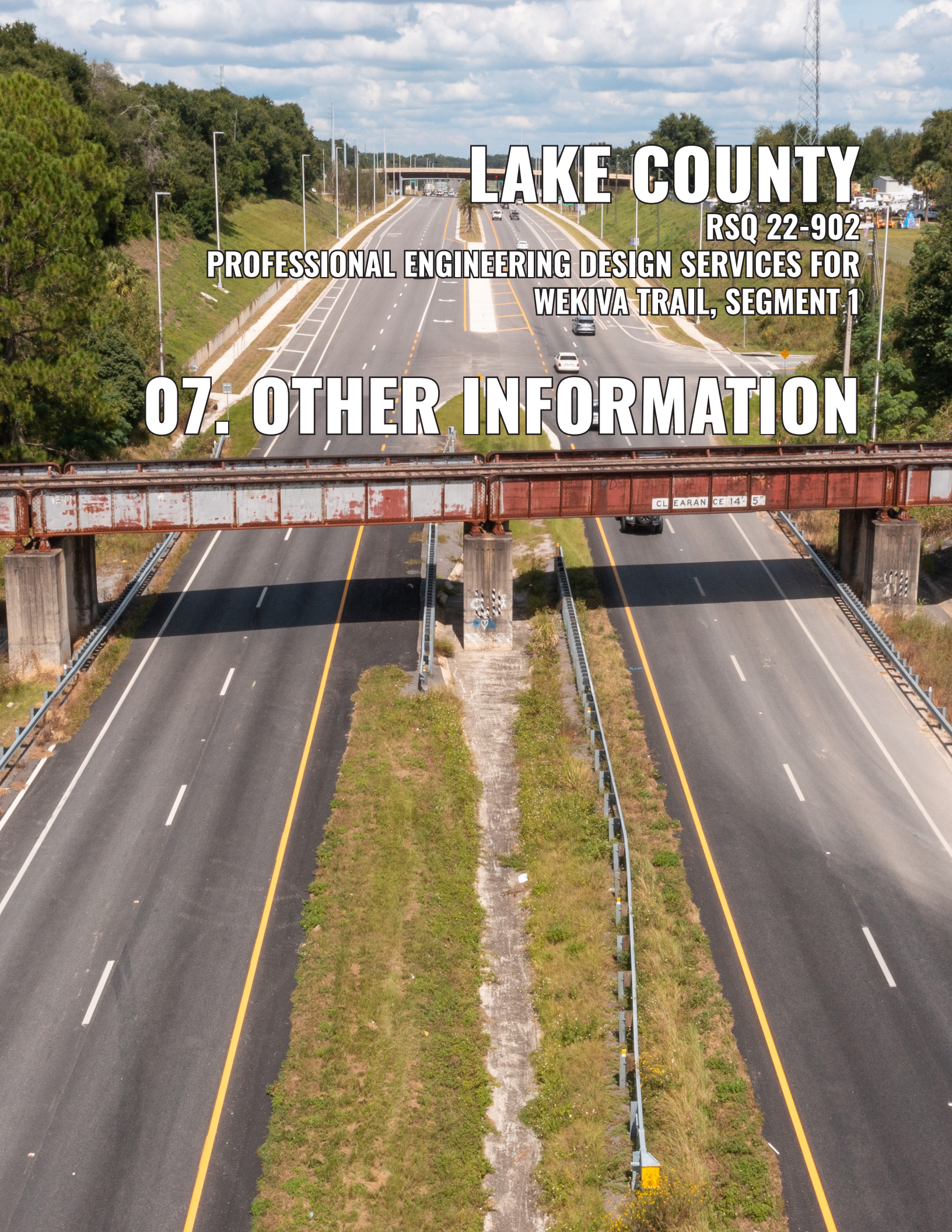


LAKE COUNTY

RSQ 22-902

PROFESSIONAL ENGINEERING DESIGN SERVICES FOR
WEKIVA TRAIL, SEGMENT 1

07. OTHER INFORMATION



SECTION 7 OTHER INFORMATION

ACTIVE TRANSPORTATION AND TRAILS PLANNING EXPERIENCE

These projects summarize recent relevant park, recreation, open space, and trails master plans developed by team members who will be working for Lake County throughout the design process. These show our team's significant level of relevant project experience. Many also received planning awards and/or recognition from a variety of entities. These plans all included extensive citizen involvement through surveys, focus groups, public meetings, and more recently online dialogue.

RELEVANT URBAN TRAILS, PARKS AND RECREATION MASTER PLANNING EXPERIENCE	Population Size	Complete Streets	Urban Bicycle and PED Shared and Separate Use Facility	PED Enhancement / Safety	Traffic Calming	Urban Placemaking	Innovative Transportation Solutions / Policies	Community Engagement
South Lake Regional Park	367k	•	•	•	•		•	•
East Lake Community Park	367k	•	•	•				•
City of Tavares Wooton Park	18k		•	•			•	•
Marion County Greenway Trail	366k		•	•	•		•	•
Pine Meadows Park	367k						•	•
City of Clermont Downtown Streetscape	39k	•	•	•	•	•	•	•
City of Clermont Public Boat Ramp and Park	39k		•	•	•		•	•
South Lake Trail	367k		•	•	•		•	•
City of Mount Dora Downtown Streetscape	15k	•	•	•	•	•	•	•
Cascade Trail	195k	•	•	•	•	•	•	•
Cascade Park	195k		•	•		•		•
Gaines Street	195k	•	•	•	•	•	•	•
Franklin Boulevard	195k	•	•	•	•	•	•	•
FAMU Way	195k	•	•	•	•	•	•	•
Orange Avenue	195k	•	•	•	•		•	•
Orange Avenue Trail, Phase 1	88k	•	•	•	•			•
Seminole Boulevard	14k	•	•	•	•			•
2017 McKinney Parks and Trails Plan	191k	•	•	•	•	•	•	•
2016 Frisco Parks Plan	140k	•	•	•	•	•	•	•
2019 Allen Trails Plan	103k	•	•	•		•		•
2015 Midland Trails Plan	150k	•	•	•	•	•	•	•
2019 Las Cruces NM Parks Plan	104k	•	•	•	•	•	•	•
2019 Temple Parks Plan	75k	•	•	•	•	•		•
2019 San Marcos Parks Plan	65k	•	•	•	•	•	•	•
2019 Irving Parks Plan	242k	•	•	•	•	•		•
2018 Plano Parks and Trails Master Plan	286k	•	•	•	•	•	•	•
2019 Parks and Trails Master Plan Broken Arrow, OK	104k	•	•	•		•	•	•
2018 Sugar Land Parks Plan	119k	•	•	•	•	•	•	•
2018 Round Rock Parks Plan	130k	•	•	•	•	•		•
2020 Laredo Parks Plan	270k	•		•		•	•	•

Marjorie Harris Carr Cross Florida Greenway Landbridge Phase Paved Recreational Trail

Marion County, FL



Project Relevancy

- ✓ Pedestrian Enhancements / Safety
- ✓ Public Involvement
- ✓ Complete Streets
- ✓ Environmental Assessment

The Marjorie Harris Carr Cross Florida Greenway Landbridge Phase Paved Recreational Trail was a design-build project. Halff provided design, permitting, and construction services for a2 approximately 6-mile, 12-foot wide, multi-use paved trail. The trail is located on the Marjorie Harris Carr Cross Florida Greenway and extends from 49th Street west to SR 200. The project also included the design and construction of a tunnel crossing at CR 484. The project was managed by Marion County and was designed to meet all FDOT standards for multi-use trails.

Halff was the design lead and provided the engineering, design, permitting, and route surveying tasks. Halff also retained and managed the specialized subconsultants for environmental, structural, and geotechnical work. Given the environmentally sensitive nature of the Cross Florida Greenway, particular attention was given to design details in order to minimize potential impacts from grading and horizontal alignments.

Accommodations for all trail users (equestrians, hikers, bicyclists, horse-drawn carriages) were incorporated into the design. Due to the numerous natural surface trails that cross the new, paved trail, special consideration in the design was given to trail users' safety at all crossings with signage and striping. Coordination with Florida State Parks (the land manager) was also a big factor in producing a successful project outcome. Lastly, the ease of trail maintenance was a key factor incorporated into the design, as requested by the land manager.

📍 SIZE

6 mile trail

🛠️ SCOPE

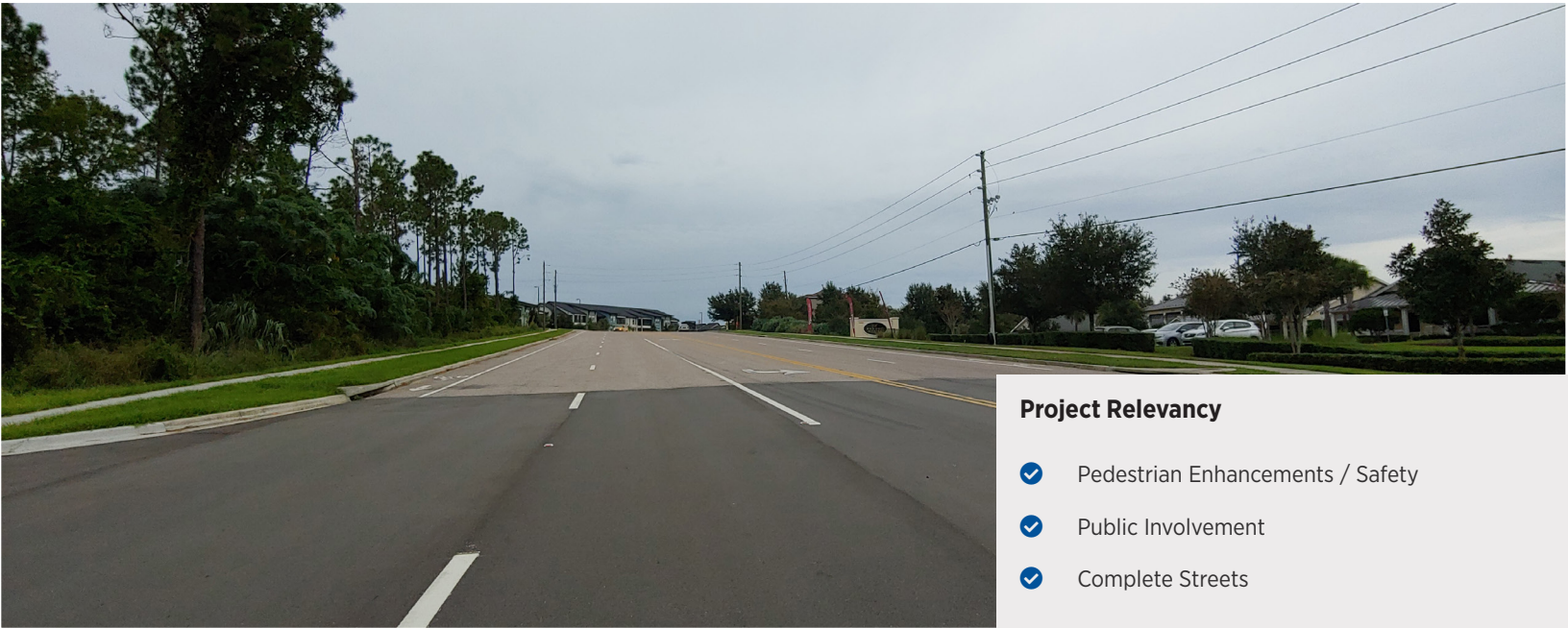
Design, Environmental Assessment, Public Engagement, Prioritized Implementation Strategy

📞 REFERENCE

Elton Holland, PE
2631 SE 3rd Street
Ocala, FL 34471
352-671-8681
elton.holland@marioncountyfl.org

CR 455 Hartle Road Extension

Lake County, FL



Project Relevancy

- ✓ Pedestrian Enhancements / Safety
- ✓ Public Involvement
- ✓ Complete Streets

Halff provided engineering design, permitting, utility coordination and post-design services for the construction for Hartle Road from the existing terminus at Lake County Fire Station to the southerly boundary of the Waterbrooke project.

Halff designed 4,400 LF of 4-lane divided, urban roadway with 4-foot bike lanes, 12.5-foot multipurpose trail and 5-foot sidewalk within a 120-foot right of way. Plans were designed to meet all Lake County and FDOT design requirements for a 45 mph design speed facility.

📍 SIZE

4-lane divided, urban roadway with 4-foot bike lanes and a 8-foot extra wide sidewalk within a 120-foot right-of-way.

🛠️ SCOPE

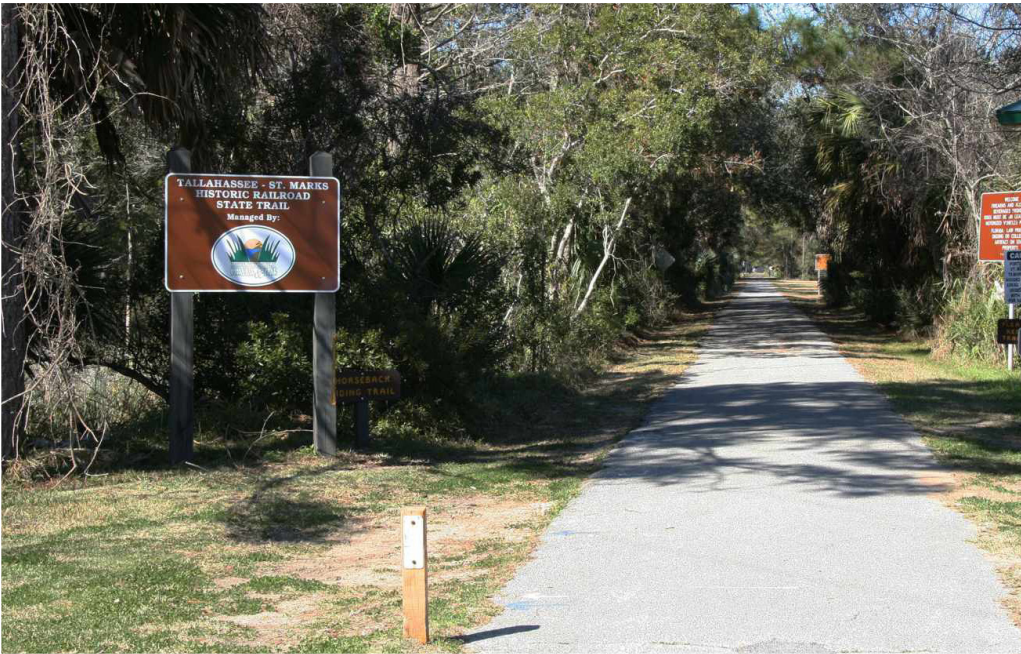
Engineering Design, Survey, Permitting, Construction Administration

📞 REFERENCE

Seth Lynch
Project Manager
Lake County
315 W. Main Street, Suite 441
Tavares, FL 32778
352-253-6000
seth.lynch@lakecountyfl.gov

St. Marks Trail Connection

Tallahassee, Florida



Project Relevancy

- ✓ Urban Bicycle and PED Facility
- ✓ Urban Placemaking
- ✓ Pedestrian Enhancements / Safety
- ✓ Public Involvement
- ✓ Complete Streets

Halff provided landscape improvements along a recently constructed multi-use trail beginning at Wakulla High School extending east approximately 12 miles terminating into the historic St. Mark's Trail. The trail crossed through forested rural areas, in front of businesses, residences, a boat launch, and crossed US 98 at multiple locations. Landscape design focused on providing safety for the users by utilizing selective clearing to not only remove nuisance and exotic species from the site but to improve visibility and therefore increase safety for the users. Safety was also considered at trail crossings as plantings were used to alert users of potential pedestrian/vehicular conflicts. Fall color and wildflower areas along the trail were included for visual interest.

📍 SIZE

12-miles

🌿 SCOPE

Parks and Recreation Needs Assessment, Design, Environmental Assessment, Public Engagement, Landscape Improvements

📄 REFERENCE

Pam Miner
 Project Manager
 FDOT District Three
 Highway 90 East
 Chipley, FL 32428
 850-845-0325
 pminer@moffattnichol.com

Triple Creek Community

Riverview, Florida



Project Relevancy

- ✓ Urban Bicycle and PED Facility
- ✓ Urban Placemaking
- ✓ Pedestrian Enhancements / Safety
- ✓ Public Involvement
- ✓ Complete Streets

Half is providing master planning, design, permitting, and construction services. The firm also serves as the District Engineer for the CDD on the 1,050 acre, 2,000+ unit mixed-use project. The project includes multiple amenity features including miles of paved trails, numerous wetlands, a lake, creek system and hundreds of acres of preservation land. Additionally, there are several community pools, playgrounds, and recreation areas. Monument signs, landscape, and irrigation are also under the direction of the CDD Engineer. Services include evaluation of flooding issues on District property, consideration of additional landscaping and/or fencing to provide buffering between District property and adjacent land, evaluation of resident complaints, negotiation of penalties resulting from unauthorized habitat impacts from adjacent property owners, oversight of District construction projects, oversight of District construction budgets, attendance at District public meetings, cost estimates, engineer's reports, and assistance with bonding.

Services related to this project have been provided for multiple clients in numerous phases spanning more than 15 years. Half provided conceptual design of a quarter mile fitness trail utilizing outdoor fitness equipment for users of all ages and capabilities. The landscape included the use of native plant palette, wetland plantings, and the use of complimentary colors and contrasting textures. Plantings were designed with seasonal blooms and fall color amongst evergreen plant materials with varying textures to provide interest and year-round appeal. Grand oaks and other trees were preserved and planted around as anchors to the design. Trails were placed appropriately with canopy trees while maintaining views of important site features, such as the 50 acre lake. Plantings were also used to screen views and provide privacy for residents.

📍 SIZE

1,050 acres

🛠️ SCOPE

Master Planning, Design, Permitting Construction Administration, Public Engagement, Landscape Improvements

📞 REFERENCE

James McGowan
Greenpointe Communities, LLC
7807 Baymeadows Rd E, #205
Jacksonville, FL 32256
(329) 340-6750
jmcgowan@greenpointellc.com

Withlacoochee Bay Trail

Citrus County, Florida



Project Relevancy

- ✓ Bicycle and Pedestrian Improvement Master Plan
- ✓ Pedestrian Safety and Enhancements
- ✓ Community Engagement

This section of the Withlacoochee Bay Trail is located along the historic Cross Florida Barge Canal in Citrus County. The meandering multi-use trail extends from a trailhead located on the east side of US 19, to an incredible overlook at the Gulf of Mexico trail terminus. This overlook is the poster child for the 2007 Florida Greenways and Trails Month. Halff provided a full complement of professional services to the Florida Department of Environmental Protection's Office of Greenways and Trails in the completion of this very popular trail.

The original vision of a meandering multi-use recreational trail that would take advantage of the beautiful vistas along the Barge Canal, and the panoramic vistas from the spoil embankment adjacent to the Canal became a reality through the planning, engineering design, environmental permitting, and construction administration performed by Halff. The end result is a combination of facilities that include several trail head parking areas, an equestrian trailhead, restroom facilities, picnic shelters, observation and fishing platforms, a 12-foot-wide multi-use trail, canoe/kayak launch, and boat ramp. Today you will find people walking, riding their bicycles, horseback riding, fishing, paddling, bird watching or simply enjoying the solitude and natural beauty of the park. The community's reception of this pristine multi-use recreational trail was so great that it led to the creation of a non-profit citizen's support organization. These organization members volunteer their time to develop, maintain, and promote this community enhancing trail.

📍 SIZE

4 Miles

🛠️ SCOPE

Conceptual design, public involvement, surveying, permitting, environmental assessment, engineering, construction documents, trail

📞 REFERENCE

Samantha Browne
Chief, FDEP Office of Greenways
and Trails
(850) 245-2076
samantha.browne@dep.state.fl.us

O'Leno to Ichetucknee Trail

Columbia County, Florida



Project Relevancy

- ✓ Bicycle and Pedestrian Improvement Master Plan
- ✓ Pedestrian Safety and Enhancements
- ✓ Community Engagement

Halff and Anderson Columbia Company, Inc., teamed as a design-build firm to create this 12.8 mile paved trail from O'Leno State Park to Ichetucknee Springs State Park. The project provides a ten-foot-wide paved trail within the right-of-ways of US 41, County Road 18, US 27 and several local streets in the City of Ft. White. Also included was a timber bridge over Hammock Branch on County Road 18 near US 41 and another bridge on County Road 18 at a culvert location.

To support design efforts and permitting, Halff completed a topographical survey with cross-sections along the entire trail alignment. The project required close coordination with all utility owners with facilities within the rights-of-way, subconsultants, and environmental specialists for wetland crossings and the Florida Department of Environmental Protection (FDEP) for permit approval.

Design and coordination procedures included timely meetings with the District Project Administrator (Barney Bennette) and area stakeholder groups.

📍 SIZE

12.8 Miles

🛠️ SCOPE

Parks & recreation, park planning, environmental assessment, programming, site design, architecture, landscape architecture, engineering, permitting

📞 REFERENCE

Barney Bennette
(386) 961-7878
Barney.Bennette@dot.state.fl.us

Dutton Island Preserve Multi-Use Trail

Atlantic Beach, Florida



Project Relevancy

- ✓ Urban Bicycle and PED Shared and Separate Use Facility
- ✓ PED Enhancement / Safety
- ✓ Public Involvement

This project involved designing an approximately 2,600-linear-foot dedicated shared-use/multi-purpose path along Dutton Island Road, connecting the Dutton Island Preserve with the City of Jacksonville's Dutton Island Preserve parking lot and picnic area on the east end of the road. Services involved investigating and prioritizing alternative routes and selecting a preferred route for a shared-use/multipurpose path. Hanson then designed the preferred segment.

The path was designed to avoid fill within Sovereign Submerged Lands. Minimal wetland impacts were mitigated through a wetland creation area on Dutton Island. Hanson coordinated with permitting agencies and the City to develop a viable solution. The original project began with investigating proposed connections from the Tide Views Preserve and the Dutton Island Preserve to connect the two areas, allowing bicyclists and pedestrians a safe passageway and opening up inaccessible sections of each area. Previously, pedestrians and bicyclists shared a narrow, single-lane roadway with vehicles.

Public involvement was key because much of the path would traverse through or around neighborhoods. Following a public information meeting, the City Commission shifted its focus of the project to provide a separate path along the Dutton Island Causeway to the island.

📍 SIZE

2,600-linear-foot

🛠️ SCOPE

Multi-use trail design, permitting, drainage, maintenance of traffic, public involvement

📞 REFERENCE

Scott Williams
City of Atlantic Beach
(904) 247-5834
swilliams@coab.us