P4.1: CREATE AND COMMUNICATE A SOIL MANAGEMENT PLAN

PROJECT NAME	PROJECT ID#
Newell Entry	13740

INSTRUCTIONS:

1. Fill out this sheet once for each planned vegetated zone (the entire vegetated area of the site is either Veg & Soil Protection or Soil Restoration zones)

VEGETATION AND SOIL PROTECTION ZONE INFORMATION (all areas designated as VSPZs under P:2.3)	
VEGETATION AND SOIL PROTECTION ZONE ID	N/A - Due to size of mature trees
VSP ZONE SURFACE AREA (square feet)	N/A - See strategy below
VEGETATION AND SOIL PROTECTION STRATEGY	Tree protection barriers will be installed around base of tree before construction begins. VSPZ boundaries are shown to the greatest extent possible, due to large size of existing trees the VSPZ boundaries do not meet requirements.

SOIL RESTORATION ZONE INFORMATION (all areas disturbed by current or previous construction practices that will serve as final vegetated area)	
SOIL RESTORATION ZONE ID	Zone 1
DISTURBED BY CURRENT CONSTRUCTION?	Yes
PREVIOUSLY DISTURBED SOILS?	Yes
PLANTING TYPE / COVER	Planting beds, native vegetation, trees and turf
ZONE SURFACE AREA (square feet)	5,916.31 SF
SOIL RESTORATION STRATEGY	Disturbed soils identified in zone 1 will be restored using the following strategy. Landscape beds will have remediated soils to a depth of 12", tree planting areas to a depth of 18", and the rain garden to a depth of 24". Remediated soils shall meet the minimum requirements of ASTM D5268 Standard Specification for Topsoil Used for Landscaping Purpose. Soil testing will be performed on landscape soils to determine amendments required.
SCARIFICATION DEPTH (inches)	6"

SOIL RESTORATION TREATMENT				
TREATMENT*	INCHES APPLIED	AREA PER ZONE (square feet)	ESTIMATED QUANTITY (cubic yards)	PRODUCT NAME and MANUFACTURER/SUPPLIER NAME
Soil for Rain garden	24	1,582	117.7008	
Topsoil for planting area	12	4335	161.262	O'Steen Brothers of Gainesville
			0	
			0	

*Retain delivery tickets for each treatment

COMMUNICATION OF SOIL MANAGEMENT PLAN	<i>Bryce Burger</i>
--	---------------------

Soil Restoration Treatment

As indicated by the chart, we imported local topsoils for the restoration of each treatment zone. These topsoils were procured from the top 6" of soil on local construction sites prior to the commencement of site work operations. Soils were amended based on the recommendations of the testing lab.

General

Indicated fertilizer amounts, coupled with nutrients already in the soil, will satisfy the crop-nutrient requirement for this growing season. Fertilizer and water management are linked. Maximum fertilizer efficiency is achieved only with close attention to water management. Supply only enough irrigation water to satisfy plant requirements and minimize leaching conditions.

Established trees (more than three to five years since transplanting) do not need routine fertilization.

For recently-planted trees, broadcast fertilizer within a diameter of 1.5 times the dripline diameter.

Broadcast P2O5 either in one application or as half the recommended amount in each of two applications during the growing season. To minimize leaching losses, broadcast N and K2O in small increments throughout the growing season. Schedule one application every 12 weeks (three times per growing season), adding 33% of the recommended amount of N and K2O at each application. To insure equal coverage when fertilizer rates are small, blend all compatible fertilizers.

Soil pH

The pH of this soil is quite high. If this is a natural condition (i.e. if it is not from the over-application of lime), it is generally impractical to lower the soil pH with soil amendments. Use plant species that are tolerant of high soil pH.

Gypsum

Apply 10 lb gypsum per 1000 sq. ft. as a calcium fertilizer source.

Magnesium

Apply the equivalent of 35 lb Mg/A, or 0.8 lb Mg per 1000 sq. ft., in a soluble form, such as magnesium sulfate or potassium magnesium sulfate.

Lime and Fertilizer Recommendations

Lime:	0.00	lbs per 1000 sq. ft.
Nitrogen(N):	1.10	lbs per 1000 sq. ft.
Phosphorus(P ₂ O ₅):	0.00	lbs per 1000 sq. ft.
Potassium(K ₂ O):	0.30	lbs per 1000 sq. ft.
Magnesium(Mg):	0.80	lbs per 1000 sq. ft.

We do not test soil for N as there is no meaningful soil test for predicting N availability. Thus, the N recommendation was developed from research that measured response of the indicated crop to applied N fertilizer. If you expect significant nutrient release from organic sources such as crop residues or organic amendments, estimate the amount mineralized and subtract that amount from the fertilizer recommendations given below to arrive at crop needs.

IMPORTANT: Prior to making any of the recommended applications, read carefully the footnotes/directions on this report. If you have any questions, please call the county extension agent listed above.

PREREQUISITE 4.2 | CONTROL AND MANAGE INVASIVE PLANTS

CASE 1: NO INVASIVE PLANTS FOUND ON SITE

Narrative

The contractor shall ensure all plant material is free of invasive plants identified in the Florida Exotic Plant Council’s List of Invasive Plant Species. The contractor is to inspect all plant material prior to delivery to the project site. In addition, the project landscape architect, who prepared the landscape plan, will inspect the project to assure that no invasives were inadvertently permitted to volunteer on the project site.

Landscape designs on campus are bound by the requirements of the University of Florida Landscape Master Plan, which addresses the general approach to landscape design on campus. It also provides a list of specific plant species that are permitted to be used on the campus, none of which are invasives, and many of which are Florida native plants.

A review of landscape designs and plant material selections for all campus projects is required by the UF’s Lakes, Vegetation and Landscape (LVL) Committee, which reviews designs at the 30% and 60% stages of plan completion. This committee requires that the landscape architects present the designs at monthly meetings. The presentations are followed by a rigorous review by Committee members, who are comprised of UF faculty and staff including horticulture and landscape architecture professors as well as Grounds personnel.

The image below is taken from the first page of the approved plant list from the UF Landscape Master Plan.

GENERAL CAMPUS PLANT PALETTE PRECINCTS: 1,2,3,4

The plant species listed here have been selected in part to provide designers with varying options related to cultural requirements, texture, color and seasonal variety. The high percentage of native plants listed is intentional and is a reflection of the University’s dedication to environmental stewardship. However no plant list can adequately meet all planting requirements for all conditions, and as a result a request to specify a plant that is not listed below may be made to the Lakes, Vegetation, and Landscaping Committee by submitting a formal request through the University’s assigned project manager at the Planning Design and Construction Division.

LARGE TREES

BOTANICAL NAME COMMON NAME	LIGHT	SOIL MOISTURE	NATIVE
<i>Acer rubrum</i> Red Maple			
<i>Carya glabra</i> Pignut Hickory			
<i>Carya illinoensis</i> Pecan			
<i>Fraxinus pennsylvanica</i> Green Ash			
<i>Gordonia lasianthus</i> Loblolly bay			
<i>Liquidambar styraciflua</i> Sweetgum			
<i>Liriodendron tulipifera</i> Tulip Poplar			
<i>Magnolia grandiflora</i> Southern Magnolia			
<i>Magnolia virginiana</i> and cvs. Sweetbay Magnolia			
<i>Persea borbonia</i> Red bay			
<i>Pinus elliottii</i> Slash Pine			
<i>Pinus elliottii</i> var. <i>elliottii</i> Northern Slash Pine			
<i>Pinus palustris</i> Long Leaf Pine			
<i>Pinus taeda</i> Loblolly Pine			
<i>Platanus occidentalis</i> Sycamore			
<i>Quercus falcata</i> Southern Red Oak			
<i>Quercus geminata</i> Sand Live Oak			
<i>Quercus michauxii</i> Swamp Chestnut Oak			

SITES® v2 Vegetation Worksheet

- P4.2: CONTROL AND MANAGE INVASIVE PLANTS
- P4.3: USE APPROPRIATE PLANTS
- C4.4: CONSERVE HEALTHY SOILS AND APPROPRIATE VEGETATION
- C4.6: CONSERVE AND USE NATIVE PLANTS
- C4.7: CONSERVE AND RESTORE NATIVE PLANT COMMUNITIES
- C6.7: PROVIDE ON-SITE FOOD PRODUCTION
- C4.10: USE VEGETATION TO MINIMIZE BUILDING ENERGY USE
- C4.11: REDUCE THE RISK OF CATASTROPHIC WILDFIRE

PROJECT NAME	PROJECT ID#
Newell Entry	13740

INSTRUCTIONS:

1. Fill out this sheet once for each planned vegetated zone

SITE INFORMATION	
VEGETATED ZONE ID	ZONE 1
VEGETATED ZONE (square feet or acres)	12,434
SOIL RESTORATION ZONE ID	ZONE 1
SOIL DEPTH (inches)	12 inches
SPACE LIMITATIONS	None
APPROXIMATE DIRECT SUN TIME (hours)	12 hours, 9 minutes
SUN EXPOSURE	Full Sun
PRECIPITATION (annual average in inches)	47.09
HARDINESS ZONE (USDA, where available)	8B - 9A
EPA LEVEL III ECOREGION (where available)	Southern Coastal Plain
COUNTY	Alachua
STATE	Florida
COUNTRY	United States

SITES® v2 Vegetation Worksheet

P4.2: CONTROL AND MANAGE INVASIVE PLANTS
 P4.3: USE APPROPRIATE PLANTS
 C4.4: CONSERVE HEALTHY SOILS AND APPROPRIATE VEGETATION
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 C4.10: USE VEGETATION TO MINIMIZE BUILDING ENERGY USE
 C4.11: REDUCE THE RISK OF CATASTROPHIC WILDFIRE

PROJECT NAME PROJECT ID#

Newell Entry 13740

INSTRUCTIONS:

1. Copy and fill out this sheet for each plant species brought to the site

PLANT INFORMATION

VEGETATED ZONE ID	Zone 1
SCIENTIFIC NAME	Quercus virginiana
COMMON NAME	Southern Live Oak
CULTIVAR, HYBRID, VARIETY, ETC.	N/A
KNOWN DISEASES/PESTS FOR THE SPECIES IN THE REGION	Oak wilt, canker diseases, powdery mildew, shoestring root rot
IS THE SPECIES DISEASE/PEST RESISTANT?	Usually Disease/Pest free
MATURE HEIGHT and SPREAD	60'-80' HT., 60'-120' SPD.
SUN EXPOSURE	Full sun to partial shade
SOIL REQUIREMENTS	Clay; sand; loam; alkaline; acidic
PLANT WATER USE	Occasionally wet; well-drained
HARDINESS RANGE (USDA, where available)	7B through 10B
SPECIAL MAINTENANCE REQUIREMENTS	No
USDA PLANTS DATABASE NATIVE STATUS:	L48 N
NATIVE TO EPA LEVEL III ECOREGION?	Yes
NATIVE TO COUNTY or KNOWN TO NATURALLY OCCUR WITHIN 200 MILES OF THE SITE?	Yes
FEDERAL and/or STATE NOXIOUS WEED/INVASIVE STATUS	No
NURSERY GROWN?	Yes
LEGALLY HARVESTED?	Yes
FOOD PRODUCTION?	No

SITES® v2 Vegetation Worksheet

P4.2: CONTROL AND MANAGE INVASIVE PLANTS
 P4.3: USE APPROPRIATE PLANTS
 C4.4: CONSERVE HEALTHY SOILS AND APPROPRIATE VEGETATION
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 C4.11: REDUCE THE RISK OF CATASTROPHIC WILDFIRE

PROJECT NAME

PROJECT ID#

Newell Entry

13740

INSTRUCTIONS:

1. Copy and fill out this sheet for each plant species brought to the site

PLANT INFORMATION

VEGETATED ZONE ID	Zone 1
SCIENTIFIC NAME	Rhododendron indicum 'Mrs. G.G. Gerbing'
COMMON NAME	Azalea G.G. Gerbing
CULTIVAR, HYBRID, VARIETY, ETC.	Mrs. G.G. Gerbing
KNOWN DISEASES/PESTS FOR THE SPECIES IN THE REGION	Bark Scale, Azalea lace Bugs, Leafminers, and occasionally Whiteflies. Azalea gall, powdery mildew, rust, and twig blights.
IS THE SPECIES DISEASE/PEST RESISTANT?	No
MATURE HEIGHT and SPREAD	6'-8' HT., 4'-6' SPD.
SUN EXPOSURE	Part sun or filtered shade
SOIL REQUIREMENTS	Well drained soil, rich in organic matter
PLANT WATER USE	Moderate
HARDINESS RANGE (USDA, where available)	7A - 8B
SPECIAL MAINTENANCE REQUIREMENTS	Feed with an acid fertilizer after bloom. Keep roots cool with a thick layer of mulch.
USDA PLANTS DATABASE NATIVE STATUS:	N/A
NATIVE TO EPA LEVEL III ECOREGION?	No
NATIVE TO COUNTY or KNOWN TO NATURALLY OCCUR WITHIN 200 MILES OF THE SITE?	No
FEDERAL and/or STATE NOXIOUS WEED/INVASIVE STATUS	No
NURSERY GROWN?	Yes
LEGALLY HARVESTED?	Yes
FOOD PRODUCTION?	No

SITES® v2 Vegetation Worksheet

P4.2: CONTROL AND MANAGE INVASIVE PLANTS
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PROJECT NAME

PROJECT ID#

Newell Entry

13740

INSTRUCTIONS:

1. Copy and fill out this sheet for each plant species brought to the site

PLANT INFORMATION

VEGETATED ZONE ID	Zone 1
SCIENTIFIC NAME	Muhlenbergia capillaris
COMMON NAME	Pink Muhly Grass
CULTIVAR, HYBRID, VARIETY, ETC.	N/A
KNOWN DISEASES/PESTS FOR THE SPECIES IN THE REGION	Leaf spots, rust, aphids, and grasshoppers
IS THE SPECIES DISEASE/PEST RESISTANT?	Disease resistant
MATURE HEIGHT and SPREAD	2'-4' HT., 2'-3' SPD.
SUN EXPOSURE	Full sun
SOIL REQUIREMENTS	can grow in various soil textures, including sandy, loamy, or clay soils, slightly acidic
PLANT WATER USE	Occasionally wet; well-drained
HARDINESS RANGE (USDA, where available)	9-Jun
SPECIAL MAINTENANCE REQUIREMENTS	No
USDA PLANTS DATABASE NATIVE STATUS:	L48 N
NATIVE TO EPA LEVEL III ECOREGION?	Yes
NATIVE TO COUNTY or KNOWN TO NATURALLY OCCUR WITHIN 200 MILES OF THE SITE?	Yes
FEDERAL and/or STATE NOXIOUS WEED/INVASIVE STATUS	No
NURSERY GROWN?	Yes
LEGALLY HARVESTED?	Yes
FOOD PRODUCTION?	No

SITES® v2 Vegetation Worksheet

- P4.2: CONTROL AND MANAGE INVASIVE PLANTS
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- C4.11: REDUCE THE RISK OF CATASTROPHIC WILDFIRE

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PROJECT NAME	PROJECT ID#
Newell Entry	13740

INSTRUCTIONS:

1. Copy and fill out this sheet for each plant species brought to the site

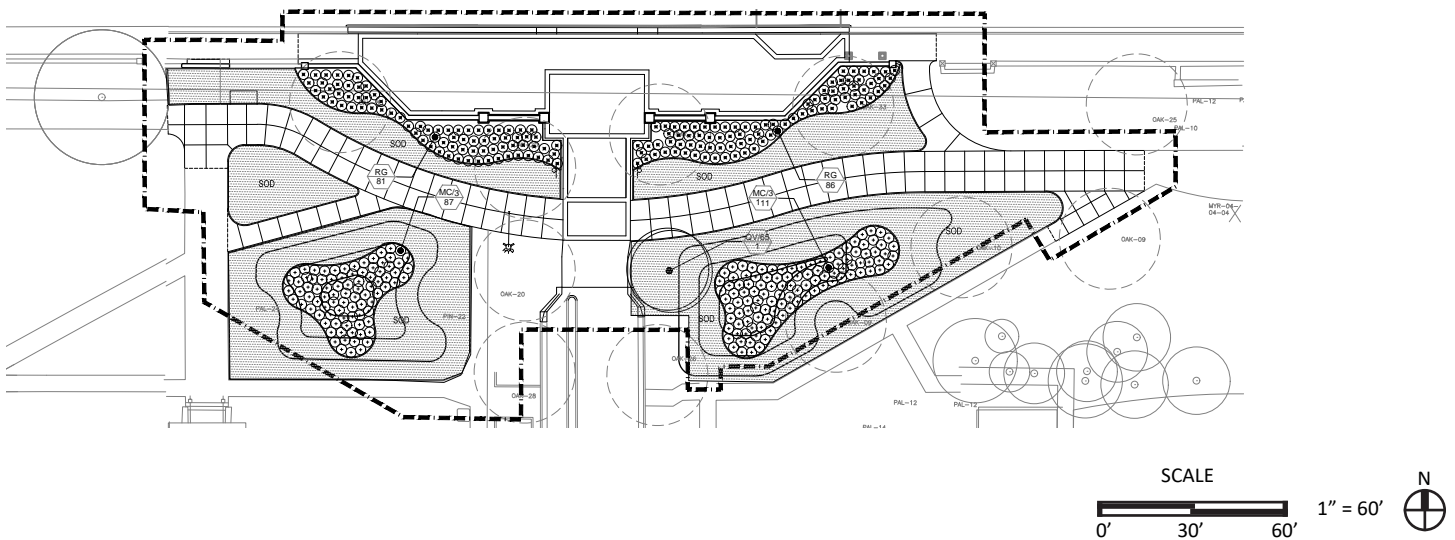
PLANT INFORMATION	
VEGETATED ZONE ID	Zone 1
SCIENTIFIC NAME	Zoysia japonica
COMMON NAME	Korean Grass
CULTIVAR, HYBRID, VARIETY, ETC.	Empire
KNOWN DISEASES/PESTS FOR THE SPECIES IN THE REGION	Pest Problems: Hunting billbug, mole crickets, white grubs, sod webworms, and nematodes. Large Patch disease
IS THE SPECIES DISEASE/PEST RESISTANT?	Weed resistant
MATURE HEIGHT and SPREAD	2-4" HT. 2'-3' SPRD. Per year
SUN EXPOSURE	Full sun to partial shade
SOIL REQUIREMENTS	Clay; sand; loam; alkaline; acidic
PLANT WATER USE	Irrigation as needed, less water needed in fall and winter
HARDINESS RANGE (USDA, where available)	7B through 10B
SPECIAL MAINTENANCE REQUIREMENTS	No
USDA PLANTS DATABASE NATIVE STATUS:	L48 I
NATIVE TO EPA LEVEL III ECOREGION?	Yes
NATIVE TO COUNTY or KNOWN TO NATURALLY OCCUR WITHIN 200 MILES OF THE SITE?	Yes
FEDERAL and/or STATE NOXIOUS WEED/INVASIVE STATUS	No
NURSERY GROWN?	Yes
LEGALLY HARVESTED?	Yes
FOOD PRODUCTION?	No

PREREQUISITE 4.3 | USE APPROPRIATE PLANTS

Planting plan

The selection of an appropriate plant palette for the Newell Gateway was based in part upon plants previously thriving at the site and throughout the university campus. This resulted in the selection of the Live Oak (*Quercus virginiana*), which is the dominant tree canopy throughout the UF campus and at the Newell Gateway. We also specified George Taber azalea (*Rhododendron* x 'George Taber'), adding to existing plantings adjacent to the project site. Once established, and with a bed of oak leaf litter continually creating a mulch layer along with the dappled shade of the oak canopies, the azaleas are perfectly suited for this location. The Pink Muhley Grass (*Muhlenbergia capillaris*) was selected for the rain gardens. As a native Florida species, the Muhley grass can do well in dry conditions but will tolerate periodic wet conditions, which is how these rain gardens are intended to function.

Korean Grass (*Zoysia* spp.) is the preferred turf for the entire campus due to its slower growth rate, resulting in less expenditure of energy to maintain. The 'Empire' cultivar does well in a variety of soil types, from sandy to clay and it has good shade tolerance, a must beneath the shade of the large oak trees here.



PLANT SCHEDULE NEWELL GATEWAY						
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	
QV/65	1	<i>Quercus virginiana</i>	Southern Live Oak	65 gal	3.5" Cal	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	
MC/3	198	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	3 GAL.		
RG	167	<i>Rhododendron indicum</i> 'Mrs. G.G. Gerbing'	Azalea G.G. Gerbing	3 GAL.	20"-24" OA	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	
ZE	7,341 sf	<i>Zoysia japonica</i> 'Empire'	Korean Grass	SOD	SOD	

SITES® v2 Vegetation Worksheet

- P4.2: CONTROL AND MANAGE INVASIVE PLANTS**
- P4.3: USE APPROPRIATE PLANTS**
- C4.4: CONSERVE HEALTHY SOILS AND APPROPRIATE VEGETATION**
- C4.6: CONSERVE AND USE NATIVE PLANTS**
- C4.7: CONSERVE AND RESTORE NATIVE PLANT COMMUNITIES**
- C6.7: PROVIDE ON-SITE FOOD PRODUCTION**
- C4.10: USE VEGETATION TO MINIMIZE BUILDING ENERGY USE**
- C4.11: REDUCE THE RISK OF CATASTROPHIC WILDFIRE**

PROJECT NAME	PROJECT ID#
Newell Entry	13740

INSTRUCTIONS:

1. Fill out this sheet once for each planned vegetated zone

SITE INFORMATION	
VEGETATED ZONE ID	ZONE 1
VEGETATED ZONE (square feet or acres)	12,434
SOIL RESTORATION ZONE ID	ZONE 1
SOIL DEPTH (inches)	12 inches
SPACE LIMITATIONS	None
APPROXIMATE DIRECT SUN TIME (hours)	12 hours, 9 minutes
SUN EXPOSURE	Full Sun
PRECIPITATION (annual average in inches)	47.09
HARDINESS ZONE (USDA, where available)	8B - 9A
EPA LEVEL III ECOREGION (where available)	Southern Coastal Plain
COUNTY	Alachua
STATE	Florida
COUNTRY	United States

V1
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Rhododendron x 'George Taber' 'George Taber' Azalea¹

Edward F. Gilman²

Introduction

Profuse, pink springtime blooms are so plentiful and large that they completely hide the foliage, making 'George Taber' azalea a favorite landscape shrub in the south. This large, spreading evergreen azalea is most impressive when used in mass plantings but makes an attractive specimen planting as well. Plant in mass on 4- to 6-foot centers.

General Information

Scientific name: *Rhododendron x* 'George Taber'

Pronunciation: roh-duh-DEN-drum

Common name(s): 'George Taber' azalea

Family: Ericaceae

Plant type: shrub

USDA hardiness zones: 8 through 10 (Fig. 1)

Planting month for zone 8: year round

Planting month for zone 9: year round

Planting month for zone 10: year round

Origin: not native to North America

Uses: mass planting; specimen; attracts butterflies; cut flowers; foundation

Availability: generally available in many areas within its hardiness range

Description

Height: 10 to 12 feet

Spread: 8 to 10 feet

Plant habit: round

Plant density: moderate

Growth rate: slow

Texture: medium



Figure 1. Shaded area represents potential planting range.

Foliage

Leaf arrangement: alternate

Leaf type: simple

Leaf margin: entire

Leaf shape: ovate

Leaf venation: pinnate

Leaf type and persistence: evergreen

Leaf blade length: 2 to 4 inches

Leaf color: green

Fall color: no fall color change

Fall characteristic: not showy

Flower

Flower color: pink

Flower characteristic: spring flowering; winter flowering

Azaleas at a Glance¹

Sydney Park Brown²

Spectacular flowers and shade tolerance - are among the reasons for the azalea's popularity in north and central Florida (USDA Hardiness Zones 8a–9b) (Figure 1). Azaleas are not successful in coastal areas where alkaline soils, salt drift, or saline irrigation water are found. They are also not adapted to the warm winters and soil conditions of most south Florida.



Figure 1. 'George Taber'—A Southern Indica azalea. Credits: Carolyn Wildes, UF/IFAS

Azaleas enhance the home landscape as foundation or mass plantings and as background or foreground plants, depending on their size. They are also sometimes pruned into single-trunked standards that serve as specimen plants. Generally, their open, relaxed growth habit is more suited to informal landscape designs, but they can be shaped more neatly with pruning.

Adapted Species and Hybrids

Azaleas adapted to Florida require 4–8 weeks of temperatures below 50°F (10°C) and generally begin to bloom between February and early April when warm temperatures follow this chilling period. Sporadic flowering is more common in central than in north Florida because of milder winter temperature fluctuation. Azaleas belong to the genus *Rhododendron* and most are native to eastern Asia (evergreen species) or North America (deciduous species). Many azalea types and hybrids exist. Table 1 lists some of the most reliable cultivars for Florida landscapes. Mature plant size, flower characteristics, and bloom season should be considered when selecting azaleas. North Florida is home to several native species, most of which are deciduous and have fragrant flowers. Native azaleas are listed in Table 2.

General Culture

Azaleas perform best in areas with filtered sunlight. Their shallow root system and low tolerance to drought and poor drainage make placement and care important.

Exposure

Dappled or partial shade provides conditions for healthy growth and optimum flowering. Most do best when protected from intense afternoon sun. On the other hand, dense shade reduces plant growth and flowering. Azaleas exposed directly to early morning sun after a hard freeze thaw too rapidly, which causes bark splitting. Death of

1. This document is FPS509, one of a series of the Environmental Horticulture Department, UF/IFAS Extension. Original publication date October 1999. Revised February 2014. Visit the EDIS website at <http://edis.ifas.ufl.edu>.

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different layering techniques. See *Propagation of Landscape Plants* (<https://edis.ifas.ufl.edu/publication/mg108>) and the Azalea Society of America (www.azaleas.org). Deciduous azaleas are usually propagated by seed or air layering because cuttings are difficult to root.

Pests Problems

Insects/Mites

Lace bugs, spider mites, leafminers/leafrollers, and azalea caterpillars are the most common pest problems for azaleas in the Florida landscape. Lace bugs are sucking insects that feed on the undersides of leaves. The top surface of the injured leaf appears speckled or mottled (Figure 3), and tiny black spots of insect excrement can be seen on the leaf undersides. (See *Azalea Lace Bug* at <https://edis.ifas.ufl.edu/publication/in677>).



Figure 3. Lace bug damage on azalea leaves. Credits: UF/IFAS

Spider mite injury appears as a bronzing or rusty coloration of green leaves. A mite infestation can be verified by placing a white piece of paper beneath the foliage and slapping the leaves with your hand. Mites can be detected on the white paper as moving, tiny red or brown specks. Two spider mites that commonly attack azaleas are the southern red mite and the twospotted mite.

The azalea leafminer injures azalea leaves in different ways during its life cycle. The young larva "mines" inside the leaves, creating small brown areas. It then migrates to the upper leaf surface, rolls the leaf over itself, and chews holes in it. It will sometimes knit together and feed on new leaves, causing an unsightly plant. When mature, the larva often rolls up in an undamaged leaf and pupates.

The azalea caterpillar (Figure 4) occurs in north and central Florida and can strip leaves from large portions of a plant. When mature, the caterpillar has a red head and a black body covered with rows of yellow spots and (nonstinging) white hairs. Younger caterpillars feed together on new growth, and entire populations can be controlled at that stage by simply picking off infested leaves. Mature caterpillars are best managed by handpicking and destroying them.



Figure 4. Azalea caterpillar. Credits: UF/IFAS

More information about these pests can be found on the Featured Creatures website (<https://entnemdept.ufl.edu/creatures/>) or by consulting your local UF/IFAS Extension office (<https://sfyl.ifas.ufl.edu/find-your-local-office/>).

Diseases

The most common diseases reported on azaleas include petal blight, leaf and flower gall, and various azalea declines. Petal blight is most severe during cool, wet spring weather. Infection first appears as small, white spots on colored petals or rust-colored spots on white-flowered varieties. Spots enlarge rapidly into irregular blotches, causing the blossoms to "melt" into a slimy mass. Affected blossoms drop and either drop or remain on the plant. The fungus survives on dried blossoms on or in the soil. Removing mulch and dead flowers 3–4 weeks before bloom reduces disease incidence.

Leaf and flower galls (Figure 5) are more alarming than damaging. The fleshy galls may occur on leaves, stems, or flowers and are most severe on densely shaded plantings with poor air circulation. To prevent a recurrence the following year, galls should be handpicked and destroyed when they first appear. Fungicide treatments are not generally warranted in home landscapes.

branches with split bark may not occur until months after the injury.

Soils

Well-drained, acidic soils with pH 4.5–6.0 are best suited for azaleas because they prefer the ample quantities of iron and other micronutrients that are readily available in acidic soils. Soil pH can be determined with a soil test. The UF/IFAS Extension Soil Testing Laboratory (<https://soilslab.ifas.ufl.edu/ESTL%20Home.asp>) or your local UF/IFAS Extension office (<https://sfyl.ifas.ufl.edu/find-your-local-office/>) can help with soil testing. Research does not indicate any benefit from adding organic matter to individual planting holes. However, when a number of azaleas are being transplanted together, the entire planting bed can be improved by adding organic matter, such as peat, compost, or pine bark. These amendments increase moisture and nutrient retention and lower soil pH. When azaleas are grown in soils with a pH higher than 6.0, they often develop a micronutrient deficiency, most typically iron, which exhibits on new growth as yellowing between the leaf veins (Figure 2). These deficiencies can be treated as needed with foliar sprays containing micronutrients. Soils can be temporarily modified (made more acidic) by applying elemental sulfur. Because excessive rates injure plant roots, no more than 1 pound of sulfur per 100 square feet of planting should be applied at one time. Apply sulfur no more than two or three times a year. Other soil amendments, such as ammonium sulfate, iron sulfate, and aluminum sulfate, can also be used to lower soil pH. These are often included in "acid-forming fertilizers." Azaleas growing in extremely acidic soils (pH 3.5–4.5) will be healthy but grow slowly.



Figure 2. Azalea leaves showing iron deficiency. Credits: UF/IFAS Plant Nutrient Deficiency Database

Planting/Transplanting

The planting hole for an azalea plant should be approximately 12 inches wider than the root mass. Plants should be spaced according to the cultivar's mature size, but generally they should be spaced 3–5 feet apart. Azaleas have very fibrous root systems that easily become pot bound. Before planting, gently loosen the root ball with your fingers and saturate it completely with water. Set the plant in the hole at or above the depth at which it was growing in the container,

fill the hole with native soil (no amendments necessary in the planting hole), and water again.

An organic mulch should be applied and maintained at a depth of 2–3 inches to conserve water and reduce weed problems. Make sure the mulch does not cover the top of the root ball or touch the stem. November to February is the best season for transplanting; however, containerized azaleas may be planted any time if proper care is provided. Azaleas easily perish when they are not properly planted and established. When this occurs, the dead or dying azalea can be easily pulled from the soil with the root ball intact and few to no new roots.

Watering

Irrigation is necessary for successful establishment and optimum growth during extended dry periods. Plants transplanted during the dry season into sandy soils require watering two to three times a week until they are established. Generally, established plants should receive about $\frac{1}{2}$ –1 inch of water every 10 days to 2 weeks during dry periods to wet the soil to a depth of 10–12 inches. The lower leaves of plants that undergo a severe wilt will yellow and drop.

Fertilization

Frequent and light fertilizer applications are often necessary in Florida's sandy soils. An acid-forming fertilizer containing iron and other micronutrients (sometimes sold as an "Azalea Special Fertilizer") should be applied as needed. Micronutrients should be applied with foliar sprays or soil-applied products when deficiencies occur. For more information about nutritional deficiencies, see the Plant Nutrient Deficiency database (<https://hort.ifas.ufl.edu/database/nutdef/index.shtml>).

Pruning

Pruning is necessary to obtain a full, well-branched azalea. Several light prunings just after flowering and continuing through the growing season result in a compact, denser plant with more blooms. Flower buds are initiated in late spring and early summer, long before they can be seen, so pruning should cease in midsummer (July 4 is an easy date to remember). Pruning after this date decreases the number of spring flowers.

Propagation

Evergreen azaleas are usually propagated by 3–4-inch cuttings taken after the spring growth has hardened or matured (June). They are also easy to root using



Figure 5. Azalea leaf and flower gall.
Credits: Norma Samuel, UF/IFAS

The disease, mushroom root rot, is usually fatal to azaleas, especially those planted in sites with tree stumps or buried organic debris. The causal fungus is visible as a white mycelium under the bark of major roots or the plant crown.

Slow decline in plant vigor with general stunting may be due to nematode injury of the root system. Root examination will reveal galls or swellings, necrosis of fine roots, and/or general stubbornness of small roots, depending on the nematode involved. Unfortunately, at this time there are no chemical controls for nematodes on established plants.

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Acknowledgements

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Additional Resources

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Azaleas at a Glance

4



Figure 2. Range

Foliage

- Leaf arrangement:** alternate
- Leaf type:** simple
- Leaf margin:** entire
- Leaf shape:** elliptic (oval), linear
- Leaf venation:** pinnate
- Leaf type and persistence:** semi-evergreen, evergreen
- Leaf blade length:** 2 to 5 inches
- Leaf color:** dark green and glossy on top, paler green and may or may not have pubescence underneath
- Fall color:** no color change
- Fall characteristic:** not showy



Figure 3. Leaf—*Quercus virginiana*: southern live oak

Flower

- Flower color:** male—yellow-green catkin; female—green to reddish spike that emerges from leaf axils
- Flower characteristics:** not showy
- Flowering:** early spring



Figure 4. Canopy—*Quercus virginiana*: southern live oak



Figure 5. Flower—*Quercus virginiana*: southern live oak

Fruit

- Fruit shape:** elongated, oval
- Fruit length:** ¾ inch
- Fruit covering:** dry or hard acorn; cap is bowl-shaped, warty, scales and covers the top ½ of the shiny nut
- Fruit color:** dark brown
- Fruit characteristics:** attracts birds; not showy; fruit/leaves a litter problem

Trunk and Branches

- Trunk and branches:** branches droop; showy; typically one trunk; no thorns
- Bark:** reddish brown and furrowed when young, turning gray to almost black, and becoming rough, deeply furrowed, and blocky with age

Quercus virginiana: Southern Live Oak¹

Edward F. Gilman, Dennis G. Watson, Ryan W. Klein, Andrew K. Koester, Deborah R. Hilbert, and Drew C. McLean²

Introduction

A large, sprawling, picturesque tree, usually graced with Spanish moss and strongly reminiscent of the Old South. Southern live oak is one of the broadest spreading of the oaks, providing large areas of deep, inviting shade. It is the state tree of Georgia. Reaching 60 to 80 feet in height with a 60 to 120 foot spread and usually possessing many sinuously curved trunks and branches, Southern live oak is an impressive sight for any large-scale landscape. An amazingly durable American native, it can measure its lifetime in centuries if properly located and cared for in the landscape. It makes an excellent street tree in the South. Unfortunately, oak wilt has devastated the tree in parts of central Texas. Give it plenty of room since the trunk can grow to more than six feet in diameter.

General Information

- Scientific name:** *Quercus virginiana*
- Pronunciation:** KWERK-us ver-jin-ee-AY-nuh
- Common name(s):** live oak, southern live oak
- Family:** Fagaceae
- USDA hardiness zones:** 7B through 10B (Figure 2)
- Origin:** native to the Atlantic and Gulf Coastal states of the southeastern United States, in addition to south central Texas, and northeastern Mexico

UF/IFAS Invasive Assessment Status: native

Uses: street without sidewalk; shade; specimen; reclamation; parking lot island > 200 sq ft; tree lawn > 6 ft wide; urban tolerant; highway median



Figure 1. Full Form—*Quercus virginiana*: southern live oak

Description

- Height:** 60 to 80 feet
- Spread:** 60 to 120 feet
- Crown uniformity:** symmetrical
- Crown shape:** spreading, round
- Crown density:** dense
- Growth rate:** moderate
- Texture:** fine

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- Edward F. Gilman, professor emeritus, Environmental Horticulture Department; Dennis G. Watson, former associate professor, Agricultural Engineering Department; Ryan W. Klein, graduate assistant, Environmental Horticulture Department; Andrew K. Koester, assistant professor, Environmental Horticulture Department, UF/IFAS Gulf Coast Research and Education Center; Deborah R. Hilbert, graduate assistant, Environmental Horticulture Department, GCREC; and Drew C. McLean, biological scientist, Environmental Horticulture Department, GCREC; UF/IFAS Extension, Gainesville, FL 32611.

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U.S. Department of Agriculture, UF/IFAS Extension Service, University of Florida, IFAS, Florida A & M University Cooperative Extension Program, and Boards of County Commissioners Cooperating. Nick T. Place, dean for UF/IFAS Extension.

- Pruning requirement:** needed for strong structure
- Breakage:** resistant
- Current year twig color:** gray
- Current year twig thickness:** thin
- Wood specific gravity:** 0.88



Figure 6. Bark—*Quercus virginiana*: southern live oak
Credits: Gitla Hasing

Culture

- Light requirement:** full sun to partial shade
- Soil tolerances:** clay; sand; loam; alkaline; acidic; occasionally wet; well-drained
- Drought tolerance:** high
- Aerosol salt tolerance:** high

Other

- Roots:** can form large surface roots
- Winter interest:** no
- Outstanding tree:** yes
- Ozone sensitivity:** unknown
- Verticillium wilt susceptibility:** resistant
- Pest resistance:** resistant to pests/diseases

Use and Management

Once established, live oak will thrive in almost any location and has very good wind resistance. Southern live oak is a tough, enduring tree that will respond with vigorous growth to plentiful moisture on well-drained soil. Like other oaks, care must be taken to develop a strong branch structure early in the life of the tree. Be sure to eliminate multiple trunks and branches which form a narrow angle

with the trunk as these are likely to split from the tree as it grows older.

Be sure that adequate soil space is given to live oak. Although roots will grow under curbs and sidewalks when planted in confined soil spaces allowing the tree to thrive in urban sites, in time, they lift sidewalks, curbs, and driveways. This may be a small price to pay for the bountiful shade cast by a row of healthy trees.

One of the biggest problems with live oak in our cities is the lack of pruning. Therefore, it is not a plant-and-forget tree. Because this tree can live for such a long time, it is very important to develop proper trunk and branch structure early in the life of the tree. Following planting in the nursery, prune the tree each year for the first three years, then every five years to age 30. This program will help ensure that the tree develops into a strong, long-lived fixture in the community, and will help develop the 14 to 15 foot tall vehicle clearance needed for planting along city streets.

Best growth is made in moist, acid soil, sand, loam, or clay, but the tree is amazingly adapted to drought. It also tolerates alkaline soil well. Young trees grow three feet each year and the trunk adds about one-inch in diameter under nursery conditions. Construction-impacted trees take a long time to die, giving live oak a reputation for being a tough tree. It is usually the last tree to die around a newly constructed building.

Sand live oak, *Quercus virginiana* var. *geminata* (Q. *geminata*), grows on sandy soil, is more upright and open-crowned in habit, has thick revolute leaves and acorns produced in pairs. It may be more suited for street tree planting due to the smaller size. Leaves emerge about four weeks after live oak and sand live oak suckers more than live oak. The fast-growing variety 'Heritage' is recommended for desert areas, and is more common in the southwestern United States. *Quercus fusiformis* is native to central and southern Texas, is susceptible to oak wilt but resistant to root rot. Perhaps more adapted to Texas than *Quercus virginiana* but nursery operators do not normally differentiate among the live oaks.

Pests

It is usually pest-free. Occasionally mites infest the foliage, but they are of little concern in the landscape.

Galls cause homeowners much concern. There are many types and galls can be on the leaves or twigs. Most galls are harmless so chemical controls are not suggested.

SECTION 4: SITE DESIGN – SOIL + VEGETATION

Scales of several types can usually be controlled with sprays of horticultural oil.

Aphids cause distorted growth and deposits of honeydew on lower leaves. On large trees, naturally-occurring predatory insects will often bring the aphid population under control.

Boring insects are most likely to attack weakened or stressed trees. Newly planted young trees may also be attacked. Keep trees as healthy as possible with regular fertilization and water during dry weather.

Diseases

It is usually disease-free except for oak wilt in parts of Texas and perhaps some other isolated areas. Oak wilt is a fatal disease beginning with a slight crinkling and paling of the leaves. This is followed by leaf wilting and browning of leaf margins then working inward. The symptoms move down branches toward the center of the tree. Cut down and destroy infected trees. The disease may be spread by insects, pruning tools or transporting infected wood to uninfected areas. The disease appears to infect red, black, and live oaks particularly. Common practice in Texas where oak wilt is most prevalent is to immediately paint pruning cuts on live oak with pruning paint to help prevent the insect vector from coming to the tree. Avoid pruning in mid-spring to early summer in areas where oak wilt is present. Dormant or summer pruning is best.

Canker diseases attack the trunk and branches. Keep trees healthy by regular fertilization. Prune out diseased or dead branches.

A large number of fungi cause leaf spots but are usually not serious. Rake up and dispose of infected leaves.

Powdery mildew coats leaves with fugal growth resembling white powder.

Shoestring root rot attacks the roots and once inside moves upward, killing the cambium. The leaves on infected trees are small, pale, or yellowed and fall early. There is no practical control. Healthy trees may be more resistant than trees of low vigor. Recently, *Quercus virginiana* has been found to be susceptible to *Diplodia* spp.

References

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Koeser, A.K., Friedman, M.H., Hasing, G., Finley, H., Schelb, J. 2017. Trees: South Florida and the Keys. Gainesville: University of Florida Institute of Food and Agricultural Sciences.

Muhlenbergia capillaris Muhly Grass¹

Edward F. Gilman²

Introduction

Muhly grass has a clumping form, growing 3- to 4-feet-tall and about as wide. A stiff, upright growth habit makes this markedly different from many other grasses. Delicate, purple flowers emerge in the fall well above the foliage and can literally cover the foliage. It is native to pine flatwoods, coastal upland and beach dunes, and sandhill communities. This grass is very similar to *Muhlenbergia filipes*.

General Description

Scientific name: *Muhlenbergia capillaris*

Pronunciation: mew-len-BER-jee-uh kap-pill-LAIR-riss

Common name(s): purple muhly grass, muhly grass

Family: Gramineae

Plant type: herbaceous; ornamental grass

USDA hardiness zones: 7 through 11 (Fig. 1)

Planting month for zone 7: year round

Planting month for zone 8: year round

Planting month for zone 9: year round

Planting month for zone 10 and 11: year round

Origin: native to Florida

Uses: reclamation plant; cut flowers; border; accent; mass planting

Availability: somewhat available, may have to go out of the region to find the plant

Description

Height: 3 to 5 feet

Spread: 2 to 3 feet

Plant habit: upright

Plant density: open
Growth rate: moderate
Texture: fine



Figure 1. Shaded area represents potential planting range.

Foliage

Leaf arrangement: alternate

Leaf type: simple

Leaf margin: entire

Leaf shape: linear

Leaf venation: parallel

Leaf type and persistence: semi-evergreen

Leaf blade length: 18 to 36 inches

Leaf color: green

Fall color: copper

Fall characteristic: showy

Quercus virginiana: Southern Live Oak

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Flower

Flower color: pink

Flower characteristic: fall flowering

Fruit

Fruit shape: oval

Fruit length: less than .5 inch

Fruit cover: dry or hard

Fruit color: brown

Fruit characteristic: inconspicuous and not showy

Trunk and Branches

Trunk/bark/branches: typically multi-trunked or clumping stems

Current year stem/twig color: not applicable

Current year stem/twig thickness: medium

Culture

Light requirement: plant grows in full sun

Soil tolerances: extended flooding; acidic; alkaline; sand; loam; clay

Drought tolerance: high

Soil salt tolerances: moderate

Plant spacing: 24 to 36 inches

Other

Roots: not applicable

Winter interest: plant has winter interest due to unusual form, nice persistent fruits, showy winter trunk, or winter flowers

Outstanding plant: plant has outstanding ornamental features and could be planted more

Invasive potential: not known to be invasive

Use and Management

Muhly grass is a tough native grass useful in many different landscape sites. It has extreme tolerance to drought and flooding, making it suited for wetland sites as well as beachfront landscapes. It would be hard to find a more adaptable grass. Muhly grass makes a nice, fine-textured mass planting for sites ranging from roadside to residential landscape. Plant them in large, sweeping drifts on a large landscape for a dramatic effect. It is virtually maintenance free except in those instances where you might want to remove the brown foliage in the spring by cutting the clump back to the ground before new growth emerges. Growth is best in sandy or rocky soil.

Pest and Diseases

There are no known pests or problems.



Zoysiagrass for Florida Lawns¹

J. Bryan Unruh, Marco Schiavon, Alex J. Lindsey, Kevin E. Kenworthy, and L. E. Trenholm²

Zoysiagrasses (*Zoysia* spp.) were introduced into the United States from Asia and provide attractive turf throughout much of the United States. In recent years, newer cultivars of zoysiagrass have entered the market with improved insect resistance, accelerated establishment, and better overall performance. Zoysiagrasses are adapted to a variety of soil types and have good tolerance to shade, salt, and traffic. When properly managed, they produce a very dense ground cover that resists weed invasion, but certain pests can be problematic. Zoysiagrasses spread through rhizomes and stolons.

Proper lawn maintenance practices are the best means for avoiding pest problems and maintaining a healthy lawn. Zoysiagrass requires proper fertility to maintain good cover and healthy growth characteristics. During certain times of the year, it may need supplemental irrigation, especially during periods of extended drought, to remain green. Pesticides may be needed periodically, but their use can be minimized if other cultural practices (mowing, irrigation, fertilization) are done correctly.

Zoysiagrass maintenance is different from that of other Florida lawn grasses. When improper maintenance practices are followed, undesirable results generally occur. Table 1 provides a quick comparison of zoysiagrass to other lawn grasses.

Species and Cultivars

Several species and varieties of zoysiagrass are used for residential and commercial landscapes, athletic fields, and golf course greens, tees, fairways, and roughs. They vary widely in leaf color, texture, and establishment rate (Patton et al. 2017).

Species

ZOYSIA JAPONICA STEUD.

This species was introduced into the United States in 1894 and is commonly called Japanese lawngrass or Korean lawngrass. Cultivars of this species are generally coarse-textured. Of all the zoysiagrasses, this species has a faster growth rate and exhibits excellent cold tolerance. It is easily mown using a rotary mower. *Zoysia japonica* is the only zoysiagrass for which seed is commercially available; however, the seeded varieties generally do not produce as high-quality turf as do the vegetatively propagated (sodded or plugged) varieties. Seeded cultivars should be limited to use where convenience of establishment by seed is more important than quality.

ZOYSIA MATRELLA (L.) MERR.

Also called Manilagrass, this species was introduced into the United States in 1892 from Japan. It produces a finer and denser turf than *Zoysia japonica* but is generally less winter hardy and slower growing. Manilagrass resembles

1. This document is ENH11, one of a series of the Environmental Horticulture Department, UF/IFAS Extension. Original publication date May 1991. Revised October 2000, September 2006, June 2011, May 2013, June 2016, and May 2022. Visit the EDIS website at <https://edis.ifas.ufl.edu> for the currently supported version of this publication.

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SECTION 4: SITE DESIGN – SOIL + VEGETATION

well adapted to Florida. All three have good shade tolerance and are good choices to replace bermudagrasses on golf courses where shade is a concern. They perform well at mowing heights ranging from 0.5" to 2.0". Disease issues include dollar spot and large patch.

Thrive

"Thrive" is a new fine-textured *Z. matrella* with limited availability in Florida. Its appearance resembles Geo, Zeon, and Zorro. Other than anecdotal evidence of good drought tolerance, very little information is available about its origins and suitability for use in Florida.

HYBRID CULTIVARS

CitraZoy™

"CitraZoy™" zoysiagrass was developed and released by the University of Florida in 2019. It is a hybrid between a well-adapted *Z. matrella* and *Z. japonica* with a medium-fine leaf texture between Meyer and the *Z. matrella* cultivars. It has slightly better shade tolerance than the *Z. japonica* cultivars and is less shade tolerant than the *Z. matrella* cultivars. It has good establishment, good sod strength, good wear tolerance, and the best winter color retention of any zoysiagrass on the market. Large patch has never been observed to occur on CitraZoy; however, it will get leaf spot. It is expanding in production with a few Florida producers at the time of publication.

Emerald

"Emerald" zoysiagrass is a selected hybrid between *Zoysia japonica* and *Zoysia pacifica* developed in Tifton, Georgia, and released in 1955. This hybrid combines the winter hardiness, color, and faster growth rate of one of its *Z. japonica* parent with the fine texture and density of its *Z. pacifica* parent. Emerald resembles Manilagrass (particularly Geo, Zeon, Zorro, and Thrive) in color, texture, density, and disease issues, but has better winter hardiness and wider adaptation.

Icon™

"Icon™" zoysiagrass was developed in Australia and is a hybrid between *Z. macrantha* and *Z. japonica*. It is coarse textured and similar in appearance and uses to Empire, El Toro, Palisades, and JaMur. It has excellent sod strength, very high salt tolerance, and produces very little thatch in comparison to other zoysiagrasses. It has good availability in Florida, and large patch has not been observed in Icon.

Innovation™

"Innovation™" zoysiagrass was jointly developed and released in 2017 by Texas A&M University and Kansas

State University. It is a hybrid between a *Z. matrella* and a cold-tolerant *Z. japonica*. Innovation is proven to have excellent winter hardiness with a finer leaf texture compared to Meyer. Its leaf texture is between Meyer and the *Z. matrella* cultivars. Currently, very little is known about its performance in Florida or disease responses, and it has limited availability.

Establishment of Zoysiagrass

With one exception, zoysiagrasses must be planted vegetatively by sod, plugs, or sprigs. *Zoysia japonica* is the only species for which seed is commercially available. Proper site preparation before planting is critical to ensure successful establishment. Refer to ENH02, *Preparing to Plant a Florida Lawn* (<https://edis.ifas.ufl.edu/lh012>), for complete information.

Seeding

Establishing zoysiagrass from seed is increasing in popularity. The seed, however, requires light for germination and cannot be covered with soil, as is normally recommended. Consequently, areas to be established by seed need to be covered with some type of erosion cloth to reduce any surface disruption caused by rain or irrigation. The best time to seed is during the period from April to July, because this permits a full growing season before winter weather. In north Florida, fall seeding is undesirable because the young seedlings may not become sufficiently established to withstand cold injury during the winter. It may take up to 2–3 weeks to germinate and an additional 6–8 weeks to establish. During this time, irrigation management is extremely important. After seeding, frequent, light irrigations are necessary to keep the soil moist and encourage germination. Maintain this moisture regime until the planted area is completely covered.

Plugging

Because of the slow establishment rate of zoysiagrass (compared to St. Augustinegrass), plugs are usually planted on 8- to 12-inch centers. This means that plugs are planted every 8–12 inches in a row and rows are spaced 8–12 inches apart. Depending on the level of maintenance given, at least one full season (and longer for some varieties) is required for complete coverage and a uniform height. Plugs should be tamped firmly into the soil and watered in. During grow-in, the soil should be kept moist until the grass is well rooted. Weeds will dominate the bare areas between the plugs, and they should be scouted on a regular basis and weeds removed before they have a chance to gain hold.

Sprigging

Planting zoysiagrasses by sprigs is a laborious but effective method of establishment. Fresh sprigs with at least 2 or 4 nodes should be planted in rows that are 6 inches apart. Plant the sprigs end-to-end or no more than 6 inches apart in the row and cover them with soil about 1–2 inches deep, leaving part of each sprig exposed to light. A roller can be used to press sprigs into the soil. Soil must be kept moist until plants initiate new growth and the area is completely covered.

Sodding

Sodding produces an instant turf as the entire area to be planted with grass material is covered. Sodding can also reduce potential weed competition that can occur when using other planting methods that leave bare ground. However, it is important to remember that the grass is still vulnerable at this stage, and it is not yet safe for play, traffic, or other activities. It is quite dependent until the roots have developed and extended down into the soil. Sod should only be laid over bare, moist soil, with pieces laid in a staggered brick-like pattern and the edges fitted tightly together to avoid any open cracks (Figure 1). Rolling and watering thoroughly ensures good contact with the soil for fast rooting. Sodded areas should be watered at least twice per day with ¼ inch of water until the sod is held fast to the soil by new roots (usually 2–3 weeks), after which watering should be reduced to an as-needed basis.



Figure 1. Sodding produces an instant lawn.

Maintenance of Zoysiagrass Nutrient Management

Proper turfgrass nutrition is very important for sustaining a healthy lawn. Nutrients needed by plants come from many sources, including soil organic matter, trace amounts in rainfall, and fertilizers. Fertilization and other cultural practices influence the overall health and quality of the lawn

and reduce its vulnerability to numerous stresses, including weeds, insects, and disease. It is very important that anyone fertilizing their lawn be familiar with and follow the Florida-Friendly Landscaping™ Best Management Practices (BMPs). These practices are designed to maintain healthy lawns and reduce potential nonpoint source pollution of water resources that might result from lawn and landscape fertilization and other cultural practices. There are state and local regulations that cover lawn fertilization, so be aware of city and county guidelines and always follow the directions on the fertilizer bag. For more information on BMPs, please refer to ENH979, *Homeowner Best Management Practices for the Home Lawn* (<https://edis.ifas.ufl.edu/ep236>).

A soil test is used to determine soil pH and what nutrients are available in the soil. The local Extension office has instructions and supplies for taking soil samples and submitting them to the UF/IFAS Extension Soil Testing Laboratory for analysis. Refer to SL281, *Soil Sampling and Testing for the Home Landscape or Vegetable Garden* (<https://edis.ifas.ufl.edu/ss494>), for more information. In particular, phosphorus levels are best determined by soil testing. Because many Florida soils are high in phosphorus, it is often not necessary to add phosphorus fertilizer to a lawn once it is established.

Florida Rule (5E-1.003) mandates that the fertilizer application rates cannot exceed 1 lb of nitrogen per 1000 square feet for any application. Based on the percentage of nitrogen that is in a slowly available or slow-release form in a fertilizer, UF/IFAS recommendations call for applying ½ pound (water-soluble nitrogen source) to 1 lb (slow-release nitrogen source) of nitrogen per 1000 square feet of turfgrass.

As a general rule, the first fertilizer application of the year should be early April in central Florida and mid-April in north Florida. In south Florida, fertilizer applications may be made throughout the year because growth is year-round. UF/IFAS guidelines for lawn grass fertilization offer a range of fertilizer rates over which a particular species may be successfully maintained in the various regions of the state. These ranges account for individual homeowner preferences for low-, medium-, or higher-input grass. Additionally, localized microclimatic effects can have a tremendous impact on turfgrass growth. A range of rates allows for these environmental variations. An example of this would be a typical home lawn that is partially shaded and partially sunny. The grass growing in the shade needs less fertilizer than that growing in full sun. Fertilization is also affected by soil type, organic matter in soils, and practices such as clipping management. Recycled clippings return

some nutrients back to the soil and are accounted for in UF/IFAS nutrient recommendations. Additionally, a newly sodded lawn on a sand soil with no organic matter may need more fertilizer than a lawn that has been fertilized for years. In Florida, new homes and new developments may be next to much older, developed landscapes, and a one-size-fits-all approach to fertilization is not reasonable. Thus, the guidelines provide a base range from which the end user can begin a fertilization program. The homeowner is encouraged to initiate a program based on these guidelines and to adjust it over time based on how the turfgrass responds.

Zoysiagrass responds better to a "spoon-feeding" fertilizer regimen (smaller quantities applied more frequently) rather than supplying larger quantities infrequently. It is best to take the annual fertilization guidelines (Table 2) and divide the annual quantity into three applications (north Florida) to six applications (south Florida) per year in most situations. Avoid applying nitrogen fertilizer simply to promote green color. Instead, monitor growth and apply only when the growth rate has declined. Potassium nutrition also is important and should be applied at rates equal to nitrogen. During excessively rainy periods, potassium may need to be applied more frequently due to its leaching ability.

Because zoysiagrass is slow to green-up in the spring, avoid applying fertilizer until after the turf has become fully green to avoid premature green-up, which is prone to frost injury. This is especially important in north Florida, where late spring frosts may damage the grass. Delaying spring fertilization until the turf is actively growing and can use the fertilizer also reduces the potential for nitrogen leaching from fertilizer. Likewise, do not fertilize too late in the year, because this can slow regrowth the following spring. Applying nitrogen on zoysiagrass in early spring and late fall significantly increases the risk of large patch disease.

On high-pH (>7.0) soils or where high-pH water is applied, yellow leaf blades may be an indication of iron (Fe) or manganese (Mn) deficiency. Foliar applications of soluble or chelated sources of these micronutrients can provide a green-up due to elevated pH.

For iron deficiency, spray ferrous sulfate (2 ounces in 3–5 gallons of water per 1000 square feet) or a chelated iron source (refer to the label for rates) to temporarily enhance color. Iron applications every 6 weeks help maintain green color and, unlike nitrogen, do not promote excessive top growth. Granular iron sources should be limited to chelated sources (i.e., EDTA, DTPA, or EDDHA), whereas foliar applications can include soluble Fe sulfate or chelates. For

information on using iron on Florida turfgrasses, please refer to ENH1287, *Iron for Florida Turfgrasses* (<https://edis.ifas.ufl.edu/publication/EP551>).

Note that iron is not a substitute for nitrogen, which provides the building blocks for turfgrass growth and is required for turf health. While both iron and nitrogen deficiencies result in yellowing of turfgrass, they are distinctly different deficiencies in plants. Applying iron does not cure yellowing due to nitrogen deficiency, and iron fertilizer is not a substitute for nitrogen fertilizer. Foliar iron fertilizers, such as iron sulfate or chelated iron solutions, help correct iron deficiencies, and nitrogen fertilizers applied according to BMPs correct nitrogen deficiencies.

Mowing

With proper fertility, zoysiagrasses require regular mowing during the summer to look their best. Medium- to coarse-textured zoysiagrasses should be mowed weekly, or when they reach a height of 3–4 inches. They should be mowed at a height of 1.75–2.5 inches with a rotary mower. Fine-textured zoysiagrasses maintained at heights below 1 inch require more frequent mowing. Because zoysiagrass leaves contain more lignin and silica than other turfgrasses, they can be quite difficult to mow. Clippings should be left on the ground after mowing unless they become excessive and clump on the turf surface. A sharp, well-adjusted rotary or reel mower should be used.

Watering

Zoysiagrass responds to drought by turning brown and going dormant in a short period of time (within a week under typical drought conditions). In the absence of rain or irrigation, zoysiagrass stays dormant for extended periods of time. Once irrigation or rainfall resumes, zoysiagrass will regain its green color.

Irrigating on an "as-needed" basis is the best way to water any established, mature grass if the proper amount of water is applied when needed. Allowing the zoysiagrass to go off-color is an acceptable water-conserving measure. However, when green grass is desired, irrigation is needed when leaf blades begin to fold up, wilt, or turn a blue-gray color, or when footprints remain visible after walking on the grass. Apply ½–¾ inch of water per application. This applies water to roughly the top 8 inches of soil, where most of the roots are. Be sure to follow any local watering restrictions. Refer to the EDIS publication LH025, *Watering Your Florida Lawn* (<https://edis.ifas.ufl.edu/lh025>), for additional information on proper watering techniques.

To determine application rates of a sprinkler system, place several straight-sided cans (e.g., tuna fish or cat food) throughout each irrigation zone. Run each zone to determine how long it takes to fill the cans to the ¼- or 1-inch level, then record the time. Each zone will likely take different amounts of time to give the same quantity of water. The recorded run times for each zone should then be programmed into the irrigation clock for automated systems. If the variation in the catch cans is great, a more thorough audit of the irrigation system is needed. Irrigation frequency should change seasonally, with less water needed in the fall and winter. Do not adjust the amount applied per irrigation event, just the frequency.

Thatch Management

Zoysiagrasses typically develop a thick thatch layer in the years after establishment—especially when overfertilized with nitrogen. Thatch is an intermingled layer of living and dead turfgrass shoots, stems, and roots between the green vegetation and the soil. This thatch must be controlled or removed mechanically to maintain a uniform grass appearance. This is most often done using a vertical mower or power rake every year or two (Figure 2). Some have noted that scalping, during or shortly after spring green-up, helps reduce thatch buildup, but this can be injurious to the lawn. One of the most important methods of reducing thatch buildup is to keep nitrogen fertility at the recommended levels. Proper mowing heights also help prevent thatch buildup.



Figure 2. Aggressive vertical mowing to remove thatch. Credits: Alex J. Lindsey, UF/IFAS

Pest Management

Like other lawn grasses grown in Florida, zoysiagrass lawns encounter pest problems. Periodic control of one or more of these problems may be necessary to grow a healthy turf. The local county Extension office can help identify pest problems and provide current control recommendations (<http://styl.ifas.ufl.edu/find-your-local-office/>).

WEEDS

One of the best attributes of zoysiagrass is its ability to resist weed invasion due to its thick, dense growth habit. Insect and disease problems can damage zoysiagrass, creating voids in this dense mat where weeds can invade. Fortunately, unlike St. Augustinegrass and centipedegrass, zoysiagrass is very tolerant to many effective pre- and postemergence herbicides, giving a wide range of options to the turf manager (Table 1). Refer to ENH884, *Weed Management in Home Lawns* (<https://edis.ifas.ufl.edu/ep141>), for more information.

INSECTS

Hunting billbug can be a serious insect on zoysiagrass. Billbugs feed on roots, causing the turf to die in irregular-shaped patches. The damage most often occurs in the fall and spring when populations are high and when damage and the turf will not hold together if cut. Most damage occurs on infertile or dry soil. If 10–12 billbugs are seen per square foot, control may be necessary.

Mole crickets and white grubs can also negatively impact zoysiagrass. Mole crickets feed on grass roots and leaf blades, and their tunneling activity dislodges plants from the soil, causing the plants to dry out. White grubs, like billbugs, feed on roots, causing the turf to turn yellow, wilt, and eventually die. Both of these insect pests often attract raccoons, skunks, armadillos, and birds, which may actually cause more damage than the insect itself.

Sod webworms can cause periodic injury to zoysiagrass. Injury from these insects can range from a mining of the green tissue (Figure 3) from the leaf tips to leaves completely chewed off.

For more information, refer to *Insect Management in Your Florida Lawn* (<https://journals.flvc.org/edis/article/view/116061>).

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Figure 3. Sod webworm damage on zoysiagrass.
Credits: J. Bryan Unruh, UF/IFAS

NEMATODES

Many turf managers state that nematodes are serious pests on zoysiagrasses; however, this is not well documented in scientific literature. UF/IFAS researchers and turfgrass breeders are working to identify the extent of zoysiagrass susceptibility, and they are identifying superior cultivars that can withstand nematodes. The UF/IFAS Extension Service Florida Nematode Assay Laboratory in Gainesville (<https://entnemdept.ufl.edu/nematology-assay-lab/>) can diagnose whether nematodes are a problem by looking at a soil sample taken from the margin of the affected area. Proper cultural factors to encourage zoysiagrass root growth lessen nematode stress. These include applying less nitrogen, providing less frequent (but deep) watering, and ensuring adequate soil potassium and phosphorus.

DISEASES

The most troubling disease for zoysiagrass is large patch (Figure 4). This disease becomes active when soil temperatures (4-inch depth) are between 65°F and 75°F each fall and can be a problem through the following spring. Although zoysiagrass is probably not more susceptible to this disease than St. Augustinegrass, recovery can be slow due to zoysiagrass' prolonged dormant to semidormant condition. Zoysiagrass is the first turf species to go off-color in the fall and the last to green-up in the spring. Therefore, if a large patch disease outbreak occurs, damage will be visible well into the next summer. With this in mind, if damage cannot be tolerated, it is important to treat preventively to ward off any likelihood of this disease. Refer to PP-233, *Homeowner's Guide to Fungicides for Lawn and Landscape Disease Management* (<https://edis.ifas.ufl.edu/pp154>), for more information on fungicides. Additionally, avoid excessive applications of soluble nitrogen, keep thatch levels to a minimum, and avoid irrigating at a time that will not allow the turf to dry prior to nightfall. Refer to <https://edis>.

[ifas.ufl.edu/topic_turf_diseases](https://edis.ifas.ufl.edu/topic_turf_diseases) for additional information on turfgrass diseases.



Figure 4. Large patch disease caused by *Rhizoctonia solani*.
Credits: J. Bryan Unruh, UF/IFAS

Other diseases that impact zoysiagrass include dollar spot and rust. Dollar spot typically occurs when nitrogen is below optimal levels. This can easily be corrected with a light application of nitrogen. Rusts occur during mild, humid weather and appear as small yellow to orange to reddish-brown pustules on the leaves. Fungicides are effective, but most often, frequent mowing with clipping removal will keep this under control.

Other Problems

Other factors can also decrease the quality of a lawn. Excessive shade, compacted soils, over- or underwatering, improper mowing, traffic, and high or low pH can all cause a lawn to perform poorly. It is important to recognize what the source of the problem is and to correct it if possible. For more information on these types of stresses, refer to ENH153, *Environmental Stresses and Your Florida Lawn* (<https://edis.ifas.ufl.edu/ep070>).

Literature Cited

Patton, A. J., B. M. Schwartz, and K. E. Kenworthy. 2017. "Zoysiagrass (*Zoysia* spp.) History, Utilization, and Improvement in the United States: A Review." *Crop Science* 57 (S1): S-37–S-72. <https://doi.org/10.2135/cropsci2017.02.0074>

Table 1. A generalized comparison of zoysiagrass to common lawn grasses grown in Florida.

	Centipedegrass	St. Augustinegrass	Zoysiagrass
Mowing Height	1.5"–2.5"	Cultivar dependent (2"–4")	Cultivar dependent (0.25"–2.5")
Mower Type	Rotary	Rotary	Reel-type or rotary
Annual Fertility Requirement	1–2 lb N/1000 ft ²	2–6 lb N/1000 ft ²	2.0–4.5 lb N/1000 ft ²
Grassy-Weed Herbicides	Preemergence—many Postemergence—few	Preemergence—many Postemergence—none	Preemergence—many Postemergence—many
Broadleaf Weed Herbicide Tolerance	Many are damaging.	Many are damaging.	Most are safe.
Insects	Spittlebugs Ground Pearls	Chinch Bugs Sod Webworm White Grubs	Hunting Billbugs Sod Webworm Mole Crickets White Grubs
Diseases	Centipedegrass Decline	Take-all Root Rot Large Patch Gray Leaf Spot	Large Patch Dollar Spot Rust
Comparative Water Use	Persists on less water but can wilt quickly in the absence of water.	Moderate—wilts, but some leaves remain green for longer periods of time.	Moderate, but can wilt quickly in the absence of water. Within 1–2 weeks, the leaves will be brown and the turf will go dormant.

Table 2. Annual fertilization recommendations for zoysiagrass in three regions of Florida.

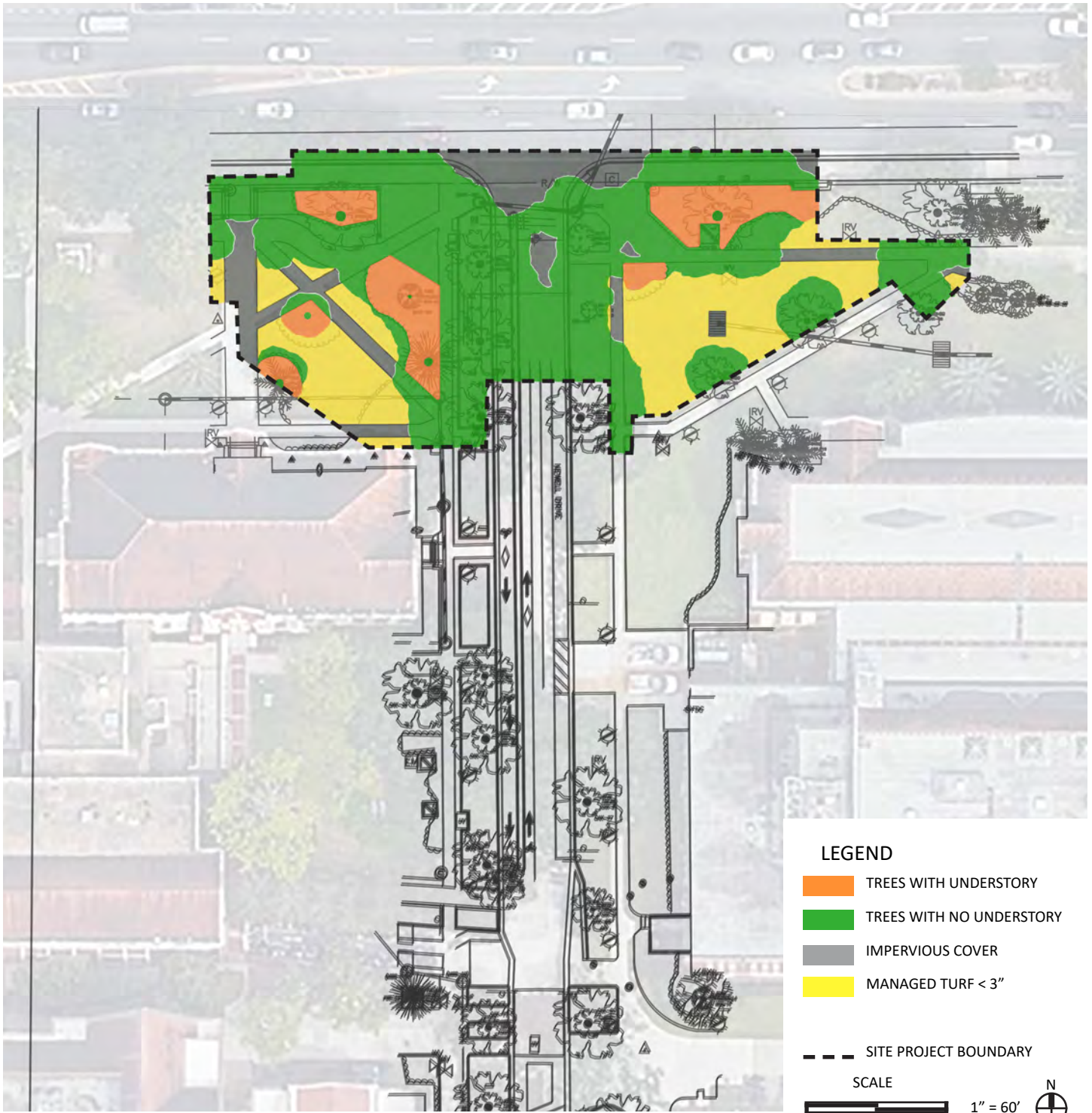
Location ¹	Nitrogen Fertility Guideline ² (lb N/1000 sq ft/year)
North Florida	2–3
Central Florida	2–4
South Florida	2.5–4.5

¹ North Florida in this example is considered to be anything north of Ocala. Central Florida is defined as anything south of Ocala to a line extending from Vero Beach to Tampa. South Florida includes the remaining southern portion of the state.
² Preferences for lawn quality and maintenance level vary; therefore, a range of fertility rates is recommended. Additionally, effects within a localized region (i.e., microenvironmental influences such as shade, drought, soil conditions, and irrigation) necessitate a range of fertility rates.

CREDIT 4.8 | OPTIMIZE BIOMASS

Existing Site plan

Goal: 1 points



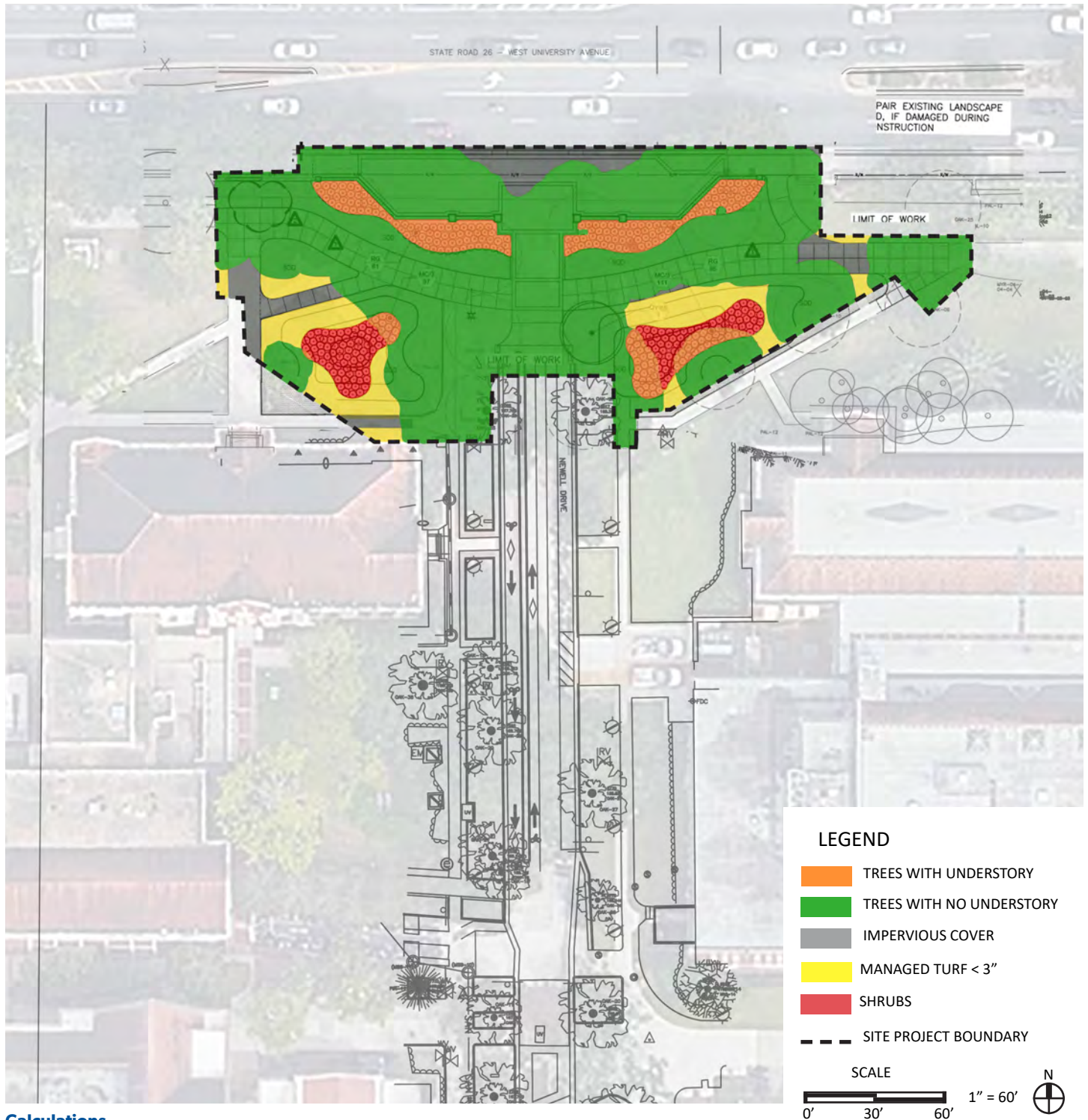
Calculations

Trees with understory = $2,740/25,038 = 0.1094 \times 6 = 0.6564$
 Trees with no understory = $13,823/25,038 = 0.5521 \times 4 = 2.2084$
 Impervious Cover = $2,921/25,038 = 0.1167 \times 0 = 0$
 Managed Turf <3" = $5,554/25,038 = 0.2195 \times 2 = 0.4386$

EXISTING BDI = 3.30

There were no shrubs or managed turf >3".

Proposed Site Plan



Calculations

Trees with understory = $2,044/25,038 = 0.0816 \times 6 = 0.4896$

Trees with no understory = $18,139/25,308 = 0.7245 \times 4 = 2.8980$

Impervious Cover = $1,625/25,038 = 0.6490 \times 0 = 0$

Managed Turf < 3" = $2,180/25,038 = 0.0871 \times 2 = 0.1741$

Shrubs = $1,050/25,038 = 0.0419 \times 3 = 0.1258$

PROPOSED BDI = 3.69

There is no managed turf > 3".

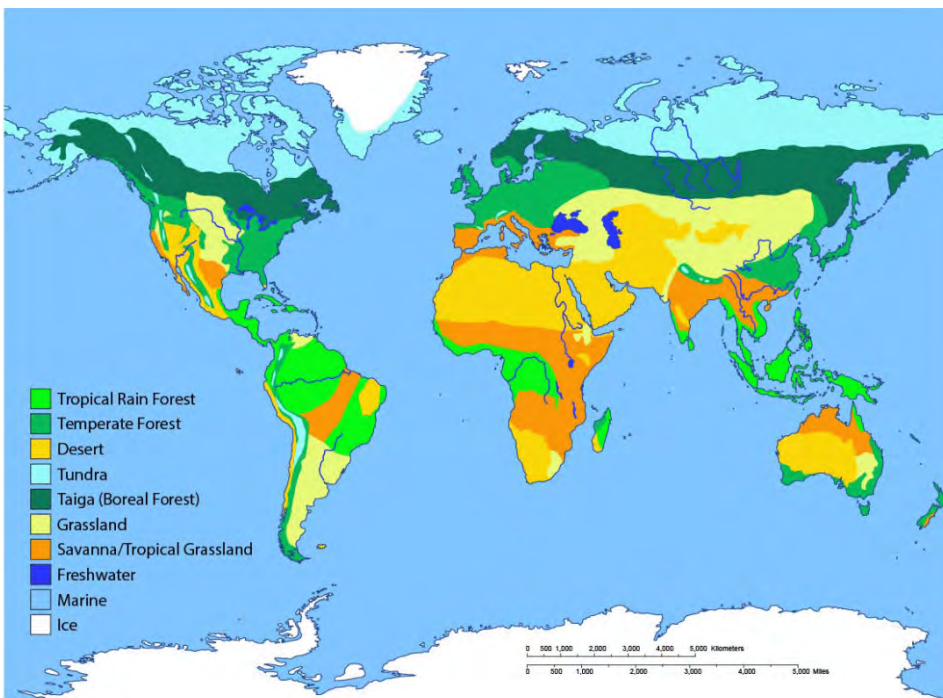
Terrestrial Biome

The terrestrial biome for this site according to the World Wildlife Fund Wildfinder is Temperate Coniferous Forest.

All Access Objects

BIOME_COD	BIOME	CREATED_B	DATE_CREAT	MODIFIED_B	DATE_MODI	SHORT_BIOME
1	Tropical and Subtropical Moist Broadleaf Forests					Tropical Moist Forests
2	Tropical and Subtropical Dry Broadleaf Forests					Tropical Dry Forests
3	Tropical and Subtropical Coniferous Forests					Tropical Conifer Forests
4	Temperate Broadleaf and Mixed Forests					
5	Temperate Coniferous Forests					Temperate Conifer Forests

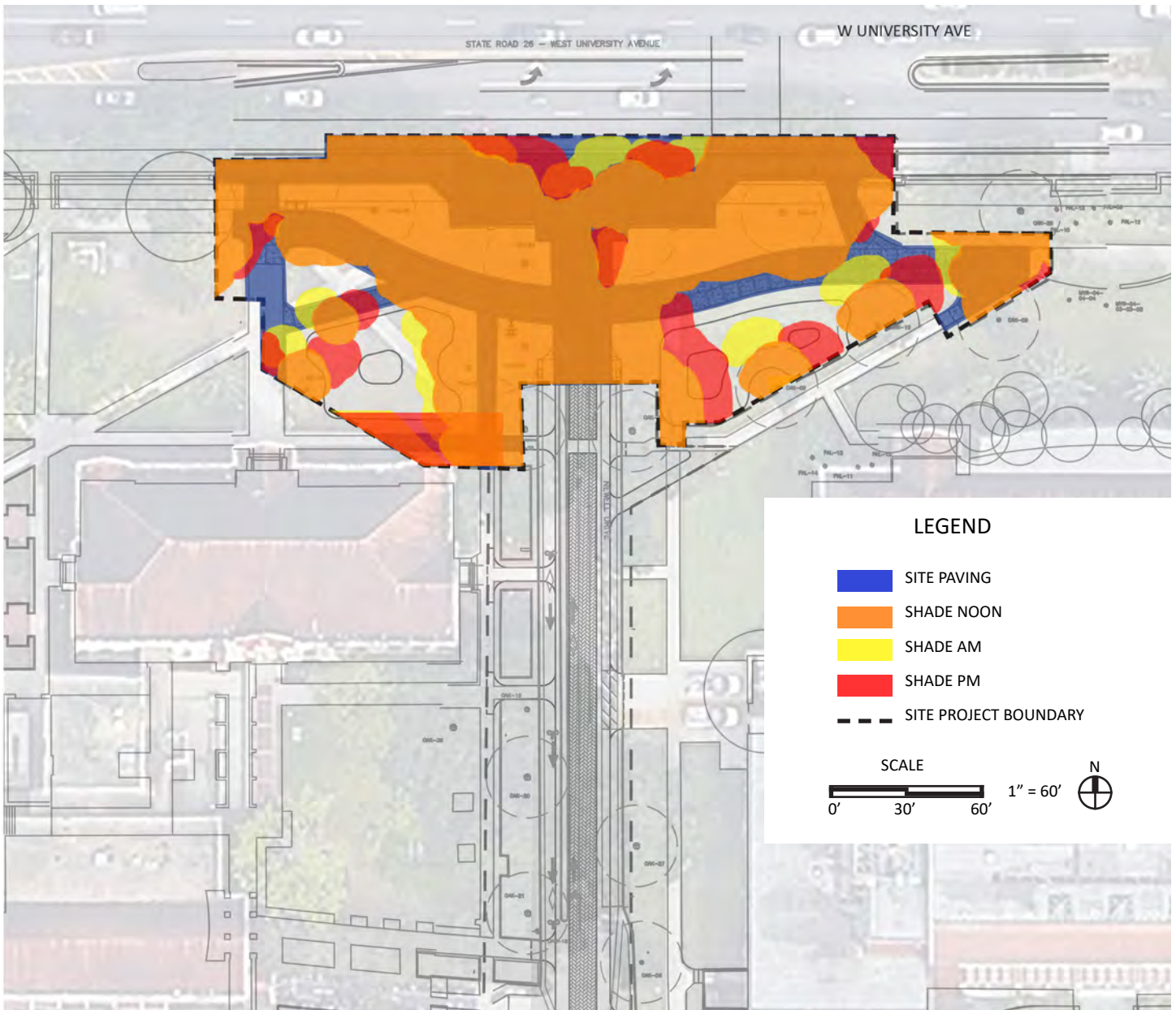
ECOREGION	ECOREGION_NAME	ECOREGION	GLOBAL200	CONSERV_S	ANALYSIS	REALM_COD	CREATED_B	DATE_CREAT	MODIFIED_B	DATE_MODI
# IM0501	Eastern Himalayan subalpine conifer forests	27500	67	2 Y	im					
# IM0502	Western Himalayan subalpine conifer forests	39700	68	2 Y	im					
# NA0501	Alberta Mountain forests	39800	99	3 Y	na					
# NA0502	Alberta-British Columbia foothills forests	120500	99	1 Y	na					
# NA0503	Arizona Mountains forests	109100	99	3 Y	na					
# NA0504	Atlantic coastal pine barrens	9000	99	3 Y	na					
# NA0505	Blue Mountains forests	64700	99	1 Y	na					
# NA0506	British Columbia mainland coastal forests	137200	72	1 Y	na					
# NA0507	Cascade Mountains leeward forests	46300	99	3 Y	na					
# NA0508	Central and Southern Cascades forests	44900	99	2 Y	na					
# NA0509	Central British Columbia Mountain forests	71700	99	2 Y	na					
# NA0510	Central Pacific coastal forests	71700	72	1 Y	na					
# NA0511	Colorado Rockies forests	112700	99	1 Y	na					
# NA0512	Eastern Cascades forests	55200	99	1 Y	na					
# NA0513	Florida sand pine scrub	3900	99	1 Y	na					
# NA0514	Fraser Plateau and Basin complex	137100	99	1 Y	na					
# NA0515	Great Basin montane forests	5800	99	2 Y	na					
# NA0516	Klamath-Siskiyou forests	50300	73	1 Y	na					
# NA0517	Middle Atlantic coastal forests	133600	99	1 Y	na					
# NA0518	North Central Rockies forests	245700	99	2 Y	na					
# NA0519	Northern California coastal forests	13300	72	1 Y	na					
# NA0520	Northern Pacific coastal forests	60400	72	3 Y	na					
# NA0521	Northern transitional alpine forests	25700	99	2 Y	na					
# NA0522	Okanagan dry forests	53300	99	1 Y	na					
# NA0523	Piney Woods forests	140900	99	1 Y	na					
# NA0524	Puget lowland forests	22500	99	1 Y	na					
# NA0525	Queen Charlotte Islands	10000	72	2 Y	na					
# NA0526	Sierra Juarez and San Pedro Martir pine-oak forests	4000	99	2 Y	na					
# NA0527	Sierra Nevada forests	52800	74	1 Y	na					
# NA0528	South Central Rockies forests	159300	99	2 Y	na					



CREDIT 4.9 | REDUCE URBAN HEAT ISLAND EFFECTS

Site plan

Goal: 4 points



Calculations

Site Area = 25,038 SF
 Paved Area = 15,560 SF
 Paved Shade Coverage = 14,446 SF
 92.8% of paved areas are shaded.

area of non-roof measures	+	area of high-reflectance roof	+	area of vegetated roof	≥ total site paving area + total roof area
0.5		0.75		0.5	
$\frac{14,446}{0.5}$	+	None	+	None	≥ 15,560 SF

Use paving materials with an SR of at least 0.33 at installation or a three year aged SR value of at least 0.28.
 SRI of new grey concrete = 0.35
 SRI of 3 year aged brick = 0.29

Manufacturer Documentation



Solar Reflectance, Thermal Emittance, and Calculated SRI for Four Colors of Brick Pavers Manufactured by Pine Hall Brick

The solar reflectance and thermal emittance of four colors of brick pavers manufactured by Pine Hall Brick Company, Inc. have been measured in accordance with ASTM C 1549 and ASTM C 1371, respectively. The solar reflectance was measured at air mass 1.5. The surface properties were determined for both sides of the 4x8 inch pavers. The measured solar reflectances and thermal emittances we used to calculate the SRI (solar reflectance index) for each of the pavers as outlined in ASTM E 1980. A list of the measured properties are contained in Table 1. The calculated SRI values are shown in Table 2 for each of the materials tested and for the average for each of the colors tested. Test reports for the solar reflectances and thermal emittances are attached.

Table 1. Measured Solar Reflectance and Thermal Emittance Values

Color	Side	Solar Reflectance	Thermal Emittance
Buff	1	0.51	0.91
	2	0.51	0.90
	Average	0.51	0.905
Red	1	0.28	0.91
	2	0.29	0.91
	Average	0.285	0.91
Rose	1	0.27	0.93
	2	0.31	0.93
	Average	0.29	0.93
Flashed Red	1	0.11	0.95
	2	0.19	0.91
	Average	0.15	0.93

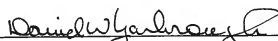
Table 2. Calculated SRI Values

Color	Side	SRI		
		Low Wind	Medium Wind	High Wind
Buff	1	59.9	60.1	60.3
	2	59.4	59.8	60.1
	Average	59.7	60.0	60.2
Red	1	29.7	30.0	30.3
	2	31.0	31.3	31.5
	Average	30.4	30.7	30.9
Rose	1	29.7	29.6	29.5
	2	34.8	34.7	34.6
	Average	32.3	32.2	32.1
Flashed Red	1	11.1	10.5	9.9
	2	18.2	18.5	18.8
	Average	14.7	14.5	14.4

The SRI scale covers the range from 0 to 100.

References:

- ASTM C 1371, "Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers."
- ASTM C 1549, "Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer."
- ASTM E 1980, "Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces."


 David W. Yarbrough, PhD, PE
 October 8, 2007

Euco Densit LLC obtained the SRI of a pavement surface using the Densiphalt material. The Densiphalt section used for the SRI measurement was built at the Massachusetts National Air Guard facility in Brockton, Massachusetts. The test was conducted according to ASTM E 1918 by DeLuca-Hoffman Associates, Inc. (19).

Table 1 shows the test results obtained in this study, including:

- The average solar reflectance determined in the field according to ASTM E 1918 and in the laboratory in compliance with ASTM C 1549.
- The average thermal emissivity measured in the laboratory in accordance with ASTM C 1371. Since the aggregates used for the chip seals and sand seals were from the same quarry, it was reasonable to assume that both should have similar thermal emittance values.
- The average SRI determined according to ASTM E 1980 using the calculator developed by the Heat Island Group of the Lawrence Berkeley National Laboratory (7). The field and laboratory SRI values were calculated based on the thermal emissivity as well as the solar reflectance measured in the field and laboratory, respectively. The SRI values were determined for medium wind that has a convective coefficient of $12 \text{ Wm}^{-2}\text{K}^{-1}$.

As shown in Table 1, the two test methods—ASTM E 1918 and ASTM C 1549—produced different solar reflectance values, resulting in different SRI for the same materials. The difference was as high as 11 percent in this study. The rougher the surface, the larger the difference in SRI results determined according to the two test methods. The difference was thought to be due to the following two reasons:

- The ASTM C 1549 method is very sensitive to the roughness of the measured surface; and
- The samples used for the two test methods are different—a 10 ft by 10 ft surface area in the field for ASTM E 1918 and a small surface area of a 6 in. core in the laboratory.

TABLE 1 Solar Reflectance Index (SRI) of Materials Used in This Study

Materials	Avg. Reflectance		Avg. Emittance	Avg. SRI (percent)		
	Field	Lab		Field	Lab	Difference
Unbound Coarse Aggregate	0.45	N/A*	N/A			
Unbound Fine Aggregate	0.42	N/A	N/A			
Coarse-Graded HMA						
Control Section	0.08	0.06	0.93	5	3	2
Shot Blasting	0.18	0.24	0.96	19	27	-8
Fine-Graded HMA						
Surface Gritting	0.20	0.14	0.97	22	15	7
E-Krete without Sand Spray	0.36	0.36	0.96	42	42	0
Sand Seals	0.40	0.36	0.87	44	39	5
E-Krete with Sand Spray	0.36	0.33	0.94	41	37	4
StreetBond, Irish Cream	0.45	0.46	0.96	54	55	-1
StreetBond, Sun-Baked Clay	0.39	0.42	0.96	46	50	-4
Chip Seals	0.37	0.29	0.87**	40	29	11
Shot Blasting	0.21	0.19	0.91	21	18	3
Control Section	0.08	0.08	0.97	7	7	0
Synthetic Binder	0.30	0.33	0.98	35	39	-4
Densiphalt by EucoDensi (19)				24~32		

8. ESTIMATED CONSTRUCTION COST FOR EACH TECHNOLOGY

Table 2 shows estimated construction cost, including material, labor and equipment costs, for each surface treatment technology. The costs were estimated for a virtual parking lot of 20,000 square feet built in Auburn, Alabama at the time of this writing. For a future construction project, the cost for each technology can be obtained by contacting the respective company listed in Appendix B.

TABLE 2 Estimated Costs of Materials Used in This Study

Technology	SRI in this Study	Estimated Cost (USD per S.F.)
Shot Blasting by Blastrac	18 – 27	0.20 – 0.30
Surface Gritting	15 – 22	N/A
E-Krete Micro-Surfacing by PolyCon	37 – 42	0.35 – 0.65
Chip Seals and Sand Seals	29 – 44	0.30 – 0.40
StreetBond Coating by IPC	46 – 55	1.40 – 1.70
Synthetic Binder by Toda America, Inc	35 – 39	N/A
Densiphalt by EucoDensi	24 – 32	N/A

* N/A = Not available

SECTION 4: SITE DESIGN – SOIL + VEGETATION

TABLE 1:
MIXTURE PROPORTIONS AND AVERAGE SOLAR REFLECTANCE TEST RESULTS

Mixture designation*	Mixture proportions, lb/yd ³					AEA,			Solar reflectance
	Cement	SCM	Aggregate		Water	fl oz/yd ³	w/cm	cm/fa	
			Fine	Coarse					
CDG-AE-CP-...-...	565	0	1245	1896	225	3.7	0.40	0.45	0.43
CDG-AE-CP-...-SD	261	213	1242	1892	228	3.7	0.48	0.38	0.51
CDG-AE-CP-...-SL	261	213	1242	1892	228	3.7	0.48	0.38	0.47
CDG-AE-CP-FDG-...	381	127	1228	1869	244	2.7	0.48	0.41	0.39
CDG-AM-CP-FDG-...	381	127	1246	1869	244	2.7	0.48	0.41	0.40
CR-AB-CP-...-...	565	0	1258	1895	294	3.7	0.52	0.45	0.36
CR-AE-CP-...-...	565	0	1245	1896	225	3.7	0.40	0.45	0.36
CR-AE-CP-FDG-...	381	127	1228	1869	244	3.7	0.48	0.41	0.41
CR-AM-CL-FDG-...	381	127	1246	1876	252	4.1	0.50	0.41	0.43
CR-AM-CP-FDG-...	381	127	1242	1869	244	3.7	0.48	0.41	0.40
CS-AB-CP-...-...	565	0	1258	1895	299	3.7	0.53	0.45	0.51
CS-AB-CP-...-SD	261	213	1256	1892	272	3.7	0.57	0.38	0.54
CS-AB-CP-...-SL	261	213	1256	1892	228	3.7	0.48	0.38	0.57
CS-AB-CP-FDG-...	381	127	1242	1869	276	3.7	0.54	0.41	0.48
CS-AB-CP-FPB-...	381	127	1242	1869	244	2.7	0.48	0.41	0.57
CS-AE-CL-...-...	565	0	1245	1903	247	3.7	0.44	0.45	0.46
CS-AE-CL-...-SD	261	213	1242	1899	295	3.7	0.62	0.38	0.57
CS-AE-CL-FDG-...	381	127	1228	1876	252	3.7	0.50	0.41	0.41
CS-AE-CP-...-...	565	0	1245	1896	225	3.7	0.40	0.45	0.42
CS-AE-CP-...-SD	261	213	1242	1892	228	3.7	0.48	0.38	0.52
CS-AE-CP-...-SL	261	213	1242	1892	228	4.0	0.48	0.38	0.57
CS-AE-CP-...-SM	261	213	1242	1892	228	2.7	0.48	0.38	0.54
CS-AE-CP-FDG-...	381	127	1228	1869	244	4.0	0.48	0.41	0.34
CS-AE-CP-FLG-...	381	127	1228	1869	244	2.7	0.48	0.41	0.42
CS-AE-CP-FMG-...	381	127	1228	1869	244	3.7	0.48	0.41	0.44
CS-AE-CP-FPB-...	381	127	1228	1869	244	2.7	0.48	0.41	0.47
CS-AE-CP-FVLG-...	381	127	1228	1869	244	3.2	0.48	0.41	0.48
CS-AE-CP-FYB-...	381	127	1228	1869	244	2.7	0.48	0.41	0.46
CS-AL-CP-...-...	565	0	1224	1822	271	3.7	0.48	0.46	0.53
CS-AL-CP-...-SD	261	213	1271	1892	289	3.7	0.61	0.37	0.60
CS-AL-CP-...-SL	261	213	1271	1892	282	3.7	0.59	0.37	0.64
CS-AL-CP-FDG-...	381	127	1255	1869	244	3.7	0.48	0.40	0.46
CS-AL-CP-FPB-...	381	127	1255	1869	244	2.7	0.48	0.40	0.54
CS-AM-CL-...-...	565	0	1260	1903	274	3.7	0.48	0.45	0.44
CS-AM-CP-...-...	565	0	1258	1895	226	4.0	0.40	0.45	0.52
CS-AM-CP-FDG-...	381	127	1242	1869	244	4.0	0.48	0.41	0.43

TABLE 1 CONTINUED:
MIXTURE PROPORTIONS AND AVERAGE SOLAR REFLECTANCE TEST RESULTS

Mixture designation*	Mixture proportions, lb/yd ³					AEA,			Solar reflectance
	Cement	SCM	Aggregate		Water	fl oz/yd ³	w/cm	cm/fa	
			Fine	Coarse					
CW-AB-CP-...-...	565	0	1254	1888	301	3.7	0.53	0.45	0.59
CW-AE-CP-...-...	565	0	1240	1888	259	3.7	0.46	0.46	0.59
CW-AL-CL-FDG-...	381	127	1228	1876	257	3.7	0.51	0.41	0.44
CW-AL-CP-...-...	565	0	1219	1815	271	3.7	0.48	0.46	0.69
CW-AL-CP-...-SL	261	213	1271	1892	252	3.7	0.53	0.37	0.63
CXB-AE-CP-...-...	565	0	1244	1895	226	3.7	0.40	0.45	0.34
CXB-AE-CP-FDG-...	381	127	1228	1869	244	2.7	0.48	0.41	0.43
CXR-AE-CP-...-...	565	0	1244	1895	249	3.7	0.44	0.45	0.37
CXR-AE-CP-FDG-...	381	127	1228	1869	244	2.7	0.48	0.41	0.41

*The mixture designation lists the mixture constituents. See Fig. 1 to 3 for labels.
Note: 1 lb/yd³ = 0.59 kg/m³; 1 fl oz/yd³ = 3.87 mL/m³.

SECTION 5: SITE DESIGN | MATERIALS SELECTION

PREREQUISITE	TITLE	POINTS
Materials P5.1	Eliminate the use of wood from threatened tree species	Required
CREDIT	TITLE	POINTS
Materials 5.4	Reuse salvaged materials and plants	4 points
Materials 5.5	Use recycled content materials	4 points
Materials 5.6	Use regional materials	5 points
Materials 5.7	Support responsible extraction of raw materials	1 points
Materials 5.8	Support transparency and safer chemistry	1 points
Materials 5.9	Support sustainability in materials manufacturing	1 points
Materials 5.10	Support sustainability in plant production	1 points

PREREQUISITE 5.1 | ELIMINATE THE USE OF WOOD FROM THREATENED TREE SPECIES

All concrete pours for the project utilized wood forms that were extracted only from non-threatened tree species. No other wood products were used during the construction.

Materials Worksheet

SITES® v2 Materials Worksheet

PRODUCT AND MATERIAL IDENTIFICATION

INSTRUCTIONS:
 1. Complete the following form for all products and materials purchased for the project that are included in the prerequisite and credits (applicable) excluding labor.

Description of Material	Manufacturer or Supplier Name	Material/Product Type	Salvaged or Reused	Cost per Unit	Quantity	Total Materials Cost
Live Oak	Cherry Lake Tree Farm	Plant	N	\$ 185.00	1	\$ 185.00
Muhly	Cherry Lake Tree Farm	Plant	N	\$ 15.00	198	\$ 2,970.00
Azalea	Cherry Lake Tree Farm	Plant	N	\$ 15.00	167	\$ 2,505.00
Sod	Woerner Farms	Sod	N	\$ 0.65	7,341	\$ 4,771.65
Pinestraw	Elixson Wood Products	Mulch - other	N	\$ 6.00	200	\$ 1,200.00
Pinestraw	University of Florida	Mulch - other	Y	\$ 6.00	100	\$ 600.00
Holly Fern	University of Florida	Plant	Y	\$ 10.00	50	\$ 500.00
Liriope	University of Florida	Plant	Y	\$ 100.00	3	\$ 300.00
Drift Rose	University of Florida	Plant	Y	\$ 14.00	25	\$ 350.00
Society Garlic	University of Florida	Plant	Y	\$ 3.00	100	\$ 300.00
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood	Y	\$ 2,442.00	4	\$ 9,768.00
Precast Benches	University of Florida	Concrete	Y	\$ 800.00	2	\$ 1,600.00
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1.54	2,100	\$ 3,234.00
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1.54	1,012	\$ 1,558.48
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1.54	576	\$ 887.04
Reclaimed Brick Paver - 7-1/2" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1.54	672	\$ 1,034.88
Reclaimed Brick Paver - 8-1/16" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1.54	600	\$ 924.00
Concrete Picnic Table	University of Florida	Concrete	Y	\$ 1,000.00	2	\$ 2,000.00
Concrete/Wood Benches	University of Florida	Concrete	Y	\$ 850.00	1	\$ 850.00
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	N	\$ 2.75	1,767	\$ 4,853.24
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	N	\$ 2.65	175	\$ 464.34
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	N	\$ 1.77	7,475	\$ 13,246.80
Mortar	Spec Mix	Concrete	N	\$ 7.25	280	\$ 2,030.00
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	N	\$ 140.00	25	\$ 3,500.00
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	N	\$ 100.00	7	\$ 700.00
Light Poles & Fixtures	University of Florida	Lighting	Y	\$ 3,700.00	3	\$ 11,100.00
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	N	\$ 1.54	18,126	\$ 27,889.11
Sand	Osteen Bros, Goldhead, Keystone Heights, FL	Sand (if used as a base course material)	N	\$ 38.00	63	\$ 2,394.00
Cement Edge	Home Depot	Concrete	N	\$ 8.82	15	\$ 132.30
Crushed Concrete	Watson Construction, Newberry, FL	Concrete	N	\$ 26.50	68	\$ 1,802.00
Metal Edging	Permaloc,	Other materials or base course layers	N	\$ 4.15	240	\$ 997.00
Concrete - 4,000 PSI	SRM Concrete	Concrete	N	\$ 119.05	318	\$ 37,857.00
Asphalt	Anderson Columbia	Other materials or base course layers	N	\$ 270.95	63	\$ 17,070.00
Welded Wire Fabric	HD Whitecap	Concrete	N	\$ 0.07	12,896	\$ 902.72
Rebar	HD Whitecap	Concrete	N	\$ 1,650.00	6	\$ 9,900.00
Limerock	Limerock Industries	Other materials or base course layers	N	\$ 5.00	1,637	\$ 8,185.00
CL200 Purple PVC Lateral Line	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	N	\$ 1.58	1,282	\$ 2,025.56
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 5.38	1	\$ 5.38
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	N	\$ 13.48	24	\$ 323.52
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	Y	\$ 125.85	5	\$ 629.25
Precast Architectural Concrete	Spring Precast	Concrete	N	\$ 49.82	129	\$ 6,427.25
Storm Structures	Oldcastle Infrastructure	Concrete	N	\$ 1,816.38	7	\$ 12,714.66
Storm Piping	JM Eagle & Sanderson Pipe	Pipe, hose, or irrigation equipment	N	\$ 52,344.00	1	\$ 52,344.00
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 3.38	25	\$ 84.50
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 6.88	25	\$ 172.00
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood	N	\$ 2,442.00	1	\$ 2,442.00
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 9.77	56	\$ 547.12
Sch. 40 PVC Sleeve	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	N	\$ 1.58	100	\$ 158.00
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	N	\$ 1,090.00	3	\$ 3,270.00
Switchgear	Sesco	Conduit, wiring, and electrical equipment	N	\$ 916.18	1	\$ 916.18
Fixtures	Sesco	Lighting	N	\$ 3,834.58	1	\$ 3,834.58
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	N	\$ 21,796.18	1	\$ 21,796.18
Wire	Sesco	Conduit, wiring, and electrical equipment	N	\$ 1,756.18	1	\$ 1,756.18
Temp Power	Sesco	Conduit, wiring, and electrical equipment	N	\$ 556.18	1	\$ 556.18
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	N	\$ 6,556.18	1	\$ 6,556.18
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	N	\$ 76.18	1	\$ 76.18
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	N	\$ 3,420.31	1	\$ 3,420.31
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	N	\$ 672.00	1	\$ 672.00
Total value for applicable products and materials (\$)						\$ 299,288.79

SECTION 5: SITE DESIGN – MATERIALS SELECTION

SITES® v2 Materials Worksheet

P5.1: ELIMINATE THE USE OF WOOD FROM THREATENED TREE SPECIES

INSTRUCTIONS:

1. This prerequisite does not apply to non-wood materials. All wood, manufactured wood, wood mulch or other wood products must meet this prerequisite.

MATERIALS IDENTIFICATION (from Materials List tab)			Product type is eligible for prerequisite	Wood Species	CITES Status	IUCN Status	Third-Party Certification?	Meets P5.1?
Description of Material	Manufacturer or Supplier Name	Material/Product Type						
Live Oak	Cherry Lake Tree Farm	Plant	N					N/A
Muhly	Cherry Lake Tree Farm	Plant	N					N/A
Azalea	Cherry Lake Tree Farm	Plant	N					N/A
Sod	Woerner Farms	Sod	N					N/A
Pinestraw	Elixson Wood Products	Mulch - other	N					N/A
Pinestraw	University of Florida	Mulch - other	N					N/A
Holly Fern	University of Florida	Plant	N					N/A
Liriope	University of Florida	Plant	N					N/A
Drift Rose	University of Florida	Plant	N					N/A
Society Garlic	University of Florida	Plant	N					N/A
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	Y	Oak	Other or not listed	Other or not listed	N	Y
Precast Benches	University of Florida	Concrete	N					N/A
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-	University of Florida	Brick or masonry unit	N					N/A
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	N					N/A
Reclaimed Brick Paver - 7-15/16" x 3-7/8"	University of Florida	Brick or masonry unit	N					N/A
Reclaimed Brick Paver - 7-1/2" x 4" x 2-	University of Florida	Brick or masonry unit	N					N/A
Reclaimed Brick Paver - 8-1/16" x 4" x 2-	University of Florida	Brick or masonry unit	N					N/A
Concrete Picnic Table	University of Florida	Concrete	N					N/A
Concrete/Wood Benches	University of Florida	Concrete	N					N/A
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	N					N/A
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	N					N/A
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	N					N/A
Mortar	Spec Mix	Concrete	N					N/A
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	N					N/A
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	N					N/A
Light Poles & Fixtures	University of Florida	Lighting	N					N/A
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	N					N/A
Sand	Osteen Bros, Goldhead,	Sand (if used as a base course material)	N					N/A
Cement Edge	Home Depot	Concrete	N					N/A
Crushed Concrete	Watson Construction,	Concrete	N					N/A
Metal Edging	Permaloc,	Other materials or base course layers	N					N/A
Concrete - 4,000 PSI	SRM Concrete	Concrete	N					N/A
Asphalt	Anderson Columbia	Other materials or base course layers	N					N/A
Welded Wire Fabric	HD Whitecap	Concrete	N					N/A
Rebar	HD Whitecap	Concrete	N					N/A
Limerock	Limerock Industries	Other materials or base course layers	N					N/A
CL200 Purple PVC Lateral Line	Sanderson Pipe	Pipe, hose, or irrigation equipment	N					N/A
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N					N/A
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	N					N/A
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N					N/A
Precast Architectural Concrete	Spring Precast	Concrete	N					N/A
Storm Structures	Oldcastle Infrastructure	Concrete	N					N/A
Storm Piping	JM Eagle & Sanderson	Pipe, hose, or irrigation equipment	N					N/A
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	Y	Pine	Other or not listed	Other or not listed	N	Y
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	Y	Pine	Other or not listed	Other or not listed	N	Y
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	Y	Oak	Other or not listed	Other or not listed	N	Y
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N					N/A
Sch. 40 PVC Sleeve	Sanderson Pipe	Pipe, hose, or irrigation equipment	N					N/A
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	N					N/A
Switchgear	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Fixtures	Sesco	Lighting	N					N/A
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Wire	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Temp Power	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	N					N/A
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	N					N/A
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	N					N/A
All products meet prerequisite?								Yes

CREDIT 5.4 | REUSE REGIONAL MATERIALS AND PLANTS

Narrative

Goal: 4 points

All materials listed represent the total scope of work for the Newell Gateway, part of the UF Landscape Master Plan project. This list was updated to include all material ordered & installed for the project whether they complied with the SITES standards or not as well as confirming wood products from threatened tree species weren't used, as directed by the preliminary review.

The scope of work for the Newell Gateway included demo/salvaging of the existing wall & brick pavers for reuse, demo/salvaging of irrigation equipment, demo/salvaging of landscaping to be incorporated into new site design, demo of existing concrete pathways, relocation of backflow preventer, installation of new storm water system, installation of new irrigation & landscaping, installation of new concrete pathways & foundations, installation of new brick pavers, installation of new gateway walls, installation of new asphalt roadways, & installation of all site furnishings including, but not limited to, tables, benches, bollards, recycling stations, bike racks, & bike shelter. A big portion of each site's total cost value is related to labor since there was a lot of demolition needed & masonry work which is labor intensive, hence why values are lower than average. Cost values were taken with a 60%-40% split for material and labor from subcontractor's pay applications as a baseline, with some exceptions such as spray foam insulation at a 70%-30% split and precast concrete being 100% because it was a material purchase order. The following items listed below were either salvaged or reused from the project site:

- Pine straw – Existing pine straw from existing planters was used to supplement with addition of new pine straw;
- Lily of the Nile - Remained on site & incorporated into new planters;
- Dogwood - Remained on site & incorporated into new planters;
- Holly Fern – Remained on site & incorporated into new planters;
- Liriope - Remained on site & incorporated into new planters;
- Drift Rose - Remained on site & incorporated into new planters;
- Society Garlic - Remained on site & incorporated into new planters;
- 2-Tier Recycling Station – Picked-up from University of Florida maintenance team to be stored until future use;
- Reclaimed Brick Pavers – Salvaged from Newell project site & reinstalled on both Newell & Northeast project sites, remaining pavers were picked up from University of Florida maintenance team to be stored until future use;
- Concrete Picnic Tables – Stored picnic tables from University of Florida attic stock delivered to project site & incorporated in space;
- Concrete/Wood Benches – Salvaged/picked up by University of Florida maintenance team to be stored for future use;
- Light Fixtures – Existing light fixtures on project site were either incorporated into new space or picked up by UF maintenance team to store for future use;
- Existing Electric Rain Bird 150 PEB Valve – Incorporated into new irrigation system installed;
- Existing Backflow Preventer – Relocated to new area on Northeast Gateway & integrated into system;
- 1" x 4" Wood Forms – Used during the pouring of concrete sidewalks & foundations;
- 2" x 6" Wood Forms - Used during the pouring of concrete sidewalks & foundations

Materials Worksheet

SITES® v2 Materials Worksheet

C5.4: REUSE SALVAGED MATERIALS AND PLANTS
C5.5: USE RECYCLED CONTENT MATERIALS
C5.6: USE REGIONAL MATERIALS

INSTRUCTIONS:

1. Enter applicable information for each material under each credit. Percentages are based on cost or replacement value.

MATERIALS IDENTIFICATION (from Materials List tab)			
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Total Cost of Material
Live Oak	Cherry Lake Tree Farm	Plant	\$ 185.00
Muhly	Cherry Lake Tree Farm	Plant	\$ 2,970.00
Azalea	Cherry Lake Tree Farm	Plant	\$ 2,505.00
Sod	Woerner Farms	Sod	\$ 4,771.65
Pinestraw	Elixson Wood Products	Mulch - other	\$ 1,200.00
Pinestraw	University of Florida	Mulch - other	\$ 600.00
Holly Fern	University of Florida	Plant	\$ 500.00
Liriope	University of Florida	Plant	\$ 300.00
Drift Rose	University of Florida	Plant	\$ 350.00
Society Garlic	University of Florida	Plant	\$ 300.00
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	\$ 9,768.00
Precast Benches	University of Florida	Concrete	\$ 1,600.00
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 3,234.00
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,558.48
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 887.04
Reclaimed Brick Paver - 7-1/2" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,034.88
Reclaimed Brick Paver - 8-1/16" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 924.00
Concrete Picnic Table	University of Florida	Concrete	\$ 2,000.00
Concrete/Wood Benches	University of Florida	Concrete	\$ 850.00
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	\$ 4,853.24
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	\$ 464.34
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	\$ 13,246.80
Mortar	Spec Mix	Concrete	\$ 2,030.00
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	\$ 3,500.00
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or lattice	\$ 700.00
Light Poles & Fixtures	University of Florida	Lighting	\$ 11,100.00
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	\$ 27,889.11
Sand	Osteen Bros, Goldhead, Keystone Heights, FL	Sand (if used as a base course material)	\$ 2,394.00
Cement Edge	Home Depot	Concrete	\$ 132.30
Crushed Concrete	Watson Construction, Newberry, FL	Concrete	\$ 1,802.00
Metal Edging	Permaloc,	Other materials or base course layers	\$ 997.00
Concrete - 4,000 PSI	SRM Concrete	Concrete	\$ 37,857.00
Asphalt	Anderson Columbia	Other materials or base course layers	\$ 17,070.00
Welded Wire Fabric	HD Whitecap	Concrete	\$ 902.72
Rebar	HD Whitecap	Concrete	\$ 9,900.00
Limerock	Limerock Industries	Other materials or base course layers	\$ 8,185.00
CL200 Purple PVC Lateral Line	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 2,025.56
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 5.38
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	\$ 323.52
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 629.25
Precast Architectural Concrete	Spring Precast	Concrete	\$ 6,427.25
Storm Structures	Oldcastle Infrastructure	Concrete	\$ 12,714.66
Storm Piping	JM Eagle & Sanderson Pipe	Pipe, hose, or irrigation equipment	\$ 52,344.00
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 84.50
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 172.00
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	\$ 2,442.00
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 547.12
Sch. 40 PVC Sleeve	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 158.00
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or lattice	\$ 3,270.00
Switchgear	Sesco	Conduit, wiring, and electrical equipment	\$ 916.18
Fixtures	Sesco	Lighting	\$ 3,834.58
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	\$ 21,796.18
Wire	Sesco	Conduit, wiring, and electrical equipment	\$ 1,756.18
Temp Power	Sesco	Conduit, wiring, and electrical equipment	\$ 556.18
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	\$ 6,556.18
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	\$ 76.18
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 3,420.31
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 672.00
Total materials cost (from Introduction tab)			\$ 299,288.79

CREDIT 5.5 | USE RECYCLED CONTENT MATERIALS

Narrative

Goal: 4 points

All materials listed represent the total scope of work for the Newell Gateway, part of the UF Landscape Master Plan project. This list includes all material ordered & installed for the project whether they complied with the SITES standards or not as well as confirming wood products from threatened tree species weren't used. A big portion of each site's total cost value is related to labor since there was a lot of demolition needed & masonry work which is labor intensive, hence why values are lower than average.

Materials Worksheet

SITES® v2 Materials Worksheet

C5.4: REUSE SALVAGED MATERIALS AND PLANTS
C5.5: USE RECYCLED CONTENT MATERIALS
C5.6: USE REGIONAL MATERIALS

INSTRUCTIONS:

1. Enter applicable information for each material under each credit. Percentages are based on cost or replacement value.

MATERIALS IDENTIFICATION (from Materials List tab)			
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Total Cost of Material
Live Oak	Cherry Lake Tree Farm	Plant	\$ 185.00
Muhly	Cherry Lake Tree Farm	Plant	\$ 2,970.00
Azalea	Cherry Lake Tree Farm	Plant	\$ 2,505.00
Sod	Woerner Farms	Sod	\$ 4,771.65
Pinestraw	Elixson Wood Products	Mulch - other	\$ 1,200.00
Pinestraw	University of Florida	Mulch - other	\$ 600.00
Holly Fern	University of Florida	Plant	\$ 500.00
Liriope	University of Florida	Plant	\$ 300.00
Drift Rose	University of Florida	Plant	\$ 350.00
Society Garlic	University of Florida	Plant	\$ 300.00
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	\$ 9,768.00
Precast Benches	University of Florida	Concrete	\$ 1,600.00
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 3,234.00
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,558.48
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 887.04
Reclaimed Brick Paver - 7-1/2" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,034.88
Reclaimed Brick Paver - 8-1/16" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 924.00
Concrete Picnic Table	University of Florida	Concrete	\$ 2,000.00
Concrete/Wood Benches	University of Florida	Concrete	\$ 850.00
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	\$ 4,853.24
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	\$ 464.34
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	\$ 13,246.80
Mortar	Spec Mix	Concrete	\$ 2,030.00
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	\$ 3,500.00
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or lattice	\$ 700.00
Light Poles & Fixtures	University of Florida	Lighting	\$ 11,100.00
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	\$ 27,889.11
Sand	Osteen Bros, Goldhead, Keystone Heights, FL	Sand (if used as a base course material)	\$ 2,394.00
Cement Edge	Home Depot	Concrete	\$ 132.30
Crushed Concrete	Watson Construction, Newberry, FL	Concrete	\$ 1,802.00
Metal Edging	Permaloc,	Other materials or base course layers	\$ 997.00
Concrete - 4,000 PSI	SRM Concrete	Concrete	\$ 37,857.00
Asphalt	Anderson Columbia	Other materials or base course layers	\$ 17,070.00
Welded Wire Fabric	HD Whitecap	Concrete	\$ 902.72
Rebar	HD Whitecap	Concrete	\$ 9,900.00
Limerock	Limerock Industries	Other materials or base course layers	\$ 8,185.00
CL200 Purple PVC Lateral Line	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 2,025.56
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 5.38
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	\$ 323.52
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 629.25
Precast Architectural Concrete	Spring Precast	Concrete	\$ 6,427.25
Storm Structures	Oldcastle Infrastructure	Concrete	\$ 12,714.66
Storm Piping	JM Eagle & Sanderson Pipe	Pipe, hose, or irrigation equipment	\$ 52,344.00
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 84.50
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 172.00
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	\$ 2,442.00
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 547.12
Sch. 40 PVC Sleeve	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 158.00
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or lattice	\$ 3,270.00
Switchgear	Sesco	Conduit, wiring, and electrical equipment	\$ 916.18
Fixtures	Sesco	Lighting	\$ 3,834.58
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	\$ 21,796.18
Wire	Sesco	Conduit, wiring, and electrical equipment	\$ 1,756.18
Temp Power	Sesco	Conduit, wiring, and electrical equipment	\$ 556.18
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	\$ 6,556.18
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	\$ 76.18
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 3,420.31
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 672.00
Total materials cost (from Introduction tab)			\$ 299,288.79

SECTION 5: SITE DESIGN – MATERIALS SELECTION

C5.5: RECYCLED CONTENT			
Product type is eligible for credit	Post-Consumer (%)	Pre-Consumer (%)	Total Cost of Recycled Materials
N			N/A
N			N/A
N			N/A
N			N/A
Y			\$ -
Y			\$ -
N			N/A
N			N/A
N			N/A
N			N/A
N			N/A
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y		18.80%	\$ 456.21
Y		18.80%	\$ 43.65
Y	13.00%		\$ 1,722.08
Y		10.00%	\$ 101.50
Y	15.00%		\$ 525.00
Y			\$ -
Y			\$ -
Y	95.00%		\$ 26,494.66
Y	100.00%		\$ 2,394.00
Y	10.00%		\$ 13.23
Y	13.00%		\$ 234.26
Y		13.00%	\$ 64.81
Y	18.07%		\$ 6,840.76
Y		95.00%	\$ 8,108.25
Y			\$ -
Y	82.00%	15.00%	\$ 8,860.50
Y	100.00%		\$ 8,185.00
Y	1.00%		\$ 20.26
Y		65.00%	\$ 1.75
Y		90.00%	\$ 145.58
Y			\$ -
Y	10.00%		\$ 642.72
Y	15.00%		\$ 1,907.20
Y		95.00%	\$ 24,863.40
N			N/A
N			N/A
N			N/A
Y	20.00%		\$ 109.42
Y	1.00%		\$ 1.58
Y	60.00%		\$ 1,962.00
Y			\$ -
Y			\$ -
Y	25.00%		\$ 5,449.05
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Y			\$ -
Total recycled materials cost			\$ 99,146.86
Total materials cost (less ineligible product and salvaged materials cost)			\$ 239,048.49
Percent recycled materials (%)			41.48%

CREDIT 5.6 | USE REGIONAL MATERIALS

Narrative

Goal: 5 points

All materials listed represent the total scope of work for the Newell Gateway, part of the UF Landscape Master Plan project. This list was updated to include all material ordered & installed for the project whether they complied with the SITES standards or not as well as confirming wood products from threatened tree species weren't used, as directed by the preliminary review. A big portion of each site's total cost value is related to labor since there was a lot of demolition needed & masonry work which is labor intensive, hence why values are lower than average.

All new plantings/mulch are taken from the farm where they were grown, hence why these values are reflected the same. All raw materials/additives taken directly from quarry, hence why extraction & manufacturing distances are the same. All salvaged/reused material from the University of Florida's campus show 0 miles for both extraction & manufacturing since they were already located on site. Any items that did not fall in the range of compliance reflect same distances because they did not comply with credit. All other items listed were revised to show more accurate data for manufacturing & extraction distances with the exception of 1 material which states the same distance for both manufacturing & extracting:

- Cherokee Brick – Website states that both of their facilities are over 1 million square feet & are located on 6,000 acres that extract & manufacture their brick from (<https://www.cherokeebrick.com/our-capabilities>)

Materials Worksheet

SITES® v2 Materials Worksheet

C5.4: REUSE SALVAGED MATERIALS AND PLANTS
C5.5: USE RECYCLED CONTENT MATERIALS
C5.6: USE REGIONAL MATERIALS

INSTRUCTIONS:

1. Enter applicable information for each material under each credit. Percentages are based on cost or replacement value.

MATERIALS IDENTIFICATION (from Materials List tab)			
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Total Cost of Material
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Muhly	Cherry Lake Tree Farm	Plant	\$ 2,970.00
Azalea	Cherry Lake Tree Farm	Plant	\$ 2,505.00
Sod	Woerner Farms	Sod	\$ 4,771.65
Pinestraw	Elixson Wood Products	Mulch - other	\$ 1,200.00
Pinestraw	University of Florida	Mulch - other	\$ 600.00
Holly Fern	University of Florida	Plant	\$ 500.00
Liriope	University of Florida	Plant	\$ 300.00
Drift Rose	University of Florida	Plant	\$ 350.00
Society Garlic	University of Florida	Plant	\$ 300.00
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	\$ 9,768.00
Precast Benches	University of Florida	Concrete	\$ 1,600.00
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 3,234.00
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,558.48
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 887.04
Reclaimed Brick Paver - 7-1/2" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,034.88
Reclaimed Brick Paver - 8-1/16" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 924.00
Concrete Picnic Table	University of Florida	Concrete	\$ 2,000.00
Concrete/Wood Benches	University of Florida	Concrete	\$ 850.00
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	\$ 4,853.24
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	\$ 464.34
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	\$ 13,246.80
Mortar	Spec Mix	Concrete	\$ 2,030.00
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	\$ 3,500.00
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or lattice	\$ 700.00
Light Poles & Fixtures	University of Florida	Lighting	\$ 11,100.00
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	\$ 27,889.11
Sand	Osteen Bros, Goldhead, Keystone Heights, FL	Sand (if used as a base course material)	\$ 2,394.00
Cement Edge	Home Depot	Concrete	\$ 132.30
Crushed Concrete	Watson Construction, Newberry, FL	Concrete	\$ 1,802.00
Metal Edging	Permaloc,	Other materials or base course layers	\$ 997.00
Concrete - 4,000 PSI	SRM Concrete	Concrete	\$ 37,857.00
Asphalt	Anderson Columbia	Other materials or base course layers	\$ 17,070.00
Welded Wire Fabric	HD Whitecap	Concrete	\$ 902.72
Rebar	HD Whitecap	Concrete	\$ 9,900.00
Limerock	Limerock Industries	Other materials or base course layers	\$ 8,185.00
CL200 Purple PVC Lateral Line	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 2,025.56
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 5.38
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	\$ 323.52
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 629.25
Precast Architectural Concrete	Spring Precast	Concrete	\$ 6,427.25
Storm Structures	Oldcastle Infrastructure	Concrete	\$ 12,714.66
Storm Piping	JM Eagle & Sanderson Pipe	Pipe, hose, or irrigation equipment	\$ 52,344.00
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 84.50
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 172.00
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	\$ 2,442.00
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 547.12
Sch. 40 PVC Sleeve	Sanderson Pipe Corporation	Pipe, hose, or irrigation equipment	\$ 158.00
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or lattice	\$ 3,270.00
Switchgear	Sesco	Conduit, wiring, and electrical equipment	\$ 916.18
Fixtures	Sesco	Lighting	\$ 3,834.58
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	\$ 21,796.18
Wire	Sesco	Conduit, wiring, and electrical equipment	\$ 1,756.18
Temp Power	Sesco	Conduit, wiring, and electrical equipment	\$ 556.18
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	\$ 6,556.18
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	\$ 76.18
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 3,420.31
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing, weather stripping,	\$ 672.00
Total materials cost (from Introduction tab)			\$ 299,288.79

SECTION 5: SITE DESIGN – MATERIALS SELECTION

C5.6: REGIONAL				
Maximum Allowable Distance (miles)	Manufacturer Supplier Distance (miles)	Extraction Distance (miles)	Percent Weight Regional (%)	Total Cost of Regional Materials
250.00	90.00	90.00	100.00%	\$ 185.00
250.00	90.00	90.00	100.00%	\$ 2,970.00
250.00	90.00	90.00	100.00%	\$ 2,505.00
250.00	26.00	26.00	100.00%	\$ 4,771.65
50.00	25.00	25.00	100.00%	\$ 1,200.00
50.00	0.00	0.00	100.00%	\$ 600.00
250.00	0.00	0.00	100.00%	\$ 500.00
250.00	0.00	0.00	100.00%	\$ 300.00
250.00	0.00	0.00	100.00%	\$ 350.00
250.00	0.00	0.00	100.00%	\$ 300.00
500.00	0.00	0.00	100.00%	\$ 9,768.00
500.00	0.00	0.00	100.00%	\$ 1,600.00
500.00	0.00	0.00	100.00%	\$ 3,234.00
500.00	0.00	0.00	100.00%	\$ 1,558.48
500.00	0.00	0.00	100.00%	\$ 887.04
500.00	0.00	0.00	100.00%	\$ 1,034.88
500.00	0.00	0.00	100.00%	\$ 924.00
500.00	0.00	0.00	100.00%	\$ 2,000.00
500.00	0.00	0.00	100.00%	\$ 850.00
500.00	39.00	23.00	100.00%	\$ 4,853.24
500.00	39.00	23.00	100.00%	\$ 464.34
500.00	252.00	252.00	100.00%	\$ 13,246.80
500.00	6.00	59.00	100.00%	\$ 2,030.00
500.00	3.00	54.00	100.00%	\$ 3,500.00
500.00	935.00	935.00	0.00%	\$ -
500.00	0.00	0.00	100.00%	\$ 11,100.00
500.00	483.00	451.00	100.00%	\$ 27,889.11
500.00	2.00	2.00	100.00%	\$ 2,394.00
500.00	10.00	276.00	100.00%	\$ 132.30
500.00	16.00	16.00	100.00%	\$ 1,802.00
500.00	16.00	23.00	100.00%	\$ 997.00
500.00	4.00	57.00	100.00%	\$ 37,857.00
500.00	48.00	34.00	100.00%	\$ 17,070.00
500.00	333.00	1,584.00	100.00%	\$ -
500.00	68.00	114.00	100.00%	\$ 9,900.00
500.00	14.00	14.00	100.00%	\$ 8,185.00
500.00	42.00	165.00	100.00%	\$ 2,025.56
500.00	427.00	372.00	100.00%	\$ 5.38
500.00	1,018.00	1,018.00	0.00%	\$ -
500.00	0.00	0.00	100.00%	\$ 629.25
500.00	203.00	265.00	100.00%	\$ 6,427.25
500.00	66.00	446.00	100.00%	\$ 12,714.66
500.00	127.00	42.00	100.00%	\$ 52,344.00
500.00	10.00	46.00	100.00%	\$ 84.50
500.00	10.00	46.00	100.00%	\$ 172.00
500.00	1,162.00	1,162.00	0.00%	\$ -
500.00	427.00	372.00	100.00%	\$ 547.12
500.00	42.00	165.00	100.00%	\$ 158.00
500.00	1,112.00	1,112.00	100.00%	\$ -
500.00	80.00	231.00	100.00%	\$ 916.18
500.00	80.00	231.00	100.00%	\$ 3,834.58
500.00	80.00	231.00	100.00%	\$ 21,796.18
500.00	80.00	231.00	100.00%	\$ 1,756.18
500.00	80.00	231.00	100.00%	\$ 556.18
500.00	80.00	231.00	100.00%	\$ 6,556.18
500.00	80.00	231.00	100.00%	\$ 76.18
500.00	352.00	274.00	100.00%	\$ 3,420.31
500.00	1,732.00	1,732.00	100.00%	\$ -
Total regional materials cost				\$ 290,978.55
Total materials cost				\$ 299,288.79
Percent regional materials (%)				97.22%

CREDIT 5.7 | SUPPORT RESPONSIBLE EXTRACTION OF RAW MATERIALS

Materials Worksheet

Goal: 1 points

SITES® v2 Materials Worksheet

C5.7: SUPPORT RESPONSIBLE EXTRACTION OF RAW MATERIALS

INSTRUCTIONS:

1. Only the product types listed in the Reference Guide are eligible for this credit. If any materials supplier provides publically available information meeting the requirements of this credit no letter needs to be submitted, but the project should still choose "Y" in the "Supporting Documentation" and "Option 1 Letter Sent" Columns under this credit.

MATERIALS IDENTIFICATION (from Materials List tab)			Product Eligibility			Total Cost of Material	Option	Supporting Documentation	Option 2 and Option 3 only: Percent Weight Responsibly Extracted (%)
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Salvaged or Reused	Recycled	Product and Material Eligibility for C5.7				
Live Oak	Cherry Lake Tree Farm	Plant	N	N	N	\$ 185.00			
Muhly	Cherry Lake Tree Farm	Plant	N	N	N	\$ 2,970.00			
Azalea	Cherry Lake Tree Farm	Plant	N	N	N	\$ 2,505.00			
Sod	Woerner Farms	Sod	N	N	N	\$ 4,771.65			
Pinestraw	Elixon Wood Products	Mulch - other	N	N	Y	\$ 1,200.00			
Pinestraw	University of Florida	Mulch - other	Y	N	Y	\$ 600.00			
Holly Fern	University of Florida	Plant	Y	N	N	\$ 500.00			
Liriope	University of Florida	Plant	Y	N	N	\$ 300.00			
Drift Rose	University of Florida	Plant	Y	N	N	\$ 350.00			
Society Garlic	University of Florida	Plant	Y	N	N	\$ 300.00			
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	Y	N	Y	\$ 9,768.00			
Precast Benches	University of Florida	Concrete	Y	N	Y	\$ 1,600.00			
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-	University of Florida	Brick or masonry unit	Y	N	Y	\$ 3,234.00			
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	N	Y	\$ 1,558.48			
Reclaimed Brick Paver - 7-15/16" x 3-7/8"	University of Florida	Brick or masonry unit	Y	N	Y	\$ 887.04			
Reclaimed Brick Paver - 7-1/2" x 4" x 2-	University of Florida	Brick or masonry unit	Y	N	Y	\$ 1,034.88			
Reclaimed Brick Paver - 8-1/16" x 4" x 2-	University of Florida	Brick or masonry unit	Y	N	Y	\$ 924.00			
Concrete Picnic Table	University of Florida	Concrete	Y	N	Y	\$ 2,000.00			
Concrete/Wood Benches	University of Florida	Concrete	Y	N	Y	\$ 850.00			
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	N	N	Y	\$ 4,853.24			
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	N	N	Y	\$ 464.34			
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	N	N	Y	\$ 13,246.80			
Mortar	Spec Mix	Concrete	N	N	Y	\$ 2,030.00			
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	N	N	Y	\$ 3,500.00			
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	N	N	Y	\$ 700.00			
Light Poles & Fixtures	University of Florida	Lighting	Y	N	Y	\$ 11,100.00			
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	N	N	Y	\$ 27,899.11			
Sand	Osteen Bros, Goldhead,	Sand (if used as a base course material)	N	Y	Y	\$ 2,394.00			
Cement Edge	Home Depot	Concrete	N	N	Y	\$ 132.30			
Crushed Concrete	Watson Construction,	Concrete	N	N	Y	\$ 1,802.00			
Metal Edging	Permaloc,	Other materials or base course layers	N	Y	Y	\$ 997.00			
Concrete - 4,000 PSI	SRM Concrete	Concrete	N	N	Y	\$ 37,857.00			
Asphalt	Anderson Columbia	Other materials or base course layers	N	Y	Y	\$ 17,070.00			
Welded Wire Fabric	HD Whitecap	Concrete	N	N	Y	\$ 902.72			
Rebar	HD Whitecap	Concrete	N	N	Y	\$ 9,900.00			
Limerock	Limerock Industries	Other materials or base course layers	N	Y	Y	\$ 8,185.00			
CL200 Purple PVC Lateral Line	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 2,025.56			
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 5.38			
Hunter PGP/PJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 323.52			
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	Y	Y	Y	\$ 629.25			
Precast Architectural Concrete	Spring Precast	Concrete	N	N	Y	\$ 6,427.25			
Storm Structures	Oldcastle Infrastructure	Concrete	N	N	Y	\$ 12,714.66			
Storm Piping	JM Eagle & Sanderson	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 52,344.00			
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	Y	N	Y	\$ 84.50			
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	Y	N	Y	\$ 172.00			
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	N	N	Y	\$ 2,442.00			
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 547.12			
Sch. 40 PVC Sleeve	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	Y	Y	\$ 158.00			
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	N	N	Y	\$ 3,270.00			
Switchgear	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 916.18			
Fixtures	Sesco	Lighting	N	N	Y	\$ 3,834.58			
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 21,796.18			
Wire	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 1,756.18			
Temp Power	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 556.18			
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 6,556.18			
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	N	N	Y	\$ 76.18			
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	N	N	Y	\$ 3,420.31			
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	N	N	Y	\$ 672.00			
							Option 1 compliance has been met for all products		
							Total eligible materials cost (Option 2 and Option 3 only)		
							Total materials cost (less ineligible product, salvaged, and recycled materials cost)		
							Percent materials meeting Option 2 (%)		
							Percent materials meeting Option 3 (%)		

NOTE: If any materials supplier provides publically available information meeting the requirements of this credit no letter needs to be submitted, but the project should still choose "Y" in the "Supporting Documentation" Column under this credit.

Advocacy Letters

See appendix A at the end of this section for copies of letters sent.

Advocacy letters have been sent to the following list of suppliers/manufacturers:

Option 1 Letter Sent (Y or N)	Total Cost of Option 2 Materials	Total Cost of Option 3 Materials
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
Y	\$ -	\$ -
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
	N/A	N/A
Y	\$ -	\$ -
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
	N/A	N/A
	N/A	N/A
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
	N/A	N/A
	N/A	N/A
	N/A	N/A
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Y	\$ -	\$ -
Yes		
	\$ -	\$ -
		\$ 168,915.41
		0.00%
		0.00%

- Amerimix
- Anderson Columbia
- Armstrong
- Barry Pattern
- Bell Concrete Products
- Cemex
- CertainTeed
- Cherokee Brick
- Clark Dietrich
- Clear Image Signs
- Cubic Transportation
- DCP
- Dow Corning
- DuPont
- Elixson Wood Products
- Garden State Tile
- GCP
- Gulf Coast
- Handi-Hut
- HD Whitecap
- Holt Metals
- Home Depot
- Hunter Industries
- Huntsman Building Solutions
- Hutchinson Welding
- JM Eagle
- Kawneer
- Keystone Ridge Designs
- Landscape Forms
- LG Electronics
- Limerock Industries
- Ludowici
- Master Builders Solutions
- Max-R
- NDS Inc.
- OEC
- Oldcastle infrastructure
- O’Steen Bros
- Peak Racks
- Permaloc
- Perry Roofing
- Pine Hall
- Rain Bird
- Rainbow Cabinets
- Sanderson Pipe
- Sesco Lighting
- Sherwin-Williams
- Spec Mix
- Spring Precast
- SRM Concrete
- Sternberg Lighting
- Watson Construction

CREDIT 5.8 | SUPPORT TRANSPARENCY AND SAFER CHEMISTRY

Materials Worksheet

Goal: 1 points

SITES® v2 Materials Worksheet

C5.8: SUPPORT TRANSPARENCY AND SAFER CHEMISTRY

INSTRUCTIONS:

1. Only the product types listed in the Reference Guide are eligible for this credit. If any materials supplier provides publicly available information meeting the requirements of this credit no letter needs to the "Supporting Documentation" and "Option 1 Letter Sent" Columns under this credit.

MATERIALS IDENTIFICATION (from Materials List tab)					Product type is eligible for credit	Option	Supporting Documentation
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Salvaged or Reused	Total Cost of Material			
Live Oak	Cherry Lake Tree Farm	Plant	N	\$ 185.00	N		
Muhly	Cherry Lake Tree Farm	Plant	N	\$ 2,970.00	N		
Azalea	Cherry Lake Tree Farm	Plant	N	\$ 2,505.00	N		
Sod	Woerner Farms	Sod	N	\$ 4,771.65	N		
Pinestraw	Elixson Wood Products	Mulch - other	N	\$ 1,200.00	N		
Pinestraw	University of Florida	Mulch - other	Y	\$ 600.00	N		
Holly Fern	University of Florida	Plant	Y	\$ 500.00	N		
Liriope	University of Florida	Plant	Y	\$ 300.00	N		
Drift Rose	University of Florida	Plant	Y	\$ 350.00	N		
Society Garlic	University of Florida	Plant	Y	\$ 300.00	N		
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	Y	\$ 9,768.00	Y		
Precast Benches	University of Florida	Concrete	Y	\$ 1,600.00	N		
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-	University of Florida	Brick or masonry unit	Y	\$ 3,234.00	N		
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1,558.48	N		
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x	University of Florida	Brick or masonry unit	Y	\$ 887.04	N		
Reclaimed Brick Paver - 7-1/2" x 4" x 2-	University of Florida	Brick or masonry unit	Y	\$ 1,034.88	N		
Reclaimed Brick Paver - 8-1/16" x 4" x 2-	University of Florida	Brick or masonry unit	Y	\$ 924.00	N		
Concrete Picnic Table	University of Florida	Concrete	Y	\$ 2,000.00	N		
Concrete/Wood Benches	University of Florida	Concrete	Y	\$ 850.00	N		
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	N	\$ 4,853.24	N		
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	N	\$ 464.34	N		
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	N	\$ 13,246.80	N		
Mortar	Spec Mix	Concrete	N	\$ 2,030.00	N		
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	N	\$ 3,500.00	N		
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	N	\$ 700.00	Y		
Light Poles & Fixtures	University of Florida	Lighting	Y	\$ 11,100.00	Y		
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	N	\$ 27,889.11	N		
Sand	Osteen Bros, Goldhead,	Sand (if used as a base course material)	N	\$ 2,394.00	N		
Cement Edge	Home Depot	Concrete	N	\$ 132.30	N		
Crushed Concrete	Watson Construction,	Concrete	N	\$ 1,802.00	N		
Metal Edging	Permaloc,	Other materials or base course layers	N	\$ 997.00	N		
Concrete - 4,000 PSI	SRM Concrete	Concrete	N	\$ 37,857.00	N		
Asphalt	Anderson Columbia	Other materials or base course layers	N	\$ 17,070.00	N		
Welded Wire Fabric	HD Whitecap	Concrete	N	\$ 902.72	N		
Rebar	HD Whitecap	Concrete	N	\$ 9,900.00	N		
Limerock	Limerock Industries	Other materials or base course layers	N	\$ 8,185.00	N		
CL200 Purple PVC Lateral Line	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	\$ 2,025.56	Y		
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 5.38	Y		
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	N	\$ 323.52	Y		
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	Y	\$ 629.25	Y		
Precast Architectural Concrete	Spring Precast	Concrete	N	\$ 6,427.25	N		
Storm Structures	Oldcastle Infrastructure	Concrete	N	\$ 12,714.66	N		
Storm Piping	JM Eagle & Sanderson	Pipe, hose, or irrigation equipment	N	\$ 52,344.00	Y		
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 84.50	Y		
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 172.00	Y		
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	N	\$ 2,442.00	Y		
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 547.12	Y		
Sch. 40 PVC Sleeve	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	\$ 158.00	Y		
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	N	\$ 3,270.00	Y		
Switchgear	Sesco	Conduit, wiring, and electrical equipment	N	\$ 916.18	Y		
Fixtures	Sesco	Lighting	N	\$ 3,834.58	Y		
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	N	\$ 21,796.18	Y		
Wire	Sesco	Conduit, wiring, and electrical equipment	N	\$ 1,756.18	Y		
Temp Power	Sesco	Conduit, wiring, and electrical equipment	N	\$ 556.18	Y		
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	N	\$ 6,556.18	Y		
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	N	\$ 76.18	Y		
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	N	\$ 3,420.31	Y		
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	N	\$ 672.00	Y		
Option 1 compliance has been met for all products							
Total eligible materials cost (Option 2 and Option 3 only)							
Total materials cost (less ineligible products and salvaged/reused materials cost)							
Percent materials meeting Option 2 (%)							
Percent materials meeting Option 3 (%)							

CREDIT 5.9 | SUPPORT SUSTAINABILITY IN MATERIALS MANUFACTURING

Materials Worksheet

Goal: 1 points

SITES® v2 Materials Worksheet

C5.9: SUPPORT SUSTAINABILITY IN MATERIALS MANUFACTURING

INSTRUCTIONS:

1. Natural rocks or boulders; plants, sod, and seed; soils; and salvaged materials are excluded from this credit. If any manufacturer provides publically available information meeting the requirements of this credit, should still choose "Y" in the "Supporting Documentation" and "Option 1 Letter Sent" Columns under this credit.

MATERIALS IDENTIFICATION (from Materials List tab)					Product type is eligible for credit	Option	Supporting Documentation
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Salvaged or Reused	Total Cost of Material			
Live Oak	Cherry Lake Tree Farm	Plant	N	\$ 185.00	N		
Muhly	Cherry Lake Tree Farm	Plant	N	\$ 2,970.00	N		
Azalea	Cherry Lake Tree Farm	Plant	N	\$ 2,505.00	N		
Sod	Woerner Farms	Sod	N	\$ 4,771.65	N		
Pinestraw	Elixson Wood Products	Mulch - other	N	\$ 1,200.00	N		
Pinestraw	University of Florida	Mulch - other	Y	\$ 600.00	N		
Holly Fern	University of Florida	Plant	Y	\$ 500.00	N		
Liriope	University of Florida	Plant	Y	\$ 300.00	N		
Drift Rose	University of Florida	Plant	Y	\$ 350.00	N		
Society Garlic	University of Florida	Plant	Y	\$ 300.00	N		
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	Y	\$ 9,768.00	Y		
Precast Benches	University of Florida	Concrete	Y	\$ 1,600.00	Y		
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-	University of Florida	Brick or masonry unit	Y	\$ 3,234.00	Y		
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	Y	\$ 1,558.48	Y		
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x	University of Florida	Brick or masonry unit	Y	\$ 887.04	Y		
Reclaimed Brick Paver - 7-1/2" x 4" x 2-	University of Florida	Brick or masonry unit	Y	\$ 1,034.88	Y		
Reclaimed Brick Paver - 8-1/16" x 4" x 2-	University of Florida	Brick or masonry unit	Y	\$ 924.00	Y		
Concrete Picnic Table	University of Florida	Concrete	Y	\$ 2,000.00	Y		
Concrete/Wood Benches	University of Florida	Concrete	Y	\$ 850.00	Y		
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	N	\$ 4,853.24	Y		
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	N	\$ 464.34	Y		
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	N	\$ 13,246.80	Y		
Mortar	Spec Mix	Concrete	N	\$ 2,030.00	Y		
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	N	\$ 3,500.00	Y		
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	N	\$ 700.00	Y		
Light Poles & Fixtures	University of Florida	Lighting	Y	\$ 11,100.00	Y		
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	N	\$ 27,889.11	Y		
Sand	Osteen Bros, Goldhead,	Sand (if used as a base course material)	N	\$ 2,394.00	Y		
Cement Edge	Home Depot	Concrete	N	\$ 132.30	Y		
Crushed Concrete	Watson Construction,	Concrete	N	\$ 1,802.00	Y		
Metal Edging	Permaloc,	Other materials or base course layers	N	\$ 997.00	Y		
Concrete - 4,000 PSI	SRM Concrete	Concrete	N	\$ 37,857.00	Y		
Asphalt	Anderson Columbia	Other materials or base course layers	N	\$ 17,070.00	Y		
Welded Wire Fabric	HD Whitecap	Concrete	N	\$ 902.72	Y		
Rebar	HD Whitecap	Concrete	N	\$ 9,900.00	Y		
Limerock	Limerock Industries	Other materials or base course layers	N	\$ 8,185.00	Y		
CL200 Purple PVC Lateral Line	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	\$ 2,025.56	Y		
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 5.38	Y		
Hunter PGP/PGJ Rotar/Mini Rotar Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	N	\$ 323.52	Y		
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	Y	\$ 629.25	Y		
Precast Architectural Concrete	Spring Precast	Concrete	N	\$ 6,427.25	Y		
Storm Structures	Oldcastle Infrastructure	Concrete	N	\$ 12,714.66	Y		
Storm Piping	JM Eagle & Sanderson	Pipe, hose, or irrigation equipment	N	\$ 52,344.00	Y		
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 84.50	Y		
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	Y	\$ 172.00	Y		
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	N	\$ 2,442.00	Y		
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	N	\$ 547.12	Y		
Sch. 40 PVC Sleeve	Sanderson Pipe	Pipe, hose, or irrigation equipment	N	\$ 158.00	Y		
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	N	\$ 3,270.00	Y		
Switchgear	Sesco	Conduit, wiring, and electrical equipment	N	\$ 916.18	Y		
Fixtures	Sesco	Lighting	N	\$ 3,834.58	Y		
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	N	\$ 21,796.18	Y		
Wire	Sesco	Conduit, wiring, and electrical equipment	N	\$ 1,756.18	Y		
Temp Power	Sesco	Conduit, wiring, and electrical equipment	N	\$ 556.18	Y		
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	N	\$ 6,556.18	Y		
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	N	\$ 76.18	Y		
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	N	\$ 3,420.31	Y		
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	N	\$ 672.00	Y		
Option 1 compliance has been met for all eligible products							
Total eligible materials cost (Option 2 and Option 3 only)							
Total materials cost (less ineligible products and salvaged/reused materials cost)							
Percent materials meeting Option 2 (%)							
Percent materials meeting Option 3 (%)							

CREDIT 5.10 | SUPPORT SUSTAINABILITY IN PLANT PRODUCTION

Materials Worksheet

Goal: 1 points

SITES® v2 Materials Worksheet

C5.10: SUPPORT SUSTAINABILITY IN PLANT PRODUCTION

INSTRUCTIONS:

1. Only plants, sod, and seed are included in this credit. If any materials supplier provides publically available information meeting the requirements of this credit no letter needs to be the "Supporting Documentation" and "Option 1 Letter Sent" Columns under this credit.

MATERIALS IDENTIFICATION (from Materials List tab)				Product type is eligible for credit	Option	Supporting Documentation
Description of Material	Manufacturer or Supplier Name	Material/Product Type	Total Cost of Material			
Live Oak	Cherry Lake Tree Farm	Plant	\$ 185.00	Y		
Muhly	Cherry Lake Tree Farm	Plant	\$ 2,970.00	Y		
Azalea	Cherry Lake Tree Farm	Plant	\$ 2,505.00	Y		
Sod	Woerner Farms	Sod	\$ 4,771.65	Y		
Pinestraw	Elixon Wood Products	Mulch - other	\$ 1,200.00	N		
Pinestraw	University of Florida	Mulch - other	\$ 600.00	N		
Holly Fern	University of Florida	Plant	\$ 500.00	Y		
Liriope	University of Florida	Plant	\$ 300.00	Y		
Drift Rose	University of Florida	Plant	\$ 350.00	Y		
Society Garlic	University of Florida	Plant	\$ 300.00	Y		
2 Tier Recycling Station	University of Florida	Wood - Manufactured/compressed wood product	\$ 9,768.00	N		
Precast Benches	University of Florida	Concrete	\$ 1,600.00	N		
Reclaimed Brick Paver - 7-7/8" x 3-7/8" x 2-	University of Florida	Brick or masonry unit	\$ 3,234.00	N		
Reclaimed Brick Paver - 8" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,558.48	N		
Reclaimed Brick Paver - 7-15/16" x 3-7/8" x	University of Florida	Brick or masonry unit	\$ 887.04	N		
Reclaimed Brick Paver - 7-1/2" x 4" x 2-1/4"	University of Florida	Brick or masonry unit	\$ 1,034.88	N		
Reclaimed Brick Paver - 8-1/16" x 4" x 2-	University of Florida	Brick or masonry unit	\$ 924.00	N		
Concrete Picnic Table	University of Florida	Concrete	\$ 2,000.00	N		
Concrete/Wood Benches	University of Florida	Concrete	\$ 850.00	N		
CMU Block - 8x8x16	Bell Concrete Products	Brick or masonry unit	\$ 4,853.24	N		
CMU Block - 8x4x16	Bell Concrete Products	Brick or masonry unit	\$ 464.34	N		
Brick - 3-5/8" x 2-1/4" x 7-5/8"	Cherokee	Brick or masonry unit	\$ 13,246.80	N		
Mortar	Spec Mix	Concrete	\$ 2,030.00	N		
Concrete - 3000 CMG Cell Fill	CEMEX	Concrete	\$ 3,500.00	N		
TAPS Signage	University of Florida	Non-wood decking, railing, fencing, trellises, or	\$ 700.00	N		
Light Poles & Fixtures	University of Florida	Lighting	\$ 11,100.00	N		
Brick Pavers - 4x8" HD Full Range	Pine Hall Brick	Brick or masonry unit	\$ 27,889.11	N		
Sand	Osteen Bros, Goldhead,	Sand (if used as a base course material)	\$ 2,394.00	N		
Cement Edge	Home Depot	Concrete	\$ 132.30	N		
Crushed Concrete	Watson Construction,	Concrete	\$ 1,802.00	N		
Metal Edging	Permaloc,	Other materials or base course layers	\$ 997.00	N		
Concrete - 4,000 PSI	SRM Concrete	Concrete	\$ 37,857.00	N		
Asphalt	Anderson Columbia	Other materials or base course layers	\$ 17,070.00	N		
Welded Wire Fabric	HD Whitecap	Concrete	\$ 902.72	N		
Rebar	HD Whitecap	Concrete	\$ 9,900.00	N		
Limerock	Limerock Industries	Other materials or base course layers	\$ 8,185.00	N		
CL200 Purple PVC Lateral Line	Sanderson Pipe	Pipe, hose, or irrigation equipment	\$ 2,025.56	N		
Rain Bird 1401 Flood Bubbler	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 5.38	N		
Hunter PGP/PGJ Rotar/Mini Rotor Fixture	Hunter Industries	Pipe, hose, or irrigation equipment	\$ 323.52	N		
Existing Electric Rain Bird 150 PEB Valve	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 629.25	N		
Precast Architectural Concrete	Spring Precast	Concrete	\$ 6,427.25	N		
Storm Structures	Oldcastle Infrastructure	Concrete	\$ 12,714.66	N		
Storm Piping	JM Eagle & Sanderson	Pipe, hose, or irrigation equipment	\$ 52,344.00	N		
1" x 4" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 84.50	N		
2" x 6" Wood Forms	Home Depot	Wood - Natural Lumber	\$ 172.00	N		
3-Tier Recycling Station	Max-R	Wood - Manufactured/compressed wood product	\$ 2,442.00	N		
Rain Bird 1806/1812 RD Spray Fixture	Rain Bird Corporation	Pipe, hose, or irrigation equipment	\$ 547.12	N		
Sch. 40 PVC Sleeve	Sanderson Pipe	Pipe, hose, or irrigation equipment	\$ 158.00	N		
Bollards	Sternberg Lighting	Non-wood decking, railing, fencing, trellises, or	\$ 3,270.00	N		
Switchgear	Sesco	Conduit, wiring, and electrical equipment	\$ 916.18	N		
Fixtures	Sesco	Lighting	\$ 3,834.58	N		
Conduit & Fittings	Sesco	Conduit, wiring, and electrical equipment	\$ 21,796.18	N		
Wire	Sesco	Conduit, wiring, and electrical equipment	\$ 1,756.18	N		
Temp Power	Sesco	Conduit, wiring, and electrical equipment	\$ 556.18	N		
Pole Bases	Sesco	Conduit, wiring, and electrical equipment	\$ 6,556.18	N		
Lighting Controls	Sesco	Conduit, wiring, and electrical equipment	\$ 76.18	N		
Joint Sealant	Dow	Adhesive, sealant, elastomer, water proofing,	\$ 3,420.31	N		
Dampproofing	Master Builders Solutions	Adhesive, sealant, elastomer, water proofing,	\$ 672.00	N		
Option 1 compliance has been met for all eligible products						
Total eligible materials cost (Option 2 and Option 3 only)						
Total eligible materials cost						
Percent materials meeting Option 2 (%)						
Percent materials meeting Option 3 (%)						

SECTION 5 - APPENDIX

A. C5.7 Letters

Amerimix



October 11, 2021

Amerimix

400 Perimeter Center Terrace NE, Suite 1000, Atlanta, GA 30346

Dear Amerimix,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
 - Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for **Option 2**, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);

Anderson Columbia



October 11, 2021

Anderson Columbia

871 NW Guerdon St, Lake City, FL 32055

Dear Anderson Columbia,

Your organization is receiving this letter as a **provider** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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To help us achieve 3 points for **Option 2**, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);

- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for **Option 3**, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:
 - Global Reporting Initiative (GRI) sustainability report;
 - Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
 - U.N. Global Compact: Communication of Progress;
 - ISO 26000: 2010 Guidance on Social Responsibility
 - Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws.
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure.

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppl.com

352-756-7377

- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for **Option 3**, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:
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- For bio-based products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws.
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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppl.com

352-756-7377

Armstrong



October 11, 2021

Armstrong World Industries
2500 Columbia Ave Bldg 701, Lancaster, PA 17603

Dear Armstrong World Industries,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablestest.org.

Credit 5.7: *Support responsible extraction of raw materials* aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GR) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

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- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge Issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Barry Pattern



October 11, 2021

Barry Pattern & Foundry, Inc
3333 35th Ave N, Birmingham, AL 35207

Dear Barry Pattern & Foundry, Inc,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablestest.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
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To help us achieve 5 points for Option 3, please provide the following:

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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge Issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
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 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Bell Concrete Products



October 11, 2021

Bell Concrete Products
2480 US-129, Bell, FL 32619

Dear Bell Concrete,

Your organization is receiving this letter as a **supplier** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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- For bio-based raw materials:**
Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
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 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
nolan.davis@cpsi.com
352-756-7377

Cemex



October 11, 2021

Cemex
305 SW Depot Ave, Gainesville, FL 32601

Dear Cemex,

Your organization is receiving this letter as a **provider** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:**
Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:**
A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis



October 11, 2021

CertainTeed
5080 Recker Hwy, Winter Haven, FL 33880

Dear CertainTeed,

Your organization is receiving this letter as a **supplier** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

Cherokee Brick
3250 Waterville Rd, Macon, GA 31206

Dear Cherokee Brick,

Your organization is receiving this letter as a **manufacturer** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Clark
Dietrich



October 11, 2021

ClarkDietrich
38020 Pub Dr, Dade City, FL 33523

Dear ClarkDietrich,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
 - A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining;
 - Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing;
 - A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For no-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For no-based raw materials:**
 - Compliance with ASTM Test Method D6866;
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:**
 - Receipts of vendor invoices documenting which wood products meet certification requirements;
 - Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:**
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws;
 - Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Clear Image
Signs



October 11, 2021

Clear Image Signs
1901 NW 67th PL, Unit A, Gainesville, FL 32653

Dear Clear Image Signs,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
 - A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining;
 - Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing;
 - A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For no-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For no-based raw materials:**
 - Compliance with ASTM Test Method D6866;
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:**
 - Receipts of vendor invoices documenting which wood products meet certification requirements;
 - Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:**
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws;
 - Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Cubic Transportation



October 11, 2021

Cubic Transportation Systems, Inc.
1308 South Washington St, Tallahassee, TN 37388

Dear Cubic Transportation Systems, Inc.,

Your organization is receiving this letter as a **manufacturer of raw materials for UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable).
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports.
- For bio-based raw materials:** Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
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 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpipi.com

352-756-7377

DCP



October 11, 2021

Don Construction Products
2826 Lineberger Industrial Dr, Lancaster, SC 29720

Dear Don Construction Products,

Your organization is receiving this letter as a **supplier of raw materials for UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at d.stephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

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- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

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- ISO 26000: 2010 Guidance on Social Responsibility
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpipi.com

352-756-7377



October 11, 2021

Dow Corning
760 Hodgenville RD, Elizabethtown, KY 42701

Dear Dow Corning,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany from UF PD&C** at dstephany@uf.edu by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

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- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

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- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
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- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany from UF PD&C** at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

DuPont
1467 Prosser Dr SE, Dalton, GA 30721

Dear DuPont,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany from UF PD&C** at dstephany@uf.edu by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany from UF PD&C** at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Elixson Wood Products



October 11, 2021

Elixson Wood Products
18976 NW 84th Ave, Starke, FL 32091

Dear Elixson Wood Products,

Your organization is receiving this letter as a **provider** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Garden State Tile



October 11, 2021

Garden State Tile
2500 Abercorn St, Savannah, GA 31401

Dear Garden State Tile,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

GCP



October 11, 2021

GCP Applied Technologies Inc
2325 Lakeview Pkwy Suite 450, Alpharetta, GA 30009

Dear GCP Applied Technologies Inc,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at dstephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
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To help us achieve 5 points for Option 3, please provide the following:

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- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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- For bio-based raw materials: Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products: Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
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 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Gulf Coast



October 11, 2021

Gulf Coast Supply & Manufacturing
14429 SW 2nd PL G30, Newberry, FL 32669

Dear Gulf Coast Supply & Manufacturing,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at dstephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

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To help us achieve 5 points for Option 3, please provide the following:

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- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Handi-Hut



October 11, 2021

Handi-Hut Inc
3 Grunwald St, Clifton, NJ 07013

Dear Handi-Hut, Inc,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

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Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:**
documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:**
Compliance with ASTM Test Method D8866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

HD Whitecap



October 11, 2021

HD Whitecap
11416 NW Hwy 441, Gainesville, FL 32653

Dear HD Whitecap,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

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A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:**
documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:**
Compliance with ASTM Test Method D8866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:**
Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:**
A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Holt Metals



October 11, 2021

Holt Metals & Fabrication
24593 NW 9th PL, Newberry, FL 32669

Dear Holt Metals & Fabrication,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephary** from UF PD&C at d.stephary@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country;
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
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 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Home Depot



October 11, 2021

Home Depot
7107 NW 4th Blvd, Gainesville, FL 32607

Dear Home Depot,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephary** from UF PD&C at d.stephary@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

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- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country;
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Hunter Industries



October 11, 2021

Hunter Industries
4501 Hunter Rd #9204, San Marcos, TX 78666

Dear Hunter Industries,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A third-party verified corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products: documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials: Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products: Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above: A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Huntsman Building Solutions



October 11, 2021

Huntsman Building Solutions
1003 Woodloch Forest Dr, The Woodlands, TX 77380

Dear Huntsman Building Solutions,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A third-party verified corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products: documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials: Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products: Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above: A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
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 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

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If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Hutchinson Welding



October 11, 2021

Hutchinson Welding & Repair
1053 Hwy 17, Satsuma, FL 32189

Dear Hutchinson Welding & Repair,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
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- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

JM Eagle



October 11, 2021

JM Eagle
2101 J-M Dr, Adel, GA 31620

Dear JM Eagle,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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Responsible extraction criteria as demonstrated by the following:

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Kawneer



October 11, 2021

Kawneer
4645 L B McLeod Rd, Orlando, FL 32811

Dear **Kawneer**,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

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- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

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Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Keystone Ridge Designs



October 11, 2021

Keystone Ridge Designs, Inc
670 Mercer Rd, Butler, PA 16001

Dear **Keystone Ridge Designs, Inc.**

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Landscape Forms



October 11, 2021

Landscape Forms
7800 E Michigan Ave, Kalamazoo, MI 49048

Dear Landscape Forms,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at dstephany@uf.edu](mailto:Dustin.Stephany@UF.PD&C) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

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- For no-based products, documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials: Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products: Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
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 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

LG Electronics



October 11, 2021

LG Electronics
111 Sylvan Ave, Englewood Cliffs, NJ 07632

Dear LG Electronics,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at dstephany@uf.edu](mailto:Dustin.Stephany@UF.PD&C) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A third-party verified corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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- For bio-based raw materials: Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products: Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above: A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
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 - Labor practices;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Limerock Industries



October 11, 2021

Limerock Industries
2500 NW 202nd St, Newberry, FL 32669

Dear Limerock Industries,

Your organization is receiving this letter as a **provider** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

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- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
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 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note, these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Ludowici



October 11, 2021

Ludowici
4757 Tile Plant Rd, New Lexington, OH 43764

Dear Ludowici,

Your organization is receiving this letter as a **manufacturer** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
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To help us achieve 5 points for Option 3, please provide the following:

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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Master Builders Solutions



October 11, 2021

Master Builders Solutions
889 Valley Park Dr S, Shakopee, MN 55379

Dear Master Builders Solutions,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Max-R



October 11, 2021

Max-R
W246 N5499 Executive Dr, Sussex, WI 53089

Dear Max-R,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

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- U.N. Global Compact: Communication of Progress;
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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

NDS Inc.



October 11, 2021

NDS Inc.
21300 Victory Blvd #215, Woodland Hills, CA 91367

Dear NDS Inc,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

OEC



October 11, 2021

OEC Business Interiors
1925 SW 16th Ct Ste 105, Ocala, FL 34471

Dear OEC Business Interiors,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

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 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Oldcastle Infrastructure



October 11, 2021

Oldcastle Infrastructure
12300 Presidents Ct, Jacksonville, FL 32220

Dear Oldcastle Infrastructure,

Your organization is receiving this letter as a **supplier** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
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To help us achieve 5 points for Option 3, please provide the following:

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- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
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- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

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- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

O'Steen Brothers



October 11, 2021

O'Steen Bros, Inc
1006 SE 4th St, Gainesville, FL 32601

Dear O'Steen Bros, Inc,

Your organization is receiving this letter as a **provider** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

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- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

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 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Peak Racks



October 11, 2021

Peak Racks, Inc
870 Capiloto Way #5, San Luis Obispo, CA 93401

Dear Peak Racks, Inc.

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@UF.PD&C@d.stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
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To help us achieve 5 points for Option 3, please provide the following:

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Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials: A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Permaloc



October 11, 2021

Permaloc Corporation
13505 Barry St, Holland, MI 49424

Dear Permaloc Corporation,

Your organization is receiving this letter as a manufacturer of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Perry Roofing



October 11, 2021

Perry Roofing
2505 NW 71st PL, Gainesville, FL 32653

Dear Perry Roofing,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Pine Hall



October 11, 2021

Pine Hall Brick
2701 Shorefair Dr NW, Winston-Salem, NC 27105

Dear Pine Hall Brick,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 11/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
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 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Rain Bird



October 11, 2021

Rain Bird Corporation
6991 E Southpoint Rd Bldg 2, Tucson, AZ 85756

Dear Rain Bird Corporation,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **11/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

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- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
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- For bio-based raw materials:** Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
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 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Rainbow Cabinets



October 11, 2021

Rainbow Cabinets
4690 NE 35th St, Ocala, FL 34479

Dear Rainbow Cabinets,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **11/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866. A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Sanderson Pipe



October 11, 2021

Sanderson Pipe Corporation
1 Enterprise Blvd, Sanderson, FL 32087

Dear Sanderson Pipe Corporation,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

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- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
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- ISO 26000:2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
 - A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining;
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 - A copy of the public declaration from each manufacturer committing to responsible mining practices.
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- For bio-based raw materials:**
 - Compliance with ASTM Test Method D6866;
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:**
 - Receipts of vendor invoices documenting which wood products meet certification requirements;
 - Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:**
 - A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws;
 - Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices;
 - Governance structure

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377

Sesco Lighting



October 11, 2021

Sesco Lighting
9250 Baymeadows Rd #350, Jacksonville, FL 32256

Dear SESCO Lighting,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainableplaces.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

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- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

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- ISO 26000:2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
 - A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377



October 11, 2021

Sherwin-Williams
101 W Prospect Ave, Cleveland, OH 44115

Dear Sherwin-Williams,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com



October 11, 2021

Spec Mix
1230 Eagan Industrial Rd, Eagan, MN 55121

Dear Spec Mix,

Your organization is receiving this letter as a **supplier** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country;
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws. Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Spring Precast



October 11, 2021

Spring Precast
3782 US-280, Cobb, GA 31735

Dear Spring Precast,

Your organization is receiving this letter as a **supplier** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklists for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

SRM Concrete



October 11, 2021

Anderson Columbia
116 NE 33rd Ave, Gainesville, FL 32609

Dear SRM Concrete,

Your organization is receiving this letter as a **provider** of raw materials for UF-656 Landscape Master Plan Project, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organization for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:**
A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining. Checklists for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing. A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For new wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

Sternberg Lighting



October 11, 2021

Sternberg Lighting
555 Lawrence Ave, Roselle, IL 60172

Dear Sternberg Lighting,

Your organization is receiving this letter as a **manufacturer** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/21/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Watson Construction



October 11, 2021

Watson Construction
940 NW 247 Dr, Newberry, FL 32669

Dear Watson Construction,

Your organization is receiving this letter as a **provider** of raw materials for **UF-656 Landscape Master Plan Project**, which is seeking certification as a sustainably developed landscape via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

Credit 5.7: Support responsible extraction of raw materials aims to protect ecosystems, respect cultural and community values, and improve land use through responsible extraction of raw materials for site design and construction. To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to:

- Track and disclose sustainable extraction processes by implementing a Global Reporting Initiative (GRI) sustainability report, or equivalent, including the Mining and Metals supplement, if applicable; and by publishing a publicly available sustainability statement that discloses efforts to achieve sustainable practices.
- Provide five percent of the total materials that meet or exceed the responsible extraction criteria outlined below, based on cost.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Evidence of disclosure of annual environmental practices via the Global Reporting Initiative (GRI), or equivalent (including the Mining and Metals supplement, if applicable);
- A publicly available sustainability statement that discloses efforts to achieve sustainable practices.

To help us achieve 5 points for Option 3, please provide the following:

- A **third-party verified** corporate sustainability report (CSR), including statements of environmental impacts of extraction operations and activities associated with the manufacturer's product and the product's supply chain, in one of these formats:

- Global Reporting Initiative (GRI) sustainability report;
- Organisation for Economic Co-operation and Development (OECD) Guidelines for Multinational Enterprises;
- U.N. Global Compact: Communication of Progress;
- ISO 26000: 2010 Guidance on Social Responsibility
- Other programs meeting CSR criteria.

Responsible extraction criteria as demonstrated by the following:

- For mined or quarried materials:** A letter signed by the owner of each manufacturer and its raw material suppliers, stating that they have reviewed and understood the Framework for Responsible Mining; Checklist for each manufacturer listed all of the Framework for Responsible Mining's Leading Edge issues, and identifying which Leading Edge measures they are currently implementing; A copy of the public declaration from each manufacturer committing to responsible mining practices.
- For bio-based products:** documentation demonstrating compliance with the Sustainable Agriculture Network's Sustainable Agriculture Standard, including any audit reports;
- For bio-based raw materials:** Compliance with ASTM Test Method D6866; A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing harvest procedures, as defined by the exporting and receiving country.
- For raw wood products:** Receipts of vendor invoices documenting which wood products meet certification requirements; Chain-of-custody documentation demonstrating certification by the Forest Stewardship Council or SITES-approved equivalent.
- For all other extracted materials not addressed above:** A letter signed by the owner of each manufacturer and its raw materials suppliers, addressing all laws governing extraction and manufacturing procedures as defined by the exporting and receiving country, including human rights laws; Publicly available third-party verified corporate sustainability report including ALL of the following information:
 - A commitment to long-term ecologically responsible land use;
 - A commitment to reducing environmental harms from extraction and/or manufacturing processes;
 - Evidence of their economic and social support of adjacent communities;
 - A commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria;
 - Labor practices
 - Governance structure

Please note: these requirements do not apply to products containing recycled content, that are salvaged, reused or refurbished, or to plants or hide products.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/21/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

B. C5.8 Letters

Armstrong



October 11, 2021

Armstrong World Industries
2500 Columbia Ave Bldg 701, Lancaster, PA 17603

Dear Armstrong World Industries,

Your organization is receiving this letter as a manufacturer of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910); the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/IGCI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

CertainTeed



October 11, 2021

CertainTeed
5080 Rocker Hwy, Winter Haven, FL 33880

Dear CertainTeed,

Your organization is receiving this letter as a supplier of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910); the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/IGCI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Cubic Transportation



October 11, 2021

Cubic Transportation Systems, Inc
1308 South Washington St, Tallahassee, TN 37388

Dear Cubic Transportation Systems, Inc,

Your organization is receiving this letter as a manufacturer of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8. Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghsguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product during steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act, and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions *in situ*. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/IGI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note, these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

DCP



October 11, 2021

Don Construction Products
2826 Lineberger Industrial Dr, Lancaster, SC 29720

Dear Don Construction Products,

Your organization is receiving this letter as a supplier of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

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- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghsguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product during steps.

To help us achieve 5 points for Option 3, please provide the following:

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- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
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 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Dow Corning
760 Hodgenville Rd, Elizabethtown, KY 42701

Dear Dow Corning,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghaguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

DuPont
1467 Prosser Dr SE, Dalton, GA 30721

Dear DuPont,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

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To help us achieve 3 points for Option 2, please provide the following:

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To help us achieve 5 points for Option 3, please provide the following:

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- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

GCP



October 11, 2021

GCP Applied Technologies Inc
2325 Lakeview Pkwy Suite 450, Alpharetta, GA 30009

Dear GCP Applied Technologies Inc,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Home Depot



October 11, 2021

Home Depot
7107 NW 4th Blvd, Gainesville, FL 32607

Dear Home Depot,

Your organization is receiving this letter as a **supplier** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act, and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions *in situ*. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/CGI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note, these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@ufl.edu by **12/1/2021**. Otherwise, please email the requested documentation by **11/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Hunter Industries



October 11, 2021

Hunter Industries
4501 Hunter Rd #9204, San Marcos, TX 78666

Dear Hunter Industries,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer; any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/gtaguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910); the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
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Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/21/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Huntsman Building Solutions



October 11, 2021

Huntsman Building Solutions
10003 Woodloch Forest Dr, The Woodlands, TX 77380

Dear Huntsman Building Solutions,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer; any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/gtaguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

JM Eagle



October 11, 2021

JM Eagle
2101 J-M Dr, Adel, GA 31620

Dear JM Eagle,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsp/hazcom/ghsguidoc05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
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 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppci.com
352-756-7377

LG Electronics



October 11, 2021

LG Electronics
111 Sylvan Ave, Englewood Cliffs, NJ 07632

Dear LG Electronics,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Pipes, hoses, and irrigation components

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsp/hazcom/ghsguidoc05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
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 - GreenScreen for Safer Chemicals
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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppci.com
352-756-7377

Master Builders Solutions



October 11, 2021

Master Builders Solutions
889 Valley Park Dr S, Shakopee, MN 55379

Dear Master Builders Solutions,

Your organization is receiving this letter as a manufacturer of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Pipes, hoses, and irrigation components

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October 11, 2021

Max-R
W248 N5499 Executive Dr, Sussex, WI 53089

Dear Max-R,

Your organization is receiving this letter as a manufacturer of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act, and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/CGI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

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If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Max-R

SECTION 5: SITE DESIGN – MATERIALS SELECTION

NDS



October 11, 2021

NDS Inc
21300 Victory Blvd #215, Woodland Hills, CA 91367

Dear NDS Inc,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8. **Support transparency and safer chemistry** aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and/or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910); the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
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Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

OEC



October 11, 2021

OEC Business Interiors
1925 SW 18th Ct Ste 105, Ocala, FL 34471

Dear OEC Business Interiors,

Your organization is receiving this letter as a **supplier** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8. **Support transparency and safer chemistry** aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and/or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

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- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
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Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Rain Bird



October 11, 2021

Rain Bird Corporation
6991 E Southpoint Rd Bldg 2, Tucson, AZ 85756

Dear Rain Bird Corporation,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

SITES Credit 5.8. **Support transparency and safer chemistry** aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for **Option 2**, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghsguide05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for **Option 3**, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

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- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act, and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
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Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for **Option 3**, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Sanderson Pipe



October 11, 2021

Sanderson Pipe Corporation
1 Enterprise Blvd, Sanderson, FL 32087

Dear Sanderson Pipe Corporation,

Your organization is receiving this letter as a **manufacturer** of materials for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablesties.org.

SITES Credit 5.8. **Support transparency and safer chemistry** aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and / or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for **Option 2**, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghsguide05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Sesco Lighting



October 11, 2021

Sesco Lighting
9250 Baymeadows Rd #350, Jacksonville, FL

Dear Sesco Lighting,

Your organization is receiving this letter as a **supplier** of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[dstephny@uf.edu\]\(mailto:dstephny@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guidect05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
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- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
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 - GreenScreen for Safer Chemicals
 - U.S. EPA's DfE Alternatives Assessment Criteria for Hazard Evaluation
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Disclosure Documentation Guidance

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpco.com
352-756-7377

Sternberg Lighting



October 11, 2021

Sternberg Lighting
555 Lawrence Ave, Roselle, IL 60172

Dear Sternberg Lighting,

Your organization is receiving this letter as a **manufacturer** of materials for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to develop and disclose chemical inventories and/or conduct chemical hazard assessments, per the guidance below, for the following products:

- Pipes, hoses, and irrigation components

Chemical inventories are defined as the listing of all chemicals associated with the manufacturing of a material and should include, to the extent known or reasonably ascertainable, all chemicals intentionally added by the manufacturer, any intermediate chemicals that may be wholly or partially consumed during the manufacturing process, and any process chemicals that may end up in manufacturing effluent or be otherwise released.

Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[dstephny@uf.edu\]\(mailto:dstephny@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghs/guidect05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BizNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DfE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/IGCI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany](mailto:Dustin.Stephany@uf.edu) from UF PD&C at dstephny@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpco.com
352-756-7377



October 11, 2021

University of Florida
Gainesville, FL 32608

Dear University of Florida,

Your organization is receiving this letter as a **supplier** of materials for UF-666 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

SITES Credit 5.8: Support transparency and safer chemistry aims to decrease harmful health and environmental impacts and encourage the use of safer alternatives by promoting the use of materials with available chemical inventories, lifecycle information, and hazard assessments.

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- Pipes, hoses, and irrigation components

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Chemical hazard assessment refers to the process of identifying product constituents; collecting, developing, and evaluating data on human health and environmental endpoints such as carcinogenicity, reproductive toxicity, neurotoxicity, aquatic toxicity, and persistence; and identifying potential hazards. This process allows for comparisons of alternatives to determine relative "greenness" and safety. The process also identifies areas for improvement. Chemical hazard assessments, focused on inherent risks of chemicals, do not take into account exposure scenarios as a more in-depth and lengthy risk assessment would.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

- Documentation demonstrating disclosure of material chemistry, including GHS-compliant (<https://www.osha.gov/dsg/hazcom/ghsguideoct05.pdf>), or otherwise complete Safety Data Sheets, and chemical safety reports for five percent or more of the products listed above. This includes:
 - Chemical inventories covering all chemicals, whether used intentionally or otherwise known to be present, in all life cycle stages of the product

In cases where the compilation of a complete chemical inventory is not feasible, the inventory requirements should cover chemicals and their life cycle stages thought to present the greatest hazards to workers, consumers, the general population, and environmental species.

- A report of all known hazards and their concentrations regardless of whether the chemical's presence in the product or process is intentional. This reporting includes the identification of any impurities, byproducts, and emissions from finished products or product curing steps.

To help us achieve 5 points for Option 3, please provide the following:

- Documentation for Option 2, AND
- Completed chemical hazard assessments from one of the following screening-level hazard assessment tools for five percent or more of the products using:
 - BioNGO's Chemical Alternatives Assessment Protocol
 - GreenScreen for Safer Chemicals
 - U.S. EPA's DIE Alternatives Assessment Criteria for Hazard Evaluation
 - U.S. EPA's Sustainable Futures tool suite (to be used only when measured data is not available)
 - An equivalent robust hazard assessment strategy using recognized and reliable data sources.

Disclosure Documentation Guidance

All disclosures must adhere to the following standards:

- Each substance should be identified by the Chemical Abstract Service (CAS) name, number, and weight percentage, and include the identification or known impurities and byproducts.
- Criteria should be consistent with federal regulations, including the U.S. Occupational Safety and Health Administration (OSHA) Occupational and Health Hazard Communication Standard (29 CFR 1910), the U.S. Consumer Product Safety Commission Consumer Product Safety Act and Federal Hazardous Substances Act; and the U.S. Federal Trade Commission laws and guidelines prohibiting deceptive acts or practices, including deceptive representations in advertising, labeling, product inserts, catalogs, and sales presentations (or local equivalent for projects outside of the United States).
- For products required by the U.S. OSHA to have a safety data sheet (SDS), make a comprehensive SDS, in addition to all product ingredient and warning labels as required by the Consumer Product Safety Commission. SDSs should be provided for chemical components of formulated mixtures (particularly multi-component product systems) that undergo chemical reactions in situ. Also provide SDSs for final products resulting from such chemical reaction.
- For substances for which the manufacturer or supplier has developed an SDS consistent with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), only GHS-compliant SDSs will satisfy this requirement. For substances for which no GHS-compliant SDS is available, a report prepared within the previous five years in accordance with the NSF/GCI/ANSI 355 Greener Chemicals Products and Processes Information Standard shall be deemed to satisfy this requirement.

Please note: these requirements do not apply to products or materials that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@ufl.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

C. C5.9 Letters

Amerimix



October 11, 2021

Amerimix

400 Perimeter Center Terrace NE, Suite 1000, Atlanta, GA 30346

Dear Amerimix,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
- Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppi.com

352-756-7377

Anderson Columbia



October 11, 2021

Anderson Columbia

871 NW Querdon St. Lake City, FL 32055

Dear Anderson Columbia,

Your organization is receiving this letter as a **provider** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
- Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppi.com

352-756-7377

Armstrong



October 11, 2021

Armstrong World Industries
2500 Columbia Ave Bldg 701, Lancaster, PA 17603

Dear Armstrong World Industries,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

Barry Pattern



October 11, 2021

Barry Pattern & Foundry, Inc
3333 36th Ave N, Birmingham, AL 35207

Dear Barry Pattern & Foundry, Inc,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at d.stephany@uf.edu](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Bell Concrete Products
2480 US-129, Bell, FL 32619

Dear **Bell Concrete**,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for **Option 2**, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for **Option 3**, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
- Please note**, these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377



October 11, 2021

Cemex
305 SW Depot Ave, Gainesville, FL 32601

Dear **Cemex**,

Your organization is receiving this letter as a **provider** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for **Option 3**, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377



October 11, 2021

CertainTeed

5080 Recker Hwy, Winter Haven, FL 33880

Dear CertainTeed,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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 - Use of energy, water, and toxics,
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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
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- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377



October 11, 2021

Cherokee Brick

3250 Waterville Rd, Macon, GA 31206

Dear Cherokee Brick,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

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 - Use of energy, water, and toxics,
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 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
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- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

ClarkDietrich
38020 Pulp Dr, Dade City, FL 33523

Dear ClarkDietrich,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

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Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

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Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

Clear Image Signs
1901 NW 67th Pl Unit A, Gainesville, FL 32653

Dear Clear Image Signs,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

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Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Cubic Transportation



October 11, 2021

Cubic Transportation Systems, Inc
1308 South Washington St, Tullahoma, TN 37388

Dear Cubic Transportation Systems, Inc,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

(2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
nolan.davis@cppi.com
352-756-7377

DCP



October 11, 2021

Don Construction Products
2826 Lineberger Industrial Dr, Lancaster, SC 29720

Dear Don Construction Products,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Dow Corning
760 Hodgenville Rd, Elizabethtown, KY 42701

Dear Dow Corning,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note, these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377



October 11, 2021

DuPont
1467 Prosser Dr SE, Dalton, GA 30721

Dear DuPont,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note, these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

Elixon Wood Products



October 11, 2021

Elixon Wood Products
18976 NW 84th Ave, Starke, FL 32091

Dear Elixon Wood Products,

Your organization is receiving this letter as a provider of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

Garden State Tile



October 11, 2021

Garden State Tile
2500 Abercorn St, Savannah, GA 31401

Dear Garden State Tile,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

GCP Applied Technologies Inc
2325 Lakeview Pkwy Suite 450, Alpharetta, GA 30009

Dear GCP Applied Technologies Inc,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

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- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
- Please note:** these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at \[d.stephany@uf.edu\]\(mailto:d.stephany@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

Gulf Coast Supply & Manufacturing
14429 SW 2nd PL G30, Newberry, FL 32669

Dear Gulf Coast Supply & Manufacturing,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

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- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).
- Please note:** these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Handi-Hut



October 11, 2021

Handi-Hut Inc
3 Grunwald St, Clifton, NJ 07013

Dear Handi-Hut, Inc.

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics.
- Releases of key pollutants to air and water.
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

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 - Use of energy, water, and toxics.
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- (2 of the 3) categories below:
 - Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

HD Whitecap



October 11, 2021

HD Whitecap
11416 BW Hwy 441, Gainesville, FL 32653

Dear HD Whitecap,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- (2 of the 3) categories below:
 - Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377



October 11, 2021

Holt Metals & Fabrication
24593 NW 9th PL, Newberry, FL 32669

Dear Holt Metals & Fabrication,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
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- Use of energy, water, and toxics,
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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

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Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

Home Depot
7107 NW 4th Blvd, Gainesville, FL 32607

Dear Home Depot,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Hunter Industries



October 11, 2021

Hunter Industries
4501 Hunter Rd #9204, San Marcos, TX 78666

Dear Hunter Industries,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

Huntsman Building Solutions



October 11, 2021

Huntsman Building Solutions
10003 Woodloch Forest Dr, The Woodlands, TX 77380

Dear Huntsman Building Solutions,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

**Hutchinson
Welding**



October 11, 2021

Hutchinson Welding & Repair
1053 Hwy 17, Satsuma, FL 32189

Dear Hutchinson Welding & Repair,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
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- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note, these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

JM Eagle



October 11, 2021

JM Eagle
2101 J-M Dr, Adel, GA 31620

Dear JM Eagle,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
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To help us achieve 3 points for Option 2, please provide one of the following:

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- Use of energy, water, and toxics,
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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
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- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note, these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at \[dsteph@uf.edu\]\(mailto:dsteph@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Kawneer



October 11, 2021

Kawneer
4645 L B McLeod Rd, Orlando, FL 32811

Dear **Kawneer**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- (2 of the 3) categories below:
 - Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

Keystone Ridge Designs



October 11, 2021

Keystone Ridge Designs, Inc
670 Mercer Rd, Butler, PA 16001

Dear **Keystone Ridge Designs, Inc.**,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Landscape Forms



October 11, 2021

Landscape Forms
7800 E Michigan Ave, Kalamazoo, MI 49048

Dear **Landscape Forms**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
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 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

LG



October 11, 2021

LG Electronics
111 Sylvan Ave, Englewood Cliffs, NJ 07632

Dear **LG Electronics**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppl.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Limerock Industries



October 11, 2021

Limerock Industries
2500 NW 202nd St, Newberry, FL 32669

Dear Limerock Industries,

Your organization is receiving this letter as a **provider** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

Ludowici



October 11, 2021

Ludowici
4757 Tile Plant Rd, New Lexington, OH 43764

Dear Ludowici,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

Master Builders Solutions



October 11, 2021

Master Builders Solutions

889 Valley Park Dr S, Shakopee, MN 55379

Dear **Master Builders Solutions**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppl.com

352-756-7377

Max-R



October 11, 2021

Max-R

W248 N5499 Executive Dr, Sussex, WI 53089

Dear **Max-R**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cppl.com

352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

NDS Inc.



October 11, 2021

NDS Inc
21300 Victory Blvd #215, Woodland Hills, CA 91367

Dear **NDS Inc**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions:** Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2) of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions:** Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption:** Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources:** Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use:** Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

OEC



October 11, 2021

OEC Business Interiors
1925 SW 18th Ct Ste 105, Ocala, FL 34471

Dear **OEC Business Interiors**,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions:** Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2) of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions:** Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption:** Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources:** Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use:** Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Oldcastle Infrastructure
12300 Presidents Ct, Jacksonville, FL 32220

Dear Oldcastle Infrastructure,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
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To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

O'Steen Bros, Inc
1006 SE 4th St, Gainesville, FL 32601

Dear O'Steen Bros,

Your organization is receiving this letter as a **provider** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Peak Racks



October 11, 2021

Peak Racks, Inc
870 Capitolio Way #5, San Luis Obispo, CA 93401

Dear Peak Racks, Inc,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at dsteph@uf.edu](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- (2 of the 3) categories below:
 - Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
 - Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
 - Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
 - Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
 - Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

Permaloc



October 11, 2021

Permaloc Corporation
13505 Barry St, Holland, MI 49424

Dear Permaloc Corporation,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- (2 of the 3) categories below:
 - Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

Nolan.davis@cpgi.com

352-756-7377

Perry Roofing



October 11, 2021

Perry Roofing
2505 NW 71st PL, Gainesville, FL 32653

Dear **Perry Roofing**,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/21/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Pine Hall Brick



October 11, 2021

Pine Hall Brick
2701 Shorefair Dr NW, Winston-Salem, NC 27105

Dear **Pine Hall Brick**,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Use of energy, water, and toxics,
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To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Rain Bird



October 11, 2021

Rain Bird Corporation
6991 E Southpoint Rd Bldg 2, Tucson, AZ 85756

Dear Rain Bird Corporation,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[dsteph@uf.edu\]\(mailto:dsteph@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
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 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at \[dsteph@uf.edu\]\(mailto:dsteph@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

Rainbow Cabinets



October 11, 2021

Rainbow Cabinets
4690 NE 35th St, Ocala, FL 34479

Dear Rainbow Cabinets,

Your organization is receiving this letter as a manufacturer of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to [Dustin Stephany from UF PD&C at \[dsteph@uf.edu\]\(mailto:dsteph@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:
 - Use of energy, water, and toxics,
 - Releases of key pollutants to air and water,
 - Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)
- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;
- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);
- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;
- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany from UF PD&C at \[dsteph@uf.edu\]\(mailto:dsteph@uf.edu\)](mailto:Dustin.Stephany@uf.edu) by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpgi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

**Sanderson
Pipe**



October 11, 2021

Sanderson Pipe Corporation
1 Enterprise Blvd, Sanderson, FL 32087

Dear Sanderson Pipe Corporation,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- Conducting a peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
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- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

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- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Notan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Notan.davis@cpqi.com
352-756-7377

**Sesco
Lighting**



October 11, 2021

Sesco Lighting
9250 Baymeadows Rd #350, Jacksonville, FL 32256

Dear SESCO Lighting,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Notan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Notan.davis@cpqi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Sherwin-Williams

101 W Prospect Ave, Cleveland, OH 44115

Dear Sherwin-Williams,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide one of the following:

- A report of annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
- A peer-reviewed full life-cycle assessment (LCA) or an environmental product declaration (EPD) for the product; OR
- Copies of public announcement regarding (or website link to) future environmental impact goals to reduce by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

(2 of the 3) categories below:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (3) categories below:
 - Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
 - Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
 - Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

nolan.davis@cppi.com

352-756-7377



October 11, 2021

Spec Mix

1230 Eagan Industrial Rd, Eagan, MN 55121

Dear Spec Mix,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES V2 Rating System and Scorecard) is available at www.sustainable sites.org.

SITES Credit 5.9: Support sustainability in materials manufacturing aims to support sustainability in materials manufacturing by specifying and using materials from manufacturers whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking for your organization to perform, track and disclose sustainable practices for all new products used for this project, in at least one of the following ways, by:

- Reporting annual environmental performance via the Global Reporting Initiative (GRI) or equivalent; OR
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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611

nolan.davis@cppi.com

352-756-7377

Spring Precast



October 11, 2021

Spring Precast
3782 US-280, Cobb, GA 31735

Dear Spring Precast,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377

SRM Concrete



October 11, 2021

SRM Concrete
116 NE 33rd Ave, Gainesville, FL 32609

Dear SRM Concrete,

Your organization is receiving this letter as a **provider** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

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- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

- Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

- Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

- Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

- Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

- Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and non-potable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

Sternberg Lighting



October 11, 2021

Sternberg Lighting
555 Lawrence Ave, Roselle, IL 60172

Dear Sternberg Lighting,

Your organization is receiving this letter as a **manufacturer** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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- Publicly announcing goals to reduce, by at least twenty-five (25) percent (per unit product or equivalent basis) over a five (5) year period, the company's performance metrics in the following categories:

- Use of energy, water, and toxics,
- Releases of key pollutants to air and water,
- Disposal of hazardous and non-hazardous wastes.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

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- Use of energy, water, and toxics,
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- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2 of the 3) categories below:

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
nolan.davis@cppi.com
352-756-7377

UF



October 11, 2021

University of Florida
Gainesville, FL 32608

Dear University of Florida,

Your organization is receiving this letter as a **supplier** of new products for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable sites.org.

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Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
nolan.davis@cppi.com
352-756-7377



October 11, 2021

Watson Construction
940 NW 247 Dr, Newberry, FL 32669

Dear Watson Construction,

Your organization is receiving this letter as a provider of new products for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainablebusiness.org.

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- Releases of key pollutants to air and water.
- Disposal of hazardous and non-hazardous wastes.

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- Releases of key pollutants to air and water.
- Disposal of hazardous and non-hazardous wastes.

To help us achieve 5 points for Option 3, please provide the documentation to demonstrate three or more of the following are conducted:

Emissions: Reports demonstrating reductions of at least fifty (50) percent overall or per unit of product in at least two of the three (2) of the 3) categories below:

- Emission of hazardous air pollutants (per U.S. Clean Air Act or local equivalent for projects outside of the U.S.)
- Emissions of toxic water pollutants (per U.S. Clean Water Act or local equivalent for projects outside of the U.S.)
- Generation of hazardous and non-hazardous waste (per U.S. Resource Conservation and Recovery Act or local equivalent for projects outside of the U.S.)

Greenhouse gas emissions: Emissions reports demonstrating that the three (3) lowest years for carbon emissions in the previous ten (10) years are at least twenty-five (25) percent better than the corresponding ten (10) year average (per unit of product) OR receipts for purchased carbon offsets from a legally binding trading system that provides independent third-party verification for twenty-five (25) percent of carbon emissions;

Reduced energy consumption: Documentation demonstrating consumption per unit of product of twenty-five (25) percent less energy than the industry average in the manufacturing process (consult the National Institute of Standards and Technology Building for Environmental and Economic Sustainability, the National Renewable Energy Laboratory U.S. Life-Cycle Inventory Database, or the Commercial Buildings Energy Consumption Survey for industry-specific data);

Use of renewable energy sources: Letter from the plant provider describing renewable energy sources to meet ten (10) percent of manufacturing electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources for the facility at which the product is made;

Reduction in potable water use: Calculations showing potable or other natural surface or subsurface water resources comprise less than twenty-five (25) percent and nonpotable sources comprise at least seventy-five (75) percent of the total water volume consumed in manufacturing the specified product line (the calculations should include a brief description of the non-potable water sources).

Please note: these requirements do not apply to rocks, plants, soils, or products that are salvaged, reused or refurbished.

If you have any questions regarding the requested information above, please email [Dustin Stephany](mailto:Dustin.Stephany@uf.edu) from UF PD&C at d.stephany@uf.edu by 12/1/2021. Otherwise, please email the requested documentation by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

D. C5.10 Letters

Blooming House Nursery



October 11, 2021

Blooming House Nursery
11802 NW 39th Ave, Gainesville, FL 32606

Dear **Blooming House Nursery**,

Your organization is receiving this letter as a **provider providing plants for UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

SITES Credit 5.10: Support sustainability in plant production aims to support sustainable practices in plant production by purchasing plants, sod, and seed from organizations whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to perform, track, and disclose sustainable practices in plant production. These efforts may include:

- Reduction of potable water use:** Use non-potable water (e.g., captured rainwater, recycled graywater, reclaimed/treated wastewater, water treated and conveyed by a public agency specifically for non-potable uses) for fifty (50) percent of the total annual irrigation volume OR reduce total irrigation volume by fifty (50) percent;
- Reduction of runoff from irrigation:** Capture and recycle all irrigation runoff water on site (i.e., no dry-weather discharges);
- Sustainable soil amendments / growing media:** Use peat-free growing media or other sustainable sources AND use cover crops and amend soils with compost, manure, or other sustainable sources;
- Organic matter recycling:** Compost or recycle one hundred (100) percent of vegetation trimmings on site for use in nursery operations or for sale to the public;
- Waste reduction:** Conduct a waste audit to identify the weight or volume of ongoing consumables, and reuse, recycle, or compost fifty (50) percent of the on-going consumables waste stream;
- Use of integrated pest management:** Employ a certified Integrated Pest Management (IPM) practitioner OR use an IPM-certified nursery;
- Prevention of invasive species:** Demonstrate that invasive species are managed and are not distributed;
- Reduced energy consumption:** Demonstrate that energy use during the three (3) most recent years is at least twenty-five (25) percent less than the average energy use over the previous ten (10) years;

- Use of renewable energy sources:** Use on-site renewable energy sources to meet ten (10) percent of electricity demands OR engage in at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Develop nursery employment policies that establish open communication with employees about issues such as workplace safety and job satisfaction.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

A publicly available sustainability statement disclosing efforts to achieve at least six of ten (6 of 10) sustainable practices in plant production, listed above.

To help us achieve 5 points for Option 3, please provide the following documentation to demonstrate that at least six significant improvements in sustainable practices have been achieved:

- Reduction of potable water use:** Calculations showing the use of non-potable water for fifty (50) percent of the total annual irrigation volume OR a reduction in total irrigation volume of at least fifty (50) percent, AND a brief description of the availability and sources of non-potable water used for irrigation;
- Reduction of runoff from irrigation:** Letter describing the methods by which all irrigation runoff water used in plant production is captured and recycled;
- Use of sustainable soil amendments / growing media:** Letter describing growing media used in plant production and verifying these media are peat-free and, where applicable, that cover crops have been used and soils amended with compost, manure, or other sustainable sources;
- Organic matter recycling:** Letter describing the process for composting and recycling one hundred (100) percent of vegetation trimmings on site, including a description of the end use of the compost produced such as use in nursery operations or for sale to the public;
- Waste reduction:** A copy of a waste audit identifying the weight or volume of ongoing consumables and a description of the process for reusing, recycling, or composting at least fifty (50) percent of the ongoing consumables waste stream;
- Use of integrated pest management:** Letter stating the name of the Integrated Pest Management (IPM) practitioner OR a copy of the certification of an IPM-certified nursery;
- Prevention of invasive species:** Letter describing the invasive species management plan and demonstrating precluding that invasive species are not distributed;
- Reduced energy consumption:** Calculations based on utility bills demonstrating that energy use during the three (3) most recent years is at least twenty-five (25) percent less than the average energy use over the previous ten (10) years;
- Use of renewable energy sources:** Letter describing renewable energy sources and demonstrating on-site use of renewable energy sources to meet ten (10) percent of electricity demands OR at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Copy of the employment policy that establishes open communication with employees about issues such as workplace safety and job satisfaction.

Please note: If multiple businesses are involved in plant production, this request applies to the business that grows the plant material until it's ready for sale (finishes the plant material).

If you have any questions regarding the requested information above, please email **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **12/1/2021**. Otherwise, please email the requested documentation by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

Cherry Lake Tree Farm



October 11, 2021

Cherry Lake Tree Farm
7836 Cherry Lake Rd, Groveland, FL 34736

Dear **Cherry Lake Tree Farm**,

Your organization is receiving this letter as a **supplier providing plants for UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

SITES Credit 5.10: Support sustainability in plant production aims to support sustainable practices in plant production by purchasing plants, sod, and seed from organizations whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to perform, track, and disclose sustainable practices in plant production. These efforts may include:

- Reduction of potable water use:** Use non-potable water (e.g., captured rainwater, recycled graywater, reclaimed/treated wastewater, water treated and conveyed by a public agency specifically for non-potable uses) for fifty (50) percent of the total annual irrigation volume OR reduce total irrigation volume by fifty (50) percent;
- Reduction of runoff from irrigation:** Capture and recycle all irrigation runoff water on site (i.e., no dry-weather discharges);
- Sustainable soil amendments / growing media:** Use peat-free growing media or other sustainable sources AND use cover crops and amend soils with compost, manure, or other sustainable sources;
- Organic matter recycling:** Compost or recycle one hundred (100) percent of vegetation trimmings on site for use in nursery operations or for sale to the public;
- Waste reduction:** Conduct a waste audit to identify the weight or volume of ongoing consumables, and reuse, recycle, or compost fifty (50) percent of the on-going consumables waste stream;
- Use of integrated pest management:** Employ a certified Integrated Pest Management (IPM) practitioner OR use an IPM-certified nursery;
- Prevention of invasive species:** Demonstrate that invasive species are managed and are not distributed;
- Reduced energy consumption:** Demonstrate that energy use during the three (3) most recent years is at least twenty-five (25) percent less than the average energy use over the previous ten (10) years;

- Use of renewable energy sources:** Use on-site renewable energy sources to meet ten (10) percent of electricity demands OR engage in at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Develop nursery employment policies that establish open communication with employees about issues such as workplace safety and job satisfaction.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at d.stephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

A publicly available sustainability statement disclosing efforts to achieve at least six of ten (6 of 10) sustainable practices in plant production, listed above.

To help us achieve 5 points for Option 3, please provide the following documentation to demonstrate that at least six significant improvements in sustainable practices have been achieved:

- Reduction of potable water use:** Calculations showing the use of non-potable water for fifty (50) percent of the total annual irrigation volume OR a reduction in total irrigation volume of at least fifty (50) percent, AND a brief description of the availability and sources of non-potable water used for irrigation;
- Reduction of runoff from irrigation:** Letter describing the methods by which all irrigation runoff water used in plant production is captured and recycled;
- Use of sustainable soil amendments / growing media:** Letter describing growing media used in plant production and verifying these media are peat-free and, where applicable, that cover crops have been used and soils amended with compost, manure, or other sustainable sources;
- Organic matter recycling:** Letter describing the process for composting and recycling one hundred (100) percent of vegetation trimmings on site, including a description of the end use of the compost produced such as use in nursery operations or for sale to the public;
- Waste reduction:** A copy of a waste audit identifying the weight or volume of ongoing consumables and a description of the process for reusing, recycling, or composting at least fifty (50) percent of the ongoing consumables waste stream;
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- Prevention of invasive species:** Letter describing the invasive species management plan and demonstrating precluding that invasive species are not distributed;
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- Safe and fair working conditions:** Copy of the employment policy that establishes open communication with employees about issues such as workplace safety and job satisfaction.

Please note: If multiple businesses are involved in plant production, this request applies to the business that grows the plant material until it's ready for sale (finishes the plant material).

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION

**Elixson
Wood
Products**



October 11, 2021

Elixson Wood Products
18876 NW 64th Ave, Starke, FL 32091

Dear **Elixson Wood Products**,

Your organization is receiving this letter as a **provider providing sod/mulch** for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

SITES Credit 5.10: Support sustainability in plant production aims to support sustainable practices in plant production by purchasing plants, sod, and seed from organizations whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to perform, track, and disclose sustainable practices in plant production. These efforts may include:

- Reduction of potable water use:** Use non-potable water (e.g., captured rainwater, recycled graywater, reclaimed/treated wastewater, water treated and conveyed by a public agency specifically for non-potable uses) for fifty (50) percent of the total annual irrigation volume OR reduce total irrigation volume by fifty (50) percent;
- Reduction of runoff from irrigation:** Capture and recycle all irrigation runoff water on site (i.e., no dry-weather discharges);
- Sustainable soil amendments / growing media:** Use peat-free growing media or other sustainable sources AND use cover crops and amend soils with compost, manure, or other sustainable sources;
- Organic matter recycling:** Compost or recycle one hundred (100) percent of vegetation trimmings on site for use in nursery operations or for sale to the public;
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- Reduced energy consumption:** Demonstrate that energy use during the three (3) most recent years is at least twenty-five (25) percent less than the average energy use over the previous ten (10) years;

- Use of renewable energy sources:** Use on-site renewable energy sources to meet ten (10) percent of electricity demands OR engage in at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Develop nursery employment policies that establish open communication with employees about issues such as workplace safety and job satisfaction.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

A publicly available sustainability statement disclosing efforts to achieve at least six of ten (6 of 10) sustainable practices in plant production, listed above.

To help us achieve 5 points for Option 3, please provide the following documentation to demonstrate that at least six significant improvements in sustainable practices have been achieved:

- Reduction of potable water use:** Calculations showing the use of non-potable water for fifty (50) percent of the total annual irrigation volume OR a reduction in total irrigation volume of at least fifty (50) percent, AND a brief description of the availability and sources of non-potable water used for irrigation;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

**Half Moon
Growers**



October 11, 2021

Half Moon Growers
21704 SW 30th Ave, Newberry, FL 32669

Dear **Half Moon Growers**,

Your organization is receiving this letter as a **provider providing plants** for **UF-656 Landscape Master Plan Project**, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to perform, track, and disclose sustainable practices in plant production. These efforts may include:

- Reduction of potable water use:** Use non-potable water (e.g., captured rainwater, recycled graywater, reclaimed/treated wastewater, water treated and conveyed by a public agency specifically for non-potable uses) for fifty (50) percent of the total annual irrigation volume OR reduce total irrigation volume by fifty (50) percent;
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- Use of renewable energy sources:** Use on-site renewable energy sources to meet ten (10) percent of electricity demands OR engage in at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Develop nursery employment policies that establish open communication with employees about issues such as workplace safety and job satisfaction.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from **UF PD&C** at dstephany@uf.edu by **1/1/2022** along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

A publicly available sustainability statement disclosing efforts to achieve at least six of ten (6 of 10) sustainable practices in plant production, listed above.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Rode Groundcovers, Inc
13050 W Hwy 318, Williston, FL 32096

Dear Rode Groundcovers, Inc,

Your organization is receiving this letter as a provider providing plants for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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To help us achieve 3 points for Option 2, please provide the following:

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377

- Use of renewable energy sources:** Use on-site renewable energy sources to meet ten (10) percent of electricity demands OR engage in at least a four (4) year contract for the purchase of twenty (20) percent of electricity from renewable energy sources;
- Safe and fair working conditions:** Develop nursery employment policies that establish open communication with employees about issues such as workplace safety and job satisfaction.

To demonstrate to GBCI that the requirements are met for this credit, please email the following documentation to **Dustin Stephany** from UF PD&C at dstephany@uf.edu by 1/1/2022 along with a copy of this letter, indicating which documents are provided by checking the appropriate box.

To help us achieve 3 points for Option 2, please provide the following:

A publicly available sustainability statement disclosing efforts to achieve at least six of ten (6 of 10) sustainable practices in plant production, listed above.

To help us achieve 5 points for Option 3, please provide the following documentation to demonstrate that at least six significant improvements in sustainable practices have been achieved:

- Reduction of potable water use:** Calculations showing the use of non-potable water for fifty (50) percent of the total annual irrigation volume OR a reduction in total irrigation volume of at least fifty (50) percent, AND a brief description of the availability and sources of non-potable water used for irrigation;
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- Use of sustainable soil amendments / growing media:** Letter describing growing media used in plant production and verifying these media are peat-free and, where applicable, that cover crops have been used and soils amended with compost, manure, or other sustainable sources;
- Organic matter recycling:** Letter describing the process for composting and recycling one hundred (100) percent of vegetation trimmings on site, including a description of the end use of the compost produced such as use in nursery operations or for sale to the public;
- Waste reduction:** A copy of a waste audit identifying the weight or volume of ongoing consumables and a description of the process for reusing, recycling, or composting at least fifty (50) percent of the ongoing consumables waste stream;
- Use of integrated pest management:** Letter stating the name of the Integrated Pest Management (IPM) practitioner OR a copy of the certification of an IPM-certified nursery;
- Prevention of invasive species:** Letter describing the invasive species management plan and demonstrating precluding that invasive species are not distributed;
- Reduced energy consumption:** Calculations based on utility bills demonstrating that energy use during the three (3) most recent years is at least twenty-five (25) percent less than the average energy use over the previous ten (10) years;
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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis

Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cppi.com
352-756-7377



October 11, 2021

Tater Farms
9350 Hastings Blvd, Hastings, FL 32145

Dear Tater Farms,

Your organization is receiving this letter as a supplier providing sod for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

SITES Credit 5.10: Support sustainability in plant production aims to support sustainable practices in plant production by purchasing plants, sod, and seed from organizations whose practices increase energy efficiency, reduce resource consumption and waste, and minimize negative effects on human health and the environment.

To meet the intent of this credit and earn respective points in the SITES Rating System, we are asking your organization to perform, track, and disclose sustainable practices in plant production. These efforts may include:

- Reduction of potable water use:** Use non-potable water (e.g., captured rainwater, recycled graywater, reclaimed/treated wastewater, water treated and conveyed by a public agency specifically for non-potable uses) for fifty (50) percent of the total annual irrigation volume OR reduce total irrigation volume by fifty (50) percent;
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SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

TNT Nursery
11802 NW 39th Ave, Gainesville, FL 32606

Dear TNT Nursery,

Your organization is receiving this letter as a provider providing plants for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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October 11, 2021

University of Florida
Gainesville, FL 32608

Dear University of Florida,

Your organization is receiving this letter as a supplier providing plants for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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Thank you for your participation in SITES and for your part in making sustainable places.

Sincerely,

Nolan Davis
Charles Perry Partners, Inc.
300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377

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300 SW 13th St, Gainesville, FL 32611
Nolan.davis@cpqi.com
352-756-7377



SECTION 5: SITE DESIGN – MATERIALS SELECTION



October 11, 2021

Woerner Farms
13011 NE 80th Ave, Bronson, FL 32621

Dear Woerner Farms,

Your organization is receiving this letter as a provider providing sod for UF-656 Landscape Master Plan Project, which is seeking certification via the Sustainable Sites Initiative® (SITES®). SITES offers a comprehensive rating system designed to distinguish sustainable sites, measure their performance, and elevate the value of landscapes. It is administered by the Green Business Certification Inc. (GBCI) and more information about the program (including a free download of the SITES v2 Rating System and Scorecard) is available at www.sustainable-sites.org.

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SECTION 6: SITE DESIGN | HUMAN HEALTH + WELL BEING

CREDIT	TITLE	POINTS
HHWB 6.1	Protect and maintain cultural and historic places	3 points
HHWB 6.2	Provide optimum site accessibility, safety, and wayfinding	2 points
HHWB 6.3	Promote equitable site use	2 points
HHWB 6.4	Support mental restoration	2 points
HHWB 6.5	Support physical activity	2 points
HHWB 6.6	Support social connection	2 points
HHWB 6.8	Reduce light pollution	4 points
HHWB 6.10	Minimize exposure to environmental tobacco smoke	2 points
HHWB 6.11	Support local economy	3 points

CREDIT 6.1 | PROTECT AND MAINTAIN CULTURAL AND HISTORIC PLACES

Narrative

Goal: 3 points

The UF campus is remarkable among large public institutions in the United States for its ongoing expression of social and architectural change within a context of architectural compatibility. This cohesive character is the beneficiary of 3 historic eras: implementation of the original campus plan from 1905-1925, coalescence and enhancement from 1925-1944, and compatible transition to modern ideals from 1944-1956.

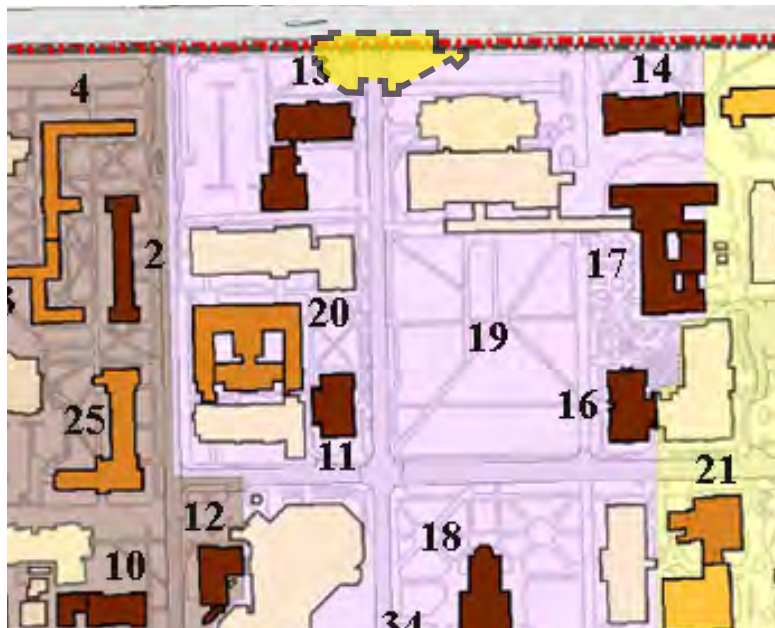
The University of Florida has preserved a noteworthy archive of campus plan updates since 1905, original architectural drawings and specifications, and archival photographs. At the forefront in preservation education, UF has an established program in Historic Preservation dating from the late 1960s.

Source: <https://historic.facilities.ufl.edu/>

Site Photographs and Maps



- 1 Thomas Hall
- 2 Buckman Hall
- 3 Sledd Hall
- 4 Fletcher Hall
- 5 Murphree Hall
- 6 Women's Gym/Ustler Hall
- 7 Florida Pool
- 8 Florida Field
- 9 Florida Gym
- 10 Newell Hall
- 11 Griffin-Floyd Hall
- 12 Rolfs Hall
- 13 Keene-Flint Hall
- 14 Anderson Hall
- 15 Bryan Hall
- 16 Peabody Hall
- 17 Smathers Library East
- 18 University Auditorium
- 19 Plaza of the Americas
- 20 Leigh Hall
- 21 Walker Hall
- 22 University Police Dept.
- 23 The Infirmary
- 24 Norman Hall
- 25 Dauer Hall
- 26 Dairy Science Bldg.
- 27 Weil Hall
- 28 Tigert Hall
- 29 Mallory/Yulee/Reid
- 30 Tolbert
- 31 Broward Hall
- 32 McCarty Hall
- 33 The Hub
- 34 Century Tower
- 35 Matherly Hall
- 36 Carlton Auditorium
- 37 Flavel Field
- 38 President's Home



LEGEND

<ul style="list-style-type: none"> Edwards Era Buildings Weaver Era Buildings Fulton Era Buildings 	<ul style="list-style-type: none"> East Context Zone Central Context Zone West Context Zone 	<ul style="list-style-type: none"> South Context Zone & Contributory Sites National Register District UF Historic District Area of Impact
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Documentation

NPS Form 10-900
(Rev. 6-86)

OMB No. 1024-0018

United States Department of the Interior
National Park Service

MAR 24 1989

National Register of Historic Places
Registration Form

NATIONAL
REGISTER

This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines for Completing National Register Forms* (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

1. Name of Property

historic name University of Florida Campus Historic District
other names/site number N/A 8AL 2552

2. Location

street & number See Continuation Sheet N/A not for publication
city, town Gainesville N/A vicinity
state Florida code FL county Alachua code 001 zip code 32611

3. Classification

Ownership of Property	Category of Property	Number of Resources within Property	
		Contributing	Noncontributing
<input type="checkbox"/> private	<input type="checkbox"/> building(s)		
<input type="checkbox"/> public-local	<input checked="" type="checkbox"/> district	<u>8</u>	<u>11</u> buildings
<input checked="" type="checkbox"/> public-State	<input type="checkbox"/> site		<u>1</u> sites
<input type="checkbox"/> public-Federal	<input type="checkbox"/> structure		<u>1</u> structures
	<input type="checkbox"/> object		<u>8</u> objects
		<u>8</u>	<u>12</u> Total

Name of related multiple property listing: N/A
Number of contributing resources previously listed in the National Register 11

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1966, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Charles W. DeLoach 3/13/89
Signature of certifying official Date
State Historic Preservation Officer
State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official Date

State or Federal agency and bureau

5. National Park Service Certification

I, hereby, certify that this property is:

entered in the National Register.
 See continuation sheet.

determined eligible for the National Register. See continuation sheet.

determined not eligible for the National Register.

removed from the National Register.

other, (explain:)

Adores Byers Entered in the National Register 4/20/89

Signature of the Keeper Date of Action

Source: <https://npgallery.nps.gov/NRHP/AssetDetail?assetID=25bf96c5-3404-48ca-8d85-5ae8fa4055fc>



Business Affairs
Planning, Design & Construction

232 Stadium
PO Box 115050
Gainesville, FL 32611-5050
352-273-4000
352-273-4034 Fax

July 13, 2021

Subject: UF-656/Newell Gateway SITES, Cultural and Historic Places

To Whom It May Concern:

The Planning, Design and Construction Division of the University of Florida is responsible for campus planning including preservation of the university's historic and cultural assets. As Director of Planning, my role includes project review and coordination with the Florida Division of Historical Resources (FDHR).

The Newell Gateway project is located within the University of Florida Campus Historic District as listed in the National Register of Historic Places on April 20, 1989 and referenced in the Florida Master Site File as 8AL-2552. The project is immediately adjacent to Flint Hall (1910) that was individually listed in the National Register of Historic Places in 1979 along with several other buildings now included in the District. The Newell Gateway is also proximate to, and connects with, the Plaza of the Americas site that was added as a contributing resource to the District in 2008.

The University of Florida works to preserve these historic and cultural assets through its internal processes and Programmatic Memorandum of Agreement with the FDHR. The Newell Gateway project was designed to be compatible with its historic context.

Sincerely,

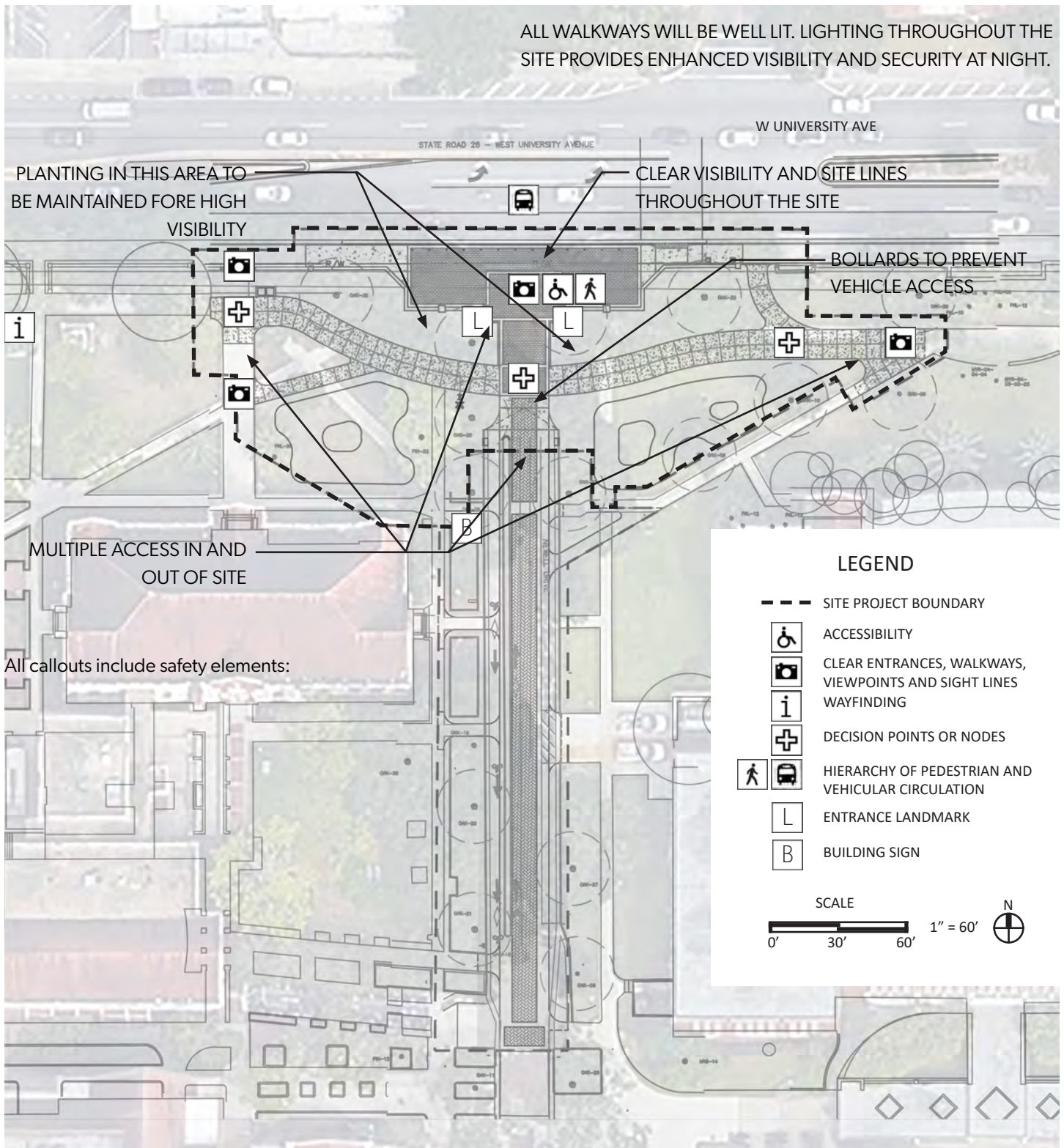
A handwritten signature in blue ink, appearing to read 'Linda B. Dixon', with a stylized flourish at the end.

Linda B. Dixon, AICP
Director of Planning

CREDIT 6.2 | PROVIDE OPTIMUM SITE ACCESSIBILITY, SAFETY, AND WAYFINDING

Site plan

Goal: 2 points



Photos



CREDIT 6.3 | PROMOTE EQUITABLE SITE USE

Narrative

Goal: 2 points

The University of Florida's Landscape Master Plan represents a collaboration of the design team with the University's Planning, Design and Construction Division (PDC), the LMP Steering Committee, the combined LMP and Civic Spaces Stakeholder Committee, the Department of Landscape Architecture, members of the administration, University leadership and the City of Gainesville. The collaboration began with a review of existing plans, an exploration of the campus and the collection of observations by the design team, the gathering of data from committee members, and meetings with members of the community to gain a further understanding of the campus.

A compilation of this large amount of information led to the identification of a vision for the campus landscape to serve as a framework for the LMP. Additional input from campus stakeholders following the design team's presentation of the landscape vision refined the team's understanding of the campus and identified thirteen campus areas to be studied in more detail. The Newell Gateway is one of the thirteen campus areas and was selected for its critical contribution to an enhanced campus landscape and for its ability to serve as a model to guide the enhancement of similar campus spaces in the future.

The Newell Gateway serves as an entry point into the University of Florida's campus. Due to its central location in the larger community, the University of Florida main campus is also an integral part of the City of Gainesville and Alachua County. As such, the community gateways, campus entry features, perimeter appearance and overall urban form of the campus is of vital community importance. The gateways are conceived as entry features that provide access, orientation and amenities through design features such as signage and intersection treatments. Major gateways shall be designed to enhance access for motor vehicles, pedestrians and bicyclists and include significant entry features and signage. The University shall work with the City of Gainesville, Alachua County and the Florida Department of Transportation to improve access and aesthetics on Gateway Roads through university participation on the Metropolitan Transportation Planning Organization and its committees, and any special interest groups or local government committees as may be created to address such issues. The University shall finalize and implement the Wayfinding Plan for main campus and its environs in coordination with the City of Gainesville and Florida Department of Transportation. The Newell Gateway site is open for free public access and provides amenities for a variety of activities including seating, shade, walkways/ bicycle paths, bicycle parking, and open lawn spaces. There will also be free, accessible WiFi through the campus programs. The free WiFi will allow users to access the internet on site through their devices.

Feedback and needs of the local community were taken into account while designing the Newell Gateway. Suggestions were taken from the Landscape Master Plan meetings, see Appendices (A). Such feedback that was incorporated into the design were improved stormwater management strategies, enhanced campus connections, and elements that create unique photo opportunities. These suggestions included: seating, shade walkways/bicycle parking and more open lawn spaces.

The Newell Gateway is easily accessible and accommodates for all types of members of the community. The University will ensure equal access to university facilities, services and resources for individuals regardless of physical ability through application of universal design concepts. This allows for the site to be used beyond the primary user groups. The Newell Gateways serves as an inviting entrance into UF's historic district and helps transition the campus into the Gainesville community.

Letter



Business Affairs
Planning, Design & Construction

232 Stadium
PO Box 115050
Gainesville, FL 32611-5050
352-273-4000
352-273-4034 Fax

July 13, 2021

Subject: UF-656/Newell Gateway SITES, Equitable Site Use

To Whom It May Concern:

The University of Florida is a top-ranked public research university nestled in the heart of the City of Gainesville. It is a Land Grant University and part of Florida's State University System. The City and University collaborate in many ways and strive for connectivity between the campus and community. The Newell Gateway project is an important part of that connectivity reaching from the north side of campus toward the Midtown District and established neighborhoods. The gateway is designed to be a welcoming feature that guides entry to the campus. It implements the vision and guiding principles of our Landscape Master Plan to "Great Gainesville with a Welcoming and Integrated Urban Experience." This sentiment is echoed in other planning documents of the university.

The Newell Gateway site is open for free public access and provides amenities for a variety of activities including seating, shade, walkways/bicycle paths, bicycle parking, and open lawn spaces.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda B. Dixon', with a stylized flourish at the end.

Linda B. Dixon, AICP
Director of Planning

CREDIT 6.4 | SUPPORT MENTAL RESTORATION

Narrative

Goal: 2 points

The site provides a visual and physical access to vegetation along the pathways throughout the site. Overhead tree canopy makes up a majority of the site, so users will feel entirely enclosed within vegetation. A brick wall that runs parallel with the W. University Ave., on the northern edge of the site, offers a visual and noise buffer from the busy road.

Total Number of Site Users: 120

Site Plan



CREDIT 6.5 | SUPPORT PHYSICAL ACTIVITY

Narrative

Goal: 2 points

There are many activities in which site users occupy this gateway project. The two most distinct community-wide scheduled events include the Johnny Townsend Gator Gallop Fundraising Event and the homecoming parade. Both of these events are not coordinated through the University of Florida and are not considered campus events. These events occur once a year.

The four largest district user groups are as follows: (1) The general student body, (2) the general public, (3) University of Florida staff, (4) University of Florida Faculty. Each of these user groups are significantly benefit from the features of these specialty events and bicycle network. As mention, the parade is organized by the citizens, for citizens and also the University of Florida as these events occur during Homecoming Week. Both the parade and fund raising events will include a large group of site users for a few hours during the day. As site users frequent the gateway, they will observe and experience the University's development of a more pedestrian friendly environment.

Total Number of Site Users: 120

Gator Gallop Route



The Gator Gallop is an exciting fun run where students and the Gainesville community race through campus, on average sees around 400-500 attendees.

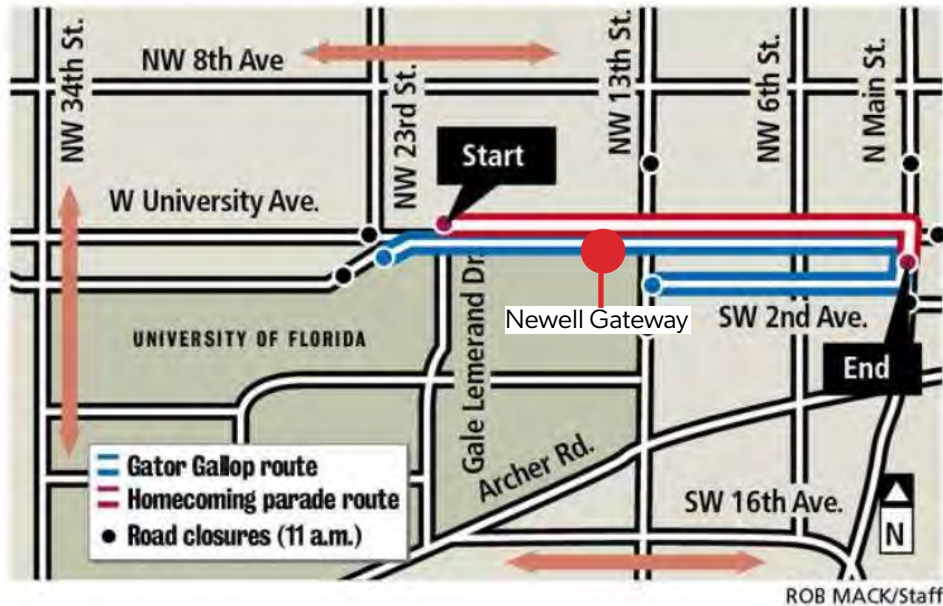


Homcoming and Gator Growl Route

Homecoming parade route and road closures

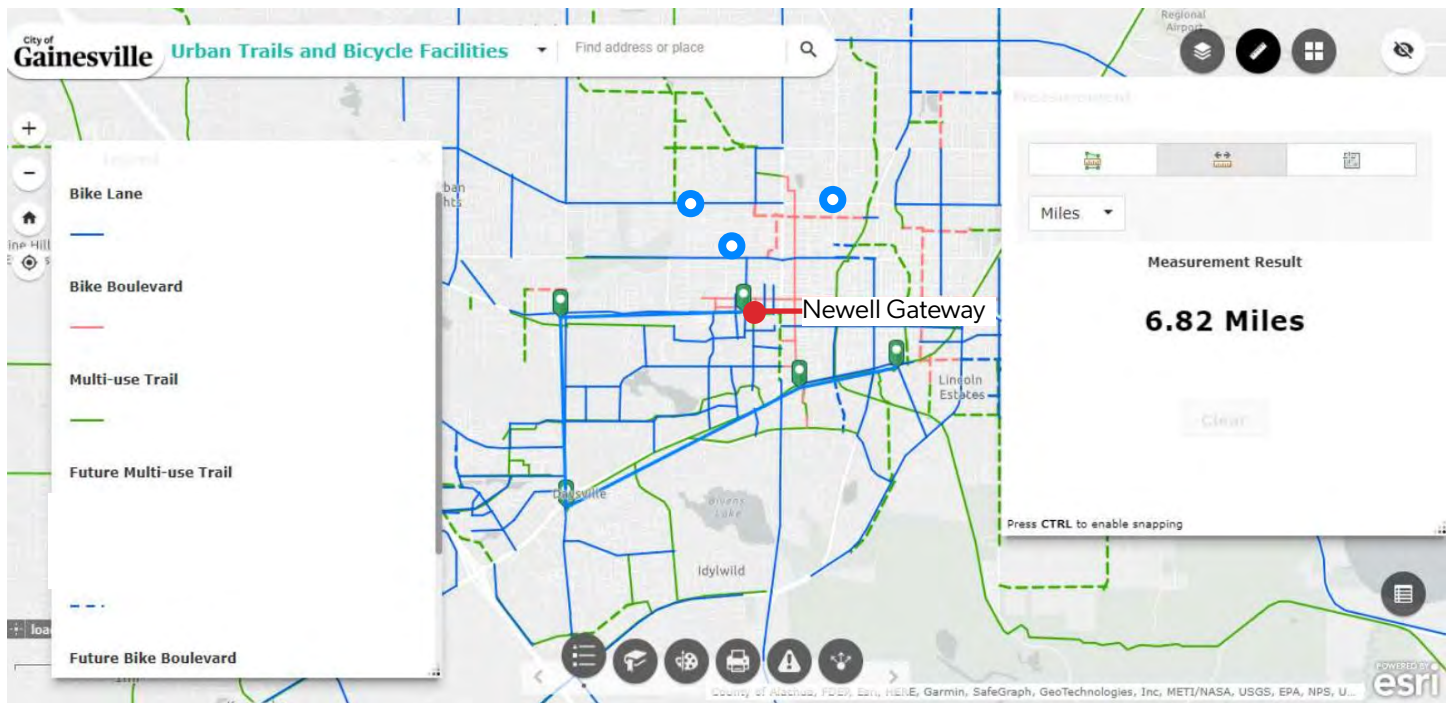
CLOSURES: Beginning today at 11 a.m. until the end of the parade. Main Street from the south 200 block to the north 400 block; University Avenue from the west 2000 block to the east 300 block; and 13th Street from the south 300 block to the north 400 block. The 2300 block of SW 2nd Avenue also will be closed.

ALTERNATE ROUTES: 34th Street and Waldo Road for north and south, and either SW 16th Avenue or NW 8th Avenue for those traveling east and west.



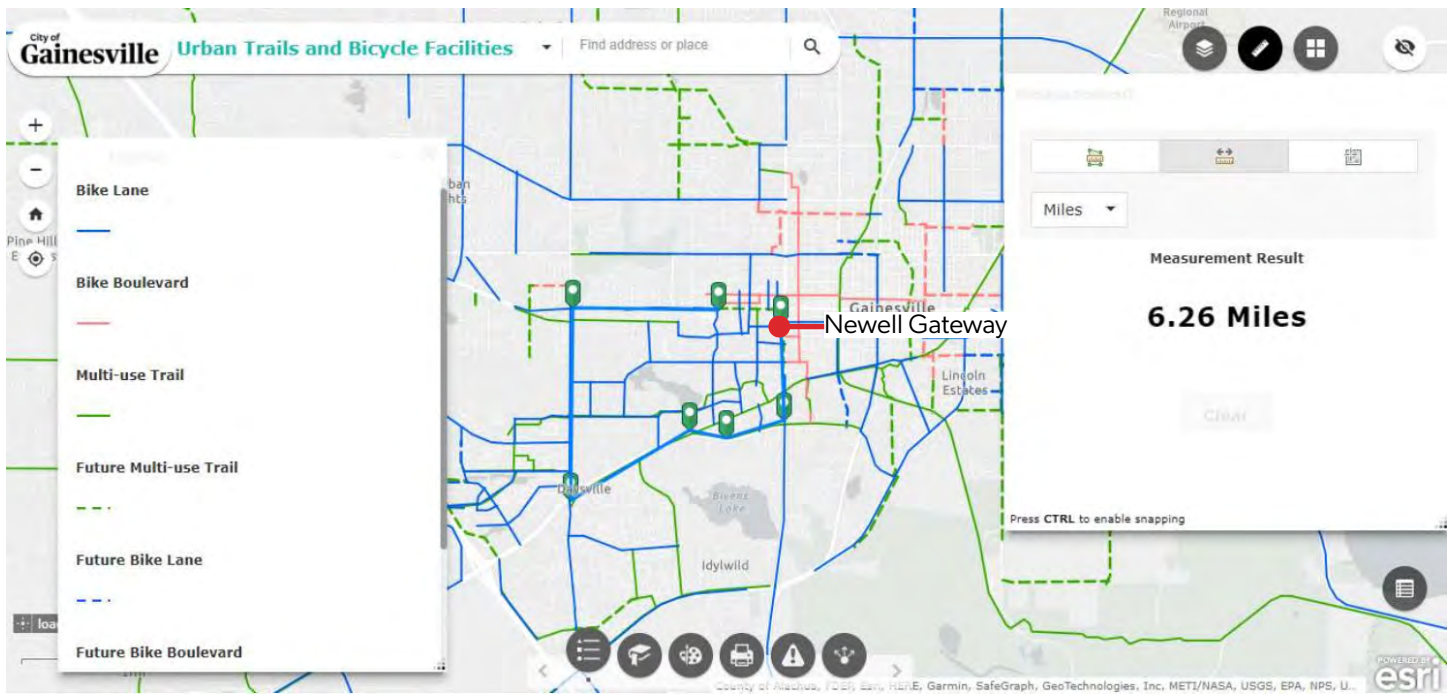
The Gator Growl is a student-run pep rally at the University of Florida that was founded in 1924. It marks the culmination of Homecoming Week at the university.

Bicycle Routes



This gateway directly connects with the University of Florida and City of Gainesville bicycle network. Below shows the Gateway location and measures more than 6 miles of bicycle network both on and off campus. The key indicates various types of bicycle lanes within the network. Both the University and City are working together to improve current League of American Bikers silver level ranking.

Bicycle Routes



This gateway directly connects with the University of Florida and City of Gainesville bicycle network. Below shows the Gateway location and measures more than 6 miles of bicycle network both on and off campus. The key indicates various types of bicycle lanes within the network. Both the University and City are working together to improve current League of American Bikers silver level ranking.



CREDIT 6.6 | SUPPORT SOCIAL CONNECTION

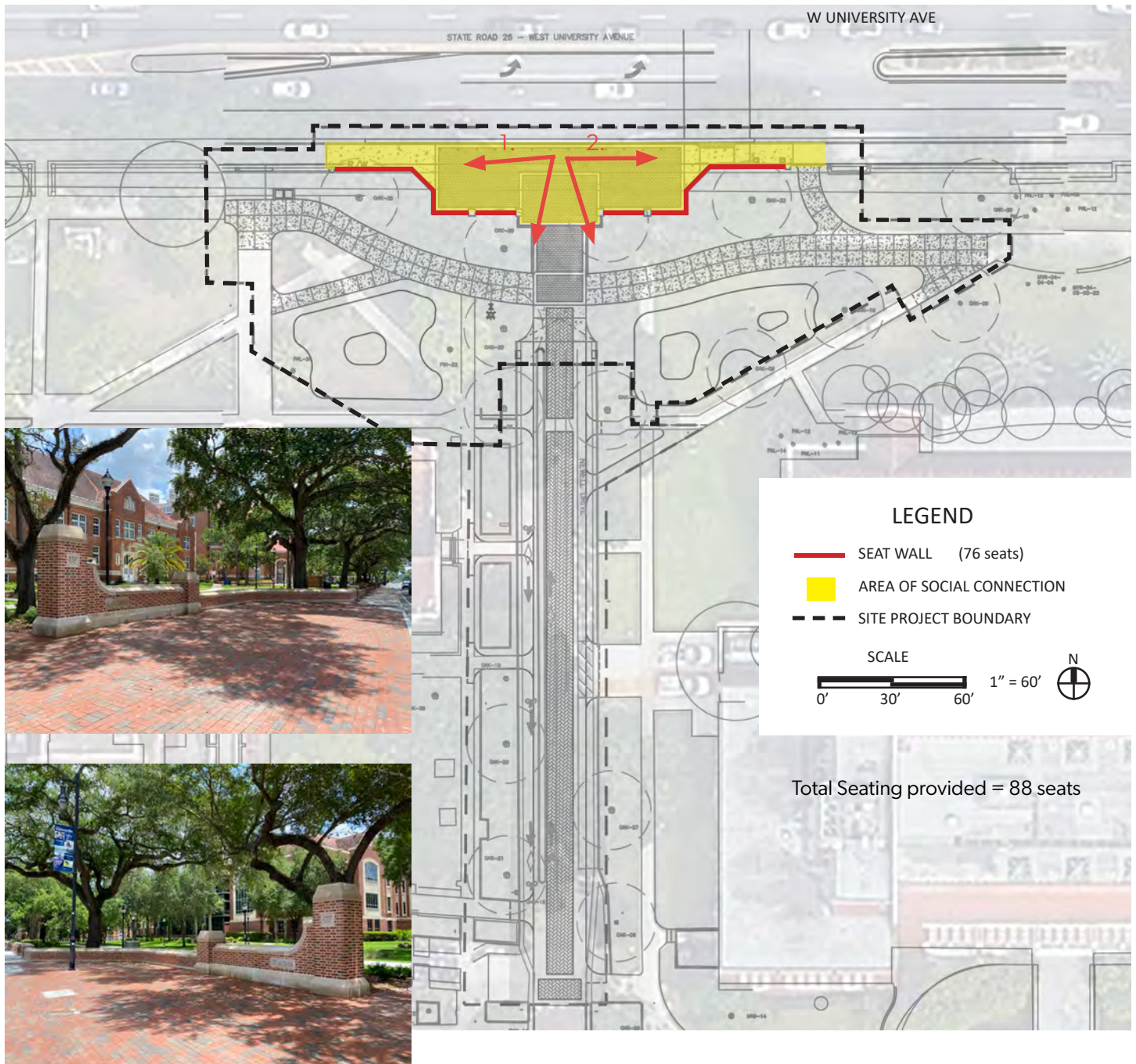
Site plan

Goal: 2 points

The site encourages social connections through shared pathways and open amenities that allow users to interact and engage within the space. Enclosure from the brick walls along the perimeter and overhead canopy above, the interior area feels separate from the noise from University Ave as well as providing a shaded and cooler environment from the sun. The “Krishna Lunch” is currently one social activity that already takes place on site. The lunch serves around 1,000 plates a day Mon.-Fri. while school is in session. There is no charge: a donation of \$5 is requested to cover costs, but organizers say no one will ever go away hungry. On top of that, Krishna Lunch is one of the largest suppliers of cooked meals for Gainesville’s homeless shelters.

Total Number of Site Users: 120

Source: <https://iskconnews.org/krishna-lunch-lane-sign-at-university-of-florida-commemorates-prasadam-legacy,6504/>



CREDIT 6.8 | REDUCE LIGHT POLLUTION

METHOD 2: CALCULATION METHOD

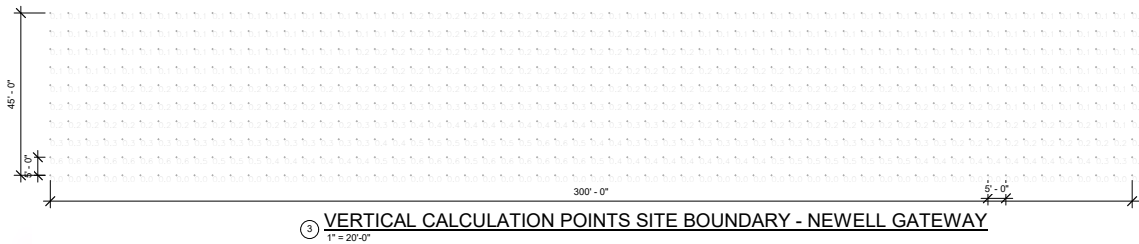
Goal: 4 points

Narrative

The gateway’s location falls on the outside of campus main campus boundary. The campus is surrounded by the City of Gainesville. This area classifies a MLO lighting zone 3 - Moderately High Ambient Light. Therefore the max BUG rating will be 5-3-3, with the highest pole height being 18’. The majority of the SITES project boundary surrounds main campus (with the same MLO zone) and is therefore exempt from light trespassing. The other portion abuts a public roadway, where the centerline is 37’, including the sidewalk area, meeting the light trespassing distance allowance.

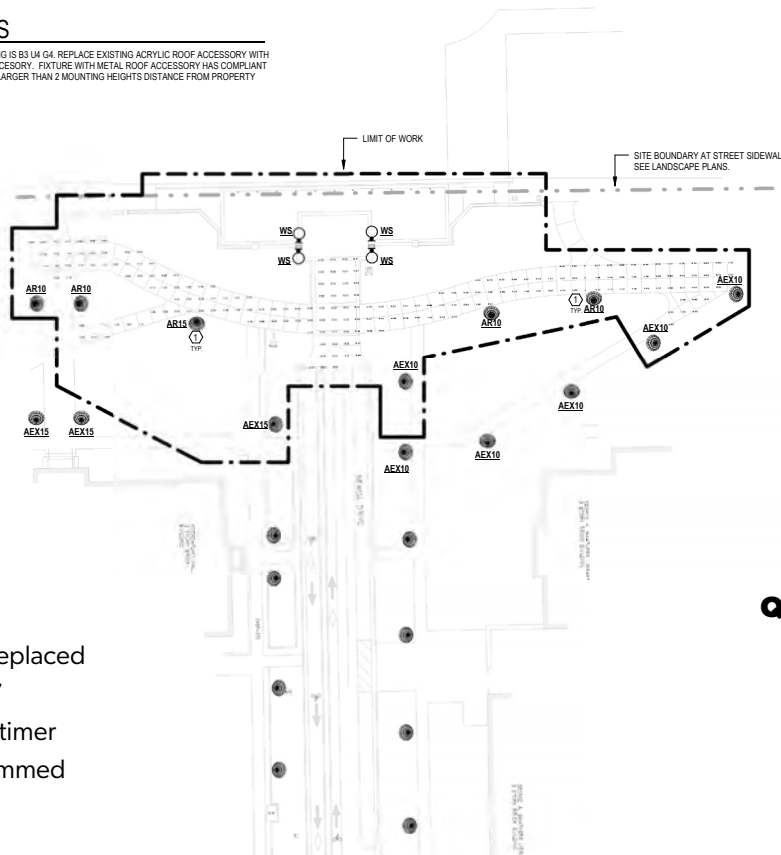
LIGHTING FIXTURE SCHEDULE - NEWELL GATEWAY							
TYPE	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	LUMENS	COLOR	WATTS	VOLTS	MOUNTING
AEX10	EXISTING LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	60	277	EXISTING 10' POLE AND BASE
AEX15	EXISTING LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	60	120	EXISTING 10' POLE AND BASE
AR10	RELOCATE LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	60	277	EXISTING 10' POLE AND BASE
CL	LED WALL SCONCE - LANTERN TYPE	EVERGREEN LIGHTING COZZ220LS	2000	4000	20	277	WALL, SEE LANDSCAPE PLAN, ELEVATIONS

- LIGHTING NOTES:**
 1. FOR FIXTURES AR10, PROVIDE CONCRETE BASE WITH ANCHOR BOLTS AS REQUIRED. RELOCATE COMPLETE FIXTURE WITH EXISTING POLE, BASE, ACORN LIGHT, FUSER, ETC.
 2. FOR ALL FIXTURES TAGGED ON THE PLAN, REPLACE EXISTING ACRYLIC VICTORIAN TOP WITH NEW TALL METAL TOP, TALL MODEL.
 3. MAINTAIN EXISTING POLE TABS.
 4. INSTALL FIXTURE CL AT MOUNTING HEIGHT SHOWN ON LANDSCAPE PLAN AND ELEVATION, ROUGHLY #0° AFO. COORDINATE WORK.



SHEET NOTES

- ① USGBC MINIMUM BUG RATING IS B3 U4 G4. REPLACE EXISTING ACRYLIC ROOF ACCESSORY WITH NEW TALL METAL ROOF ACCESSORY. FIXTURE WITH METAL ROOF ACCESSORY HAS COMPLIANT BUG RATING B3 U3 G3 FOR LARGER THAN 2 MOUNTING HEIGHTS DISTANCE FROM PROPERTY BOUNDARY.



Hours of Operation

The existing timer clock will be replaced with a new astronomic clock 24/7 programmable wall switch digital timer and the time of use will be programmed from dusk to dawn.

Quantity Type

3	AEX10
1	AEX15
4	AR10
1	AR15
4	WS

SECTION 6: SITE DESIGN – HUMAN HEALTH + WELL BEING

Luminaire Name	Backlight Rating	Uplight Rating	Glare Rating
RL54-AEX10 Wide	3	3	3
RL54-AEX15 Wide	3	3	3
RL54-AEX18 Wide	3	3	3
RL54-ARX15 Wide	3	3	3
RL54-ARX18 Wide	3	3	3
Evergreen Lighting COZ2220LS	1	0	1

SUBMITTED FOR COMPLIANCE WITH OWNER'S STANDARDS:

PHOTOMETRICS RESULTS - NEWELL GATEWAY					
Calculation Points Name	Average	Maximum	Minimum	Avg/Min	Max/Min
Newell Gateway Sidewalks	1.56	3.9	0.3	5.20	13.00

USGBC COMPLIANCE - SITES V2

1. CLAIMED LIGHTING ZONE: LZ3, SECURITY LIGHTING, 'ON' ALL NIGHT.

SUBMITTED FOR COMPLIANCE WITH USGBC SITES V2 RATING SYSTEM, SECTION 6.8, TRESPASS:

PHOTOMETRICS RESULTS - NEWELL GATEWAY					
Calculation Points Name	Average	Maximum	Minimum	Avg/Min	Max/Min
Property Line - Vertical Plane	NA	0.6	0.0	NA	NA

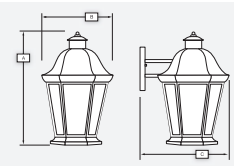
SUBMITTED FOR COMPLIANCE WITH USGBC SITES V2 RATING SYSTEM, SECTION 6.8, BUG RATING:

RL34/RL54 Refractive Globe with Lumilock LED engine GX4 LED Post Top Luminaire



Catalog #	Type
Project	UF NE Gateway
Description	COZ2220LS
	Date

ARM MOUNT



Standard Features
Material: Powder coated, Standard Fluorescent Finish, White Acrylic Lens, 1/2" thickness, 17 1/4" Dia. Location.
Installation: Mounting hardware sold in center of backplate. Backplate with standard mounting hardware. To mount to a 4" x 4" Joist or plaster imp.

LED Features
LED: 2x1 LED 3000K-1000LED array to be mounted onto an Aluminum MPCB Board configured to the proper voltage. The LED array will be centered within the Lens area and mounted on a white aluminum reflective plate.
Driver: Specific Drivers will be matched with each fixture. LED array configuration voltage.
Quality: Standard Driver: Electronic
• Constant Current
• 5 Year Warranty
• 100/177 milli-ohm voltage power supplies
• Hahn-2700K, 3000K, 3500K, 4000K, 5000K

Sample Spec Number: COZ21030-4B-A

Part #	Lamp/Watts	Lumens	A	B	C
COZ21030	150	900	17 3/4	9	11
COZ2106T	26T	1800	17 3/4	9	11
COZ2104Q	24-132	1800	17 3/4	9	11
COZ2105	26Q	1800	17 3/4	9	11
COZ2211	32T	2200	20	10	12
COZ2204Q	24-132	1800	20	10	12
COZ2206	24Q2	3600	20	10	12
COZ2222	42T	3200	20	10	12
COZ2106L	6LED	600	17 3/4	9	11
COZ2110L	10LED	1000	17 3/4	9	11
COZ2112L	12LED	1200	17 3/4	9	11
COZ2202L	20LED	2000	20	10	12
COZ2224L	24LED	2400	20	10	12
COZ2240L	40LED	4000	20	10	12
DARK SKY	9LED	900	17 3/4	9	11
COZ2108.S	15LED	1500	17 3/4	9	11
COZ2115.S	20LED	2000	20	10	12
COZ2202.S	20LED	2000	20	10	12

Evergreen Lighting
1379 Ridgeway Street, Pomona, CA 91768
Tel: 909.866.4200 Fax: 909.866.4200

*Consult Factory



**IES ROAD REPORT
PHOTOMETRIC FILENAME : COZ2220LS-TBK-A-41K-IES**

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA: LM-63-2002
[TEST] L05136405
[TESTLAB] LIGHT SCIENCES, INC.
[ISSUE DATE] 7/14/2013
[MANUFACTURER] EVERGREEN LIGHTING
[LUMEN CAT] COZ2220LS-TBK-A-41K
[LUMINAIRE] COZUMEL LED DARKSKY ARM MOUNT
[MORE] ALUMINUM REFLECTOR IN ROOF
[MORE] LEDS WITH OPTICS-DARK SKY
[BALLAST CAT] HATCH LC22-0700N-UNV-D
[BALLAST] INPUT: 120/277VAC, 50/60Hz. OUTPUT: 700MA/27V
[LAMP POSITION] 0.0
[LAMP CAT] 4100K
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 20W
[TEST PROCEDURE] IESNA: LM-79-08

CHARACTERISTICS

IES Classification	Type III Medium
Longitudinal Classification	1736 (1 lamp)
Lumens Per Lamp	1736
Total Lamp Lumens	1539
Luminaire Lumens	89%
Downward Total Efficiency	89%
Total Luminaire Efficiency	77%
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	1.00
Ballast Factor	0.00
Upward Waste Light Ratio	843.14
Maximum Candela	75H 67.5V
Maximum Candela Angle (<90 Degrees Vertical)	843.14
Maximum Candela Angle (<90 Degrees Vertical)	75H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	115.601 (6.7% Lamp Lumens)
Cutoff Classification (depreciated)	115.601 (6.7% Lamp Lumens)

**IES ROAD REPORT
PHOTOMETRIC FILENAME : COZ2220LS-TBK-A-41K-IES**

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	115.0	6.6	7.5
FM - Front-Medium (30-60)	552.9	31.8	35.9
FH - Front-High (60-80)	344.9	19.9	22.4
FVH - Front-Very High (80-90)	24.7	1.4	1.6
BL - Back-Low (0-30)	83.4	4.8	5.4
BM - Back-Medium (30-60)	263.3	15.2	17.1
BH - Back-High (60-80)	138.0	8.0	9.0
BVH - Back-Very High (80-90)	17.1	1.0	1.1
UL - Uplight-Low (90-100)	0.0	0.0	0.0
UH - Uplight-High (100-180)	0.0	0.0	0.0
Total	1539.3	88.7	100.0

BUG Rating B1-U0-G1

LED Wattage and Lumen Values: 4000K

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Delivered lumens*	Watts	EFFICACY (LPW)	BUG rating
RL34, Acrylic Roof							
RL34A-AxxxxxxW2xxxx	6A	200	39	5336	130.7	81-U0-G1	
RL34A-AxxxxxxW3xxxx	6A	350	69	9670	125.7	82-U0-G4	
RL34A-AxxxxxxW4xxxx	6A	450	88	10591	120.9	82-U0-G4	
RL34A-AxxxxxxW5xxxx	6A	530	104	12335	118.1	83-U0-G2	
RL34, Metal Roof							
RL34A-DxxxxxxW2xxxx	6A	200	39	5467	88.2	81-U0-G1	
RL34A-DxxxxxxW3xxxx	6A	350	69	9853	84.8	82-U0-G3	
RL34A-DxxxxxxW4xxxx	6A	450	88	7500	81.7	82-U0-G3	
RL34A-DxxxxxxW5xxxx	6A	530	104	8334	78.9	83-U0-G4	
RL54, Acrylic Roof							
RL54A-AxxxxxxW2xxxx	6A	200	39	4938	127.8	83-U0-G2	
RL54A-AxxxxxxW3xxxx	6A	350	69	8507	124.2	83-U0-G3	
RL54A-AxxxxxxW4xxxx	6A	450	87	10205	119.5	83-U0-G3	
RL54A-AxxxxxxW5xxxx	6A	530	104	12098	116.7	84-U0-G3	
RL54, Metal Roof							
RL54A-DxxxxxxW2xxxx	6A	200	39	4411	87.3	83-U0-G2	
RL54A-DxxxxxxW3xxxx	6A	350	69	5762	84.0	83-U0-G3	
RL54A-DxxxxxxW4xxxx	6A	450	87	10319	80.5	83-U0-G3	
RL54A-DxxxxxxW5xxxx	6A	530	104	9815	78.9	84-U0-G3	

LED Wattage and Lumen Values: 3000K

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Delivered lumens*	Watts	EFFICACY (LPW)	BUG rating
RL34, Acrylic Roof							
RL34A-AxxxxxxW2xxxx	6A	200	39	4532	135.2	81-U0-G1	
RL34A-AxxxxxxW3xxxx	6A	350	69	7848	110.9	82-U0-G3	
RL34A-AxxxxxxW4xxxx	6A	450	88	9546	108.0	82-U0-G4	
RL34A-AxxxxxxW5xxxx	6A	530	104	11862	104.1	82-U0-G4	
RL34, Metal Roof							
RL34A-DxxxxxxW2xxxx	6A	200	39	5046	97.5	81-U0-G2	
RL34A-DxxxxxxW3xxxx	6A	350	69	5123	74.5	82-U0-G3	
RL34A-DxxxxxxW4xxxx	6A	450	88	6281	71.8	82-U0-G3	
RL34A-DxxxxxxW5xxxx	6A	530	104	7505	90.1	82-U0-G4	
RL54, Acrylic Roof							
RL54A-AxxxxxxW2xxxx	6A	200	39	4397	112.7	83-U0-G2	
RL54A-AxxxxxxW3xxxx	6A	350	69	7593	109.5	83-U0-G3	
RL54A-AxxxxxxW4xxxx	6A	450	87	9971	109.4	83-U0-G3	
RL54A-AxxxxxxW5xxxx	6A	530	104	10671	102.9	83-U0-G3	
RL54, Metal Roof							
RL54A-DxxxxxxW2xxxx	6A	200	39	3914	97.3	82-U0-G2	
RL54A-DxxxxxxW3xxxx	6A	350	69	5305	84.4	83-U0-G2	
RL54A-DxxxxxxW4xxxx	6A	450	87	6238	71.8	83-U0-G3	
RL54A-DxxxxxxW5xxxx	6A	530	104	7351	89.9	83-U0-G3	

Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change. Lumen output by application will vary slightly. See IES files and specification sheets when available. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
Note: Some data may be scaled based on tests of similar, but not identical, luminaires.

CREDIT 6.10 | MINIMIZE EXPOSURE TO ENVIRONMENTAL TOBACCO SMOKE

OPTION 1: DESIGNATE LIMITED SMOKING ZONES

Goal: 2 points

The smoke-free policy and implementation plan

Policy Statement

Smoking and tobacco use are prohibited in all facilities and areas of the University of Florida campus with no exception. This includes, but is not limited to, all indoor and outdoor areas and properties. Indoor areas and properties include, but are not limited to, all common work areas, elevators, hallways, university-owned or -leased vehicles, garages, restrooms, cafeterias or dining areas, employee lounges, conference and meeting rooms, and all other enclosed areas in the workplace. Outdoor areas include, but are not limited to, parking lots, grounds, rooftops, plazas, courtyards, entrance and exit ways, and any other areas of the university campus. This policy applies to all faculty, staff, consultants, contractors, and visitors.

For purposes of this policy, ‘university campus’ or ‘campus’ includes those lands located in Alachua County, Florida, occupied or controlled by the University of Florida; those lands located in the city of Jacksonville, Florida occupied or controlled by the University of Florida; any other lands in the state of Florida on which a health care facility occupied or controlled by the University of Florida is located; and lands occupied by any fraternity or sorority officially recognized by the University of Florida. The fifty feet (50’) areas surrounding such facilities are also designated as no smoking areas. The President or designee may allow smoking in specific designated areas of campus for clinical treatment purposes, including smoking cessation programs or research-related purposes.

Any facilities occupied or controlled by the University of Florida that are not on the university campus as defined above continue to be designated no smoking facilities.

For purposes of this policy, “smoking” means inhaling, exhaling, burning carrying or possessing any lighted tobacco product, including cigarettes, cigars, pipe tobacco, and any other lit tobacco products.

For purposes of this policy, “tobacco use” means the personal use of any tobacco product, whether intended to be lit or not, which shall include smoking, as defined above, as well as the use of an electronic cigarette or any other device intended to simulate smoking and the use of smokeless tobacco, including snuff; chewing tobacco; smokeless pouches; any other form of loose-leaf, smokeless tobacco; and the use of unlit cigarettes, cigars, and pipe tobacco.

Communication

Persons will be informed of this policy through:

- Signs posted in appropriate areas throughout the university
- [Human Resource Services web site](#) and *InfoGator* newsletter
- E-mail communication to all employees and students
- Employee and student handbooks

Enforcement

The responsibility for the enforcement and communication of this policy rests with all members of the university community.

REGULATIONS OF THE
UNIVERSITY OF FLORIDA

UF- 2.022 No Smoking and Tobacco Use.

(1) For the purpose of this regulation, the following definitions shall apply:

(a) “University campus” or “campus” shall include those lands located in Alachua County, Florida, occupied or controlled by the University of Florida; those lands located in the City of Jacksonville, Florida, occupied or controlled by the University of Florida; and any other lands in the State of Florida on which a health care facility occupied or controlled by the University of Florida is located.

(b) “Smoking” means inhaling, exhaling, burning, carrying or possessing any lighted tobacco product, including cigarettes, cigars, pipe tobacco, and any other lighted tobacco products.

(c) “Tobacco use” means the personal use of any tobacco product, whether intended to be lighted or not, which shall include smoking, as defined in paragraph (b) above; the use of an electronic cigarette or any other device intended to simulate smoking; and the use of smokeless tobacco, including snuff, chewing tobacco, smokeless pouches, any other form of loose-leaf, smokeless tobacco and the use of unlit cigarettes, cigars, and pipe tobacco.

(2) Tobacco use is prohibited in all areas of the University campus.

(3) All facilities occupied or controlled by the University that are not on the University campus continue to be designated no smoking facilities. The fifty feet (50’) areas surrounding such facilities are also designated as no smoking areas. The President or designee may allow smoking in specific designated areas of campus for clinical treatment purposes, including smoking cessation programs or research-related purposes.

No Smoking Sign



CREDIT 6.11 | SUPPORT LOCAL ECONOMY

Calculations

Goal: 3 points

Total number of construction workers = 77

Percentage of construction workers receiving a living wage = 100%

Overall construction budget = \$2,501,781.57

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME	PROJECT ID#
UF-656 Landscape Master Plan - Newell Gateway	13740

INSTRUCTIONS:

1. Complete the following form for Contractor and all Subcontractors that will be performing work on the project.
2. If the municipality where the project is located has a first source policy, the forms and associated documents showing approval by the municipality may be submitted in lieu of the SITES documentation. Please include copy of first source addendum that was included in contracts with contractors and subcontractors.

NAME of CONTRACTOR or SUBCONTRACTOR	CONTRACTOR or AUTHORIZED REPRESENTATIVE	VALUE of CONTRACT	TOTAL HOURS OF CONTRACT	TOTAL HOURS BY LOCAL INDIVIDUALS	TOTAL HOURS BY LOW-INCOME INDIVIDUALS	PERCENTAGE of LOCAL HOURS	PERCENTAGE of LOW-INCOME HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS
Bryce A. Burger Landscaping	Bryce Burger	\$98,198.88	390	390	0	100.00%	0.00%	0
Lawn Enforcement Agency	Mike Troiano	\$405,783.96	192	192	0	100.00%	0.00%	0
Van Goetting Masonry	Daran Bedenbaugh	\$205,816.00	1080	1080	600	100.00%	55.56%	0
Utility Service of Gainesville, Inc.	Justis Ebling	\$680,961.30	1710	1710	0	100.00%	0.00%	0
Hicks Asphalt Paving & Concrete	Tammi Hicks	\$1,111,021.43	1594	1594	0	100.00%	0.00%	0
Workflow (Lawn Enforcement)	Wirley Olivera		640	640	0	100.00%	0.00%	0
						0	0	
						0	0	
TOTAL:		\$ 2,501,781.57	5606.00	5606.00	600.00	100.00%	10.70%	0

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF-656 Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Bryce A. Burger Landscape	TOTAL HOURS OF CONTRACT: 390
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AUTHORIZED REPRESENTATIVE
Bryce Burger

NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
5	390	390	0	Y	Safety	N	\$13.64	5

SIGNATURE OF AUTHORIZED REPRESENTATIVE:
Bryce A. Burger

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF-656 Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Lawn Enforcement Agency	TOTAL HOURS OF CONTRACT: 192
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AUTHORIZED REPRESENTATIVE
Mike Troiano

NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
2	192	192	0	Y	Safety	N	\$13.64	2

SIGNATURE OF AUTHORIZED REPRESENTATIVE:
Mike Troiano

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF-656 Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Van Goettling Masonry	TOTAL HOURS OF CONTRACT: 1080
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AUTHORIZED REPRESENTATIVE Daran Bedenbaugh
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NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
15	1080	1080	0	Y	Safety	No	\$13.04	15

SIGNATURE OF AUTHORIZED REPRESENTATIVE: Daran Bedenbaugh
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SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF-656 Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Utility Service of Gainesville, Inc	TOTAL HOURS OF CONTRACT: 1710
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AUTHORIZED REPRESENTATIVE Justis Ebling

NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
18	1710	1710	0	N	N/A	N	\$13.64	18

SIGNATURE OF AUTHORIZED REPRESENTATIVE: Justis Ebling

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Hicks Asphalt Paving & Striping, LLC	TOTAL HOURS OF CONTRACT: 1594
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AUTHORIZED REPRESENTATIVE

NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
27	1594	1594	0	Y	Safety	No	\$13.64	27

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

SITES® v2 Construction Hiring Worksheet

C6.11: SUPPORT LOCAL ECONOMY

PROJECT NAME UF-656 Landscape Master Plan - Newell	PROJECT ID# 13740
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INSTRUCTIONS:
1. Please complete the following form for your company's work on the project. The form should be completed by an authorized representative of the contractor or subcontractor.

CONTRACTOR Workflow (Lawn Enforcement)	TOTAL HOURS OF CONTRACT: 640
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AUTHORIZED REPRESENTATIVE

NUMBER OF LOCAL WORKERS	TOTAL HOURS	TOTAL LOCAL HOURS	LOCAL APPRENTICE or ENTRY LEVEL HOURS	DID WORKERS RECEIVE JOB TRAINING? (Y/N)	TYPE of TRAINING	WERE WORKERS PART of YOUTH DEVELOPMENT PROGRAMS?	AREA'S LIVING WAGE FOR ONE ADULT	NUMBER OF LOCAL WORKERS RECEIVING LIVING WAGE
10	640	640	0	Y	Safety	N	\$13.64	10

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

SECTION 7: CONSTRUCTION

PREREQUISITE	TITLE	POINTS
Construction P7.1	Communicate and verify sustainable construction practices	Required
Construction P7.2	Control and retain construction pollutants	Required
Construction P7.3	Restore soils disturbed during construction	Required
CREDIT	TITLE	POINTS
Construction C7.4	Restore soils disturbed by previous development	3 points
Construction C7.5	Divert construction and demolition materials from disposal	4 points
Construction C7.6	Divert reusable vegetation, rocks, and soil from disposal	4 points
Construction C7.7	Protect air quality during construction	4 points

PREREQUISITE 7.1 | COMMUNICATE AND VERIFY SUSTAINABLE CONSTRUCTION PRACTICES

SITES® v2 Punchlist

P7.1: COMMUNICATE AND VERIFY SUSTAINABLE CONSTRUCTION PRACTICES

PROJECT NAME
Newell Entry

PROJECT ID#
13740

- INSTRUCTIONS:**
1. Complete the following form for each prerequisite and desired credit.
 2. Assign responsibility for each to a member of the integrated design team. That person will sign off on each assigned item as it is implemented.

ACTION ITEM	SITES PREREQUISITES	TEAM MEMBER ASSIGNED	DATE COMPLETED	SIGNATURE
SITE ASSESSMENT - Communicate the site assessment to all construction personnel	P2.2: Conduct a pre-design site assessment	Charles Garrett	10/26/2022 4:34 PM EDT	
PRE-CONSTRUCTION MEETING - Communicate all sustainability principles and performance goals - Collect pre-construction meeting minutes and signatures	P2.1: Use an integrative design process	Frank Bellomo	10/21/2022 5:58 AM PDT	
	P7.1: Communicate and verify sustainable construction practices	Charles Garrett	10/26/2022 4:34 PM EDT	
VEGETATION AND SOIL PROTECTION ZONES - Communicate locations and protective measures to all construction personnel - Install protective measures (e.g., fence or physical barrier) - Install protection signage - Take photographs of protection measures and signage-For Section P2.3	P1.1: Limit development on farmland	Frank Bellomo	10/21/2022 5:58 AM PDT	
	P1.2: Protect floodplain functions	Jaime Iguia	10/27/2022 1:11 PM EDT	
	P1.3: Conserve aquatic ecosystems	Frank Bellomo	10/21/2022 5:58 AM PDT	
	P1.4: Conserve habitats for threatened and endangered species	D.J. Silverberg		
	P2.3: Designate and communicate VSPZs	Ian Molgaard	10/21/2022 6:15 AM PDT	
	P4.1: Create and communicate a soil management plan	Frank Bellomo	10/21/2022 5:58 AM PDT	
WATER STEWARDSHIP - Ensure plan for decommissioning temporary irrigation is communicated	P3.2: Reduce water use for landscape irrigation	Rob Hoogevann	10/21/2022 3:26 AM	
	P4.1: Create and communicate a soil management plan	Frank Bellomo	10/21/2022 5:58 AM PDT	
	P4.2: Control and manage invasive plants	Elisabeth Manley	10/21/2022 6:40 AM	
	P4.3: Use appropriate plants	Frank Bellomo	10/21/2022 5:58 AM PDT	
SOILS, PLANTS, MATERIALS STEWARDSHIP - Complete applicable sections of the Soil Management Plan - Communicate Soil Management Plan to all construction personnel - Ensure no invasives are being brought to the site - Ensure all plants brought to the site are appropriate for site conditions - Ensure sedimentation control measures are implemented on site - Take videos and/or photos of sedimentation control measures - Collect receipts for soil, compost, and amendments suppliers-	P5.1: Eliminate the use of wood from threatened tree species	Frank Bellomo Jason O'Brian	10/21/2022 10:28 AM EDT	
	P7.2: Control and retain construction pollutants	Charles Garrett	10/26/2022 4:34 PM EDT	
	P7.3: Restore soils disturbed during construction	Charles Garrett Bryce Burger		
ACTION ITEM	SITES CREDITS	TEAM MEMBER ASSIGNED	DATE COMPLETED	SIGNATURE
- Ensure the section of the site assessment is complete and documents the percent of total site area this is previously developed-100% of site is previously developed; Site plan, aerial photographs, areas of soil remediation, calculations, historical photos	C1.5 Redevelop degraded sites	Ian Molgaard	10/21/2022 6:15 AM PDT	
Vicinity map, site plan with walking routes and basic services and table of walking distances	C1.6 Locate projects within existing developed areas	Ian Molgaard	10/21/2022 6:15 AM PDT	
REMAINING ITEM SITE USER CALCULATIONS	C1.7 Connect to multi-modal transit networks	Ian Molgaard	10/21/2022 6:15 AM PDT	
-Site Assessment process and program plan - Schematic Design Review -Design development presentation and review	C2.4 Engage users and stakeholders	Frank Bellomo	10/21/2022 5:58 AM PDT	
N/A	C3.3 Manage precipitation beyond baseline	Ian Molgaard	10/21/2022 6:15 AM PDT	
- Ensure that habitat for mosquitos will not be created - Ensure plan for decommissioning temporary irrigation is communicated - Ensure the section of the site maintenance plan is complete	C3.4 Reduce Outdoor water use	Ian Molgaard	10/21/2022 6:15 AM PDT	
- Post construction photos	C3.5 Design functional stormwater features as amenities	Frank Bellomo	10/21/2022 5:58 AM PDT	
- Calculations	C4.8 Optimize Biomass	Ian Molgaard	10/21/2022 6:15 AM	
- List of selected materials that demonstrate the required SR or SRI values	C4.9 Reduce urban heat island effects	Ian Molgaard	10/21/2022 6:15 AM	
- Materials worksheet and description of each salvaged Material	C5.4 Reuse salvaged materials and plants	Charles Garrett	10/26/2022 4:34 PM EDT	
- Materials worksheet and description of each recycled material	C5.5 Use recycled content materials	Charles Garrett	10/26/2022 4:34 PM EDT	
- Materials Worksheet	C5.6 Use regional materials	Charles Garrett	10/26/2022 4:34 PM EDT	
- Materials Worksheet - Documentation from manufacturers or suppliers demonstrating disclosure of environmental practices.	C5.7 Support responsible extraction of raw materials	Dustin Stephany	10/20/2022 9:38 PM EDT	
- Documentation showing that manufacturers have a publicly available sustainability statement.	C5.8 Support transparency and safer chemistry	Dustin Stephany	10/20/2022 9:38 PM EDT	
- Materials Worksheet - Documentation from materials manufacturers demonstrating disclosure of material chemistry.	C5.9 Support sustainability in materials manufacturing	Dustin Stephany	10/20/2022 9:38 PM EDT	
- Documentation from manufacturers or suppliers demonstrating disclosure of environmental practices. - Copies of public announcement regarding future environmental impact reduction goals	C5.10 Support sustainability in plant production	Dustin Stephany	10/20/2022 9:38 PM EDT	
- Materials Worksheet - Documentation from plant providers demonstrating disclosure of 6 of the 10 sustainable production practices	C6.1 Protect and maintain cultural and historic places	Dustin Stephany	10/20/2022 9:38 PM EDT	
-Current site photos and maps; Narrative; Letter from National Register of Historic Places	C6.2 Provide optimum site accessibility, safety, and wayfinding	Frank Bellomo	10/21/2022 5:58 AM PDT	
- Photographs post construction	C6.3 Promote equitable site use	Dustin Stephany	10/20/2022 9:38 PM EDT	
-Letter confirming the intent to provide free public access to elements, signed by owner, with planning documents and public relations communications	C6.4 Support mental restoration	Frank Bellomo	10/21/2022 5:58 AM PDT	
- Photographs post construction				

SECTION 7: CONSTRUCTION

ACTION ITEM	SITES CREDITS	TEAM MEMBER ASSIGNED	DATE COMPLETED	SIGNATURE
- Photographs post construction - Narrative of how services, microclimate conditions, and social connection	C6.6 Support social restoration	Dustin Stephany	10/20/2022 9:37 PM EDT	Dustin Stephany
- Photometric data and calculations	C6.8 Reduce Light Pollution	Craig Gulledge		
- Develop smoke free policy, install permanent signage, ensure Site Maintenance Plan sheet is completed.	C6.10 Minimize exposure to environmental tobacco smoke	Dustin Stephany	10/20/2022 9:37 PM EDT	Dustin Stephany
- Construction hiring Worksheet, calculations, list of individuals from programs that support on-the-job training, signed by appropriate contract holders. - Overall construction budget and a list of locally owned and operated businesses.	C6.11 Support local economy	Charles Garrett	10/26/2022 4	Charles Garrett
- Approach to restoring soil conditions - Receipts from soil, compost, and amendment suppliers	C7.4 Restore soils disturbed by previous development	Bryce Burger Frank Bellomo	DocuSigned by: 1 Bryce Burger ink Bellomo 24B7357AB62E4A6 10/20/2022 4	
- List of all construction demo materials generated on site, calculations - Narrative of implementation of management plan	C7.5 Divert construction and demolition materials from disposal	Charles Garrett		Charles Garrett
- Estimated amount of material waste - Location of reveiving agents - Documentation (photos and receipts) verifying materials diverted - Signature of owner that no land-clearing materials were disposed of in landfill	C7.6 Divert reusable vegetation, rocks, and soil from disposal	Tom Schlick	10/21/2022 8	Thomas Schlick
- List of all equipment, run-time calculations, fuel purchase records - Idle-reduction policy, narrative - Equipment maintenance plan	C7.7 Protect air quality during construction	Tom Schlick	10/21/2022 8:04 AM EDT	Thomas Schlick
- Waste Stream Study, narrative, site plan locations	C8.3 Recycle organic matter	Dustin Stephany	10/20/2022 9	Dustin Stephany
- Site maintenance plan - Plant Healthcare Plan and best management practives	C8.4 Minimize pesticide and fertilizer use	Tom Schlick	10/21/2022 8:04 AM EDT	Thomas Schlick
- Product cut sheets - Calculations and completed worksheets	C8.5 Reduce outdoor energy consumption	Dustin Stephany	10/20/2022 9	Dustin Stephany
- List of all powered maintenance equipment - Emissions reduction worksheet	C8.7 Protect air quality during landscape maintenance	Tom Schlick	10/21/2022 8:04 AM EDT	Thomas Schlick
- Communication of case study	C9.2 Develop and communicate a case study	Dustin Stephany	10/20/2022 9	Dustin Stephany

Preconstruction Meeting Minutes

Minutes

Pre-Construction Meeting

UF Project No. UF-656	Date: August 31, 2021
Owner: University of Florida	Location: CPPI Corporate Office
Project Name: UF – 656 Landscape Master Plan Implementation Newell Gateway and Northeast Gateway	Time: 9:00AM – 11:30AM

- **Attendees:**
 - **Hicks Concrete, Asphalt, and Paving – Ronnie Hicks**
 - **USI – Hal Ebling, Justice Ebling**
 - **Van Goettling Masonry – Daran Bedenbaugh**
 - **GAI – Sheeba West**
 - **UF – Melanie Heflin, Dustin Stephany**
 - **CPPI – Charles Garrett, Jennifer Lyons**
- **9:00 – 9:15**
 - **Introductions:**
 - Melanie Heflin – UF PD&C Project Manager
 - Jennifer Lyons – CPPI Project Manager
 - Charles Garrett – CPPI Superintendent
 - **Jobsite Conduct**
 - The jobsites are located in highly visible and trafficked areas of the University of Florida Campus.
 - Zero tolerance regarding harassment of any kind.
 - Zero tolerance regarding alcohol and tobacco.
 - Jobsite cleanliness is a priority. This is everyone’s responsibility to make sure the site is clean and orderly each day.
 - University of Florida COVID -19 protocols must be adhered to at all times.
 - PPE – Workers must wear the required PPE at all times while on the construction site.
 - UF requires badge to be worn by contractors. Background check completion must be noted on UF sharepoint for all contractors’ employees on site.
 - Review contract documents - Principles and performance goals are the guiding overarching concepts & the observable & measurable end results of having 1 or more objective completed within a fixed time frame; conveyed in the specifications & drawings
 1. Plans
 - a. Newell Gateway
 - b. Northeast Gateway
 2. Specifications
 3. Addendums: #1 - #5, Change Directive #1
 4. Site Logistics Plans
 - a. Newell Gateway
 - b. Northeast Gateway



5. Schedule – Newell by end of 2021 and NE by end of March 2022

□ **9:20 – 10:00 am**

- SITES Certification Requirements – Dustin Stephany presentation
 1. UF's sustainability track record
 2. Guiding and project specific principles: prerequisites/credits, reuse/salvaged materials, soil management plan, advocacy letters, and punchlist
 3. Sites requirements need to translate to construction documents for field implementation
- Document review
 1. Punchlist Worksheet – SITES Punchlist is a set of line items to be carried out by the contractor in order to achieve SITES prerequisites and credits
 2. Materials Worksheet
 3. Construction Hiring Worksheet
 4. Field Operations
 5. Letters to suppliers

□ **10:00 am – 11:00 am**

- Working Hours
 - Monday-Friday 7:00 am – 3:30 pm
 - Rain Days/Rain Out
 - Jobsite deliveries are to be scheduled 7 days in advance with CPPI superintendent and every effort to deliver to the site at non-peak (student/faculty) occupancy hours.
 1. Early morning deliveries for larger items that may require a semi- truck / low boy hauler etc....
 2. You must have someone from your company present and fully capable of unloading your material when it arrives. Deliveries will be sent away if you fail to schedule or you are not onsite to unload it.
- Utility Outages
 - Utility outage requests are to be sent to CPPI Superintendent 2 weeks in advance of the desired date of the request.
 - Dig Permits utility locates are to be called in by the subcontractor, coordinated with CPPI superintendent.

General Requirements

- Project Signage
 - CPPI to install signage around the construction fencing as required by the University of Florida.
- Hot work procedures
 - Hot work permits to be applied for by the subcontractor.
- Parking
 - Parking for each jobsite is indicated within the construction fencing areas on the logistics plans. Workers should carpool in company vehicles if available as parking space is at a premium.
 - Workers must have a TAPS parking tag to hang on their mirror while parked inside the construction fenced area. Get from CPPI Superintendent.



- ❑ Dumpster Location
 - ❑ A dumpster will be located within each construction fenced area.
- ❑ Barrier Location
 - ❑ See site logistics plan and construction documents for indication of barriers.
- ❑ Toilet Facilities
 - ❑ Temporary toilet facilities will be provided at each jobsite (Newell and Northeast)
- ❑ Jobsite Security and Locks
 - ❑ Jobsite will be locked at the end of each workday for both locations by a combination cable lock. The code for the locks will be provided by CPPI Superintendent Charles Garrett.
- ❑ Storage Facilities/Areas
 - ❑ The jobsite areas are limited on space, however some area will be available for materials. This must be coordinated with CPPI Superintendent Charles Garrett as to the location, amount, and duration the materials will be there.

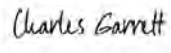
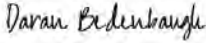
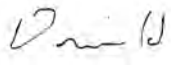
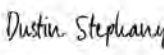
Architect/Owner/Contractor Communications

- An integrated design team includes the owner, client, & professionals knowledgeable in design, construction, & maintenance to meet the unique constraints & opportunities of the site.
- ❑ Channels and procedures for communication – Autodesk Build
- ❑ Processing of submittals and shop drawings, RFIs
 - ❑ Submittals and shop drawings are to be sent to Charles.Garrett@cppi.com, Nolan.Davis@cppi.com or uploaded in Build
 - ❑ RFI's are to be sent to Jennifer.lyons@cppi.com, Charles.Garrett@cppi.com, Nolan.Davis@cppi.com or uploaded in Build
- ❑ Processing field change/orders
 - ❑ Change orders are to be sent to Jennifer.lyons@cppi.com
- ❑ Inspection Procedures
 - ❑ Notify CPPI Superintendent of any inspections that are scheduled for your work at least (5) Days in advance.
 - ❑ Inspections are to be identified and listed on the pull planning board in the jobsite trailer in order for CPPI to notify UF prior to work being covered up after inspection.
- ❑ Close-out Documents
 - ❑ Closeout documents are to be submitted to Jennifer.lyons@cppi.com, Nolan.Davis@cppi.com
- Project Specific**
- ❑ Lead Times
 - ❑ Long lead items need to be discussed with CPPI Superintendent and Project Manager.
- ❑ Schedule/Coordination
 - ❑ Weekly Coordination with CPPI Superintendent Charles Garrett.
 - ❑ Pull Planning required for 6-week look ahead.



- Review the construction schedules
 1. Newell Gateway
 2. Northeast Gateway
 - Weekly Subcontractor Meeting
 1. Tuesdays at 10:00 am at the jobsite trailer.
 - Safety Meetings:
 1. Tuesday at 7:00 am onsite (Northeast Gateway)
- 11:00 am – 11:30 am**
 - Lunch / project planning discussions

Preconstruction Meeting Signatures

Signer Events	Signature	Timestamp
Charles Garrett Charles.Garrett@CPPI.com Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 98.180.246.115	Sent: 1/24/2022 2:09:06 PM Viewed: 1/26/2022 10:21:16 AM Signed: 1/26/2022 10:21:42 AM
Electronic Record and Signature Disclosure: Accepted: 1/26/2022 10:21:16 AM ID: 43c2940c-a966-448d-82ad-f1923f925056		
Daran Bedenbaugh daran.bedenbaugh@vangoettlingmasonry.com Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 174.64.77.190	Sent: 1/24/2022 2:09:07 PM Viewed: 2/11/2022 2:01:51 PM Signed: 2/11/2022 2:02:29 PM
Electronic Record and Signature Disclosure: Accepted: 2/11/2022 2:01:51 PM ID: e958e12e-6c35-4551-b582-8bf9d82accd7		
Donnie Hicks donniehicksapc@gmail.com Security Level: Email, Account Authentication (None)	 Signature Adoption: Drawn on Device Using IP Address: 174.211.193.76 Signed using mobile	Sent: 1/24/2022 2:09:06 PM Viewed: 1/29/2022 11:57:58 AM Signed: 1/31/2022 6:53:35 AM
Electronic Record and Signature Disclosure: Accepted: 1/29/2022 11:57:58 AM ID: 362fc9f3-2a24-46fa-8a6f-6c79d3377021		
Dustin Stephany d.stephany@ufl.edu University of Florida Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 128.227.115.220	Sent: 1/24/2022 2:09:09 PM Viewed: 1/24/2022 2:10:36 PM Signed: 1/24/2022 2:10:48 PM

Signer Events	Signature	Timestamp
<p>Hal Ebling halebling@gmail.com Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Accepted: 1/25/2022 7:51:24 AM ID: 5d5c97b2-8257-4403-a58e-d5431bf53cfb</p>	 Signature Adoption: Pre-selected Style Using IP Address: 98.180.247.40	<p>Sent: 1/24/2022 2:09:07 PM Viewed: 1/25/2022 7:51:24 AM Signed: 1/25/2022 7:53:46 AM</p>
<p>Ian Molgaard I.Molgaard@gaiconsultants.com Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Accepted: 1/24/2022 2:36:27 PM ID: a63b0bee-b1b1-478a-bb03-c33ed2ef89b8</p>	 Signature Adoption: Pre-selected Style Using IP Address: 4.53.44.34	<p>Sent: 1/24/2022 2:09:07 PM Viewed: 1/24/2022 2:36:27 PM Signed: 1/24/2022 2:36:52 PM</p>
<p>Jennifer Lyons Jennifer.Lyons@CPPI.com Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Accepted: 1/24/2022 2:21:21 PM ID: f27e5466-4bc6-4dc0-9fa7-b5e4ba23f257</p>	 Signature Adoption: Pre-selected Style Using IP Address: 209.251.130.130	<p>Sent: 1/24/2022 2:09:09 PM Viewed: 1/24/2022 2:21:21 PM Signed: 1/24/2022 2:21:43 PM</p>
<p>Justis Ebling usi.justis@gmail.com Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Accepted: 1/24/2022 2:37:17 PM ID: 163bf050-025c-4a2a-b432-a2c9b67fbc66</p>	 Signature Adoption: Pre-selected Style Using IP Address: 98.180.247.40	<p>Sent: 1/24/2022 2:09:08 PM Viewed: 1/24/2022 2:37:17 PM Signed: 2/9/2022 4:05:22 PM</p>
<p>Melanie Heflin mheflin@ufl.edu Project Manager University of Florida -Planning, Design & Construction Division Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Not Offered via DocuSign</p>	 Signature Adoption: Pre-selected Style Using IP Address: 67.34.199.241	<p>Sent: 1/24/2022 2:09:08 PM Viewed: 1/24/2022 2:09:27 PM Signed: 1/24/2022 2:09:39 PM</p>
<p>Sheeba West S.West@gaiconsultants.com Security Level: Email, Account Authentication (None)</p> <p>Electronic Record and Signature Disclosure: Not Offered via DocuSign</p>	 Signature Adoption: Pre-selected Style Using IP Address: 4.53.44.34	<p>Sent: 1/24/2022 2:09:09 PM Viewed: 1/26/2022 3:15:24 PM Signed: 1/26/2022 3:15:42 PM</p>

Preconstruction Meeting Presentation



SITES Preconstruction Meeting

8-31-21

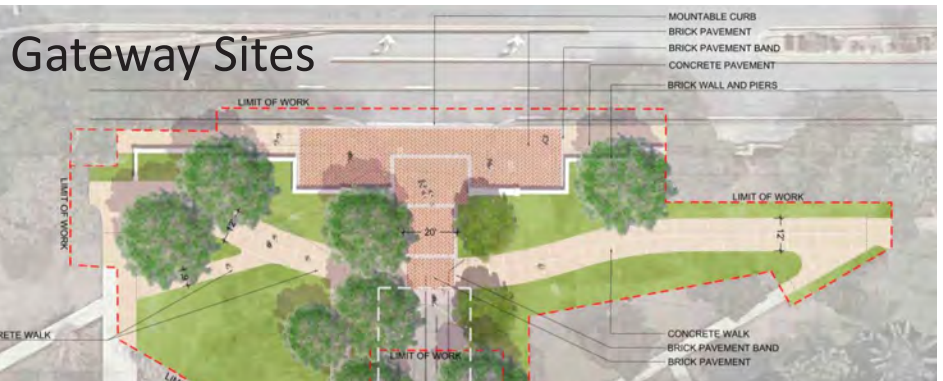
Overview

- Introduction
- What is SITES?
- What is the Plan?
- How do we get there?
- Our Part





Gateway Sites



Northeast Gateway – Main Entry

- Welcoming face to campus visitors
- Connects to secondary walkways leading to surrounding buildings and improve larger pedestrian network
- Majority of existing trees are to remain and will be protected through construction
- Additional trees are placed in adequate planting space which provide shade for the comfort of pedestrians and bicyclists

Newell Gateway – Pedestrian Entry

- One of the most appealing long views of the campus
- Multi-modal pathways connecting to surrounding buildings and improve larger pedestrian network
- Low walls along University Ave. help delineate the UF campus from the right-of-way and guide pedestrian safety
- Low-maintenance shrub and groundcover planting areas contribute to collection of stormwater and infiltration

Meet the Team

Sheeba West - Frank Bellomo - Ian Molgaard



Elizabeth Manley



Troy Lauramoore - Jennifer Lyons - Charles Garret

Melanie Heflin - Dustin Stephany - Rachel Mandell



Sustainability Track Record



- Global certification program
- Performance based criteria
- Tools that protect and enhance the human experience
- Designed for the future of green building industry
- Benchmarking
- Foster regenerative, resilient and efficient design
- Traditional land development underestimate or ignore healthy ecosystems

Guiding Principles

Point Based System

- 70+ points - CERTIFIED
- 85+ points - SILVER
- 100+ points – GOLD (TEAM GOAL)**
- 135+ points – PLATINUM

- Do no harm.** Make no changes to the site that will degrade the surrounding environment. Promote sustainable design projects on sites where previous disturbance or development presents an opportunity to regenerate ecosystem services through sustainable design.
- Apply the precautionary principle.** Be cautious in making decisions that could threaten human and environmental health. Some actions can cause irreversible damage. Examine a full range of alternatives (including no action), and be open to contributions from all potentially affected parties.
- Design with nature and culture.** Create and implement designs that are responsive to economic, environmental, and cultural conditions and to the local, regional, and global context.
- Use a decision-making hierarchy of preservation, conservation, and regeneration.** Maximize the benefit of ecosystem services by preserving existing environmental features, conserving resources in a sustainable manner, and regenerating lost or damaged ecosystem services
- Provide regenerative systems as intergenerational equity.** Provide future generations with a sustainable environment supported by regenerative systems and endowed with regenerative resources.
- Support a living process.** Continuously re-evaluate assumptions and values, and adapt to demographic and environmental change.
- Use a systems thinking approach.** Understand and value the relationships in an ecosystem. Use an approach that reflects and sustains ecosystem services and re-establishes the integral and essential relationship between natural processes and human activity.
- Use a collaborative and ethical approach.** Encourage direct and open communication among colleagues, clients, manufacturers, and users to link long-term sustainability with ethical responsibility.
- Maintain integrity in leadership and research.** Implement transparent and participatory leadership; develop research with technical rigor; and communicate new findings in a clear, consistent, and timely manner.
- Foster environmental stewardship.** In all aspects of land development and management, foster an ethic of environmental stewardship—an understanding that responsible management of healthy ecosystems improves the quality of life for present and future generations.



Project Specific Principles and Performance Goals

Redesign Campus Roadways to Support and Encourage All Modes of Travel

- Accommodate safe multi-modes of transportation/shared paths: e-scooters, bicycles, pedestrian, skateboards, Segway and bus
- Incorporate rows of trees with setbacks @ walkways to incorporate more shade and plant growth

Integrate New Campus Projects Into the Campus Fabric, Advancing Pedestrian and Bike Connections and Campus Space

- Improve accessibility simplify gateway and walkway connections while enriching the views

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

- Promote and restore native landscaping for North Central Florida
- Protect existing trees with tree barricades, rerouting utilities and paving and soil remediation
- Incorporate simplified grouped landscaping and promote ease of maintenance (pruning vs thinning vs seasonal replacement)

Embracing Sustainable Goals and LID Practices (Newell Gateway Only)

- Reduced hardscapes and increase planting areas to demonstrate best stormwater management practices, improve water quality and serve as educational feature
- Reuse materials where possible

What is the Plan?

- Focus on Prerequisites, then Credits
- Reuse Salvaged Materials
- Soil Management Plan
- Advocacy Letters
- Punchlist



SITESv2 scorecard Project: Newell Gateway MAJOR DEADLINE: 26-Mar LAST UPDATED: 7/1/2021
 Project #: 13740 (DD's 100% / Construction): (3-26 / 5-1)

STATUS	10	0	3	SITE CONTEXT	Possible 13 points
Complete	REQUIRED	P	1.1	Limit development on farmland	
Complete	REQUIRED	P	1.2	Protect floodplain functions	
Complete	REQUIRED	P	1.3	Conserve aquatic ecosystems	
Complete	REQUIRED	P	1.4	Conserve habitats for threatened and endangered species	
Progress	3	0	3	-	C 1.5 Redevelop degraded sites
Progress	4	0	0	-	C 1.6 Locate projects within existing developed areas
Progress	3	0	0	-	C 1.7 Connect to multi-modal transit networks

STATUS	3	0	0	PRE-DESIGN ASSESSMENT + PLANNING	Possible 3 points
Progress	REQUIRED	P	2.1	Use an integrative design process	
Progress	REQUIRED	P	2.2	Conduct a pre-design site assessment	
Progress	REQUIRED	P	2.3	Designate and communicate VSPZs	
No Start	3	0	0	-	C 2.4 Engage users and stakeholders

STATUS	15	1	1	SITE DESIGN (WATER)	Possible 23 points
Complete	REQUIRED	P	3.1	Manage precipitation on site	
Progress	REQUIRED	P	3.2	Reduce water use for landscape irrigation	
Progress	6	0	0	-	C 3.3 Manage precipitation beyond baseline
Progress	5	1	0	-	C 3.4 Reduce outdoor water use
Progress	4	0	1	-	C 3.5 Design functional stormwater features as amenities
Complete	0	0	0	N/A	C 3.6 Restore aquatic ecosystem

STATUS	4	3	26	SITE DESIGN (SOIL + VEGETATION)	Possible 40 points
Progress	REQUIRED	P	4.1	Create and communicate a soil management plan	
Progress	REQUIRED	P	4.2	Control and manage invasive plants	
Progress	REQUIRED	P	4.3	Use appropriate plants	
Complete	0	0	6	0	C 4.4 Conserve healthy soils and appropriate vegetation
Complete	0	0	4	-	C 4.5 Conserve special status vegetation
Complete	0	0	6	-	C 4.6 Conserve and use native plants
Complete	0	0	6	-	C 4.7 Conserve and restore native plant communities
Progress	0	3	0	-	C 4.8 Optimize biomass
Progress	4	0	0	-	C 4.9 Reduce urban heat island effects
Complete	0	0	0	N/A	C 4.10 Use vegetation to minimize building energy use
Complete	0	0	4	0	C 4.11 Reduce the risk of catastrophic wildfire

STATUS	15	4	22	SITE DESIGN (MATERIALS SELECTION)	Possible 41 points
Progress	REQUIRED	P	5.1	Eliminate the use of wood from threatened tree species	
Complete	0	0	4	0	C 5.2 Maintain on-site structures and paving
Complete	0	0	4	-	C 5.3 Design for adaptability and disassembly
Complete	0	0	4	-	C 5.4 Use salvaged materials and plants
No Start	0	3	1	-	C 5.5 Use recycled content materials
No Start	3	1	1	-	C 5.6 Use regional materials
No Start	3	0	2	-	C 5.7 Support responsible extraction of raw materials
No Start	3	0	2	-	C 5.8 Support transparency and safer chemistry
No Start	3	0	2	-	C 5.9 Support sustainability in materials manufacturing
No Start	3	0	2	-	C 5.10 Support sustainability in plant production

STATUS	20	2	8	SITE DESIGN (HUMAN HEALTH + WELL-BEING)	Possible 30 point
Progress	3	0	0	0	C 6.1 Protect and maintain cultural and historic places
Progress	2	0	0	-	C 6.2 Provide optimum site accessibility, safety, and wayfinding
Progress	2	0	0	-	C 6.3 Promote equitable site use
Progress	2	0	0	-	C 6.4 Support mental restoration
Progress	0	2	0	-	C 6.5 Support physical activity
Progress	2	0	0	-	C 6.6 Support social connection
No Start	0	0	4	-	C 6.7 Provide on-site food production
Progress	4	0	0	-	C 6.8 Reduce light pollution
No Start	0	0	4	-	C 6.9 Encourage fuel efficient and multi-modal transportation
Progress	2	0	0	-	C 6.10 Minimize exposure to environmental tobacco smoke
No Start	3	0	0	-	C 6.11 Support local economy

STATUS	7	5	5	CONSTRUCTION	Possible 17 points
Progress	REQUIRED	P	7.1	Communicate and verify sustainable construction practices	
Progress	REQUIRED	P	7.2	Control and retain construction pollutants	
Progress	REQUIRED	P	7.3	Restore soils disturbed during construction	
No Start	3	0	2	-	C 7.4 Restore soils disturbed by previous development
No Start	4	0	0	-	C 7.5 Divert construction and demolition materials from disposal
No Start	0	3	1	-	C 7.6 Divert reusable vegetation, rocks, and soil from disposal
No Start	0	2	2	-	C 7.7 Protect air quality during construction

STATUS	12	5	5	OPERATIONS + MAINTENANCE	Possible 22 points
Progress	REQUIRED	P	8.1	Plan for sustainable site maintenance	
Progress	REQUIRED	P	8.2	Provide for storage and collection of recyclables	
Progress	3	1	1	-	C 8.3 Recycle organic matter
Progress	5	0	0	-	C 8.4 Minimize pesticide and fertilizer use
No Start	2	2	0	-	C 8.5 Reduce outdoor energy consumption
No Start	0	0	4	-	C 8.6 Use renewable sources for landscape electricity needs
Progress	2	2	0	-	C 8.7 Protect air quality during landscape maintenance

STATUS	3	8	0	EDUCATION + PERFORMANCE MONITORING	Possible 11 points
No Start	0	4	0	-	C 9.1 Promote sustainability awareness and education
No Start	3	0	0	-	C 9.2 Develop and communicate a case study
No Start	0	4	0	-	C 9.3 Plan to monitor and report site performance

STATUS	0	0	9	INNOVATION OR EXEMPLARY PERFORMANCE	Possible 9 points
No Start	0	0	9	-	C 10.1 Innovation or exemplary performance

TOTAL	89	28	79	ESTIMATED POINTS (Total possible 200)
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KEY	CERTIFICATION	Points
YES Project confident points are achievable	CERTIFIED	70
? Project striving to achieve points, not 100% confident	SILVER	85
NO Project is unable to achieve these credit points	GOLD (GOAL)	100
N/A Credit is not applicable to the project	PLATINUM	135

SITESv2 scorecard Project: Northeast Gateway Project #: 13742 MAJOR DEADLINE: 26-Mar (DO's 100% / Construction): (3-26 / 5-1) LAST UPDATED: 7/1/2021

Yes	?	No	N/A						
SITE CONTEXT Possible 13 points									
Progress	0	0	3	-	P 1.1	Limit development on farmland			
Progress	0	0	0	-	P 1.2	Protect floodplain functions			
Progress	0	0	0	-	P 1.3	Conserve aquatic ecosystems			
Progress	0	0	0	-	P 1.4	Conserve habitats for threatened and endangered species			
No Start	3	0	0	-	C 1.5	Redevelop degraded sites			
Progress	4	0	0	-	C 1.6	Locate projects within existing developed areas			
Progress	3	0	0	-	C 1.7	Connect to multi-modal transit networks			
PRE-DESIGN ASSESSMENT + PLANNING Possible 3 points									
Progress	0	0	0	-	P 2.1	Use an integrative design process			
Progress	0	0	0	-	P 2.2	Conduct a pre-design site assessment			
Progress	0	0	0	-	P 2.3	Designate and communicate VSPZs			
No Start	3	0	0	-	C 2.4	Engage users and stakeholders			
SITE DESIGN (WATER) Possible 23 points									
No Start	0	0	0	-	P 3.1	Manage precipitation on site			
Progress	0	0	0	-	P 3.2	Reduce water use for landscape irrigation			
No Start	0	0	6	-	C 3.3	Manage precipitation beyond baseline			
No Start	5	1	0	-	C 3.4	Reduce outdoor water use			
No Start	0	0	5	-	C 3.5	Design functional stormwater features as amenities			
No Start	0	0	0	-	C 3.6	Restore aquatic ecosystem			
SITE DESIGN (SOIL + VEGETATION) Possible 40 points									
Progress	0	0	0	-	P 4.1	Create and communicate a soil management plan			
Progress	0	0	0	-	P 4.2	Control and manage invasive plants			
Progress	0	0	0	-	P 4.3	Use appropriate plants			
Complete	0	0	6	0	C 4.4	Conserve healthy soils and appropriate vegetation			
Complete	0	0	4	-	C 4.5	Conserve special status vegetation			
Complete	0	0	6	-	C 4.6	Conserve and use native plants			
No Start	0	0	6	-	C 4.7	Conserve and restore native plant communities			
No Start	0	3	0	-	C 4.8	Optimize biomass			
No Start	4	0	0	-	C 4.9	Reduce urban heat island effects			
No Start	0	0	4	0	C 4.10	Use vegetation to minimize building energy use			
No Start	0	0	4	0	C 4.11	Reduce the risk of catastrophic wildfire			
SITE DESIGN (MATERIALS SELECTION) Possible 41 points									
No Start	0	4	0	0	P 5.1	Eliminate the use of wood from threatened tree species			
No Start	0	0	4	-	C 5.2	Maintain on-site structures and paving			
No Start	0	0	4	-	C 5.3	Design for adaptability and disassembly			
No Start	0	4	0	-	C 5.4	Use salvaged materials and plants			
No Start	0	3	1	-	C 5.5	Use recycled content materials			
No Start	3	1	1	-	C 5.6	Use regional materials			
No Start	3	0	2	-	C 5.7	Support responsible extraction of raw materials			
No Start	3	0	2	-	C 5.8	Support transparency and safer chemistry			
No Start	3	0	2	-	C 5.9	Support sustainability in materials manufacturing			
No Start	3	0	2	-	C 5.10	Support sustainability in plant production			
SITE DESIGN (HUMAN HEALTH + WELL-BEING) Possible 30 points									
No Start	3	0	0	0	C 6.1	Protect and maintain cultural and historic places			
No Start	2	0	0	-	C 6.2	Provide optimum site accessibility, safety, and wayfinding			
No Start	2	0	0	-	C 6.3	Promote equitable site use			
No Start	2	0	0	-	C 6.4	Support mental restoration			
No Start	0	2	0	-	C 6.5	Support physical activity			
No Start	2	0	0	-	C 6.6	Support social connection			
No Start	0	0	4	-	C 6.7	Provide on-site food production			
No Start	4	0	0	-	C 6.8	Reduce light pollution			
No Start	0	4	0	-	C 6.9	Encourage fuel efficient and multi-modal transportation			
Progress	2	0	0	-	C 6.10	Minimize exposure to environmental tobacco smoke			
No Start	0	3	0	-	C 6.11	Support local economy			
CONSTRUCTION Possible 17 points									
No Start	0	0	0	-	P 7.1	Communicate and verify sustainable construction practices			
No Start	0	0	0	-	P 7.2	Control and retain construction pollutants			
No Start	0	0	0	-	P 7.3	Restore soils disturbed during construction			
No Start	4	0	1	-	C 7.4	Restore soils disturbed by previous development			
No Start	4	0	0	-	C 7.5	Divert construction and demolition materials from disposal			
No Start	0	3	1	-	C 7.6	Divert reusable vegetation, rocks, and soil from disposal			
No Start	0	2	2	-	C 7.7	Protect air quality during construction			
OPERATIONS + MAINTENANCE Possible 22 points									
Progress	0	0	0	-	P 8.1	Plan for sustainable site maintenance			
Progress	0	0	0	-	P 8.2	Provide for storage and collection of recyclables			
Progress	3	1	1	-	C 8.3	Recycle organic matter			
Progress	5	0	0	-	C 8.4	Minimize pesticide and fertilizer use			
No Start	2	2	0	-	C 8.5	Reduce outdoor energy consumption			
No Start	0	0	4	-	C 8.6	Use renewable sources for landscape electricity needs			
Progress	2	2	0	-	C 8.7	Protect air quality during landscape maintenance			
EDUCATION + PERFORMANCE MONITORING Possible 11 points									
No Start	0	4	0	-	C 9.1	Promote sustainability awareness and education			
No Start	3	0	0	-	C 9.2	Develop and communicate a case study			
No Start	0	4	0	-	C 9.3	Plan to monitor and report site performance			
INNOVATION OR EXEMPLARY PERFORMANCE Possible 9 points									
No Start	0	0	9	-	C 10.1	Innovation or exemplary performance			
TOTAL 77 43 80 ESTIMATED POINTS (Total possible 200)									

KEY	CERTIFICATION	Points
YES	CERTIFIED	70
?	SILVER	85
NO	GOLD (GOAL)	100
N/A	PLATINUM	135

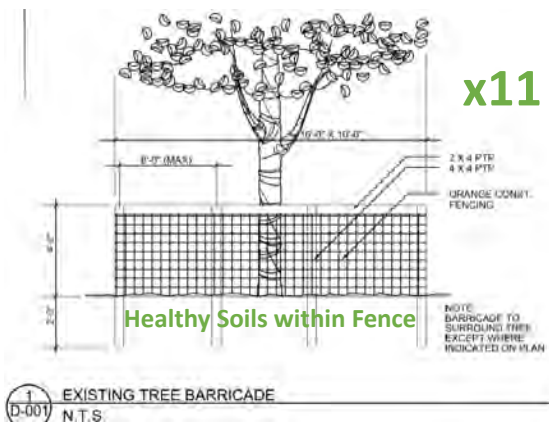
Salvaging Materials for Reuse



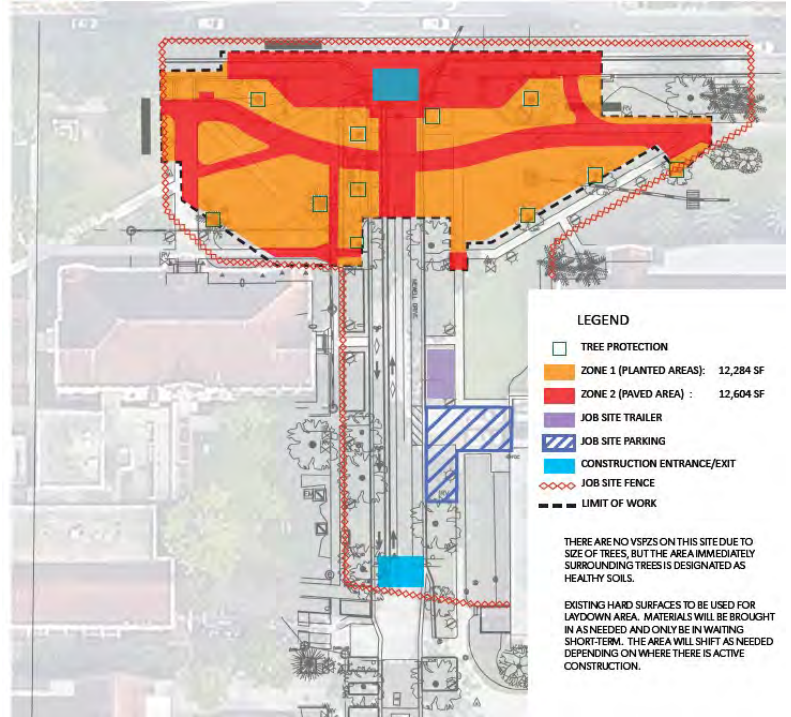
- Be mindful of our waste diversion goal of 75% (by weight)
- What materials can be reused? think cost and replacement value
- Plants
 - Need a list of plant materials already salvaged
 - Salvage plants ought to be disease free and so no sign of stress prior to moving, recommend plant societies
 - Florida native plant society
 - Florida wild flowers.org
 - Orchid society/ bromeliad/ camelias
 - Edible plant project

Soil Management Plan

Newell Gateway



Site plan



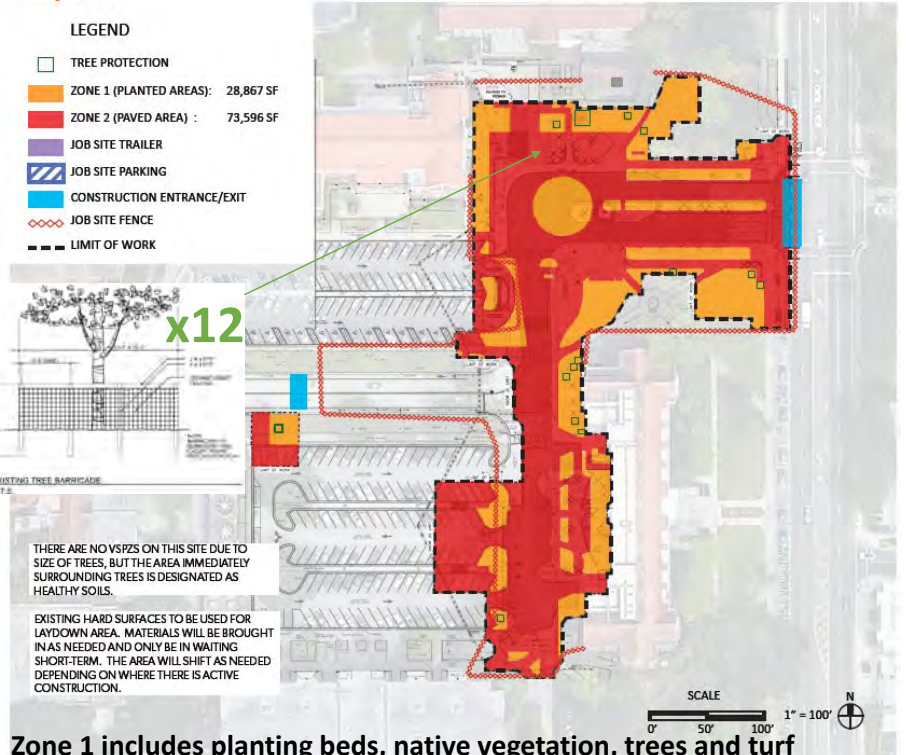
Zone 1 includes planting beds, native vegetation, trees and turf

Soil Management Plan

Northeast Gateway



Site plan



Zone 1 includes planting beds, native vegetation, trees and turf



Landscape beds will have remediated soils @12" depth
(trees @18" depth)
Landscape Topsoil conditions to meet ASTM D5268

Soil will be tested to determine amount of amendments
(UF Compost) is needed prior to adding turf

Advocacy Letters for Providers, Manufacturers and Suppliers

- 5% of material cost report annual environmental performance or provide a public strategy disclosing efforts to minimize environmental impacts through extraction criteria
- 5% of material costs transparently report inventories of all chemicals within products and their effects to human health, lifecycle hazard, by products, emissions, impurities, etc. (complete MSDS)
 - SCOPE: Decking railings, pipes, hoses, irrigation components, lighting, membranes, extruded/spray/board foam, paints and coatings, adhesives and sealants

Advocacy Letters for Providers, Manufacturers and Suppliers

- 25% of material costs support sustainable manufacturing by using materials that increase energy efficiency reduce resource consumption and waste, minimize the negative affects of human health (in air or water)
- 80% of plants, sod, seed meet at least 6 requirements below

1. Reduction of Potable Water Use
2. Reduction of Runoff from Irrigation
3. Sustainable soil Amendments/
Growing Media
4. Organic Matter Recycling
5. Waste Reduction

6. Integrated Pest Management
7. Prevention of Invasive Species
8. Reduce Energy Consumption
9. Use Renewable Energy
10. Safe and Fair Working Conditions

Punchlist

Charles Garret - CPPI

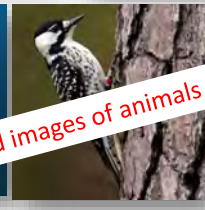
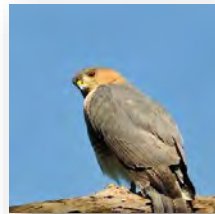
- Fill out various worksheets
 - Local construction hiring
 - Material usage
- Manage construction budget
- Verify construction material waste diversion through waste tickets
- Control and retain construction pollutants
- Communicate site assessments to construction personnel

Elizabeth Manley – Manley Design

- Photographs
- Divert construction materials by identifying onsite reclaimed materials for reuse
- Eliminate the amount of materials being wasted
- Execute strategy for restoring soil conditions
- Control and manage any invasives



Endangered Species



Free lunch to those who find images of animals in or around the jobsite



Threatened Species



Recently Removed from threatened List



Questions?



PREREQUISITE 7.2 | CONTROL AND RETAIN CONSTRUCTION POLLUTANTS

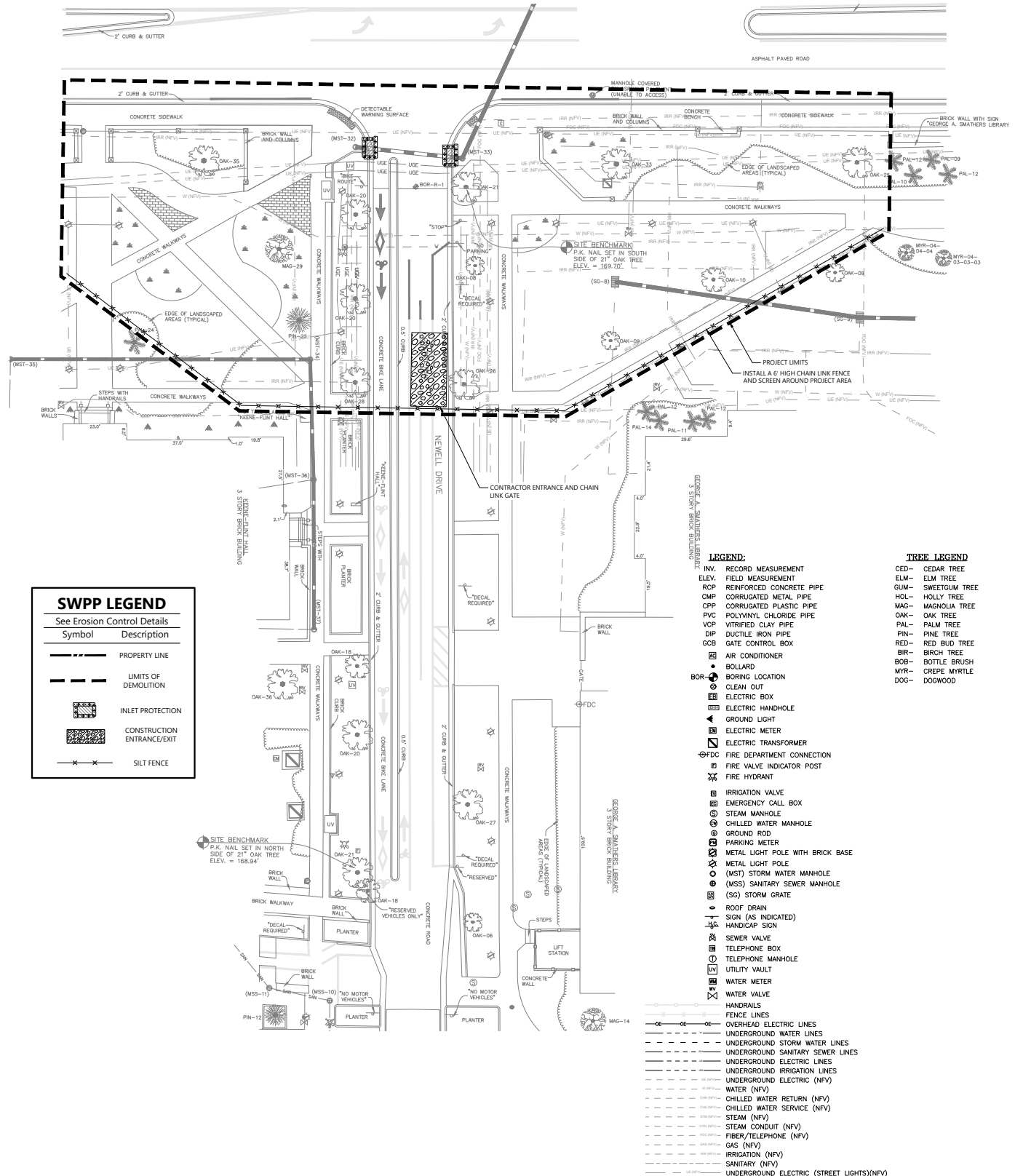
Narrative

As with most urban watersheds, erosion, sedimentation and nutrient loading are the primary water quality concerns that are common to many of the University's waterbodies. The University shall require appropriate methods of controlling soil erosion and sedimentation to help minimize the destruction of soil resources used or disturbed during site development. Such methods shall include, but are not limited to:

- Phasing and limiting the removal of vegetation;
- Minimizing the amount of land area that is cleared;
- Limiting the amount of time bare land is exposed to rainfall;
- Using temporary ground cover on cleared areas if construction is not imminent;
- Using silt fencing, hay bales, or other appropriate sediment barriers adjacent to drainage structures and areas of slope; and
- Maintaining vegetative cover on areas of high soil erosion potential (i.e., steep or long slopes, stormwater conveyances, etc.), where feasible

These methods will be implemented on site where applicable.
Refer to plan next page.

SWPPP - STORMWATER POLLUTION PREVENTION PLAN



Photos

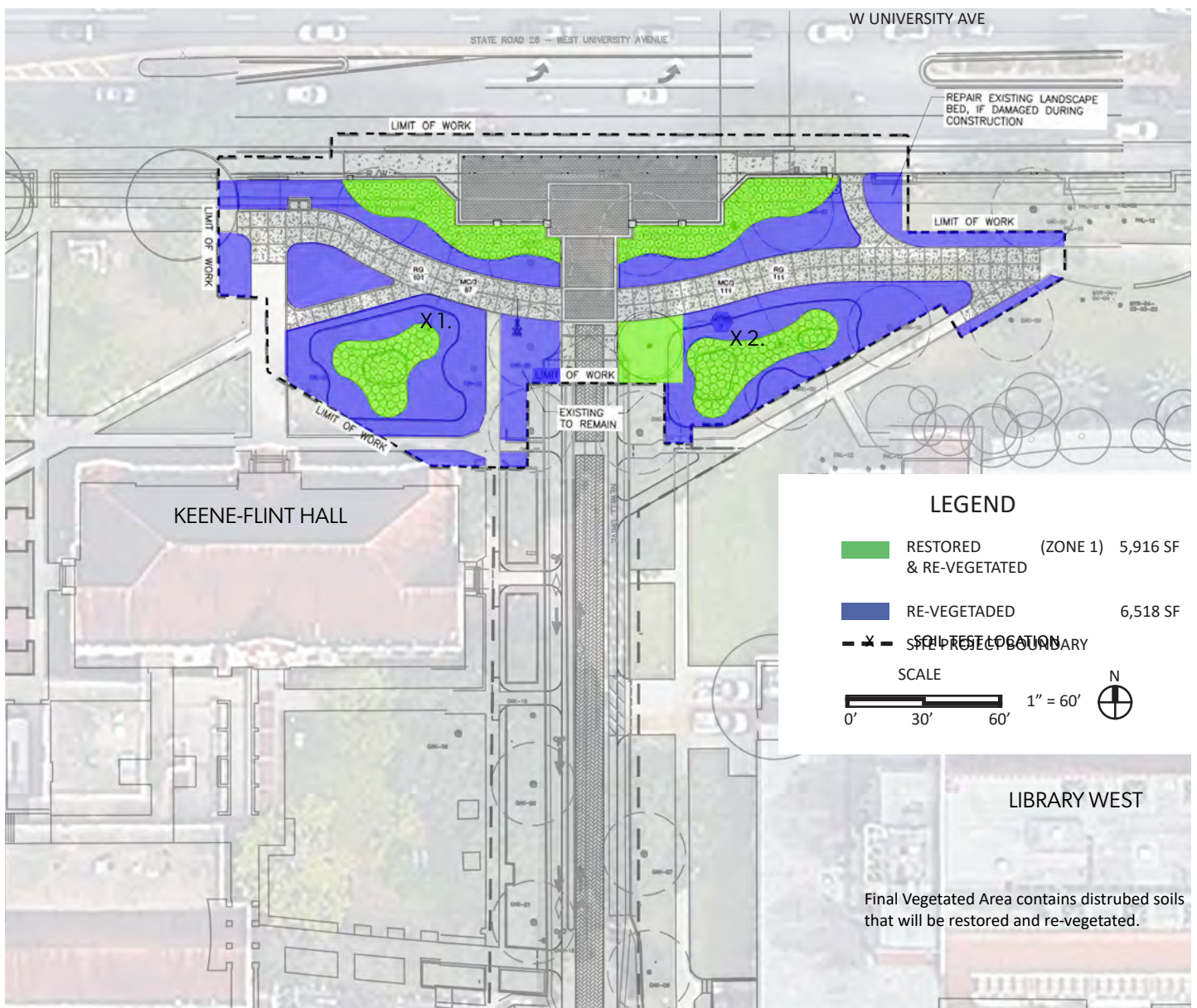


PREREQUISITE 7.3 | RESTORE SOILS DISTURBED DURING CONSTRUCTION

Narrative

Imported soils used within the planting areas of the Newell Gateway, other than the rain gardens, were placed at the required depth of 12". The imported material was procured from O'Steen Brothers of Gainesville, and consisted of stockpiled topsoil imported for the project. This topsoil was procured from other construction sites within the Gainesville area through the stripping of the top 6" of soil prior to any significant earthwork taking place. Native landscape plantings comprising the rain gardens were backfilled to a depth of 24" as required by the project documents. This specified mix, from O'Steen Brothers of Gainesville, consisted of 50% sand, 30% topsoil and 20% compost. Post construction test results are below.

Site Plan



Soil Test

The tested restored final soil conditions meet final soil restoration criteria.

- 1. Organic matter:** The top 12 - 18 in. of soil on site contains 3% of organic matter. The organic matter is provided through the addition of compost.
- 2. Compaction:** The bulk density of the final soils are \leq the reference soil bulk density of 1.2 g/cm^3 . The bulk densities do not exceed the maximum values given in P7.3 A.
- 3. Soil Chemical characteristics:** Soil chemistry is adjust for plant growth per testing lab recommendations. Refer to the soil test for PH, soluble salts, cation exchange capacity, extractable phosphorus, potassium, calcium, and magnesium.

Compaction

Soil Bulk Density Results

Sample ID	Bulk Density (g/cm^3)
Newell 1	1.23
Newell 2	1.22

Receipts

Loads	CY per Load	\$ per CY	Total
37	16	\$14	\$8,288

Organic Matter

Lab Number	Sample Id	EC ds/m	OrgMat %
E180024	Newell 1	0.20	2.22
E180025	Newell 2	0.19	2.09

Soil Test 1

Soil Test Results and Their Interpretations

Target pH: 5.5	This is the pH at which the above crop will grow at its optimum
pH (1:2 Sample:Water): 8.1	This is the pH of your sample in water medium
A-E Buffer Value: N/A	Buffer pH is the pH of your soil in Adams-Evans Buffer(A-E Buffer). This is done to determine the lime requirement, which will help increase the soil pH to the target pH level desired by the crop. If the pH is higher than Target pH, Buffer pH will not be determined

AB-DTPA Extractable Nutrients

Nutrients	Level mg/kg or ppm	Interpretation	Nutrients	Level mg/kg or ppm	
Phosphorus (P)	29	HIGH	Sulfur (S)	5.2	} *For these nutrients see directions on the following pages
Potassium (K)	50		Copper (Cu)	0.4	
Magnesium (Mg)	10		Manganese (Mn)	1.9	
		Zinc (Zn)	1.9		
Calcium (Ca)	201	Ca is typically adequate in Florida soils			

Soil Test 2

Soil Test Results and Their Interpretations

Target pH: 5.5	This is the pH at which the above crop will grow at its optimum
pH (1:2 Sample:Water): 8.2	This is the pH of your sample in water medium
A-E Buffer Value: N/A	Buffer pH is the pH of your soil in Adams-Evans Buffer(A-E Buffer). This is done to determine the lime requirement, which will help increase the soil pH to the target pH level desired by the crop. If the pH is higher than Target pH, Buffer pH will not be determined

AB-DTPA Extractable Nutrients

Nutrients	Level mg/kg or ppm	Interpretation	Nutrients	Level mg/kg or ppm	
Phosphorus (P)	29	HIGH	Sulfur (S)	5.1	} *For these nutrients see directions on the following pages
Potassium (K)	48		Copper (Cu)	0.4	
Magnesium (Mg)	9		Manganese (Mn)	1.7	
		Zinc (Zn)	1.7		
Calcium (Ca)	198	Ca is typically adequate in Florida soils			

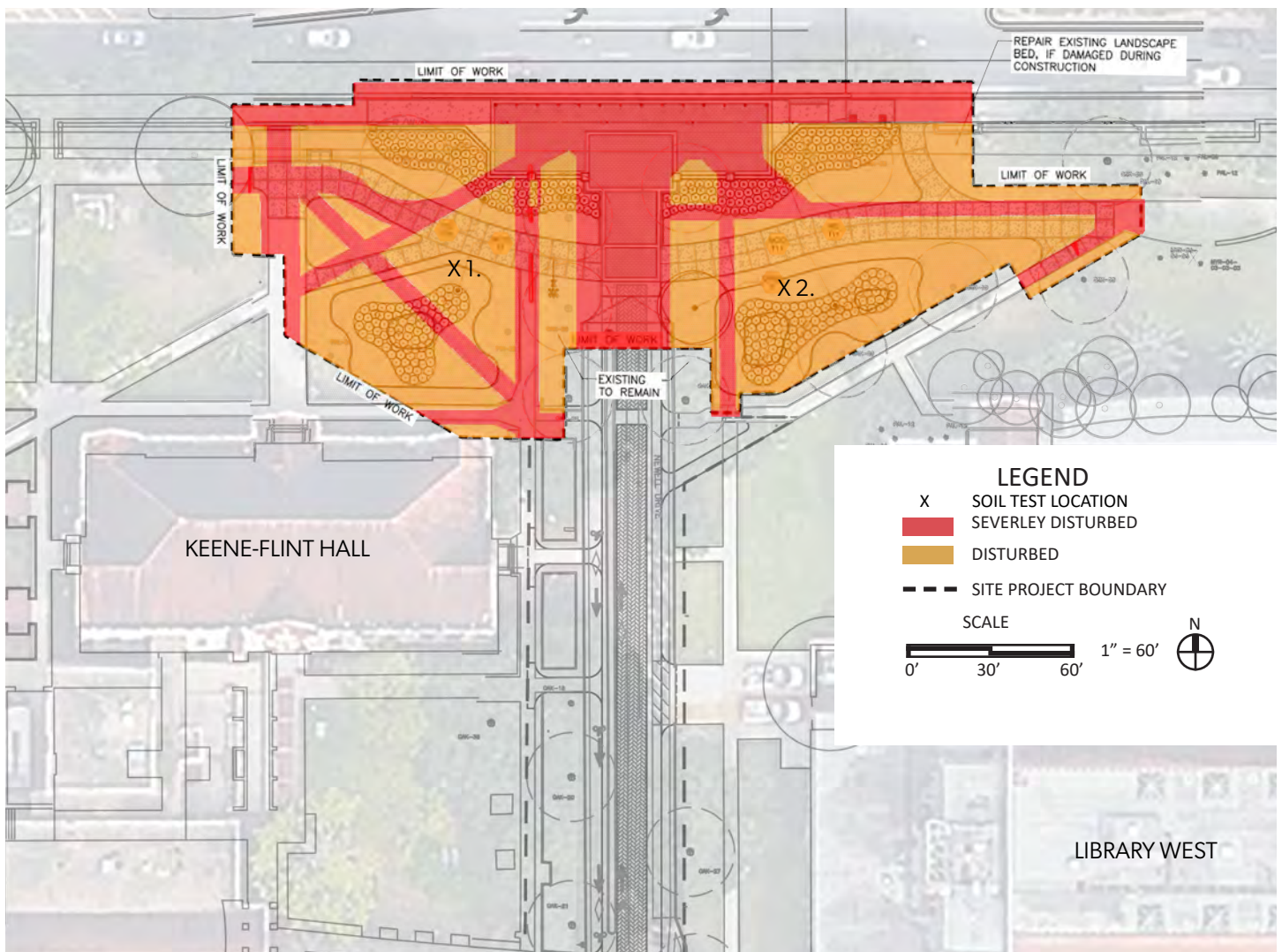
CREDIT 7.4 | RESTORE SOILS DISTURBED BY PREVIOUS DEVELOPMENT

Narrative

Goal: 3 points

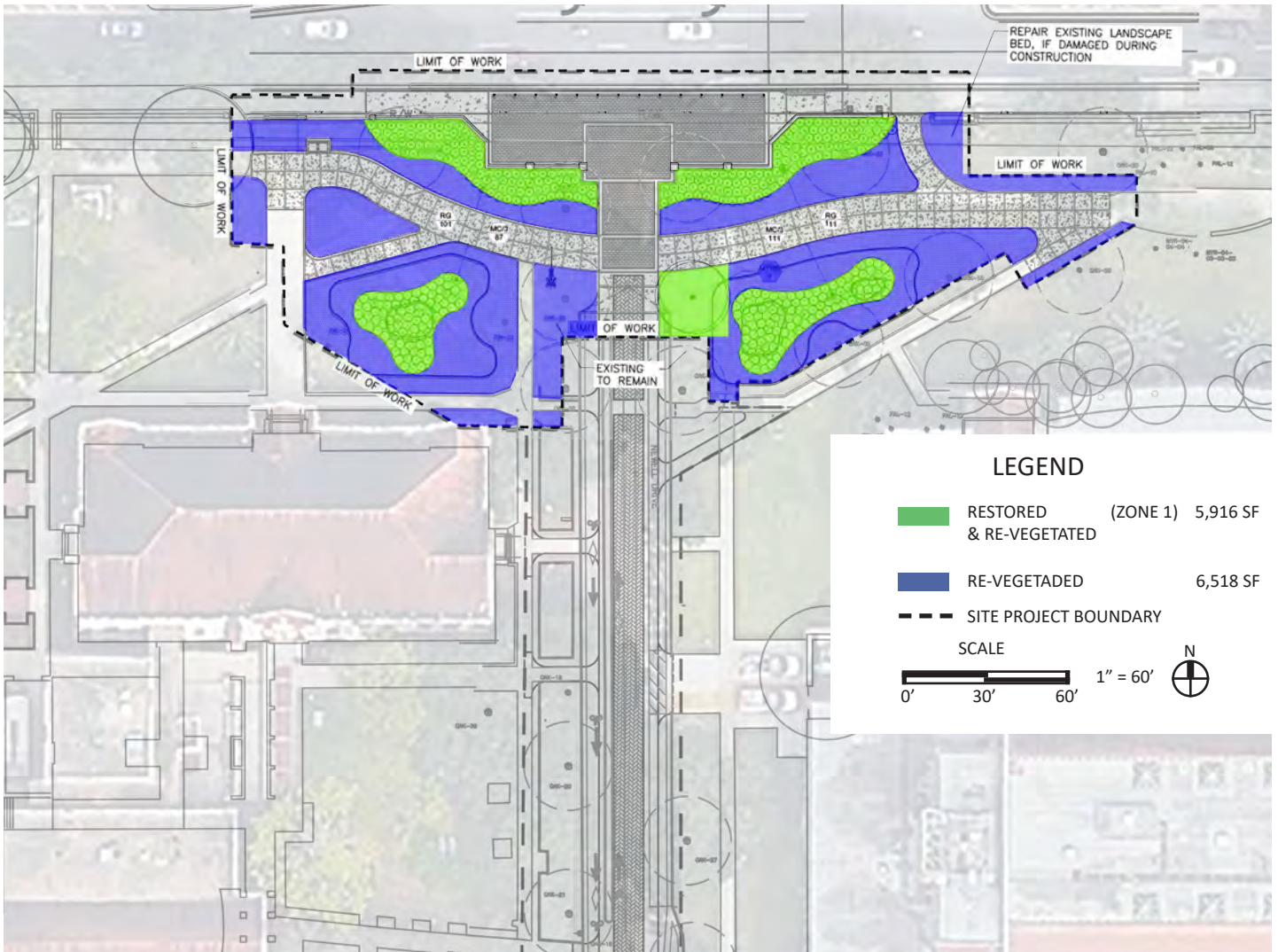
Imported soils used within the planting areas of the Newell Gateway, other than the rain gardens, were placed at the required depth of 12". The imported material was procured from O'Steen Brothers of Gainesville, and consisted of stockpiled topsoil imported for the project. This topsoil was procured from other construction sites within the Gainesville area through the stripping of the top 6" of soil prior to any significant earthwork taking place. Native landscape plantings comprising the rain gardens were backfilled to a depth of 24" as required by the project documents. This specified mix, from O'Steen of Gainesville, consisted of 50% sand, 30% topsoil and 20% compost. Post construction test results are below.

Provided is a PDF showing the degrees of disturbance of soil & quantity takeoffs. The orange shows the location for all disturbed soils. Disturbed soils are areas disturbed by human development activities such as grading, excavation, or compaction, and the red shows seriously disturbed soils are soils where topsoil was removed or not present; IE areas covered by buildings or paved surfaces.



SECTION 7: CONSTRUCTION

The total project area for the Newell Gateway is 25,038 SF, the area of restored soil & revegetated is 5,916 SF, which is 23.63% of total site area. The additional area to be re-vegetated is 6,518 SF, which is 26.03% of total site area. The total area of revegetation is 12,434 SF, which is 49.66% of total site area.



SECTION 7: CONSTRUCTION

Soil Test

UF IFAS Extension
 Project UF-656
 Mailing Address (please print)
 Name: UF PDC / Melvin Heflin Date: 5/7/21
 Address: 245 Gale Lerner and
Gainesville, FL Zip: 32601 Phone: 352 312 4667
 Email: mheflin@ufl.edu
 Signature: Melvin Heflin
 UF/IFAS Analytical Services Laboratories
 Extension Soil Testing Laboratory
 2390 Mowry Road/PO Box 110740/Wallace Building 631
 Gainesville, FL 32611-0740
 Email: soillab@ifas.ufl.edu Website: http://soillab.ifas.ufl.edu
Landscape and Vegetable Garden Test Form
 Note: This lab only tests samples from Florida.
 Direct any questions about this test or the interpretation of the results to your local UF/IFAS Extension agent.
 Please also run:
 - organic matter - CEC
 - soluble salts (EC) - sodium
 Note:
 • Consult an expert to determine if plant growth problems require soil testing.
 • These samples will not be tested for nematodes, disease organisms, or chemicals other than those listed on this form.
 • Commercial producers should use the Producers Soil Test Form SL135 (<http://edis.ifas.ufl.edu/SL135>).
 Step 1. Collect samples from your landscape or garden. See the instructions at the bottom of this page.
 Step 2. Choose EITHER Test A or B, but not both, for all samples.
 Test A. The pH and Lime Requirement Test provides the following information:
 • Soil pH
 • Lime Requirement
 Test A is appropriate if you do the following:
 1. Use only complete fertilizers (such as 16-4-8)
 2. Follow the generic fertilizer recommendations found in UF/IFAS landscape and vegetable garden publications
 3. Need only the soil pH test
 Test B. The Standard Soil Fertility Test provides the following:
 • Soil pH
 • Lime Requirement
 • P, K, Ca, Mg, S, Cu, Mn, and Zn
 Test B will enable you to tailor your use of single-element fertilizers based on existing soil fertility status. However, if you use a complete fertilizer, such as 10-10-10, the extra tests for extractable P, K, Mg, and Ca are of little value.
 Fill in all requested information, using one line per sample. Use additional forms for more than 5 samples. Remember: Choose either test A or B for each sample.

Lab Use Only	Sample ID	County	Crop Code(s) (See back of form)	Estimated Acreage	Cost of Test A	OR	Cost of Test B (Circle appropriate amount.)
	<u>Newell 1</u>	<u>Alachua</u>	<u>603, 603</u>	<u>N/A</u>	\$3	OR	<u>\$10</u>
	<u>Newell 2</u>	<u>Alachua</u>	<u>602, 603</u>	<u>N/A</u>	\$3	OR	<u>\$10</u>
					\$3	OR	\$10
					\$3	OR	\$10

 Check Money Order Cash Total \$20
 Please enclose payment and this sheet in the same package as sample(s).
 Please make checks and money orders payable to UNIVERSITY OF FLORIDA.
 Samples will not be processed without payment. Do not send cash through the mail.
How to Sample Your Lawn or Garden
 Obtain a small amount of soil from 10 to 15 different spots in the area you wish to test (a minimum of 1/2 pint). When you sample a lawn, take soil from the upper 2-4 inches. When sampling a vegetable garden or landscape plants, take soil from the upper 6 inches. If soil is wet, place soil on clean paper or other suitable material to air dry.
 Figure 1. Use a soil probe for faster soil sampling.
 Figure 2. If you don't have a soil probe, use a hand trowel, shovel, or other garden tool. Trim out soil of uniform thickness to the recommended depth.
 Figure 3. Place 10-15 soil cores into a plastic bucket; mix, dry, and transfer to a bag.
 Page 1 of 2

Compaction

Soil Bulk Density Results

Sample ID	Bulk Density (g/cm ³)
Newell 1	1.23
Newell 2	1.22

Organic Matter

Lab Number	Sample Id	EC ds/m	OrgMat %
E180024	Newell 1	0.20	2.22
E180025	Newell 2	0.19	2.09

Receipts

Topsoil Delivery Ticket Calculations - UF-656

Loads	CY per Load	\$ per CY	Total
37	16	\$14	\$8,288

Soil Test 1

Soil Test Results and Their Interpretations

Target pH: 5.5	This is the pH at which the above crop will grow at its optimum
pH (1:2 Sample:Water): 8.1	This is the pH of your sample in water medium
A-E Buffer Value: N/A	Buffer pH is the pH of your soil in Adams-Evans Buffer(A-E Buffer). This is done to determine the lime requirement, which will help increase the soil pH to the target pH level desired by the crop. If the pH is higher than Target pH, Buffer pH will not be determined

AB-DTPA Extractable Nutrients

Nutrients	Level mg/kg or ppm	Interpretation	Nutrients	Level mg/kg or ppm	
Phosphorus (P)	29	HIGH	Sulfur (S)	5.2	} *For these nutrients see directions on the following pages
Potassium (K)	50		Copper (Cu)	0.4	
Magnesium (Mg)	10		Manganese (Mn)	1.9	
		Zinc (Zn)	1.9		
Calcium (Ca)	201	Ca is typically adequate in Florida soils			

Soil Test 2

Soil Test Results and Their Interpretations

Target pH: 5.5	This is the pH at which the above crop will grow at its optimum
pH (1:2 Sample:Water): 8.2	This is the pH of your sample in water medium
A-E Buffer Value: N/A	Buffer pH is the pH of your soil in Adams-Evans Buffer(A-E Buffer). This is done to determine the lime requirement, which will help increase the soil pH to the target pH level desired by the crop. If the pH is higher than Target pH, Buffer pH will not be determined

AB-DTPA Extractable Nutrients

Nutrients	Level mg/kg or ppm	Interpretation	Nutrients	Level mg/kg or ppm	
Phosphorus (P)	29	HIGH	Sulfur (S)	5.1	} *For these nutrients see directions on the following pages
Potassium (K)	48		Copper (Cu)	0.4	
Magnesium (Mg)	9		Manganese (Mn)	1.7	
		Zinc (Zn)	1.7		
Calcium (Ca)	198	Ca is typically adequate in Florida soils			

CREDIT 7.5 | DIVERT CONSTRUCTION AND DEMOLITION MATERIALS FROM DISPOSAL

Calculations

Goal: 4 points

During construction of the Newell Gateways the contractor, CPPI, took extensive measures to ensure that we met the project goal of diverting 75% of structural materials and 95% of road and infrastructure materials from the job sites by recycling, salvaging, or reusing on the project. Materials considered under the structural materials designation include but are not limited to: bricks, steel, and wood. Materials considered under infrastructure and road materials include but are not limited to: pavement and drainage structures. For all structural materials with the project, CPPI made a list of all materials to keep track of that were deemed structural by SITES' definition stated above. From this list, we devised a plan on site for properly disposing of/reusing these structural materials back into the project sites as follows:

- For waste, CPPI placed 1 dumpster at the project site during the entire duration of construction to collect all waste material that could not be recycled during the project.
- For recyclables, CPPI stacked all recyclable materials near the dumpster and called a recycling agency to collect the recyclable materials on site when a sufficient load could be taken.
- For reusable material, CPPI stacked these away from the dumpster & wrapped in plastic wrap to be reused on each project site as needed and transported using heavy equipment.

We then setup meetings to implement these plans with the subcontractors responsible to assist CPPI with keeping track of specific materials that fell under their scope of work and eligible to be recycled or reused on the project. If the material fit neither of these categories, the subcontractor was then directed to dispose in the waste dumpster. CPPI kept a log of the tonnage of each material that was disposed in waste, recyclable, and reused on the project and calculated the percentage amount recycled or reused based on the total quantities calculated. For all road and infrastructure materials with the project, CPPI made a list of all materials to keep track of that were deemed road and infrastructure by SITES' definition stated above. From this list, we devised a plan on site for properly disposing of/reusing these road and infrastructure materials back into the project sites as follows:

- For waste, CPPI placed 1 dumpster at the project site during the entire duration of construction to collect all waste material that could not be recycled during the project.
- For recyclables, CPPI stacked all recyclable materials near the dumpster and called a recycling agency to collect the recyclable materials on site when a sufficient load could be taken.
- For reusable material, CPPI stacked these away from the dumpster & wrapped in plastic wrap to be reused on each project site as needed and transported using heavy equipment.

We then setup meetings to implement these plans with the subcontractors responsible to assist CPPI with keeping track of specific materials that fell under their scope of work and eligible to be recycled or reused on the project. If the material fit neither of these categories, the subcontractor was then directed to dispose in the waste dumpster. CPPI kept a log of the tonnage of each material that was disposed in waste, recyclable, and reused on the project and calculated the percentage amount recycled or reused based on the total quantities calculated.

Due to the scope of work for this project, most of the reported values for waste diversion related to road & infrastructure material. The only existing structure was an existing wall in the Newell Gateway boundary. When talking with our team, it was determined that the split between road & infrastructure & structural waste diverted from landfill was a 96%-4% road & infrastructure – structural. All of the C&D landfill waste reported is related to structural waste, showing that 100% of all road & infrastructure material was diverted from waste. Reworking the calculations, it was found that 50.77% of the structural waste from the existing wall was diverted from landfill.

CREDIT 7.6 | DIVERT REUSABLE VEGETATION, ROCKS, AND SOIL FROM DISPOSAL

Narrative

Goal: 4 points

100% of all plant material, rock waste, and soils generated during the land-clearing activities have been retained on site. The location of receiving agent is located 2 miles away from the project site, but is retained on the UF campus. The calculations provided for the waste reporting log for land clearing debris represents the total weight of all land clearing debris (plants, rocks, soils, etc.) that was reallocated for use throughout the site. Nothing was hauled off the site during construction for any land clearing debris. This value does not include invasive plant species, which were demolished from the project sites & relocated to another farm within 50 miles of the project. From the calculations, the total weight of all land clearing debris equals 516.13 tons for both Newell & Northeast projects, with broken out values provided with the recalculations.

As the construction manager of the project, I Charles Garrett, confirm that 100% of all plant material, rock waste, and soils generated during the land-clearing activities have been retained on site.

Charles Garrett

10/27/2022 | 1:30 PM EDT

Documentation



Location of Receiving Agents



Signature

A handwritten signature in blue ink, appearing to read 'Mark K. ...'.

CREDIT 7.7 | PROTECT AIR QUALITY DURING CONSTRUCTION

Narrative

Goal: 4 points

This policy was enforced by all personnel from Charles Perry Partners, Inc. as well as the foreman from subcontractors using the heavy equipment (i.e. Hicks Asphalt Paving and Concrete & Utility Service of Gainesville, Inc.). A meeting took place with all applicable personnel to issue the policy and ensure everyone is aware of the standard for the project. If there was anyone who failed to follow this policy, a 3-strike limit would have been enforced, with the 1st and 2nd strikes being warnings and the 3rd strike being termination from the job site. At which time this occurs, if at all, the subcontractor at fault will be responsible for providing additional personnel to continue the flow of work without delaying the project schedule.

Construction Equipment Used On Site

All of the machines are equipped with Tier IV Final emissions equipment.

There are no records of the fuel purchased for the equipment because they are refilled from fuel cells on the work trucks.

USI Fuel Consumption

• 2020 CAT 323 Excavator (2.7-4.0 gph)	111.2 hrs.	~372.4 gallons
• 2020 CAT 305E2 Mini Excavator (1-1.5 gph)	103.2 hrs.	~134 gallons
• 2020 Volvo L60H Wheel Loader (1.4-2.0 gph)	191.2 hrs	~325.2 gallons
• 2021 CAT 420 Backhoe (1.5-2.7 gph)	113.2 hrs.	~238 gallons

Hicks Fuel Consumption

• CAT D5K Bulldozer (3.0 gph)	320 hrs.	~960 gallons
• JD 544 Front End Loader (2.0 gph)	320 hrs.	~640 gallons
• CAT 316 Excavator (2.5 gph)	320 hrs	~800 gallons
• 289 Skid Steer (2.0 gph)	320 hrs.	~640 gallons
• CAT 1000 Paver (4.0 gph)	320 hrs.	~1,290 gallons
• CB54B Roller (2.3 gph)	320 hrs.	~736 gallons
• JD670D Grader (2.0 gph)	320 hrs.	~640 gallons

All equipment fully serviced at 4000 hrs.

Policy



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UF-656 Landscape Master Plan – C7.7 Idle Reduction Policy

Background

Air pollution is a huge concern for ground-level ozone emissions from heavy equipment diesel engines on construction sites. This impacts worker health as well as quality of life for construction workers and citizens living in the area. Heavy equipment exhaust, including that from idling heavy equipment, contributes tremendously to air pollution in the area.

Statement of Purpose

The purpose of this policy is to protect the health of the workers, pedestrians, and environment from exposure to equipment exhaust; reduce engine wear on equipment; decrease fuel consumption; & minimize costs.

Definition

For this policy, the term “heavy equipment” refers to diesel engine vehicles such as dozers, excavators, backhoes, etc. operated by subcontractors on the jobsite to complete tasks for the project. All heavy equipment regardless of tier rating used ultra-low sulfur diesel when working on the project. Engine tiers for each piece of equipment is defined as follows:

- Tier 1 – an engine subject to tier 1 new engine emission standards in title 13, CCR, section 2423(b)(1)(A) and/or title 40, CFR, part 89.112(a).
- Tier 2 – an engine subject to tier 2 new engine emission standards in title 13, CCR, section 2423(b)(1)(A) and/or title 40, CFR, part 89.112(a).
- Tier 3 - an engine subject to tier 3 new engine emission standards in title 13, CCR, section 2423(b)(1)(A) and/or title 40, CFR, part 89.112(a).
- Tier 4 - an engine subject to tier 4 new engine emission standards in title 13, CCR, section 2423(b)(1)(A) and/or title 40, CFR, part 89.112(a).

Statement of Policy

It is the policy from Charles Perry Partners, Inc. to enforce on all subcontractors utilizing heavy equipment, specifically Hicks Asphalt Paving and Concrete & Utility Service of Gainesville, Inc., to have operators turn off equipment engines and not sit idle for more than 5 minutes if work is not being conducted. Work includes, but is not limited to:

- Excavation
- Installing asphalt base
- Grading

Exemptions

This policy of turning off equipment engines when stopped does not apply for the periods during which idling is necessary according to the following situations:

1. Work is being conducted during times where no sunlight is available (early morning & late evening)
2. When direction of work is unclear and clarification to continue operating is necessary for periods of 15 minutes or less
3. When work requires equipment to hold heavy material in place to be installed

In any of these cases, if equipment can be run from battery, operators should refrain from idling unless there is major concern with draining the battery.

Implementation

This policy will be effective until the end of the construction project.



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- Final drive oil level (Front) – Check
 - Final drive oil level (Rear) – Check
 - Power side-shift stabilizer wear pads – Inspect
 - Side-shift stabilizer wear pads – Inspect/Adjust
- 500 service hours:
 - Cooling system coolant sample (Level 1) – Obtain
 - Differential oil sample (Front) – Obtain
 - Differential oil sample (Rear) – Obtain
 - Drive shaft spline – Lubricate
 - Engine oil & filter – Change
 - Final drive oil sample (Front) – Obtain
 - Final drive oil sample (Rear) – Obtain
 - Fuel system filter & water separator – Replace
 - Fuel system secondary filter – Replace
 - Hydraulic oil sample – Obtain
 - Hydraulic system oil filter – Replace
 - Transmission oil filter – Replace
 - Transmission oil sample – Obtain
- 1,000 service hours:
 - Differential oil (Front) – Change
 - Differential oil (Rear) – Change
 - Engine valve lash – Check
 - Final drive oil (Front) – Change
 - Final drive oil (Rear) – Change
 - Rollover protective structure (ROPS) – Inspect
 - Transmission magnetic screen – Clean
 - Transmission oil – Change
 - Wheel bearings (Front) – Lubricate
- 2,000 service hours:
 - Engine crankcase breather – Replace
 - Hydraulic system oil – Change
 - Receiver dryer (Refrigerant) – Replace
- Every year:
 - Cooling system coolant sample (Level 2) – Obtain
- 3,000 service hours:
 - Cooling system water temperature regulator – Clean/Replace
- Every 3 years after date of installation:
 - Seat belt – Replace
- 6,000 service hours:
 - Cooling system coolant extender (ELC) – Add
- 12,000 service hours:
 - Cooling system coolant (ELC) – Change
- Volvo L60H (Wheel Loader)

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www.cppi.com



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- Every 1,000 service hours
 - Engine oil – Replace
- Cat D5K (Bulldozer)
 - Every 4,000 service hours
 - Full service maintenance
- JD 544 (Front End Loader)
 - Every 4,000 service hours
 - Full service maintenance
- CAT 316 (Excavator)
 - Every 4,000 service hours
 - Full service maintenance
- CAT 289D (Skid Steer)
 - Every 4,000 service hours
 - Full service maintenance
- CAT AP1000 (Paver)
 - Every 4,000 service hours
 - Full service maintenance
- CAT CB54B (Roller)
 - Every 4,000 service hours
 - Full service maintenance
- John Deere 670D (Grader)
 - Every 4,000 service hours
 - Full service maintenance

Fuel Purchase Records

Hicks Invoices

INVOICE

UNITED FUELS
P. O. BOX 2030
CHIEFLAND, FL 32644
352-493-4784

PLEASE REMIT TO
UNITED FUELS
P.O. BOX 2298
CHIEFLAND, FL 32644

SOLD TO: 6166
Hicks Seal Coating and Striping
RONNIE HICKS
5610 SW CR 313
Trenton FL 32693

SHIP TO: 6166
Company Name: Hicks Seal Coating and Striping
Contact Name: RONNIE HICKS
Address: 5610 SW CR 313
City/State: Trenton FL 32693
Phone: (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
158979		8/19/2021	8/19/2021		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.	380.00	\$2.500290			\$950.11
FLORIDA SCETS TAX	380.00	\$0.080000			\$30.40
FLORIDA LOCAL OPT. TAX - DIESEL	380.00	\$0.060000			\$22.80
FLORIDA 9TH CENT GILCHRIST	380.00	\$0.010000			\$3.80
FEDERAL EXCISE DIESEL	380.00	\$0.244000			\$92.72
FLORIDA EXCISE DIESEL	380.00	\$0.185000			\$70.30
FLORIDA COASTAL PROTECTION	380.00	\$0.000480			\$0.18
FLORIDA WATER QUALITY	380.00	\$0.001190			\$0.45
FLORIDA INLAND PROTECTION	380.00	\$0.019040			\$7.24
Extra Charges Subtotal:					\$227.89
ULS CLR DSL Total:	380.00	\$3.100000			\$1,178.00

BOL #	
d-157427	

Subtotal:	\$950.11
Extra Charges:	\$227.89
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$1,178.00

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Phone: (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
162253		10/12/2021	10/12/2021		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
90 MARINE FUEL MARINE FUEL	234.00	\$2.960150			\$692.68
CHV INLAND PROTECTION	234.00	\$0.019040			\$4.46
FL COASTAL PROTECTION	234.00	\$0.000480			\$0.11
FEDERAL OIL SPILL RECOVERY - DIE	234.00	\$0.002140			\$0.50
LEVY COUNTY ABOVE MINIMUM					\$0.00
LEVY COUNTY FUEL TAX	234.00	\$0.188000			\$43.99
FLORIDA WATER QUALITY	234.00	\$0.001190			\$0.28
FLORIDA EXCISE	234.00	\$0.185000			\$43.29
FED EXCISE	234.00	\$0.184000			\$43.06
Extra Charges Subtotal:					\$135.69
90 MARINE FUEL Total:	234.00	\$3.540043			\$828.37

BOL #	
d-160677	

Subtotal:	\$692.68
Extra Charges:	\$135.69
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$828.37

INVOICE

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City/State: Trenton FL 32693
Phone: (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
160665		9/16/2021	9/16/2021		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
90 MARINE FUEL MARINE FUEL	200.00	\$2.720150			\$544.03
CHV INLAND PROTECTION	200.00	\$0.019040			\$3.81
FL COASTAL PROTECTION	200.00	\$0.000480			\$0.10
FEDERAL OIL SPILL RECOVERY - DIE	200.00	\$0.002140			\$0.43
LEVY COUNTY ABOVE MINIMUM					\$0.00
LEVY COUNTY FUEL TAX	200.00	\$0.188000			\$37.60
FLORIDA WATER QUALITY	200.00	\$0.001190			\$0.24
FLORIDA EXCISE	200.00	\$0.185000			\$37.00
FED EXCISE	200.00	\$0.184000			\$36.80
Extra Charges Subtotal:					\$115.98
90 MARINE FUEL Total:	200.00	\$3.300050			\$660.01
ULS CLR DSL UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.	779.00	\$2.350290			\$1,830.88
FLORIDA SCETS TAX	779.00	\$0.080000			\$62.32
FLORIDA LOCAL OPT. TAX - DIESEL	779.00	\$0.060000			\$46.74
FLORIDA 9TH CENT GILCHRIST	779.00	\$0.010000			\$7.79
FEDERAL EXCISE DIESEL	779.00	\$0.244000			\$190.08
FLORIDA EXCISE DIESEL	779.00	\$0.185000			\$144.12
FLORIDA COASTAL PROTECTION	779.00	\$0.000480			\$0.37
FLORIDA WATER QUALITY	779.00	\$0.001190			\$0.93
FLORIDA INLAND PROTECTION	779.00	\$0.019040			\$14.83
Extra Charges Subtotal:					\$467.18
ULS CLR DSL Total:	779.00	\$2.950013			\$2,298.06

BOL #	
D-159098	

Subtotal:	\$2,374.91
Extra Charges:	\$683.16
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,958.07

INVOICE

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P. O. BOX 2030
CHIEFLAND, FL 32644
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Company Name: Hicks Seal Coating and Striping
Contact Name: RONNIE HICKS
Address: 5610 SW CR 313
City/State: Trenton FL 32693
Phone: (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
164895		11/24/2021	11/24/2021		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.	576.00	\$2.800290			\$1,612.97
FLORIDA SCETS TAX	576.00	\$0.080000			\$46.08
FLORIDA LOCAL OPT. TAX - DIESEL	576.00	\$0.060000			\$34.56
FLORIDA 9TH CENT GILCHRIST	576.00	\$0.010000			\$5.76
FEDERAL EXCISE DIESEL	576.00	\$0.244000			\$140.54
FLORIDA EXCISE DIESEL	576.00	\$0.185000			\$106.56
FLORIDA COASTAL PROTECTION	576.00	\$0.000480			\$0.28
FLORIDA WATER QUALITY	576.00	\$0.001190			\$0.69
FLORIDA INLAND PROTECTION	576.00	\$0.019040			\$10.97
Extra Charges Subtotal:					\$345.44
ULS CLR DSL Total:	576.00	\$3.400017			\$1,958.41

BOL #	
d-163294	

Subtotal:	\$1,612.97
Extra Charges:	\$345.44
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$1,958.41

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P. O. BOX 2030
CHIEFLAND, FL 32644
352-493-4784

PLEASE REMIT TO
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CHIEFLAND, FL 32644

SOLD TO: 6166
Hicks Seal Coating and Striping
RONNIE HICKS
5610 SW CR 313
Trenton FL 32693

SHIP TO: 6166
Company Name Hicks Seal Coating and Striping
Contact Name RONNIE HICKS
Address 5610 SW CR 313
City/State Trenton FL 32693
Phone (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
166183		12/16/2021	12/16/2021		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		467.00	\$2.900290	\$1,354.44
	FLORIDA SCETS TAX		467.00	\$0.080000	\$37.36
	FLORIDA LOCAL OPT. TAX - DIESEL		467.00	\$0.065000	\$28.02
	FLORIDA 9TH CENT GILCHRIST		467.00	\$0.010000	\$4.67
	FEDERAL EXCISE DIESEL		467.00	\$0.244000	\$113.95
	FLORIDA EXCISE DIESEL		467.00	\$0.185000	\$86.40
	FLORIDA COASTAL PROTECTION		467.00	\$0.000480	\$0.22
	FLORIDA WATER QUALITY		467.00	\$0.001190	\$0.56
	FLORIDA INLAND PROTECTION		467.00	\$0.019040	\$8.89
	Extra Charges Subtotal:				\$280.07
	ULS CLR DSL Total:		467.00	\$3.500021	\$1,634.51

BOL #	
p-164583	

Subtotal:	\$1,354.44
Extra Charges:	\$280.07
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$1,634.51

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Invoice #	PO #	Delivery Date	Due Date		
168137		1/20/2022	1/20/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		647.00	\$2.737290	\$1,771.03
	FLORIDA SCETS TAX		647.00	\$0.083000	\$53.70
	FLORIDA LOCAL OPT. TAX - DIESEL		647.00	\$0.065000	\$42.06
	FLORIDA 9TH CENT GILCHRIST		647.00	\$0.010000	\$6.47
	FEDERAL EXCISE DIESEL		647.00	\$0.244000	\$157.87
	FLORIDA EXCISE DIESEL		647.00	\$0.190000	\$122.83
	FLORIDA COASTAL PROTECTION		647.00	\$0.000480	\$0.31
	FLORIDA WATER QUALITY		647.00	\$0.001190	\$0.77
	FLORIDA INLAND PROTECTION		647.00	\$0.019040	\$12.32
	Extra Charges Subtotal:				\$396.43
	ULS CLR DSL Total:		647.00	\$3.350015	\$2,167.46

BOL #	
D-166538	

Subtotal:	\$1,771.03
Extra Charges:	\$396.43
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,167.46

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Hicks Seal Coating and Striping
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Trenton FL 32693

SHIP TO: 6166
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Address 5610 SW CR 313
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Phone (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
169704		2/15/2022	2/15/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		657.00	\$3.087290	\$2,028.35
	FLORIDA SCETS TAX		657.00	\$0.083000	\$54.53
	FLORIDA LOCAL OPT. TAX - DIESEL		657.00	\$0.065000	\$42.71
	FLORIDA 9TH CENT GILCHRIST		657.00	\$0.010000	\$6.57
	FEDERAL EXCISE DIESEL		657.00	\$0.244000	\$160.31
	FLORIDA EXCISE DIESEL		657.00	\$0.190000	\$124.83
	FLORIDA COASTAL PROTECTION		657.00	\$0.000480	\$0.32
	FLORIDA WATER QUALITY		657.00	\$0.001190	\$0.78
	FLORIDA INLAND PROTECTION		657.00	\$0.019040	\$12.51
	Extra Charges Subtotal:				\$402.56
	ULS CLR DSL Total:		657.00	\$3.700015	\$2,430.91

BOL #	
d-168130	

Subtotal:	\$2,028.35
Extra Charges:	\$402.56
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,430.91

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Address 5610 SW CR 313
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Invoice #	PO #	Delivery Date	Due Date		
171211		3/16/2022	3/16/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		605.00	\$3.787290	\$2,291.31
	FLORIDA SCETS TAX		605.00	\$0.083000	\$50.22
	FLORIDA LOCAL OPT. TAX - DIESEL		605.00	\$0.065000	\$39.33
	FLORIDA 9TH CENT GILCHRIST		605.00	\$0.010000	\$6.05
	FEDERAL EXCISE DIESEL		605.00	\$0.244000	\$147.62
	FLORIDA EXCISE DIESEL		605.00	\$0.190000	\$114.95
	FLORIDA COASTAL PROTECTION		605.00	\$0.000480	\$0.29
	FLORIDA WATER QUALITY		605.00	\$0.001190	\$0.72
	FLORIDA INLAND PROTECTION		605.00	\$0.019040	\$11.52
	Extra Charges Subtotal:				\$370.70
	ULS CLR DSL Total:		605.00	\$4.400017	\$2,662.01

BOL #	
d-169598	

Subtotal:	\$2,291.31
Extra Charges:	\$370.70
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,662.01

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Invoice #	PO #	Delivery Date	Due Date		
172879		4/14/2022	4/14/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		200.00	\$4.287290	\$857.46
	FLORIDA SCETS TAX		200.00	\$0.083000	\$16.60
	FLORIDA LOCAL OPT. TAX - DIESEL		200.00	\$0.065000	\$13.00
	FLORIDA 9TH CENT GILCHRIST		200.00	\$0.010000	\$2.00
	FEDERAL EXCISE DIESEL		200.00	\$0.244000	\$48.80
	FLORIDA EXCISE DIESEL		200.00	\$0.190000	\$38.00
	FLORIDA COASTAL PROTECTION		200.00	\$0.000480	\$0.10
	FLORIDA WATER QUALITY		200.00	\$0.001190	\$0.24
	FLORIDA INLAND PROTECTION		200.00	\$0.019040	\$3.81
	Extra Charges Subtotal:				\$122.55
	ULS CLR DSL Total:		200.00	\$4.900050	\$980.01

BOL #
D-171323

Subtotal:	\$857.46
Extra Charges:	\$122.55
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$980.01

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 5610 SW CR 313
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Invoice #	PO #	Delivery Date	Due Date		
176822		6/21/2022	6/21/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		274.00	\$5.137290	\$1,407.62
	FLORIDA SCETS TAX		274.00	\$0.083000	\$22.74
	FLORIDA LOCAL OPT. TAX - DIESEL		274.00	\$0.065000	\$17.81
	FLORIDA 9TH CENT GILCHRIST		274.00	\$0.010000	\$2.74
	FEDERAL EXCISE DIESEL		274.00	\$0.244000	\$66.86
	FLORIDA EXCISE DIESEL		274.00	\$0.190000	\$52.06
	FLORIDA COASTAL PROTECTION		274.00	\$0.000480	\$0.13
	FLORIDA WATER QUALITY		274.00	\$0.001190	\$0.33
	FLORIDA INLAND PROTECTION		274.00	\$0.019040	\$5.22
	Extra Charges Subtotal:				\$167.89
	ULS CLR DSL Total:		274.00	\$5.750036	\$1,575.51

BOL #
D-175167

Subtotal:	\$1,407.62
Extra Charges:	\$167.89
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$1,575.51

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Phone (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
174884		5/18/2022	5/18/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		405.00	\$4.387290	\$1,776.85
	FLORIDA SCETS TAX		405.00	\$0.083000	\$33.62
	FLORIDA LOCAL OPT. TAX - DIESEL		405.00	\$0.065000	\$26.33
	FLORIDA 9TH CENT GILCHRIST		405.00	\$0.010000	\$4.05
	FEDERAL EXCISE DIESEL		405.00	\$0.244000	\$98.82
	FLORIDA EXCISE DIESEL		405.00	\$0.190000	\$76.95
	FLORIDA COASTAL PROTECTION		405.00	\$0.000480	\$0.19
	FLORIDA WATER QUALITY		405.00	\$0.001190	\$0.48
	FLORIDA INLAND PROTECTION		405.00	\$0.019040	\$7.71
	Extra Charges Subtotal:				\$248.15
	ULS CLR DSL Total:		405.00	\$5.000000	\$2,025.00

BOL #
D-173245

Subtotal:	\$1,776.85
Extra Charges:	\$248.15
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,025.00

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 Hicks Seal Coating and Striping
 RONNIE HICKS
 5610 SW CR 313
 Trenton FL 32693

SHIP TO: 6166
Company Name Hicks Seal Coating and Striping
Contact Name RONNIE HICKS
Address 5610 SW CR 313
City/State Trenton FL 32693
Phone (352) 535-5479

Invoice #	PO #	Delivery Date	Due Date		
176250		7/14/2022	7/14/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL	UNDYED ULTRA LOW SULFUR DIESEL 15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE OF DYE.		453.00	\$4.387290	\$1,987.44
	FLORIDA SCETS TAX		453.00	\$0.083000	\$37.60
	FLORIDA LOCAL OPT. TAX - DIESEL		453.00	\$0.065000	\$29.45
	FLORIDA 9TH CENT GILCHRIST		453.00	\$0.010000	\$4.53
	FEDERAL EXCISE DIESEL		453.00	\$0.244000	\$110.53
	FLORIDA EXCISE DIESEL		453.00	\$0.190000	\$86.07
	FLORIDA COASTAL PROTECTION		453.00	\$0.000480	\$0.22
	FLORIDA WATER QUALITY		453.00	\$0.001190	\$0.54
	FLORIDA INLAND PROTECTION		453.00	\$0.019040	\$8.63
	Extra Charges Subtotal:				\$277.57
	ULS CLR DSL Total:		453.00	\$5.000022	\$2,265.01

BOL #
D-176596

Subtotal:	\$1,987.44
Extra Charges:	\$277.57
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$2,265.01

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Invoice #	PO #	Delivery Date	Due Date		
180144		8/18/2022	8/18/2022		
Product	Dollar Amount	\$ Amt Price	Quantity	Qty Price	Total
ULS CLR DSL			390.00	\$3,787.290	\$1,477.04
UNDYED ULTRA LOW SULFUR DIESEL					
15 PPM SULFUR MAXIMUM. DOES NOT CONTAIN ANY VISIBLE EVIDENCE					
OF DYE.					
FLORIDA SCETS TAX	390.00	\$0.083000			\$32.37
FLORIDA LOCAL OPT. TAX - DIESEL	390.00	\$0.065000			\$25.36
FLORIDA 9TH CENT GILCHRIST	390.00	\$0.010000			\$3.90
FEDERAL EXCISE DIESEL	390.00	\$0.244000			\$95.16
FLORIDA EXCISE DIESEL	390.00	\$0.190000			\$74.10
FLORIDA COASTAL PROTECTION	390.00	\$0.000480			\$0.19
FLORIDA WATER QUALITY	390.00	\$0.001190			\$0.46
FLORIDA INLAND PROTECTION	390.00	\$0.019040			\$7.43
Extra Charges Subtotal:					\$238.96
ULS CLR DSL Total:	390.00	\$4.400000			\$1,716.00

BOL #
D-178458

Subtotal:	\$1,477.04
Extra Charges:	\$238.96
EFT Discount:	\$0.00
Total Freight:	\$0.00
Total:	\$1,716.00

USI Invoices



Invoice

Remit To:
 504 SE Williston Road, Gainesville, FL 32641
 Phone: (352) 378-5131; Fax: (352) 378-6482
 Email: ar@almondoilcompany.com

Invoice Number: 0142278-IN
Invoice Date: 5/30/2023
Ship Date: 5/30/2023
Invoice Due Date: 6/19/2023
Terms: NET 20 DAYS

Cust #: 02-USI

Bill To:
 UTILITY SERVICE INC
 1360 N.W. 53RD AVE
 GAINESVILLE, FL 32609

Ship To:
 DYED - USI MAIN OFFICE
 1360 N.W. 53RD AVE
 GAINESVILLE, FL 32609

Customer P.O.	Order Number	Ship VIA	Ticket Number	Tax Schedule				
	0102444	AOC8	809	FL AL				
Item Code	Wise	Item Description	TAX	UOM	Quantity	Unit Price	Amount	
01HSD	000	DYED DIESEL No. 2 ULS, <15PPM NON TAXABLE USE ONLY	TX	GAL	236.400	2.9522	697.90	
		PENALTY FOR TAXABLE USE						
T1DD-SRF	000	TAX - FEDERAL SUPERFUND RECOVERY FEE	TX	EACH	236.400	0.0039	0.92	
T4DD	000	TAX - DYED DIESEL ENVMISC TAXES	TX	EACH	236.400	0.0239	5.65	
		Fed LUST Tax				0.00100		
		Fed Oil Spill Tax				0.00214		
		Fl Pollutant Tax				0.02071		

Customer hereby agrees and promises to pay all invoices or other amounts due Almond Oil Company. Customer has three days from the date of invoice to dispute any alleged discrepancies otherwise Customer deems this invoice as true and accurate. Any payments retained for non-sufficient funds, stopped payments, and/or incorrect banking information shall be subject to a \$100 per incident charge. Customer agrees to pay interest at a rate of 1.75% per month (18% annual interest) on \$1000 per statement, whichever is greater, on all past due amounts. Customer agrees to pay in addition to past due balances plus interest and charges, all collection costs which may include reasonable attorney's fees, whether suit be filed or not, court costs and investigative services. Venue is Alachua County, Florida.

Taxable:	704.47
Non Taxable:	0.00
Net Invoice:	704.47
Sales Tax:	52.84
Invoice Total:	757.31
Deposit Amount:	0.00
Amount Due:	757.31

SECTION 8: OPERATIONS + MAINTENANCE

PREREQUISITE	TITLE	POINTS
O+M P8.1	Plan for sustainable site maintenance	Required
O+M P8.2	Provide for storage and collection of recyclables	Required
CREDIT	TITLE	POINTS
O+M C8.3	Recycle organic matter	4 points
O+M C8.4	Minimize pesticide and fertilizer use	5 points
O+M C8.5	Reduce outdoor energy consumption	2 points
O+M C8.7	Protect air quality during landscape maintenance	2 points

PREREQUISITE 8.1 | PLAN FOR SUSTAINABLE SITE MAINTENANCE

Site Maintenance Plan Worksheet

SITES® v2 Site Maintenance Plan Worksheet

P8.1: PLAN FOR SUSTAINABLE SITE MAINTENANCE

PROJECT NAME Newell Gateway	PROJECT ID# 13740
---------------------------------------	-----------------------------

INSTRUCTIONS:
1. Complete using an integrated design team, including the maintenance contractor or manager

Maintenance Plan Topics	Required actions to achieve 10-year desired outcome			10-year desired outcome
	Maintenance activities	Specialist required	Timeline/ Schedule	
WATER				
<p>Stormwater features and BMPs effectiveness (Required component of P3.1, C3.3, C3.5) Describe the proper maintenance activities to ensure continued effectiveness of stormwater features and BMPs (e.g., replacement of vegetation, removal of accumulated sediment load).</p>	<p>The University shall abide by all requirements and conditions of the current Master Stormwater Permit by the SJRWMD. The UF Facilities Services Division implements strategies to mitigate University generated stormwater and to minimize stormwater borne pollutants through the implementation of BMPs. Some BMPs include, but are not limited to, - incorporating stormwater management retention and detention features into the Landscape Master Plan project scope - using slow release fertilizers and/or carefully managed fertilizer applications timed to ensure maximum root uptake and minimal surface water runoff or leaching to groundwater - conducting regular training for maintenance personnel about issues such as motor vehicle maintenance in order to prevent leakage of oil, grease and other fluids, collection and proper disposal of paint and cleaning products (including their empty containers) and collection of suitable recyclable materials - avoiding the widespread application of broad spectrum pesticides by involving only purposeful and minimal application of pesticides (ban use for cosmetic purposes), aimed at identified targeted species - coordinating pesticide application with irrigation practices to reduce runoff and leaching - using pervious materials to minimize</p>	<p>UF Environmental Health and Safety -Office of Sustainability -Facilities Services -UF/IFAS</p>	<p>Facilities Services reports to the SJRWMD quarterly. Abide by the 2020 Master Stormwater Permit by the SJRWMD until next renewal in 2030.</p>	<p>The University will continue to assess, train, and monitor implementation of these BMPs over the 10-year period with the desire of - decreasing the use of fertilizers and pesticides - minimal pollutant runoff - little to no sediment runoff - improving the quality of nearby aquatic systems and meet Class III-Limited water quality standards in Lake Alice - implementing the latest advances in agricultural BMPs The University shall strive to inform faculty, staff, students and visitors on stormwater issues through outreach and demonstration projects and encourage healthy practices.</p>
<p>Water treatment (Required component of C3.3, C3.4, C3.5) Describe the process for treating water features, if present (e.g. avoiding chlorine or bromine).</p>	<p>Not applicable- No water features on site.</p>	<p>Not applicable- No water features on site.</p>	<p>Not applicable- No water features on site.</p>	<p>Not applicable- No water features on site.</p>
<p>Water quality (Required component of C3.3, C3.4, C3.5, C3.6) Describe the appropriate maintenance activities designed to reduce the exposure to and the mobilization and transport of pollutants in runoff.</p>	<p>The University shall not allow stormwater discharge to cause or contribute to a violation of water quality standards in Waters of the State. BMPs designed to reduce the exposure to and the mobilization and transport of pollutants in runoff include but are not limited to... - use of NPK slow release fertilizers - carefully managed fertilizer applications timed to ensure maximum root uptake and minimal surface water runoff or leaching to groundwater - conducting regular training for maintenance personnel about issues such as motor vehicle maintenance in order to prevent leakage of oil, grease and other fluids, collection and proper disposal of yard debris, disposal of paint and cleaning products (including their empty containers) and collection of suitable recyclable materials - coordinating pesticide application with irrigation practices to reduce runoff and leaching - using vegetative management (e.g., planted buffers and minimal mowing) - monitoring sedimentation load in nearby aquatic systems</p>	<p>UF Facilities Services administered Groundskeeper III Team - UF Facilities Services Grounds Assistant Director: Tom Schiik - UF Facilities Services Grounds Superintendents: Donna Bloomfield and Darrel Pons</p>	<p>Facilities Services reports to the SJRWMD quarterly. Abide by the 2020 Master Stormwater Permit by the SJRWMD until next renewal in 2030.</p>	<p>The University will continue to assess, train, and monitor implementation of these BMPs over the 10-year period with the desire of - decreasing the use of fertilizers and pesticides - minimal pollutant runoff - little to no sediment runoff - improving the quality of nearby aquatic systems and meet Class III-Limited water quality standards in Lake ALice - implementing the latest advances in agricultural BMPs The University shall strive to inform faculty, staff, students and visitors on stormwater issues through outreach and demonstration projects and encourage healthy practices.</p>
<p>Irrigation allotment and schedule (Required component of P3.2, C3.4) Describe the anticipated watering schedule (frequency and duration) that allows the site to meet annual volume requirements and restrictions.</p>	<p>The watering schedule is based on seasonal and landscaping needs. In Florida, the wet season is typically from June to September; during this season the site will be watered less frequently and for a shorter duration due to increased precipitation. The dry season is from October to May and during this season, the site will be watered more frequently and for a longer duration due to less precipitation. The University shall conserve water resources through the use of low water demand design principles, including: - use of drought tolerant and site appropriate native plant material to the maximum degree possible, - soil moisture sensors - rainfall shut-off devices - use of drought tolerant ground cover - use of canopy trees - use of soil enhancers and mulch to enable soils to retain moisture</p>	<p>UF Facilities Services- Grounds</p>	<p>The site is watered 2 times a week for 20 minutes.</p>	<p>- Adapt with the weather and climate conditions to prevent water loss; can be achieved by implementing soil moisture sensors to create a water schedule that meets annual volume requirements but does not waste unnecessary water. - Continue to irrigate at no/low occupancy in evening hours - Curtail the use of well water or domestic water for irrigation purposes by increasing the use of reclaimed water - The University shall strive to inform faculty and staff on the benefits of utilizing reclaimed water for irrigation through outreach and demonstration projects to encourage healthy practices.</p>

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<p>Irrigation water source (Required component of P3.2, C3.4) Describe the process for maintaining non-potable water sources used for landscape irrigation (e.g. rainwater harvesting, graywater systems).</p>	<p>The University's Water Reclamation Facility is responsible for process of maintaining non-potable water sources used for landscape irrigation. This facility gathers waste water and treats it on site through the Kruger BIO-DENIPHO process. The University's Water Reclamation Facility then stores the non-potable water and distributes when needed.</p>	<p>UF Facilities Services - Utilities Operations</p>	<p>The University will continue to comply with the permit from the Department of Environmental Protection until it is updated.</p>	<p>-To continue the use of reclaimed water for landscape irrigation needs for a 10-year period or longer. - Use water meters to analyze water usage and startlegize methods to conserve water resources over time. - Curtail the use of well water or domestic water for irrigation purposes by increasing the use of reclaimed water - The University shall strive to inform faculty and staff on the benefits of utilizing reclaimed water for irrigation through outreach and demonstration projects to encourage healthy practices.</p>
<p>Temporary Irrigation (Required component of C3.4) Describe the process for disconnecting/ removing temporary irrigation systems, if present, after the plant establishment period.</p>	<p>There will be temporary irrigation systems for the trees and shrubberies on site. They will be implemented for three years, or until deemed unnecessary by the groundskeeping team, then the temporary systems will be capped.</p>	<p>UF Facilities Services administered Groundskeeper III Team</p>	<p>Temporary irrigation system for trees and shrubberies active for three years.</p>	<p>Develop and sustain a healthy environment for new plants over the 10-year period and longer, therefore the new plants can easily transition and adapt faster.</p>
SOIL STEWARDSHIP				
<p>Soil amendments and fertilizers (Required component of P4.1,C6.7, P7.3, C7.4, C8.4) Describe the process for identifying soil deficiencies, including conducting soil test(s) prior to adding amendments and fertilizers. Specify use of the least harmful amendments (such as compost) when necessary.</p>	<p>The process for identifying soil deficiencies include completing a soil test before development that test for bulk densities and soil chemical characteristics and comparing the results to the test of the final soil conditions. The final soil conditions will also be tested for at least three percent of organic matter in the top twelve inches of top soil. If soil deficiencies are identified through laboratory tests or visual tests, it will be treated with compost or NPK slow-release fertilizers to restore back to previous conditions. Since the site is located in Zone A, it is treated with high maintenance which requires frequent monitoring for deficiencies.</p>	<p>- UF Facilities Services- Groundskeeper III Team - UF/IFAS Analytical Services Laboratory - UF/IFAS Extension Soil Testing Laboratory</p>	<p>First soil test, prior to development, completed on: 05/14/2021 Second soil test will be completed after development. Soil conditions will be evaluated once a month through scouting.</p>	<p>To maintain previous soil conditions before development or to improve previous soil conditions before development. Soil conditions will allow for future vegetation to prosper and help UF achieve their goals for the Landscape Master Plan. The University shall establish healthy soil conditions to enhance the campus environment and reflect the University's ecological setting with the incorporation of native vegetation. The University shall strive to inform faculty and staff on the benefits of utilizing compost rather than fertilizer through outreach and demonstration projects to encourage healthy practices.</p>
<p>Use of fertilizers (Required component of P4.1, P4.2, C6.7, C8.4) Describe the process for applying fertilizers (only if needed) to ensure that application is effective and prevents harm to environmental and human health.</p>	<p>The process of applying fertilizers begins with visual tests by the lawn maintenance crew. If vegetation is seen to have no deficiencies, fertilizer will not be applied. If vegetation is seen to have deficiencies it will be treated with compost from on-site facility. If compost is not seen as an effective method, NPK fifty percent slow-release fertilizers will be used for different types of vegetation. The application of these specific fertilizers prevents harm to environmental and human health from potential excess runoff.</p>	<p>UF Facilities Services & UF/IFAS administered Groundskeeper III Team</p>	<p>Vegetation and soil will be evaluated once a month through scouting.</p>	<p>The University shall continue to phase out the implementation of non-native plants and increase the amount of native vegetation. The additions of native vegetation shall decrease the demand for fertilizers. The University shall utilize native vegetation to decrease fertilizer use and enhance the campus environment to reflect the University's ecological setting. The University shall strive to inform faculty and staff on the ecological implications of abundant fertilizer use through outreach and demonstration projects to encourage healthy practices.</p>
<p>Erosion and compaction (Required component of P4.1, P7.3, C7.4) Describe the process for alleviating soil erosion or compaction (due to site use or maintenance) that is detrimental to plant health.</p>	<p>The processes for alleviating soil erosion or compaction include but are not limited to... - phasing and limiting the removal of vegetation - minimizing the amount of land area that is Cleared - limiting the amount of time bare land is exposed to rainfall - using temporary ground cover on cleared areas if construction is no imminent - using silt fencing, hay bales, or other appropriate sediment barriers adjacent to water bodies, wetlands and areas of slope - maintaining vegetative cover on areas of high soil erosion potential (i.e., banks of streams, steep or long slopes, stormwater conveyances, etc.), where feasible. - utilization of small dics to alleviate soil compaction completed by maintenance team - monitor nearby aquatic systems for increased sediment load; utilize Dino 6 Dredge to gather sediment if necessary</p>	<p>UF Facilities Services & UF/IFAS administered Groundskeeper III Team</p>	<p>- Soil conditions will be evaluated once a month through scouting. - Assessment of soil erosion after severe weather event - Weekly monitoring of soil erosion or compaction during and after construction</p>	<p>The University will continue to assess, train, and monitor implementation of these BMPs over the 10-year period with the desire of - minimal pollutant runoff - little to no sediment runoff - improving the quality of nearby aquatic systems and meet Class III-Limited water quality standards in Lake Alice - implementing the latest advances in agricultural BMPs to avoid erosion and compaction The University shall strive to inform faculty, staff, students and visitors on soil erosion and soil compaction issues through outreach and demonstration projects and encourage healthy practices.</p>
VEGETATION				
<p>Plant health care (Required component of C3.5, C3.6, P4.3, C4.4, C4.5, C4.6, C4.7, C4.8, C4.9, C4.10, C4.11, C6.7, C8.3, C8.4) Describe the process for maintaining vegetation, including food producing gardens, according to long-term plans for the site and adhering to recognized standards for professional horticultural practice. Describe the process for monitoring plant health to prevent problems. Provide a list (include common and scientific names) of potential appropriate, noninvasive plants that can be used for any plant replacement for replacing plants. When replacing plants, consider maintenance needs of plants and design style.</p>	<p>The process for maintaining vegetation on site is scouting. The evaluation includes monitoring plant health to prevent problems. Potential appropriate, non-invasive plants for replacement: - Shumard/Bluff Oak, Quercus austrina - Southern Live Oak, Quercus virginiana - Crepe myrtle, Lagerstroemia spp. - D.D. Blanchard, Magnolia grandiflora - Sabal Palm, Sabal palmetto</p>	<p>- UF Facilities Services & UF/IFAS administered Groundskeeper III Team - certified arborist</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>- Maintain optimal plant health through recognized standards for professional horticultural practices to prevent the implementation of replacement plants. - Encourage the incorporation of native plants to foster a healthier environment. - continue to maintain and expand the University inventories of trees (particularly National Champion and Heritage Specimens) and rare plants on the main campus - The University shall utilize landscaping and tree canopy to enhance the campus environment and reflect the University's ecological setting.</p>
<p>Healthy plant material management (Required component of C6.7, C8.3, C8.4) Describe the process for managing excess organic plant material generated on site (e.g., composting, recycling). Plan and schedule for harvest of food producing gardens.</p>	<p>The process for managing excessive organic plant material generated on site includes collecting leaf and other debris through a vacuum that reduces the organic material 15:1 which is then carried to the composting facility. The organic matter will take approximately one year to decompose then will be transported and used for fertilization needs. No food production on site.</p>	<p>UF Facilities Services & UF/IFAS administered Groundskeeper III Team</p>	<p>Excess organic plant material will be collected ____ a week when the site is being maintained by the UF Groundskeeper Team III and then carried to the composting facility, where the matter will take approximately one year to decompose. Gather organic plant material after major storm event.</p>	<p>Have all excess organic plant material generated on site be collected and transported to compost facility ensuring healthy plant material management. The University shall utilize healthy plant material management practices to enhance the campus environment and reflect the University's ecological setting. The University shall strive to inform faculty and staff on healthy plant material management practices through outreach and demonstration projects.</p>
<p>Diseased and invasive plant disposal (Required component of P4.2, C7.6, C8.3) Identify the proper techniques for addressing dead, diseased, invasive, or pest-infested vegetation in a manner that does not increase the likelihood of spread.</p>	<p>Where feasible the University shall remove non-native invasive plants from the campus grounds and dispose of it off-site. As these species are located on site, the University shall coordinate with the Florida Department of Environmental Protection and other appropriate governmental entities to ensure the proper removal and disposal of these exotic species.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>Control and prevent the spread of plant diseases and invasive pests by proper management through frequent observation of site and site specific treatment. The University shall properly and safely dispose of diseased and invasive plants to enhance the campus environment and reflect the University's ecological setting. The University shall strive to inform faculty, staff, students and visitors on plant diseases and invasive plant species through outreach and demonstration projects.</p>

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<p>Site safety (Required component of C4.11, C8.3, C8.4) Describe the process for maintaining vegetation to ensure site safety and meet the needs of the intended uses of the site. Describe the process for managing vegetative biomass to reduce the risk of catastrophic wildfire. If prescribed fires are to be used, describe a burn plan that is similar in technique, frequencies and intensities to natural fire regimes in the ecosystem.</p>	<p>Maintaining vegetation is completed by the Groundskeeper III Team under the UF Facilities Operations department to ensure site safety and that the site is being utilized for its intended use. The vegetative biomass on-site is not sufficient enough to sustain a catastrophic wildfire. The site will not implement prescribed fires or any variation of a burn plan. Trimming, pruning and mowing will take place as needed to minimize fire hazard.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>Vegetation will be constantly managed so that there is not an excess build up of vegetative biomass. The University shall utilize landscaping and tree canopy to enhance the campus environment and reflect the University's ecological setting.</p>
<p>Pest management (Required component of P4.2, C6.7, C8.4) Describe how pest, diseases, and any unwanted species of plants and animals will be controlled using Integrated Pest Management (IPM) techniques.</p>	<p>The invasive species management plan that will be implemented on site includes the monthly scouting process carried out by the Groundskeeper III Team as well as scheduled routine visits by the EH&S Pest Management. Servicing includes: - applying baits - maintaining insect light traps - physical removal - larva and adulticide applications for mosquitos made as needed - capture, relocation and exclusion for birds, squirrels, raccoons, possums, snakes, bat and alligators as required. Most pest problems can be resolved by using non-chemical insect traps or baits; pesticides would only be used if deemed necessary. If an invasive species is identified on site the University shall coordinate with the Florida Department of Environmental Protection and other appropriate governmental entities to ensure the proper removal and disposal of these exotic species.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management Department</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>The University shall utilize the Integrated Pest Management plan to prevent the growth of pests on site. Employing the Integrated Pest Management Plan enhances the campus environment to reflect the University's ecological setting. The University shall strive to inform faculty, staff, students and visitors on the identification of pests and the process of reporting pests on-site through outreach and demonstration projects.</p>
<p>Invasive species list (Required component of P4.2) Provide a list (include common and scientific names) of plant species identified in the area according to Regional lists, State Noxious Weeds laws, and Federal Noxious Weeds laws.</p>	<p>The University should frequently reference the following list for newly introduced non-native invasive species: - IFAS Assessment of Non-Native Plants in Florida's Natural Areas - Department of Agriculture and Consumer Services' "Noxious Weed List" - Florida Exotic Pest Plant Council's "List of Invasive Plant Species" The Florida Exotic Pest Plant Council classifies these plant species as invasive plant species that have been identified near the site: - Cat's Claw (Dolichandra unguis-cati) - Boston/ Sword Fern (Nephrolepis cordifolia) - Skunkvine (Paederia foetida)</p>	<p>UF Facilities Services- Grounds Department</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>Control and prevent the spread of plant diseases and invasive pests by proper management through frequent observation of site and site specific treatment. The University shall properly and safely dispose of diseased and invasive plants to enhance the campus environment and reflect the University's ecological setting. The University shall strive to inform faculty, staff, students and visitors on plant diseases and invasive plant species through outreach and demonstration projects.</p>
<p>Invasive Management Plan (Required component of P4.2, C8.4) Provide an active multi-year invasive species management plan for control and subsequent management of any plant species included in the row above, including: IPM strategies, procedure for identifying and monitoring for additional invasive species, procedure for adding new species, treatments, long-term control including monitoring, and methods to dispose of invasive plant materials.</p>	<p>The invasive species management plan that will be implemented on site includes the monthly scouting process carried out by the Groundskeeper III Team as well as scheduled routine visits by the EH&S Pest Management. Pest technicians are responsible for responding to service requests, further inspect the troubled area, identifying the insect and pest monitoring. The technicians, along with the pest management coordinator, will then develop proper pest prevention measures and treatment. Servicing includes: - applying baits - maintaining insect light traps - physical removal - larva and adulticide applications for mosquitos made as needed - capture, relocation and exclusion for birds, squirrels, raccoons, possums, snakes, bat and alligators as required. Most pest problems can be resolved by using non-chemical insect traps or baits; pesticides would only be used if deemed necessary. Typically if an invasive plant species is identified it will be immediately removed and disposed of off-site; equipment used to collect invasive species will be sanitized.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Vegetation will be evaluated once a month through scouting.</p>	<p>The University shall utilize the Integrated Pest Management plan to prevent the growth of pests on site. Employing the Integrated Pest Management Plan enhances the campus environment to reflect the University's ecological setting. The University shall strive to inform faculty, staff, students and visitors on the identification of pests and the process of reporting pests on-site through outreach and demonstration projects.</p>
MATERIALS MANAGEMENT				
<p>Materials replacement (Required component of P5.1, C5.4, C5.5, C5.6, C5.7, C5.8, C5.9, C5.10, C6.8, C8.5) Provide a list of preferred characteristics for replacement materials (e.g., materials from local and regional sources, recycled content materials, certified wood, energy-efficient lighting)</p>	<p>Materials that need to be replaced on site will come from the original supplier if it cannot be recycled content. Recyclable content that can be used for replacement, such as brick, will be sourced from local or regional facilities.</p>	<p>Planning, Construction and Design Division at UF, Land Use and Facilities Committee, Preservation of Historic Buildings and Sites Committee</p>	<p>Bi-annual evaluation and recorded condition of the materials used on site.</p>	<p>New additions shall strive to maintain a consistent build that defines the campus civic realm, preserves campus character, and promotes design innovation.</p>
<p>Functionality and extended use (Required component of C5.2, C5.3, C5.4, C5.8) Describe the process for repairing and maintaining structures and paving in a way that reduces harm to environmental and human health (e.g. use of low-emitting adhesives) and ensures the effectiveness of the material (e.g., clean pervious surfaces)</p>	<p>The University shall continue to develop and implement cleaning and maintenance protocols for use by maintenance staff, supervisors, contractors and building occupants such as using less abrasive "green" cleaning products, such as soft wash, to ensure proper protection of historic materials in the Campus Historic District. The University will continue to identify, designate and protect the university's historic and archaeological resources by complying with the State Division of Historic Resources pursuant to Section 267.061(2) Florida Statutes regarding maintenance, rehabilitation, remodeling, renovation and demolition activities.</p>	<p>UF Facilities Services administered Groundskeeper III Team</p>	<p>Bi-annual evaluation and recorded condition of the structures on site. Structures will be cleaned and fixed on an as-needed basis.</p>	<p>The University shall only implement sustainable processes for repairing and maintaining structures. The University shall strive to keep structures in good condition so that it maintains a consistent build that defines the campus civic realm, preserves campus character, and promotes design innovation.</p>

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<p>Site safety (Required component of C5.2, C6.2, P8.2, C8.3, C8.4) Describe the process for repairing and maintaining structures and paving that reduces harm to environmental and human health and ensures site safety and that meets the needs of the intended uses of the site. Describe the process for properly disposing of harmful materials.</p>	<p>There will be no generation of harmful materials on site. Hazardous materials will be properly disposed of based on type of material. The University shall continue to develop and implement cleaning and maintenance protocols for use by maintenance staff, supervisors, contractors and building occupants such as using less abrasive "green" cleaning products, such as soft wash, to ensure proper protection of historic materials in the Campus Historic District. The University will continue to identify, designate and protect the university's historic and archaeological resources by complying with the State Division of Historic Resources pursuant to Section 267.061(2) Florida Statutes regarding maintenance, rehabilitation, remodeling, renovation and demolition activities.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Bi-annual evaluation and recorded condition of the structures on site. Structures will be cleaned and fixed on an as-needed basis.</p>	<p>The University shall only implement sustainable processes for repairing and maintaining structures. The University shall strive to keep structures in good condition so that it maintains a consistent build that defines the campus civic realm, preserves campus character, and promotes design innovation.</p>
<p>Historic buildings, structures, objects and cultural landscapes (Required component of C4.5, C5.2, C6.1) Describe the process for maintaining the integrity of historic buildings and structures and cultural landscapes. Process to include detailed specifications related to the repair or replacement of features and any maintenance work to be documented for records. Describe the process for determining how conflicts between historic and environmental concerns will be addressed.</p>	<p>Continue to identify, designate and protect the university's historic and archaeological resources by complying with the provisions set forth in the programmatic memorandum of agreement with the State Division of Historic Resources pursuant to Section 267.061(2) Florida Statutes regarding new construction, earthwork and landscaping activities. Prior to an historic property or landscape being rehabilitated or substantially altered in a way that may adversely affect its character, form, integrity or archaeological or historic value, the University shall consult with the Preservation of Historic Buildings and Sites Committee and the Land Use and Facilities Planning Committee, in addition to any other committee reviews called for through the standard project review process defined in the Implementation Element. Since the site boundaries are within the campus Historic District which is on the National Register of Historic Places, the University should also consult the Florida Department of State's Division of Historical Resources to avoid or mitigate adverse impacts, and undertake any appropriate salvage or recovery action as required by the programmatic memorandum of agreement.</p>	<p>Planning, Construction and Design Division at UF, Land Use and Facilities Committee, Preservation of Historic Buildings and Sites Committee</p>	<p>Bi-annual evaluation and recorded condition of the historic structures on site. Structures will be cleaned and fixed on an as-needed basis.</p>	<p>Continue to identify, designate, protect, and enhance the University's historic and archaeological resources by complying with the provisions set forth in the programmatic memorandum of agreement with the Florida Statutes regarding new construction, earthwork and landscaping activities. The Planning, Design and Construction Division, Preservation of Historic Buildings and Sites Committee, and Architectural Review Council shall continue to collaborate on historic preservation with best practices for rehabilitation and new construction specific to the University of Florida campus. The University shall strive to inform faculty, staff, students and visitors about the significance of the historic structures through outreach and demonstration projects.</p>
<p>Recyclable materials (Required component of P8.2) Describe the process for managing and recycling all paper, glass, plastics, and metals that will be generated on site.</p>	<p>The University shall promote recycling through increased educational efforts directed toward faculty, students and staff. The Facilities Services and Office of Sustainability seek opportunities to expand the type of recycled materials based on industry demand. Currently the following items can be recycled on site: office paper, newsprint, phone books, magazines, junk mail, soft-cover books, corrugated containers (boxes), toner & inkjet cartridges, cans, glass bottles & jars, wastewater solids, precious metals, white goods, scrap metal, used pallets, used lumber, yard debris and masonry. There will be three locations for recycling on site. Recyclables will be gathered once or twice a week depending on how full the bins are. Once gathered, recyclables are gathered and sorted at an on-site facility. Once sorted, recyclables are collected by a third-party vendor and taken off-site.</p>	<p>UF Facilities Services and Office of Sustainability Dale Morris</p>	<p>Recycling bins will be gathered once or twice a week depending on how full the cans are.</p>	<p>To provide for safe, sanitary, efficient, economical and environmentally sound recycling collection program that assures public health and safety for the current and future demands of the University. The University shall strive to reduce the total volume of solid waste requiring disposal and increase landfill diversion (i.e. reuse, repurpose, recycling, composting) of the remainder by at least 90% in pursuit of zero-waste goal. The University shall continue implementing and expanding recycling programs associated with major sporting, entertainment and other large events on campus. The university shall look for opportunities to expand the current recycling program to include an additional recycling bin and other recyclable materials. The University shall promote recycling through increased educational efforts directed toward faculty, staff, students and visitors.</p>
<p>On-site food waste (Required component of C6.7, C8.3) For sites that generate food waste, describe the process for on-site collection of compostable organics to prevent them from entering the municipal solid-waste stream.</p>	<p>Not applicable- No food waste generated on-site.</p>	<p>Not applicable- No food waste generated on-site.</p>	<p>Not applicable- No food waste generated on-site.</p>	<p>Not applicable- No food waste generated on-site.</p>
SENSITIVE SITE FEATURES				
<p>Conserve aquatic ecosystems (Required component of P1.2, P1.3, C3.5, C3.6) Indicate the maintenance techniques and describe the monitoring activities that will ensure proper aquatic ecosystem function remains.</p>	<p>No aquatic ecosystems on site. Maintenance techniques include using BMP's to ensure minimal sediment and pollutant runoff that could possibly contaminate nearby aquatic ecosystems off site. Nearby aquatic ecosystems off site include sinkholes, creeks, ponds and Lake Alice on the UF campus. UF IFAS team completes frequent water quality monitoring tests in aquatic ecosystems off site to ensure proper aquatic ecosystem function remains. Off site aquatic ecosystems are cleaned using GeoForm's Dredge that removes excess sediments that settle at the bottom of the waterways from sediment runoff. The excess sediment is taken out and dried to be recycled.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Frequent water quality monitoring test taken at nearby off-site aquatic ecosystems.</p>	<p>The University will continue to assess, train, and monitor implementation of these BMPs over the 10-year period with the desire of - decreasing the use of fertilizers and pesticides - minimal pollutant runoff - little to no sediment runoff - improving the quality of nearby aquatic systems and meet Class III-Limited water quality standards in Lake Alice - implementing the latest advances in agricultural BMPs The University shall strive to inform faculty, staff, students and visitors on healthy practices to maintain aquatic ecosystems through outreach and demonstration projects.</p>
<p>Conserve habitats for threatened and endangered species (Required component of P1.4, C4.7) Describe the process for avoiding impacts during site maintenance to threatened and endangered species and their habitats.</p>	<p>The University shall continue to protect and conserve endangered and threatened species of plants and wildlife, and species of special concern, as required by the Endangered Species Act of 1973 and federal and state management policies relating to the protection of threatened and endangered species of special concern. Protection plans for these listed species, if documented on site, shall be formulated that are consistent with those of the appropriate local, state and federal agencies. Since the site boundaries are located in already impacted urban areas, the presence of threatened and endangered species is low.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Examine for endangered species during the monthly scouting process.</p>	<p>To restrict University activities known to threaten the habitat and survival of endangered and threatened species on or adjacent to the main campus or satellite properties. The University shall inform faculty, staff, and students about endangered species on-site and proper techniques to not disturb species through outreach and demonstration projects.</p>

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<p>Maintain Vegetation and Soil Protection Zones (Required component of P1.1, P1.2, P1.3, P1.4, P2.3, P4.1, C4.4, C4.5, C4.6, C4.7) Describe ongoing management activities to protect the integrity of vegetation and soil protection zones.</p>	<p>Ongoing management activities to protect the integrity of vegetation and soil protection zones include integrating suitable ground cover in the designated VSPZ areas. Suitable ground cover includes mulch or vegetation, such as jasmine, that do not require much maintenance. This allows for the VSPZ areas to not be disturbed frequently ensuring its protection.</p>	<p>UF Facilities Services administered Groundskeeper III Team and EH&S Pest Management</p>	<p>Mow over the VSPZ only twice a year. Any pruning will be identified and completed by an arborist.</p>	<p>Protect the integrity of vegetation and soil protection zones by maintaining healthy practices. Maintain a healthy environment that allows for the vegetation to grow and improves soil conditions in soil protection zones. The University shall make efforts to inform faculty, staff, students and visitors on VSPZ and techniques to protect the integrity of the zones.</p>
LANDSCAPE MAINTENANCE EQUIPMENT				
<p>Equipment maintenance (Required component of P4.2, C8.7) List the types of equipment (manual, electric, low-emitting, or gasoline powered) used on site. Describe the process for maintaining equipment. Include a description of the process for cleaning equipment to remove invasive species to prevent transport to other sites.</p>	<p>The types of equipment that will be used on site include: - (2) 4 Stroke 60"-72" Riding Mower - (5) 2 Stroke Line Trimmer/Edger - (1) 2 Stroke Backpack Blower Excess vegetation that accumulates on the maintenance equipment will be collected and sent with the vegetation clippings gathered from the maintenance activities to the composting facility. If an invasive species is found it will be removed from the site and discarded in a bag to an off-site facility. If equipment is used to remove an invasive species, the vegetation will be cleaned off the equipment and discarded in a bag that will be transported to an off-site facility; the equipment will then be sanitized.</p>	<p>UF Facilities Services administered Groundskeeper III Team</p>	<p>Equipment will be used on site once a week in the morning hours.</p>	<p>All types of landscaping equipment will be electric in 10 years or less to reduce the amount CO2 emissions emitted by current gas powered equipment.</p>
<p>Site user experience (Required component of C6.4, C8.4, C8.7) Describe the maintenance schedule that minimizes users' exposure to noise, localized air pollution, and other disturbances.</p>	<p>The site will be maintained once a week during morning hours when visitors are less likely to frequent the site. Maintaining the site once a week during the morning hours minimizes the users' exposure to noise, localized air pollution and other disturbances.</p>	<p>UF Facilities Services administered Groundskeeper III Team</p>	<p>Equipment will be used on site once a week in the morning hours.</p>	<p>Reduce all types of pollution by requiring electric equipment and scheduling maintenance at a time when site users frequent the site the least.</p>
SNOW AND ICE				
<p>Managing snow/ice (for sites receiving snow/ice) (Required component of P1.2, P1.3, P1.4, P3.1, C3.3, C3.5, C3.6, C6.2) Describe the process for managing snow/ice in ways that limit degradation of water quality and surrounding plants and soil health. Also, describe the process for stockpiling areas and managing any snow-melt that will be used as a water source on site.</p>	<p>Not applicable- No snow or ice in this region.</p>	<p>Not applicable- No snow or ice in this region</p>	<p>Not applicable- No snow or ice in this region</p>	<p>Not applicable- No snow or ice in this region</p>
ADAPTIVE MANAGEMENT				
<p>Update Site Maintenance Plan (Required component of P8.1) Describe the process for reevaluating the maintenance plan on an annual basis, and revising as needed to adapt to future conditions and unforeseen changes.</p>	<p>The site will be monitored weekly when being maintained. Once a month the groundskeeper team will go more in depth and evaluate the site through the scouting process. If the groundskeepers see any deficiencies on site, it will be communicated to the superintendents immediately. The UF Facilities Services Grounds Department Superintendents will meet annually with the other team members to discuss the efficiency and success of the maintenance plan. The team will communicate and brainstorm on how the maintenance plan can be improved to further support the scope of the project. If the site maintenance plan needs to be adapted for future conditions and unforeseen changes, the team will meet when necessary to develop a mitigation plan.</p>	<p>UF Facilities Services: Tom Schlick, Donna Bloomfield, Darrell Pons, Groundskeeper III Team UF PDC: Dustin Stephany, Melanie Heflin, Cydney McGlothlin, Frank Javaheri, Linda Dixon, Rachel Mandel GA: Frank Bellomo, Don Wishart, Sheeba West, Andrea Penuela</p>	<p>The team will meet once annually to reevaluate the site maintenance plan. If an issue arises within the site maintenance plan that is urgent, the team will meet when needed.</p>	<p>The team will meet once a year to discuss the maintenance plan and how it correlates with the scope of the project for ten years. It is important that the team meets annually for the first three years to work through any issues during the establishment period. Through effective communication, the team will be able to adapt to any unforeseen changes/conditions and continue to support the scope of the project ten years after establishment.</p>

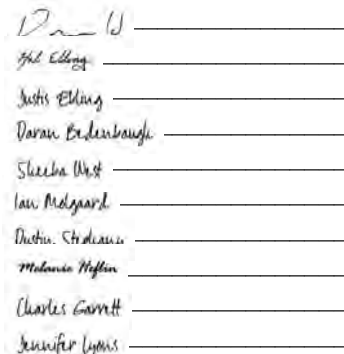
Signatures from all integrated team members stating the site maintenance plan and relevant discussions were conducted collaboratively.

☐ **9:20 – 10:00 am**

☐ **SITES Certification Requirements – Dustin Stephany presentation**

1. UF's sustainability track record
2. Guiding and project specific principles: prerequisites/credits, reuse/salvaged materials, soil management plan, advocacy letters, and punchlist
3. Sites requirements need to translate to construction documents for field implementation

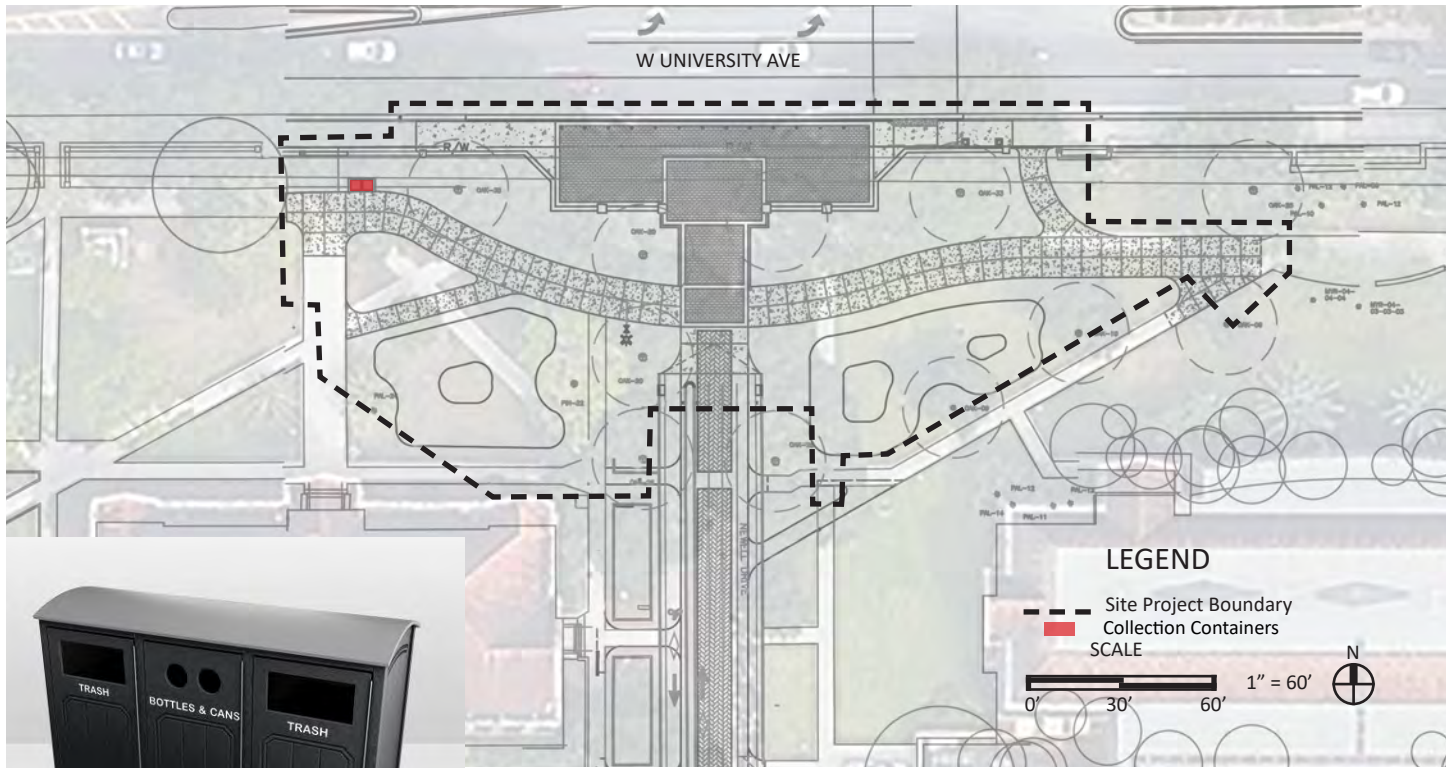
1/31/2022 | 6:53 AM EST - Donnie Hicks -
 1/25/2022 | 7:54 AM EST - Ian Molgaard -
 2/9/2022 | 4:05 PM EST - Justin Elling -
 2/11/2022 | 2:04 PM EST - Daran Bedenbaugh -
 1/26/2022 | 3:15 PM EST - S. West -
 1/24/2022 | 4:36 PM EST - I. Molgaard -
 1/24/2022 | 2:10 PM EST - Dustin J -
 1/24/2022 | 2:09 PM EST - Melanie K -
 1/26/2022 | 1:04 PM EST - Charles Garrett -
 1/24/2022 | 2:01 PM EST - Jennifer Lyons -



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 Jennifer.Lyons@CPPI.com

PREREQUISITE 8.2 | PROVIDE FOR STORAGE AND COLLECTION OF RECYCLABLES

Site plan



D1	<p>TRASH AND RECYCLING</p>	<p>TYPE: TERRA (CUSTOM PER LANDSCAPE MASTER PLAN)</p> <p>COLOR: BLACK</p> <p>FINISH: MAX-R LUMBER</p> <p>SOURCE: MAX-R; www.max-r.com (877) 646-0663</p> <p>NOTES:</p>



Results of Waste Stream Study

The Newell Gateway site contains three waste and recycling receptacles. One receptacle was placed at the back edge of the north main entrance. This back edge of the entrance intersects with a sidewalk from the west, creating a pathway that generates frequent foot traffic. This area generates a high volume of foot traffic since it is adjacent to University Ave and north of the Chemistry Building and Keene-Flint Hall. There are two other receptacles in the southwest and southeast corners of the site boundary. These receptacles are at foot traffic intersections as well, near student buildings. The receptacle in the southwest corner is at the intersection of the pathway between the Chemistry Laboratory and Keene-Flint Hall and Newell Drive. Across Newell Drive from this receptacle is a receptacle in the southeast corner. This receptacle is located at the intersection of Newell Drive and the pathway between Library West and the Plaza of Americas. Since these locations receive a high volume of foot traffic, three-tier receptacles serve as the most optimal option. The three-tier receptacle include two bins for trash and one bin for bottles and cans recyclables. The University of Florida looks for opportunities to expand the type of recyclable materials based on user demand. South of the site boundary there is a receptacle that recycles paper waste because of the demand from students exiting academic buildings.



Figure 1



Figure 2

The individual bins in the receptacles are designed to hold 30 gallons of waste and recyclables each. This allows for the three-tier receptacles on site to hold 60 gallons of trash and 30 gallons of recyclables each. The waste and recyclables are monitored twice weekly and are collected at least once a week depending on the volume of waste. Pre COVID-19 there was an average collection of trash twice a week and recyclables once a week. With this data, there is an estimate of 360 gallons of trash and 90 gallons of recyclables being collected in the Newell Gateway limit if work weekly. In the case that there are events held on or nearby the site, the receptacles will be evaluated the morning after and will be collected if the volume is at least 50% full.

The waste is differentiated by color of bags, where trash is collected in black bags while recyclables are collected in transparent bags. Once the recyclables are gathered from the receptacles, the bags are placed in a trailer and transported to on-site campus recycling yard (Figure 1). At the recycling yard, each bag is inspected for contamination which is done by examining the content through the transparent bags. If there is a small amount of contamination in the recycling bags, it will be hand picked out and discarded as waste. If there is a significant amount of contamination in the recycling bags where the recyclables are

unsalvageable, the entire bag will be discarded as waste. Waste will be discarded in waste dumpsters (Figure 2). The recyclable waste that passes through the sorting process will be transported to the recycling dumpsters on campus at Flavet Field if it is paper and/or cardboard (Figure 3) or the Recycling Bullpen if it is metal and/or glass (Figure 4 and Figure 5). The waste and recyclable waste will be collected by the third-party vendor WCA and taken to the Alachua County Transfer Station.



Figure 3



Figure 4



Figure 5

Vendor Contract



Office of the Vice President
and Chief Financial Officer
Procurement Services
<https://procurement.ufl.edu/>

971 Elmore Drive
PO Box 115250
Gainesville, FL 32611-5250
(352) 392-1331 Fax 352-392-8837

University of Florida
MEMORANDUM OF UNDERSTANDING (MOU)
Waste Stream Handling Solutions

Purpose: The intent of this document is to clearly outline the mutual understanding between the University of Florida ("University") and WCA of Florida, LLC ("Vendor") surrounding our enhanced partnership for waste stream handling solutions.

I. General Terms

- A. Contract Basis: Vendor accepts the terms and conditions as outlined by Invitation to Negotiate ITN20KO-132 Waste Stream Handling Solutions document and University accepts the proposal submitted by the Vendor in their response to the ITN as well as responses to the Selection Committees questions and requests for clarifications submitted on April, 29, 2020, May 13, 2020 and May 27, 2020. Additional terms outlined in this MOU are mutually agreeable to the vendor and the University indicated by acceptance and signature.
- B. Effective Date: Pricing and terms effective as of August 1, 2020 thru June 30, 2025.
- C. Term of Contract: The contract will have an option to renew based on satisfactory performance and the written approval of both parties for up to two (2) additional five (5) year periods.
- D. Termination: As outlined in Section 6.41 of ITN20KO-132.

II. Pricing

- A. Pricing/Discount Structure: (Attachment A)
- B. Price Adjustments: As outlined in Section 6.34 in ITN20KO-132.

III. Services

As outlined in ITN20KO-132.

- A. Lot 1
 - 1) Compactor Services
 - 2) Roll-off Services
 - 3) Front-load Services
 - 4) Hauling of Cardboard Bales
 - 5) MSW Cart Collection from Dasburg House
 - 6) Compactor Cleaning
 - 7) Compactor Painting
 - 8) Compactor/Baler Repairs and Maintenance
 - 9) Contract Management
- B. Lot 3
 - 1) Indoor Office Paper Collection

The Foundation for The Gator Nation

An Equal Opportunity Institution

SECTION 8: OPERATIONS + MAINTENANCE

- C. Lot 4
 - 1) Bottle and Can Collection
- IV. Management

A. Contract Manager: Vendor will provide dedicated contract manager as described in ITN20KO-132.

Signed by: Joseph Glover
ida

Date: 7/29/2020 | 8:44 PM EDT

Signed by: [Signature]
WCA of Florida, LLC.

Date: 7-20-2020

ITN20KO-132
ATTACHMENT A

PRICE PAGE - LOT 1

Item	Description	Cost
1.2.1 Compactor Services	Compactor Cost per pull (one price for all pulls regardless of destination facility)	\$136.83
1.2.2 Roll-off Services	Roll-off Cost per pull - MSW, Bottles and Cans, C&D	\$136.83
	Roll-off Cost per pull - Special Waste	\$300.00
	Container Charge (if any)	\$0.00
	Delivery Charge (if any)	\$0.00
1.2.3 Front-load Services	Front-load cost per cubic yard - MSW	\$5.12
	Front-load cost per cubic yard - Cardboard	\$2.61
	Container Charge (if any)	\$0.00
1.2.4 Hauling of Cardboard Bales	Cost per haul (6 bale minimum)	\$125.00
1.2.5 MSW Cart Collection from Dasburg House	Dasburg House cost per collection	\$0.00
1.2.6 Compactor Cleaning	Cost per Level 1 cleaning	\$114.02
	Cost per Level 2 cleaning	\$114.02
1.2.7 Compactor Painting	Pull charge (if any)	\$136.83
	Per hour labor charge for painting and prep work	\$100.00
1.2.8 Compactor/Baler Repairs Maintenance	Cost per compactor to complete annual greasing, perform detailed annual assessment, and prepare report outlining recommendations and price quotes	\$85.00
	Per hour labor charge for repairs	\$85.00
	Per hour charge for travel time (if any)	\$0.00
	Upcharge on parts (if any)	\$0.00
	Pull charge (if any)	\$136.83
1.2.10 Home Football Game Clean-up Services	Hourly rate for use of rear-loader and driver	\$142.53

ITN20KO-132
ATTACHMENT A

PRICE PAGE - LOT 3

Item	Description	Cost
1.2.11 Indoor Office Paper Collection	Office paper cost per collection per bin	\$2.38

ITN20KO-132
ATTACHMENT A

PRICE PAGE - LOT 4

Item	Description	Cost
1.2.12 Bottle and Can Collection	Bottle and can cost per collection per cart	\$2.38

CREDIT 8.3 | RECYCLE ORGANIC MATTER

Narrative

Goal: 4 points



Figure 1

Excess vegetation trimmings are generated on site after site maintenance. The vegetation trimmings are collected and gathered in a facility truck. The truck takes the vegetation trimmings to the on-site composting facility. Here the vegetation trimmings are unloaded in an open space and gathered together to create a large pile. This would be the first stage of the composting system (Figure 1). During the first stage, the composting material will be turned to keep oxygen available in the pile to accelerate the decomposition process. Once there is a significant amount of decomposition, the organic matter will then be screened for the second stage of composting. The organic matter will go through a composting screening machine, the EZ Screen 1200XLS (Figure 2). The matter that goes through the EZ Screen 1200XLS is expelled out to create a new composting pile (Figure 3). Organic matter that does not pass through the screening process will be deposited back into the original pile (Figure 1) to go through the initial decomposition process again. The screening process will happen one more time after allowing the organic matter to decompose another significant amount. Organic matter that passes through the screening process will be moved to create a third composting pile where it will finish out the remaining months of the decomposition process. Once the organic matter is in its final decomposition phase, it will be transported to a concrete cinder block bin to be ready for use (Figure 4). In total, the University allows twelve months for the composting process. Once the organic matter is completely decomposed, it is gathered out of the cinder block bin and recycled as a nutrient-rich fertilizer and soil amendment for various locations on campus.



Figure 2



Figure 3



Figure 4

Site Plan



CREDIT 8.4 | MINIMIZE PESTICIDE AND FERTILIZER USE

OPTION 2: BEST MANAGEMENT PRACTICES FOR PLANT HEALTH CARE

Narrative

Goal: 5 points

The IPMP establishes a plan of action for identifying specific pest, population and specific management strategies for identified pests. Physical and mechanical controls are implemented first, followed by biotic controls and targeted chemical controls from least toxic to most as a last resort. A notification protocol is in place for surrounding site users when chemical pesticides are applied in place. In the rare case where toxic materials are needed, Environmental Health and Safety will prioritize application where there is the least amount of traffic (for example during spring, semester, and holiday breaks). If the situation is an emergency then building managers adjacent to the area of concern will be notified via Facilities Services Building Points of Contact database.

All “weed and feed” type fertilizers are banned from use. The University must follow Alachua County’s fertilizer ordinance concerning the application window. Fertilizers containing any nitrogen are not permitted to be used during the rainy season. Almost all fertilizers are purchased from SiteOne’s outlet in Gainesville, with varying formulations due to availability and cost. Fertilizers are not used for cosmetic purposes and only applied to keep from having bare ground. Pre-emergent herbicides are not banned. Application of fertilizers before a known storm are banned, this is not only an ecological decision, but an economic one too.

Buffer zones are enforced where fertilizers and pesticides may not be applied such as: water bodies, wetlands, aquatic ecosystems, drains, conveyance features, areas where runoff can impact water quality, and human use areas. Any mis-targeted material is blown back into the target zone immediately following application. Buffer zone is at least 10 feet, but usually more.

The types of fertilizers used include synthetic and 100% organic. The fertilizer used depends on the location, time of year, and target vegetation. There is proper storage and handling of fertilizers. Fertilizers are dry granular so there is no mixing. Fertilization and pest control records are kept, although not mandatory by law. The fertilization records help with assessing results and controlling costs.

Policies

INTEGRATED PEST MANAGEMENT POLICY

General Household Pest Services (GHP)

GHP service includes monthly, bi-monthly or quarterly (as required) inspecting, monitoring (sticky trap placement and checking) applying baits, servicing and maintaining insect light traps, physical removal, (including specialized vacuuming as required) applying residuals to exterior perimeters, around doors and windows, reporting entry points and structural deficiencies for repair orders and emphasizing sanitation. Rodent control measures utilize exclusion and mechanical trapping whenever possible to minimize the use of harmful products. All “food areas” and other pest-prone areas are serviced at least monthly.

Service Requests (Trouble Calls)

All requests for service are placed by calling (352) 392-1591. Callers are asked to give the pest type, location, name and phone number of caller. All non-hospital service requests are to be answered within 48 hours, whenever possible. Hospital trouble calls are usually answered the same day or within 24 hours on UF work days. The information is tracked using the Pestcon system.

IPM Team

Pest technicians – responsible for responding to service requests, further inspect the troubled area, identifying the insect and pest monitoring. The technicians, along with the pest management coordinator, will then develop proper pest prevention measures and treatment.

Building custodians – responsible for properly cleaning the building. They are to prevent outside entry from pests (ie: ensure door seals and cracks in building are properly sealed) and submit work orders to the Grounds Department in Physical Plant to keep trees and shrubbery trimmed away from the building to prevent harborage. If a custodian identifies a pest problem they are to report it to the IPM Team who will send out a technician to assess the situation.

Customer (UF community & visitors) – responsible for keeping their work areas clean, reducing harborages such as clutter, not eating in their work areas, cleaning up drink spills, and reporting any pest sightings to the IPM team.

IPM Plan and Implementation Guidelines

Technicians will respond to all service requests and assess the situation using the following guidelines.

Pest identification – Proper identification of the insect can make treatment and eradication easier. Technicians will identify the pest or bring a sample to the pest management coordinator for proper identification or referral to the UF Entomology Department.

University of Florida – Environmental Health and Safety - Pest Management Department

Pest Monitoring – Action thresholds will be determined by the pest management coordinator who will devise a treatment method using the least intrusive and safest methods with public safety in mind.

Pest prevention – Technicians will ensure students, faculty and staff are properly educated on prevention techniques to help deter pests from breeding such as not eating at their desks, cleaning up spills, or overwatering plants.

Pesticide application – Most pest problems can be resolved by using non-chemical insect traps or baits. Only as a last resort will pesticides be used to treat the interior of a building and only in an afterhours setting to prevent exposure to students, faculty and staff. If a situation calls for an emergency application, the person who requested notice will be notified and given an explanation of the emergency.

Best Practice IPM Control Methods

Sanitation – Building occupants may inadvertently attract pest into the building. Technicians will perform a walk-through assessment and identify the problem areas or activities and devise a plan to address them. Eliminate or control all potential food and water sources. Food service areas and break rooms area high prone areas for pests and should be thoroughly cleaned, food and waste should be kept in airtight containers, and empty beverage containers should be rinsed or isolated. Clean all spills promptly and eliminate clutter to simplify cleaning and minimize hiding places for pests. Pests also prefer wet environments and so all dripping faucets and leaking pipes should be fixed.

Exclusion –Landscaping can offer safe havens for pests, including rodents, keep shrubs and other plants at least 18 inches from the building. Ideally fill that space with small stones or similar substrate to minimize opportunities for plant growth. Install barriers to prevent pests from entering the building. Seal any cracks, crevices, and holes in external walls. Inspect all seals around doors and windows, install door sweeps on exterior doors if needed.

Traps – Install traps for both insects and rodents only where needed, rather than throughout the entire building. Rodent baits may be used on the exterior but only as a last resort. Solid bait blocks will be placed in locked outdoor dispensers.

Pesticide Application Communications Plan

Most pesticide treatments will be applied on the perimeter of a building minimizing the impact to students, faculty and staff. In the rare case where interior treatment is necessary, the students, faculty and staff members within this space will be notified prior to application. Additionally, signage will be applied indicating the area treated as well as contact information if the user has further questions. This signage will be posted at least 24 hours post application.

Last Updated: 4-25-2016

University of Florida – Environmental Health and Safety - Pest Management Department

Other Services Offered

Termite Prevention and Control - New construction soil preventative termiticide applications (referred to as Pretreats) require a 24 hour notice. Contractors are expected to have the area clear of work tools and ready to lay a moisture barrier after treatment to prevent any dilution of the product due to rain after treatment. Treatments are also available during renovations where the slab has been disrupted and needs repairing. Corrective subterranean termite treatments are provided to UF structures when infestations are discovered or reported. Materials and methods vary depending on the nature of the infestation but include sub-slab termiticide foam slab injection, direct wood injection, surface application of liquid borates or trench and treat application methods. Inspection of buildings for termites and other Wood Destroying Organisms are provided on request on an as needed basis.

Turf and Ornamental Pest Management - Comprehensive campus-wide fire ant broadcast baiting occurs each spring and fall. Mound treatments are provided during summer as required. Chinch bug control is provided for St. Augustine grass. Shrubbery and indoor tropical plants are treated for mealybug and scale insect control, greenhouse pest control is provided as requested. Sports Turf Pest Management to include weed insect and disease as required to maintain vigor. Sidewalk, fenceline and bare-ground weed control is applied around cooling towers and electrical substations with non-selective herbicides when needed.

Nuisance Wildlife - Capture, relocation and exclusion for birds, squirrels, raccoons, possums, snakes and bats as required. For nuisance alligators contact UPD at 392-1111.

Mosquito Control - Maintains active surveillance for conducive areas. Larva and adulticide applications made as needed to aid in source reduction.

Fumigation Services - Administration and coordination of commercial structural fumigation contracts. In-house operation of fumigation chamber for museum artifacts and specimens.

Aquatic Weed Management - Routinely treats the shorelines of Lake Wauburg north and south complexes for aquatic weed control.

Miscellaneous Services - Bee, wasp, hornet and yellow jacket nest treatment/removal in buildings and grounds. Dead animal removal inside and under UF buildings. Pigeon control project coordination.

Last Updated: 4-25-2016

University of Florida – Environmental Health and Safety - Pest Management Department

Feeding Wild Animals Living on Campus Policy

OBJECTIVE

Florida Statutes Chapter 386 Section.041 prohibits specific actions that contribute to conditions “injurious to public health.” The feeding of non-domestic (feral) cats contributes to adverse health and safety issues including fleas, rabies, property damage and native wildlife depletion that all impact our beautiful campus.

POLICY

When humans feed non-domesticated animals such as feral cats other non-targets animals such as raccoons, possums, squirrels, skunks and foxes become conditioned to associate humans with food. They then expect food from well-intending humans who may not realize they are endangering the safety and health of others.

Therefore, individuals or groups will not be allowed to feed feral cats or any other type of wild animal on campus. EH&S Pest Management technicians are authorized to remove any animal food and containers found on campus grounds.

Students and untrained or unvaccinated personnel must avoid animal exposure due to the potential for human injury and transmission of disease.

AUTHORITY

The Division of Environmental Health and Safety’s Pest Management Services Department is charged with protecting the campus and its inhabitants from exposure to animals that have the potential for human injury and disease transmission.

Effective 2002, Florida Administrative Code 68A (4000.1). Florida Fish and Wildlife can charge anyone feeding foxes and raccoons with 60 days in jail and a fine of \$500.

PROCEDURES

We must make our campus safer by not leaving food for the wildlife that inhabit our campus, thus allowing the natural available food supply to moderate the populations.

Any questions or wildlife complaints should be directed to EH&S Pest Management at (352) 392-1591 or afterhours to UPD at (352) 392-1111.

Last Updated: 4-25-2016

University of Florida – Environmental Health and Safety - Pest Management Department

Helpful Tips (to be added on the webpage)

- * Office pests like cockroaches, ants and mice love to “do lunch.”
- * Please ensure coffee supplies and opened foods are stored in the refrigerator or in tightly sealed containers.
- * Rinse out that drink can before you recycle.
- * If you spill it, wipe it up.

Caretakers of the UF Bat House Project

<http://news.ufl.edu/2011/10/24/bat-cam/>

<http://www.flmnh.ufl.edu/bats/>

Last Updated: 4-25-2016

CREDIT 8.5 | REDUCE OUTDOOR ENERGY CONSUMPTION

Narrative

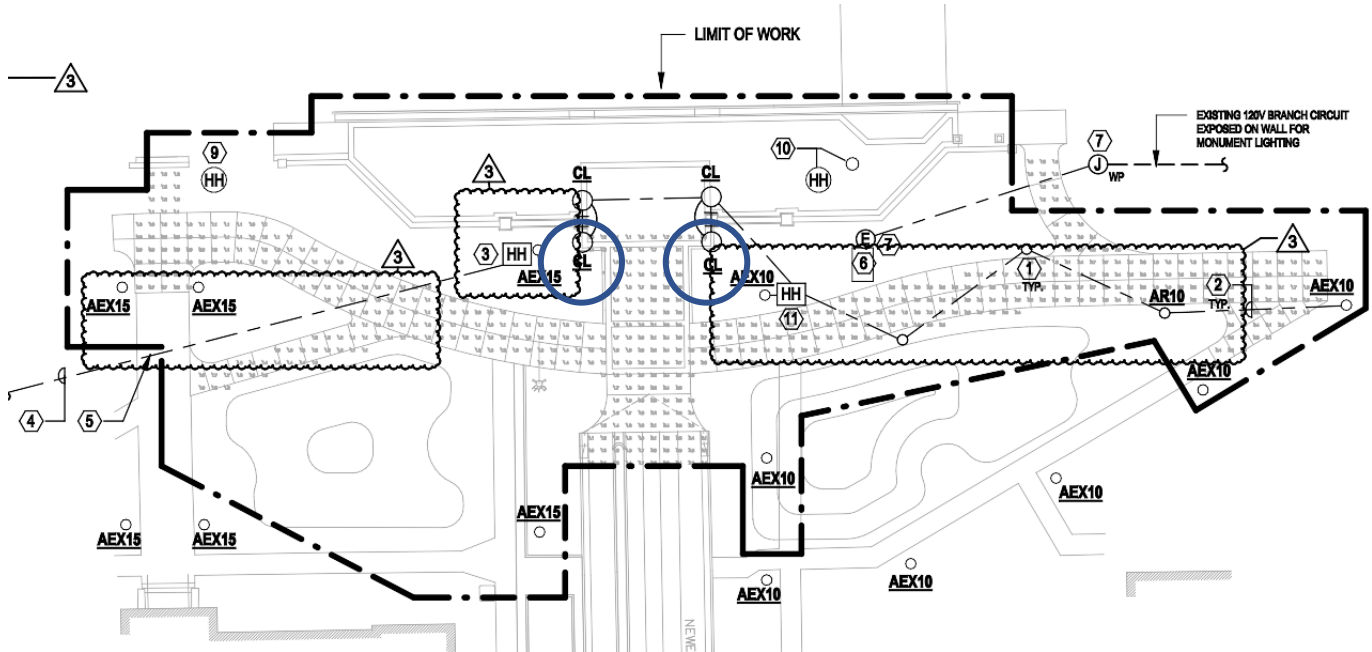
Goal: 3 points

The project included both exterior lighting that already exists and existing lighting that was relocated elsewhere on the site. Energy reduction calculations did not include these. Alternatives were selected based on cost competitiveness and equivalency in lumens. The total lighting reduction within the project site is 80%. No aerators, ceiling fans, water pumps or transformers on the project site. Overall energy saving is 68%.

Calculations

LIGHTING FIXTURE SCHEDULE - NEWELL GATEWAY							
TYPE	DESCRIPTION	MANUFACTURER AND MODEL NUMBER	LUMENS	COLOR	WATTS	VOLTS	MOUNTING
AEX10	EXISTING LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	277	EXISTING 10' POLE AND BASE
AEX15	EXISTING LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	120	EXISTING 10' POLE AND BASE
AR10	RELOCATE LED ACORN LIGHT AND 10' POLE	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	277	EXISTING 10' POLE AND BASE
CL	LED WALL SCONCE - LANTERN TYPE	EVERGREEN LIGHTING COZZ2220LS	2000	4000	20	277	WALL, SEE LANDSCAPE PLAN, ELEVATIONS

- LIGHTING NOTES:
- FOR FIXTURES AR10, PROVIDE CONCRETE BASE WITH ANCHOR BOLTS AS REQUIRED. RELOCATE COMPLETE FIXTURE WITH EXISTING POLE, BASE, ACORN LIGHT, FUSES, ETC.
 - FOR ALL FIXTURES TAGGED ON THE PLAN, REPLACE EXISTING ACRYLIC VICTORIAN TOP WITH NEW TALL METAL TOP, TALL MODEL.
 - MAINTAIN EXISTING POLE TAGS.
 - INSTALL FIXTURE CL AT MOUNTING HEIGHT SHOWN ON LANDSCAPE PLAN AND ELEVATION, ROUGHLY 6'-0" AFG. COORDINATE WORK.



CL x 2 x 20watts = 40watts
 Alternate x 100watts = 200watts
 80% reduction

Product Cut Sheet

Lighting Fixture Schedule - Newell Gateway											
Type	Quantity	Description	Manufacturer and Model Number	Lumens	Color	Watts	Annual kWh	Mounting	Comparable Unit	Watts	Annual kWh
AEX10	4	Existing LED Acorn Light and 10' Pole	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	805.92	Existing 10' Pole and Base	Dabmar Lighting GM687-BZ-MT	175	2044
AEX15	4	Existing LED Acorn Light and 15' Pole	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	805.92	Existing 15' Pole and Base	Dabmar Lighting GM687-BZ-MT	175	2044
AR10	1	Relocate LED Acorn Light and 10' Pole	HADCO ACORN RL54-A-C-N-A-FASTENER-BLACK-W-N-N-A-3-N-N-N-N-AND POLE	5762	4000	69	201.48	Existing 10' Pole and Base	Dabmar Lighting GM687-BZ-MT	175	511
CL	2	LED Wall Sconce - Lantern Type	Evergreen Lighting COZZ220LS	2000	4000	20	116.8	Wall, See Landscape plan	Hubbell WGH-250P	250	1460
							Total	1930.12			6059
										Total Savings	68.1%

All purchased equipment has been included

EVERGREEN LIGHTING	<table border="1"> <tr> <th>Catalog #</th> <th>Type</th> </tr> <tr> <td>UF NE Gateway</td> <td>CL</td> </tr> <tr> <th>Description</th> <th>Date</th> </tr> <tr> <td>COZZ220LS</td> <td></td> </tr> </table>	Catalog #	Type	UF NE Gateway	CL	Description	Date	COZZ220LS	
Catalog #	Type								
UF NE Gateway	CL								
Description	Date								
COZZ220LS									
COZUMEL	ARM MOUNT								



Standard Features
Mounting
 Fixture is pre-wired for standard power source. Includes mounting hardware for standard mounting hardware to meet a 4" cube or deeper req.
Optics
 Contact Evergreen Lighting for complete photometrics.

LED Features
 LED
 All LED are UL1000V rated and are to be mounted into an aluminum (MSD) housing configured to the proper wattage. The LED array will be centered within the lens area and mounted on a white aluminum reflector plate.
Driver
 Specific Drivers will be matched with each fixture. LED array configuration wattage. Standard Driver Features:
 • Constant Current
 • 3-5 year warranty
 • 100000+ hours life expectancy
 • Input: 120VAC, 50/60Hz. OUTPUT: 700MA/27V

Part #	Lamp/Watts	Lumens	A	B	C
COZZ103Q	130	800	17.3/4	9	11
COZZ103T	201	1800	17.3/4	9	11
COZZ104Q	2430	1800	17.3/4	9	11
COZZ105	282	1800	17.3/4	9	11
COZZ211	282	2200	20	10	12
COZZ204Q	2430	1800	20	10	12
COZZ206	2602	3600	20	10	12
COZZ222	421	3800	20	10	12
COZZ106L	6LED	600	17.3/4	9	11
COZZ110L	10LED	1000	17.3/4	9	11
COZZ112L	15LED	1500	17.3/4	9	11
COZZ225L	20LED	2000	20	10	12
COZZ234L	24LED	2400	20	10	12
COZZ240L	40LED	4000	20	10	12
DARK SKY					
COZZ106LS	9LED	900	17.3/4	9	11
COZZ111LS	15LED	1500	17.3/4	9	11
COZZ220LS	20LED	2000	20	10	12

Evergreen Lighting
 1219 Ridgeview Street, Pomona, CA 91768
 Ph: 909-866-5039 Fax: 909-866-0339
www.evergreenlighting.com



Product Details

Fixture Mounting Location	Wall	Catalog Page	NEA
Fixture Wattage	100 W	Width (in.)	9 in
Voltage	120V AC	Length (in.)	15-3/8 in
Light Technology	Incandescent	Length	15-3/8 in
Height	16 in	Housing Material	Aluminum
Width	9 in	Lamp Included	No
Brand	EVERGREEN LIGHTING	Brand	PROGRESS LIGHTING
Shades	CSA	UL/SPIC	99111605
Height (in.)	16 in	Country of Origin	China (subject to change)

Product Description
 These decorative wall lights cast light onto entryways and hallways. They use either high-pressure sodium (HPS), metal halide (MH), induction, or compact fluorescent (CFL) lamps. HPS and MH lamps produce a high-intensity light in either amber or natural light colors. Induction lighting is low maintenance and offers a long life. CFL lamps are ideal for areas where lights are left on for long periods of time, since they take more time than LEDs to reach full brightness.



IES ROAD REPORT
 PHOTOMETRIC FILENAME : COZZ220LS-TBK-A-41K.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 (TEST) L05136405
 (TESTLAB) LIGHT SCIENCES, INC.
 (ISSUEDATE) 7/14/2013
 (MANUFAC) EVERGREEN LIGHTING
 (LUMINAIRES) COZZ220LS-TBK-A-41K
 (LUMINAIRE) COZUMEL LED DARKSKY ARM MOUNT
 (MORE) ALUMINUM REFLECTOR IN ROOF
 (MORE) LEDS WITH OPTICS-DARK SKY
 (BALLASTCAT) HATCH LC22-0700N-UNV-D
 (BALLAST) INPUT: 120/277VAC, 50/60HZ. OUTPUT: 700MA/27V
 (LAMPPOSITION) 0.0
 (LAMP) 4100K
 (OTHER) INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC, 20W
 [TEST PROCEDURE] IESNA-LM-79-08

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	1736 (1 lamp)
Total Lamp Lumens	1736
Luminaire Lumens	1539
Downward Total Efficiency	89 %
Total Luminaire Efficiency	89 %
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	20
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	843.14
Maximum Candela Angle	75H 67.5V
Maximum Candela (<90 Degrees Vertical)	843.14
Maximum Candela Angle (<90 Degrees Vertical)	75H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	115.601 (6.7% Lamp Lumens)
Cutoff Classification (deprecated)	Full Cutoff

IES ROAD REPORT
 PHOTOMETRIC FILENAME : COZZ220LS-TBK-A-41K.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	115.0	6.6	7.5
FM - Front-Medium (30-60)	552.9	31.8	35.9
FH - Front-High (60-80)	344.9	19.9	22.4
FVH - Front-Very High (80-90)	24.7	1.4	1.6
BL - Back-Low (0-30)	83.4	4.8	5.4
BM - Back-Medium (30-60)	263.3	15.2	17.1
BH - Back-High (60-80)	138.0	8.0	9.0
BVH - Back-Very High (80-90)	17.1	1.0	1.1
UL - Uplight-Low (90-100)	0.0	0.0	0.0
UH - Uplight-High (100-180)	0.0	0.0	0.0
Total	1539.3	88.7	100.0

BUG Rating B1-U0-G1

CREDIT 8.7 | PROTECT AIR QUALITY DURING LANDSCAPE MAINTENANCE

OPTION 1: SCHEDULED MAINTENANCE

Goal: 2 points

Narrative

Intent: protect air quality and reduce pollution by minimizing the use of powered landscape maintenance equipment and exposes site users to localized air pollutants and generates green house gases.

Here at the University of Florida, our maintenance staff conduct weekly scheduled ground maintenance on the project site. Since this area is considered high visibility, Grounds staff conduct maintenance early in the morning as during this time will likely have the lowest amount of site users. It is only during this time when powered equipment is being used.

Additionally, in effort to further meet the intent of this credit and to optimize user experience, the University of Florida maintenance team is budgeting for electric powered equipment. Currently UF owns two fully electric zero turn mowers and these mowers are used in the historic district, including this site.

Total site users: 120

Peak time of site use: 10am - 3pm

SITES v2[®] Emissions Reduction Worksheet

C8.7: PROTECT AIR QUALITY DURING LANDSCAPE MAINTENANCE

PROJECT NAME	PROJECT ID#
Newell Gateway	13740

INSTRUCTIONS:

1. Fill out this sheet for all powered equipment used for landscape maintenance on site. For each piece of equipment, choose equipment type, enter occurrences per year and hours per occurrence.

BASELINE MAINTENANCE EQUIPMENT							
Equipment Type	Occ/yr	Hrs/Occ	Hrs/yr	HC+Nox (g/hr)	Annual HC+Nox	CO2 (g/hr)	Annual CO2
4 Stroke 60"-72" Riding Mower	46	3	138.00	11	1,518	9,939	1,371,542
4 Stroke 60"-72" Riding Mower	46	3	138.00	11	1,518	9,939	1,371,542
2 Stroke Line Trimmer/Edger	46	3	138.00	60	8,280	2,885	398,130
2 Stroke Line Trimmer/Edger	46	3	138.00	60	8,280	2,885	398,130
2 Stroke Line Trimmer/Edger	46	3	138.00	60	8,280	2,885	398,130
2 Stroke Line Trimmer/Edger	46	3	138.00	60	8,280	2,885	398,130
2 Stroke Line Trimmer/Edger	46	3	138.00	60	8,280	2,885	398,130
2 Stroke Backpack Blower	46	3	138.00	50	6,900	2,981	411,311
Totals			1104	372	51,336	37,283	5,145,045

PROPOSED MAINTENANCE EQUIPMENT							
Equipment Type	Occ/yr	Hrs/Occ	Hrs/yr	HC+Nox (g/hr)	Annual HC+Nox	CO2 (g/hr)	Annual CO2
Electric mower				0		0	
Electric mower				0		0	
Electric line trimmer or edger				0		0	
Electric line trimmer or edger				0		0	
Electric line trimmer or edger				0		0	
Electric line trimmer or edger				0		0	
Electric line trimmer or edger				0		0	
Electric backpack blower				0		0	
Totals			0	0	0	0	0
PERCENT REDUCTIONS				100%	100%	100%	100%

SECTION 9: EDUCATION + PERFORMANCE MONITORING

CREDIT	TITLE	POINTS
Education C9.2	Develop and communicate a case study	3 points

CREDIT 9.2 | DEVELOP AND COMMUNICATE A CASE STUDY

Completed case study

Goal: 3 points

Newell Gateway



Location: Gainesville, FL
Size: 0.575-acre (25,038 SF)
Client: University of Florida
Project ID: 13740
Project Type: Educational/Institutional Redevelopment

Project Summary

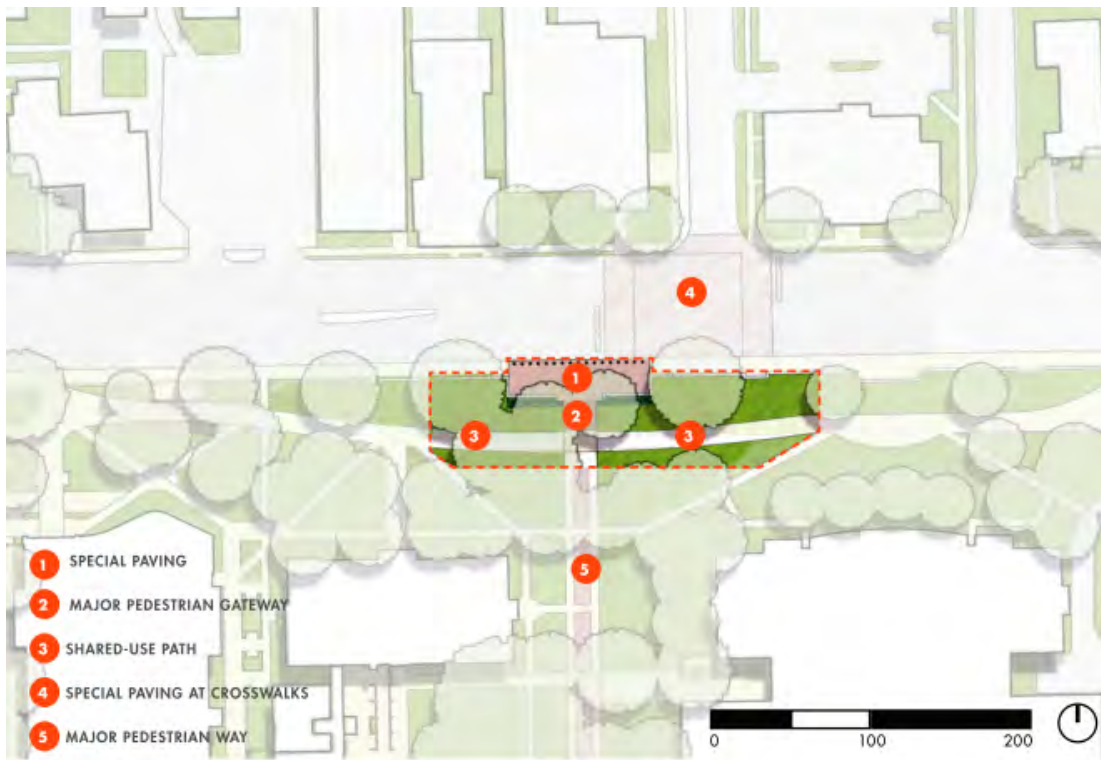
The Newell Gateway is one of the thirteen Priority Projects within the University of Florida's Landscape Master Plan selected for their contribution to the University's pursuit for preeminence, either through their transformative design or through their establishment of an important campus standard. The Landscape Master Plan proposes a unified family of gateways to present a welcoming face to campus visitors. The proposed primary pedestrian gateway is incorporated here at the intersection of Newell Drive and West University Avenue to convey Newell Drive's conversion to a pedestrian way and to welcome pedestrians into the campus. The gateways also frames one of the most appealing long views of the eastern most historic portion of campus. Coordination with the City of Gainesville to rethink the pedestrian crossings along West University Avenue has informed the design of the gateway in an effort to promote pedestrian safety and the use of the improved future pedestrian crossing. The redevelopment of the existing UF's Newell Gateway aligns with the SITES Guiding Principles.

Project Details/Site Context

The Newell Gateway site is 25,038 square foot, located in the eastern part of the University of Florida's campus. Gainesville, Florida is part of the temperate forest biome, giving it a humid subtropical climate. Due to its environment, there were many opportunities to protect and enhance the ecosystem in the Newell Gateway during the pre-design phase, including, but not limited to:

- Reducing stormwater pollution
- Conserving and increasing native species
- Minimizing pesticides and fertilizer use

The Newell Gateway was a previously developed site filled with concrete walkways and a road for connectivity to the historic district. This location is an area of high foot and vehicular traffic. Its unique location allowed for opportunities to maximize transportation options, increase pedestrian safety, and enhance the surrounding heritage trees. However, there were constraints such as having to develop around heritage trees and operating next to busy roads with high traffic volume. With all the considered conditions, the University of Florida allocated \$2,054,000 for the redevelopment of the Newell Gateway.



Project Team

Name	Representing	Expertise	Role
Melanie Heflin	UF PDC	Construction, Maintenance	Project Manager
Cydney McGlothlin	UF PDC	Architecture	University Architect
Linda Dixon	UF PDC	Planning	Director of Planning
Dustin Stephany	UF PDC	Sustainability	Sustainability Coordinator
Donna Bloomfield	UF Facilities	Grounds, Maintenance	Grounds Superintendent
Tom Schlik	UF Facilities	Facilities, Maintenance	Ass't Director, Facilities Services
Scott Fox	UF TAPS	Transp. & Parking	Transp. & Parking
Wade Maclaren	UF Facilities	Physical Plant,	Ass't Director,

		Maintenance	Physical Plant
Frank Bellomo	GAI	Landscape Arch.	Landscape Architect
Donald Wishart	GAI	Landscape Arch.	Landscape Architect
Andrea Penuela	GAI	Landscape Arch.	Landscape Designer
Ian Molgaard	GAI	Landscape Arch.	Landscape Designer
Chris Jones	IBI	Landscape Arch.	Landscape Architect
Jason O'Brian	Walker Architects	Architecture, Design	Architect & Project Manager
Jaime Igua	VHB	Civil Engineering	Civil Engineer
Andrew Mitchell	Mitchell Gulledge	MEP Engineering	MEP
Peter Rizov	Mitchell Gulledge	Electrical Eng.	Electrical Engineer
Leonardo Valencia	VHB	Civil Engineering	Civil Engineer
Shawn Steers	VHB	Civil Engineering	Civil Engineer
Nat Grier	VHB	Civil Engineering	Civil Engineer
Rob Hoogeveen	Certified Irrigation Designs Inc.	Irrigation	Irrigation Designer
Elizabeth McAlister	UF Facilities	Facilities, Maintenance	Facilities Services
Elisabeth Manley	Manley Design	Landscape Arch.	Construction Oversight
Jennifer Lyons	CPPI	Construction Management	Construction Manager
Charles Garrett	CPPI	Construction Management	Superintendent

Challenges & Solutions

Challenges	Solutions
Learning curve of new certification program.	Frequent and transparent communication.
Ensuring sustainability items are timely met.	Communicating goals and exercising time management.
Multiple forms to track progress (Microsoft Teams, BIM360, individual checklists)	Updating team with biweekly meetings of past and current action items.
Subcontractors not fully understanding scope of work.	Sitting down with subcontractors and fully communicating deliverables and expectations, sharing SITES Reference Guide.
Vendors not having information on website (ie. sustainability practices/goals, materials lists, extraction location).	Calling or emailing vendors to obtain specific information.
The size of the site created constraints in having full VSPZs around heritage trees.	Creating our own protective barriers around the heritage trees so they would not be disrupted during construction. The team also located the construction laydown site offsite to an adjacent vacant lot so it was not on tree roots.
Staying motivated throughout the certification process.	Reminding the team of the sustainability achievements & how the site will serve as an educational tool for users and visitors.

Sustainable Features



Environmental, Social and Economic Performance Benefits

Environmental	Social	Economic
<ul style="list-style-type: none"> • 100% Reclaimed Water • 119,784 gallons of potential water savings annually • 100% vegetation trimmings recycled 	<ul style="list-style-type: none"> • Seating for >10% of site users for social connection • 100% tobacco smoke eliminated 	<ul style="list-style-type: none"> • \$11,100 saved by incorporating reused materials • \$719 potential annual water cost savings

Lessons Learned

There was an initial learning curve to the SITES certification process. Team members had to be educated on the program and the benefits of going through it. Processes proved to be more intensive and challenging compared to a typical construction project. Team members had to be versatile and easy to adapt to the new processes that come with SITES. This was able to be achieved through constant communication. Transparent communication within the team was key to establishing action items and meeting timely goals. We learned as a team that it is important to have one main form of communication to track and meet these goals.

Maintenance and Monitoring

The Operation and Maintenance Plan has been developed through collaboration with multiple entities throughout the University of Florida. Maintenance operations of Newell Gateway are mainly facilitated by the University’s Grounds Department which intends to further the LMP goals. The O+M Plan includes best management practices to further sustainable initiatives. It includes a section on how the practices will be tracked and what the 10-year desired outcome is. This ensures that the Newell Gateway promotes long-term sustainability through best management practices.

Photos





Documentation

The case study can be found at the locations below.

- UF GREEN BUILDING CASE STUDIES - <https://facilities.ufl.edu/sustainability/certified-sustainable-buildings/>

**SECTION 10:
INNOVATION OR EXEMPLARY
PERFORMANCE**

CREDIT	TITLE	POINTS
Innovation C10.1	Innovation or exemplary performance (bonus points)	9 points

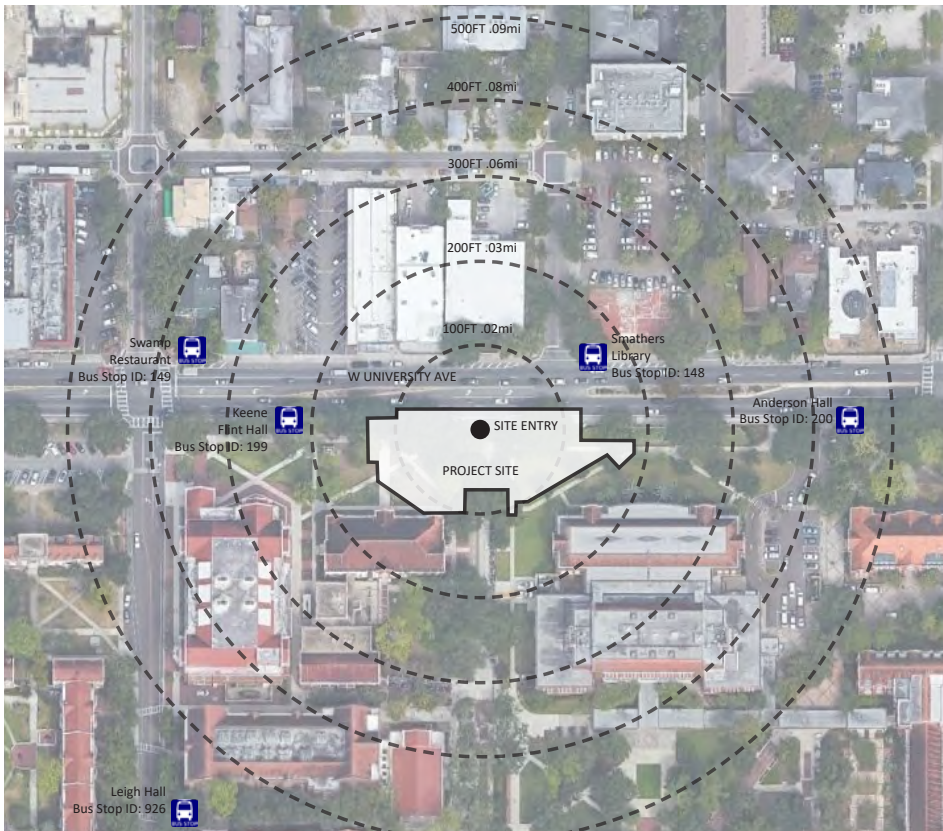
CREDIT 10.1 | INNOVATION OR EXEMPLARY PERFORMANCE

Narrative

Goal: 9 points

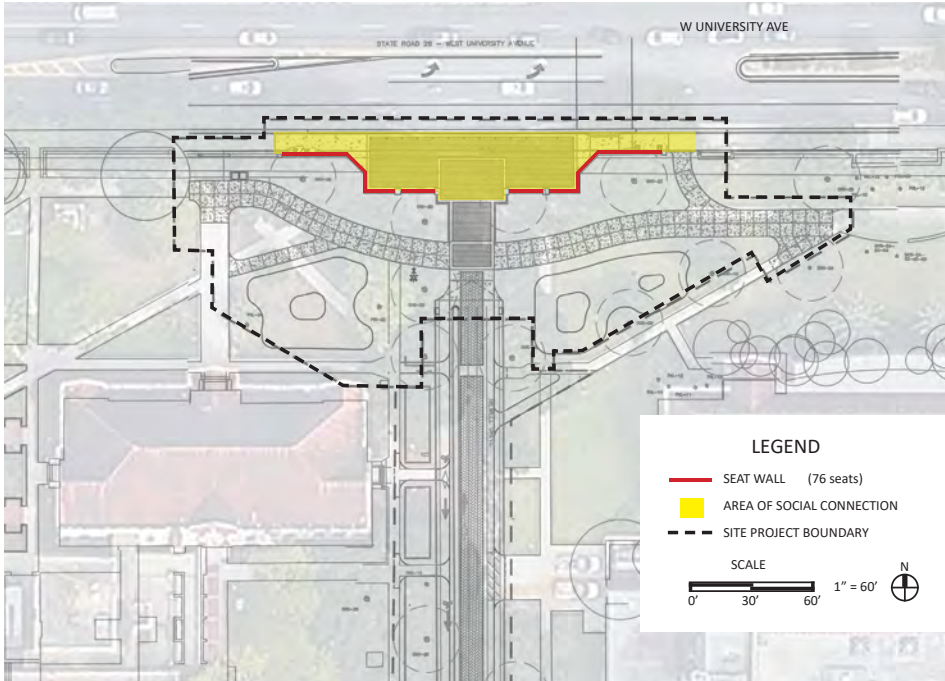
The Newell Gateway project achieves significant measurable performance on the following 3 credits: C1.7 Connect to multi-modal transit networks, C6.4 Support mental restoration, and C6.6 Support social connection.

C1.7 Connect to multi-modal transit networks



Credit C1.7 achieves significant performance by the high quantity of accessible transit terminals within a very close proximity to the project entrance. According to C1.7 option 2, at least one project entrance is within 0.25-mile walking distance of bus stop. Newell Gateway exceeds this quantity by having 4 bus stops within 0.09-mile and much more within 0.25-mile.

C6.6 Support social connection



Credit C6.6 achieves significant performance by providing more seating than the 10% minimum requirements. With a total of 120 site users and 76 seats available, the total amount of seats provided is 63%.

Innovation through Future Proofing

Intent

Build the site resiliency through collection of data and mesh network connectivity. This collected data will be assessed real-world insight on how to build value, ecological sustainability and safety.

Requirements

Project must incorporate the 7-pin technology on installed light fixtures.

Narrative

The University intends to future-proof itself through the phased adoption of IoT lighting technology throughout campus. The benefits of IoT technology is that wi-fi is extended beyond buildings and all throughout main campus as well as this gateway. The 7-pin connector allows the univeristy to adapt to economically meet future needs. For example, the project now has the ability to inform the campus operators the status of individual light fixture performance and functionality. If a fixture has a burned out bulb, the technology will automatically inform operations staff of which fixture is out through smart communications instead of a random work order. Through this technology the University is able to receive innovative datasets such as amount of user traffic flow from different modes of travel such as walking, biking, e-scooters, etc. This data collection will provide a means for prioritizing site upgrades and increasing facility value through real-world information.

Innovation through awareness

Intent

To educate the public on the SITES initiative and bring awareness to how the project impacts the local community.

Requirements

Present project to the public and build awareness of the SITES initiative.

Narrative

The gateway project is being presented at the Florida Recreation and Parks Association (Out of This World) annual conference! Here (on page 24) UF and GAI presenters will discuss what is the Sustainable SITES initiative, how it works and why go through SITES certification. The team will present in front of various park and recreation professionals and discuss their overall as well as share tips and tricks for going through the SITES process. This presentation will build exposure to what the university is doing to build a more sustainable campus and how SITES is a tool to help us get there!



EDUCATION SESSIONS

management openly and effectively to unlock you and your team's potential!

3:00 PM-5:00 PM | 0.2 CEUs

SMALL TOWN, BIG IDEAS

Amanda Salazar

Director, Wildwood Parks and Recreation

Working for a small city doesn't mean you have to think small. Join us in this exciting session to brainstorm with other professionals who work in smaller populated areas, or work with smaller budgets, to find creative ways to make a big impact for your communities!

3:00 PM-4:30 PM | 0.1 CEUs

STRATEGIES FOR FLORIDA YOUTH SPORTS CONFERENCE PANEL

Jack Kardys

President, J Kardys Strategies, LLC

While the benefits for youth who engage in sports and regular physical activity are clear—improved physical health, confidence, self-esteem, life and social skills, teamwork, and leadership-- the state of affairs in our nation's youth sports programs is far from encouraging with only 20% of adolescents meeting prescribed daily physical activity guidelines and 54% playing a sport. According to recent RAND and Pew studies, these numbers are distorted by disparities in participation rates for girls, racial and ethnic minorities, youth from households of low socioeconomic status, youth living in rural areas, and youth with disabilities who are disproportionately affected by barriers of cost, access, and time. The National Youth Sports Strategy (NYSS), developed by the U.S. Department of Health and Human Services (HHS), focuses on strategies that can facilitate improved participation rates despite these barriers.

This panel will explore the role of park and recreation professionals in developing an implementation plan built upon the pillars of the NYSS by increasing awareness of the benefits of youth sports participation; promoting partnership strategies that increase participation for all; developing evaluation methods and metrics to ensure successful implementation plans; and identifying funding models to support youth sports and physical activity.

3:00 PM-4:00 PM | 0.1 CEUs

SUSTAINABILITY IN DESIGN: AN INTRO TO THE USGBC SITES PROGRAM

Frank Bellomo, PLA, ASLA

Senior Director of Landscape Architecture, GAI Consultants, Inc.

Ian Molgaard, LEED Green Associate
Senior Landscape Designer, GAI Consultants, Inc.

Dustin Stephany, LEED AP, WELL AP, GPP, CEM

Sustainable Building Coordinator, University of Florida Department of Planning, Design

and Construction

Most professionals are familiar with the US Green Building Council (USGBC) LEED Certification program for buildings, but few are aware of USGBC's Sustainable Sites Initiative (SITES) program, a set of guidelines that seeks to define sustainable sites and measure performance with a goal of elevating the value of landscapes. The design of park projects, whether large or small, urban or rural, active or resource-based, can be reimagined to protect and improve the natural environment from planning, construction and into operation for generations to come. This session will give an overview of the process and benefits of the SITES program and will show you valuable techniques to use in the planning and design of your project that can help you save time and increase the opportunity for a successful certification.

3:00 PM-5:00 PM | 0.2 CEUs

USING EMOTIONAL INTELLIGENCE TO ENHANCE CUSTOMER SERVICE

Alan Rosen, MPA, ICMA-CM, 5A Certified Coach

CEO, Local Government Solutions

What is Emotional Intelligence (EQ) and how can it impact your relationships with customers and with coworkers? Our basic makeup consists of IQ, personality, and EQ. It is almost impossible to change your IQ and personality, so how can you increase your EQ and what will that change mean for your organization? This interactive and informational session will enhance your interactions within and outside of your organization. Attendees will learn about their own and others' personalities through the 5 Archetypes assessment and learn how to leverage that information to enhance relationships. Participate in several "games" that can be used in your organization to facilitate staff training in the future. Participants should take the free 5 Archetypes Assessment before the session and bring their scores with them to get the most out of the two hours. Note: Participants in this session will need to take this assessment before attending the session: <https://www.careydauidson.com/5-archetypes-assessment>

4:15 PM-5:15 PM | 0.1 CEUs

LET'S EMPHASIZE THE "LEADER" IN RECREATION LEADER

Travis Parker, CPRP

Director of Parks and Recreation, City of Newberry Parks and Recreation

Anna Schutzi

Programs Coordinator, City of Newberry

This session will focus on key issues and opportunities that are specific to the recreation and parks field, and specifically, leaders. We will discuss the leadership skills needed to build a strong team, enhance collaboration with other departments, and build confidence.

4:15 PM-5:15 PM | 0.1 CEUs

MEANT TO MENTOR - A DISCUSSION ON MANAGING VS LEADING

Christina Carmona, CPRP

Recreation Facility Manager, Doral Parks and Recreation

This session will be an interactive discussion based on the difference between being a "manager" and a "leader". We will discuss tips to move you from manager to leader. Connecting with staff allows you to become a supervisor for all types of employees. Get resources and tips to learn how to mentor the supervisors who report to you.

4:15 PM-5:15 PM | 0.1 CEUs

READ IT!

Becky Gunter, CPRP

Director, Seminole Recreation

Alex Koegel

Program Coordinator, Seminole Recreation

We read it, so you don't....well kind of. Join us as we discuss different leadership books and podcasts. We will ask the audience to share books/podcasts that you have read or listened to. Each person (including us) will give a brief 3-5 minute description of each book and then the room will rank it - would you read it, or will you pass? You will leave this session with knowledge from each of the books as well as a book list. If you are a reader we need you. This session is meant to be interactive. We are looking for a fellow professionals who are willing to share the leadership books or podcasts you would recommend. This session is meant to be interactive. We are looking for fellow professionals who are willing to share the leadership books or podcasts you would recommend.

4:15 PM-5:15 PM | 0.1 CEUs

RECOGNIZE, EMBRACE AND PROGRAM...PICKLEBALL AND TENNIS GET YOUR GAME ON!

Andi Mohl

Operations Manager, City of Palm Beach Gardens

Wendy Tatum

Director of Tennis and Pickleball, City of Palm Beach Gardens

Over 26 million people played tennis or pickleball in 2022. By programming your facilities, you can reach an unlimited audience through your community and surroundings areas using innovative, social and adaptive programming.

4:15 PM-5:15 PM | 0.1 CEUs

REFRESH YOUR AQUATIC CENTER- BEST AQUATIC PRACTICES

Devon Poulos, CPRP, AFO, LGIT

Aquatics Manager, North Port Parks & Recreation

Patricia Sturgess, CPRP,AFO,WSIT

