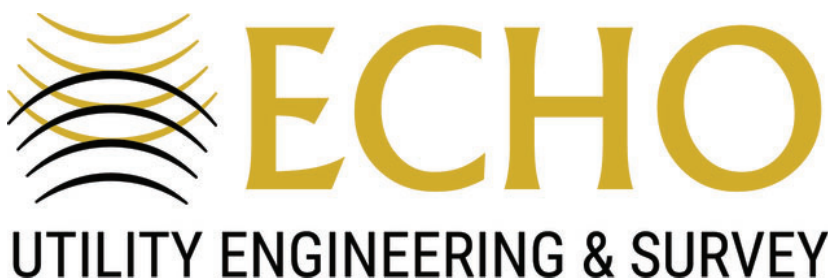




Charlotte County

RFP NO. 2024000138

Subsurface Utility Engineering Verification



ECHO UES, Inc.
Minority Business Enterprise (MBE)
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Tampa, FL 33634
888-778-ECHO
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Primary Contact

Jerry Comellas, Jr., PE
President
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Mission:

Provide high quality and reliable utility and survey data to Design better, Build faster, and Safely enhance Engineering, Design, Construction and Maintenance of infrastructure.

December 7, 2023

RE: RFP NO. 2024000138 Subsurface Utility Engineering Verification

Dear Members of the Selection Committee,

Charlotte County (the County) continues to work towards impressive goals with strategic initiatives for the betterment of the entire community. As the County continues this pace of growth and achievement, ECHO UES, Inc. (ECHO) is committed to serving the County by providing professional assistance in meeting these goals. ECHO's Team includes a highly experienced group of local professionals who are leaders in their respective fields that are prepared and eager to assist the County in maintaining their standards of excellence and service to your residents.

ECHO UES, Inc. Areas of Specialization

ECHO is a professional services firm who believes in collaboration and communication with our clients. We are driven to understand their needs and provide time-effective and cost-effective solutions throughout Florida. We bring a vast history of experience and expertise in the fields of Subsurface Utility Engineering (SUE), Survey and Mapping, and Utility Coordination.

Proposal Overview

As you will see throughout the pages of our proposal, ECHO's impressive qualifications make us the ideal team to assist the County for the duration of this contract. Information to take note of while reviewing our proposal includes:

- ECHO's Tampa office will serve as the main office for this contract and is within close proximity to Charlotte County which will assist in quick turnaround for urgent Task Work Orders.
- Our history and approach with Task Work Order contracts allows us to effectively complete all work on time and in budget.
- ECHO's leadership has an extensive history working together and our communication throughout the project cycle is clear and consistent.
- ECHO qualifies as an MBE (Minority Business Enterprise) and takes pride in our leadership representing their cultural heritage while leading a successful business.

Because of ECHO's history of working with various governmental entities throughout the State of Florida, we know how to effectively utilize our time management skills to successfully complete a project of any size. ECHO's management and valued staff will always strive to exceed your expectations and continue along the path of achievement the County has developed for the community.

Respectfully submitted,



Jerry Comellas, Jr., PE / President

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****Please note that all pages within our proposal are numbered. This includes our cover letter, index, dividers/cover pages, resumes and forms which, per the RFP, are excluded from the required 50-page limit.**



Tab 1

Proposed Team



Proposed Team

ECHO is a certified **Florida Corporation** that was founded in 2017 with the vision of creating a highly specialized professional culture, where quality of work is never compromised, technical excellence is second to none, and where the working environment is stimulating, enjoyable and rewarding. Simply put, together with our associates, partners, and clients we want to *Grow, Inspire and Make a Difference* in the communities where we work and live. As we will further describe throughout our proposal, the ECHO team has an extensive amount of experience working on work assignment-based or task work order (TWO) driven contracts and is fully aware of the staff and equipment demands necessary to successfully support these contracts. We are confident our team can offer Charlotte County quality results on every assignment.

ECHO Quick Facts

- ❖ Founded in 2017
- ❖ Certified Florida Corporation
- ❖ Certified Minority Business Enterprise
- ❖ Certified Disadvantaged Business Enterprise
- ❖ Three Offices in Florida – Oviedo, Tampa, & Gainesville
- ❖ 110 Total Employees
- ❖ 33 Available Field Crews

Contract Leadership

Mr. Jason Stanley is our proposed **Project Manager** for this contract. As a Vice President of ECHO, he is highly committed to further supporting the County as a primary client if presented the opportunity through the successful selection of this contract. Mr. Stanley will be supported by our **Contract Manager, Mr. Jerry Comellas, Jr., PE**, and by our proposed in-house production staff, consisting of **Senior Surveyor, Mr. Mike Patterson, PSM**, and **Project Surveyors Mr. Adam Berry, PSM, Mr. Thomas Young, PSM, GISP, Mr. Dustin Shenk, PSM**, seven local Survey CADD/GIS technicians, two local utility coordinators, and our QA/QC Manager, **Mr. Carlo Pilia, CEng., PE (AZ)**. **Field Managers, Mr. Andy Trayner, PSM and Mr. Mike Albanese, Sr.**, will also support by managing our crews that will be out collecting data within the County.



Qualifications of Key Staff

Throughout West Central Florida it is hard to find a production/safety focused, detail-oriented, and experienced professional comparable to our proposed Project Manager, Mr. Jason Stanley. Mr. Stanley has over 23 years of experience working and managing SUE projects/tasks for the FDOT and local municipalities. His deep understanding of industry standards, subsurface utility detection, utility mapping, design, and construction activities combined with his impeccable attention to detail, and outstanding organizational and planning skills make him a highly qualified Project Manager for this contract. ECHO brings unique qualifications in support of this contract with our proposed management team. In addition to Mr. Stanley's tenure as a project manager, Mr. Comellas and Mr. Patterson possess

proven and successful contract and project management experience. Their prior primary roles and responsibilities involved project/task resource and fiscal management along with QA/QC support. This extensive cumulative experience and expertise will enable ECHO to provide the County with maximum responsiveness, resulting from multiple key team members having worked directly together in the successful delivery of TWO driven contracts for over 20 years. All SUE field operations will be performed under the direction of ECHO's proposed SUE Field Manager, Mr. Michael Albanese, Sr., and will be conducted in the safest and most efficient manner. Mr. Albanese has 28 years of experience managing SUE field activities for local, state and federal agency projects. Mr. Albanese has worked on similar TWO driven assignments since 2002 and is fully knowledgeable on the expectations and requirements of field management and utility data collection. Our team of Survey CADD/GIS Technicians will work hand in hand with our field management teams to further ensure cohesion of office and field staff.

ECHO's proposed Project Manager, Sr. Surveyor, and SUE Field Manager have worked side by side since 2002. This experience of working together ensures continuity with zero learning curve while supporting this contract, further solidifying one of ECHO's core values – **Teamwork**.

Subconsultant: EPIC Engineering and Consulting, LLC (EPIC) will support ECHO for the duration of this contract by providing additional GIS support. EPIC's services are office based, and their team of data scientists will help to provide additional quality checks and deliverable reviews to ensure each assignment's deliverables are of the highest quality. EPIC's key staff will include Prasad Chittaluru, PhD, PE, PMP, BCEE, GISP, Sindhura Pandrangi, Jared Allen, Linling Wang, Sampath Kandala, and Satish Kumar Thota.

ECHO Hiring, Training, and Team Retention

Retention: ECHO fosters a positive environment of growth and experience amongst our staff, and because of that environment we are proud that our team maintains a strong retention rate throughout our three offices. ***The key staff listed above and throughout this proposal, including our Project Manager, will be available and committed to the entirety of the contract.*** We can assure the County that our team is secure, and that every member is prepared for each assignment the County will request of ECHO.

Hiring/Training: Throughout our hiring process, no matter the position, our leadership reviews and interviews candidates to determine not only if their qualifications meet the needs of the position, but also if they have the initiative for the demands of the industry. Once hired, our team trains with management for their respective role while also learning the ins and outs of how our work is completed, starting with our field work all the way through data processing and review, and ending with the compilation of final files. Our leadership, including management and partners, is extremely interactive with all levels of our team which encourages open communication throughout the project life cycle. We are very fortunate to have seasoned crew leaders who are safety focused, quality conscious, and active mentors. This experience is essential when teaching our younger staff and assisting their career growth at ECHO.



ECHO also encourages staff in all positions to pursue additional certification/licenses/education within the industry. Some of our team have pursued certified survey technician (CST) certifications of which ECHO is a proponent. For staff that have chosen to complete their CST certification, ECHO provides reimbursement for exam fees and monetary benefits for each completed level.



Tab 2

Management Plan



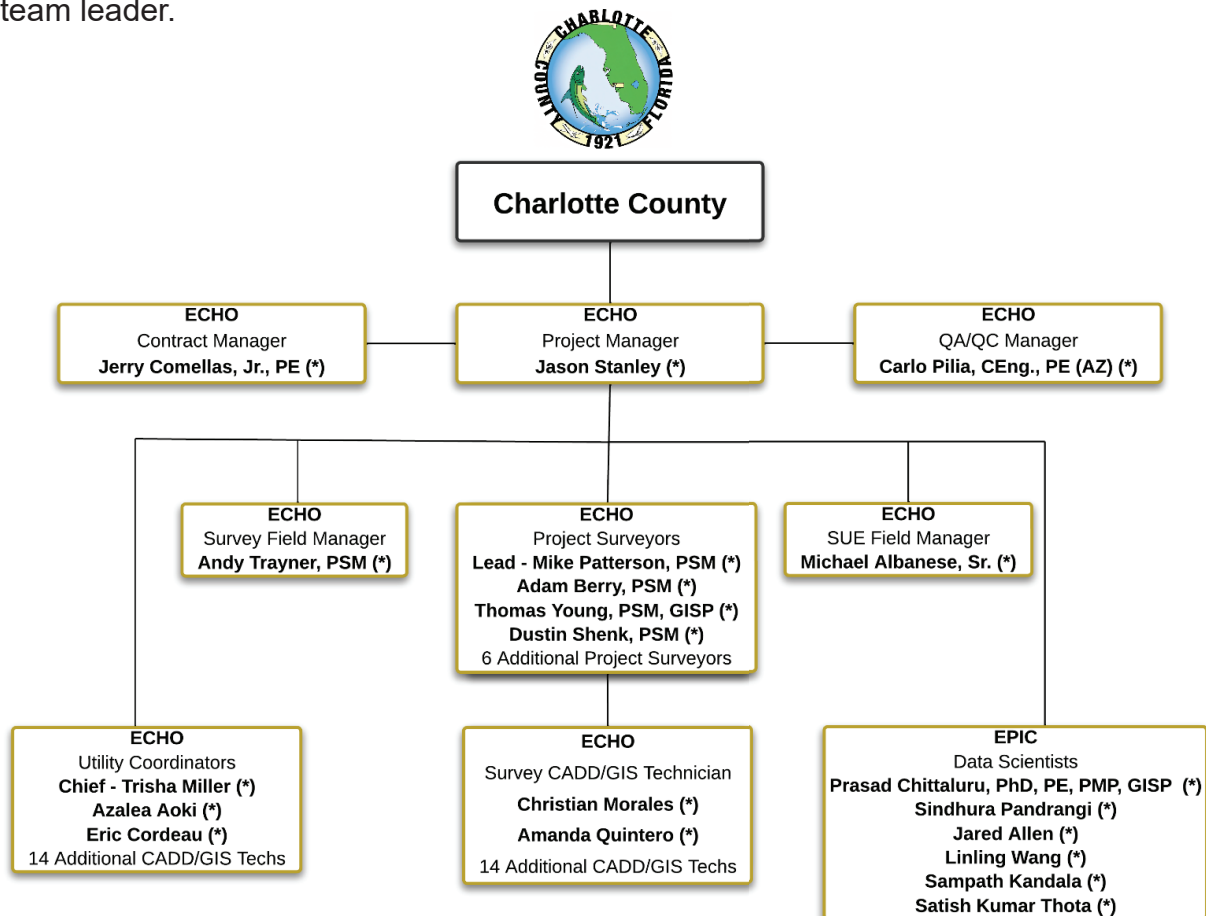
Management Plan

Team Organization

As reviewed above in Tab 1 – Proposed Team, Mr. Jason Stanley will serve as Project Manager for this contract. Mr. Stanley and all our key staff will be available for the entirety of the contract and will not be substituted without the express permission of the County.

Staffing Resources: ECHO has at its disposal **33 field crews, 11 project surveyors, 2 licensed engineers, 16 survey CADD/GIS technicians and 4 utility coordinators** that are available to serve on the contract under the direction of Mr. Stanley. In addition to those numbers, EPIC will also supplement our team with additional data scientists and GIS support. Between the staffing resources and the availability of field equipment, which will be reviewed in Tab 7 – Experience and Capabilities, our team possesses all necessary assets to provide the services to achieve the requirements of this contract.

Below is a visual representation of ECHO's organizational structure and which team member will report to each team leader.



Total Team Resources

- 33 Field Crews
- 11 Project Surveyors
- 3 Professional Engineers
- 16 Survey CADD Technicians
- 4 Utility Coordinators
- 5 Data Scientists from EPIC

(*) - See attached resume

Team Approach

ECHO understands that the critical elements of any assignment include communication, schedule, quality, and consistency. Mr. Stanley and our team are fully aware of the need to produce high quality and reliable data for every task, knowing that our work will produce information critical to the County for the development of the GIS database that this contract will produce. ECHO's approach to this contract is to assign our unmatched leadership team to provide project management, direction, support, and QA/QC to our entire team for the duration of every TWO. That leadership team will be comprised of Mr. Comellas, Mr. Stanley, and Mr. Patterson.

Communication and Coordination

As seen above on the organization chart, each role has a specific leader that the team reports to. From our field crew to CADD technicians to project surveyors and even our utility coordinators, each role follows a flow that leads back to Mr. Stanley. By reporting to their superiors and having a clear line of communication, our team can remain in contact and pass along information quickly throughout the project cycle.

Below is a review of the steps our team has in place to streamline our communication internally and with the County. We will further explore ECHO's means of coordination and communication in Tab 5 – Proposed Design Approach.

- ❖ Each project starts with an internal kick-off meeting with the team to thoroughly review the scope, necessary SAFETY protocols, schedule, required equipment resources, and the required deliverables.
- ❖ Daily check-in throughout the project cycle with Mr. Stanley, Project Surveyors, Field Managers, and Utility Coordinators to make any adjustments to the project schedule.
- ❖ Deep dive weekly meeting with entire team to review project status and budget, and to make any additional changes to schedule as needed.
- ❖ Data management programs along with our internal secured file storage allow for updated information to be accessible to all team members to ensure deliverables remain current.
- ❖ The County will receive monthly progress reports for all assignments.

Accountability and Quality Checks

Our Contract Manager, Mr. Comellas, and Lead QA/QC Manager, Mr. Pilia, will be vital to **maintain accountability** for each task assigned to our team. Both will be part of all communication avenues including meetings and working alongside Mr. Stanley to stay apprised of any changes to a task. They will provide support where needed and provide quality checks to ensure that final deliverables are of the highest quality.

Along with our accountability team leads, ECHO also puts a strong focus on **quality control**. It is a constant process at ECHO beginning in the field and continuing in the office through final delivery. Mr. Stanley will establish clear roles for quality checks throughout the project cycle. This will help avoid any issues that may arise and to keep the project on track. More information about our QA/QC process can be found in our Proposed Design Approach in Tab 5.



Jason Stanley
Vice President

Contract Role: Project Manager

Years' Experience: 23

Education

- Associates of Applied Science (AS), Design Technology, ITT Technical Institute

Professional Registrations/Licenses

- Florida Department of Environmental Protection, Erosion and Sedimentation Control, Lic#435

Certifications/Training

- Transportation Worker Identification Credentials (TWIC)
- Florida Phosphate Producers
- Intermediate Maintenance of Traffic
- US NAVY Veteran, Operation - Specialist A-School Training

Summary of Experience

Mr. Stanley has over 23 years of experience providing subsurface utility engineering (SUE) professional services, in addition to providing management support for surveying and mapping services throughout the state of Florida. Mr. Stanley spent his entire working career dedicated solely to risk management and the protection and construction of public and private infrastructure, specifically through Subsurface Utility Engineering and Survey processes.

Mr. Stanley's extensive experience working with a wide range of clients in both the public and private sectors has provided him with a diverse background and exposure to potential public and utility related issues that may present themselves during a contract. His experience includes project management, finance, subsurface utility engineering, surveying and mapping, utility/roadway design and construction, water/wastewater treatment and nuclear energy plants, permitting and construction claims.

Mr. Stanley will serve as a Project Manager on this contract and provide proactive, hands on review of all task deliverables ensuring continuity and consistency of the processes and products amongst the valued ECHO team members.

Significant Projects

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services. Mr. Stanley served as Project Manager.

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Stanley served as Project Manager.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Stanley served as Project Manager.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Stanley serves as Project Manager.

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Mr. Stanley served as Project Manager.

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Mr. Stanley served as Project Manager.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Stanley served as Project Manager.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Stanley served as Project Manager.

Lower Peninsula Stormwater Design-Build Improvements, Tampa, FL: ECHO provided subsurface utility engineering and surveying services for the Atkins/Kimmins design build team on this City of Tampa stormwater improvement project. Services provided under this contract included the surveying of underground utilities along four (4) residential corridors where a box culvert is to be installed. Mr. Stanley served as Project Manager.



**Jeraldo Comellas, Jr., PE
President**

Contract Role: Contract
Manager

Years' Experience: 37

Education

- BS / Civil Engineering /
1986
University of South
Florida
- AA / Engineering / 1982
Hillsborough Community
College

Professional Registrations

- PE – FL - #45838
- PE – MS - #27049
- PE – LA - #41310

Professional Affiliations

- Florida Engineering
Society
- American Society of
Civil Engineers
- American Society of
Highway Engineers
- Society of Hispanic
Professional Engineers

Summary of Experience

Mr. Comellas is President of ECHO UES Inc. (ECHO) and serves as the leader of the business with primary control of the company's staff, assets, and financial resources. He has 37 years of civil engineering and survey experience and heads up the hiring of leadership, expansion of the business as well as risk management.

Mr. Comellas is highly experienced in managing multi-service projects, ensuring clients' needs and deadlines are met. Mr. Comellas founded ECHO as President and with a few strategic partners established three offices located in Tampa, Oviedo, and Gainesville Florida. He has played an instrumental role in launching and growing ECHO's footprint for subsurface utility engineering and surveying services in the transportation design and design-build project industry. Mr. Comellas' knowledge and experience obtained during his nearly 20 years with the Florida Department of Transportation (FDOT D1 & D7) and his 17 years in the private consultant engineering sector has contributed to his past success serving the FDOT in managing subsurface utility engineering and utility coordination contracts.

Mr. Comellas will serve as Contract Manager on this contract. In this role, he will support the Engineer of Record, as needed, with scope and estimate development, the financial oversight of the projects in addition to ensuring adequate equipment and staff are available to meet scheduled tasks.

Significant Projects

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Mr. Comellas served as Contract Manager.

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Comellas served as Contract Manager.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr.

Grow, Inspire, Make a Difference

Comellas served as Contract Manager.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Comellas served as Contract Manager.

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Mr. Comellas served as Contract Manager.

Signal Design at Gasparilla Road at Marathon Boulevard, Charlotte County, FL: This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Comellas served as Contract Manager.

Veterans Blvd. @ Loveland Blvd. & Torrington St., Charlotte County, FL: This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations. Mr. Comellas serves as Contract Manager.

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Mr. Comellas served as Contract Manager.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Comellas served as Contract Manager.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Comellas serves as Contract Manager.



**Carlo Pilia, CEng., PE (AZ)
Vice President**

Contract Role: QA/QC
Manager

Years' Experience: 19

Education

- BS / Structural-Building
(Civil) Engineering /
2004, University of
Cagliari (Italy)

Professional Registrations

- PE – AZ - #58267
- CEng – Ireland -
#064243
- PE – Cagliari, Italy -
#5814

Professional Affiliations

- Florida Engineering
Society
- ASCE, East Central
Past Branch President
- ASHE
- ASCE 38/22 Standard
for the Collection and
Depiction of
Subsurface Utility Data
– Committee Member
- ASCE Utility
Engineering &
Surveying Institute,
Utility Risk
Management Division,
ExCom Member

Summary of Experience

Mr. Pilia has over 19 years of experience providing utility engineering professional services, in addition to operations, leadership and management support for surveying and mapping businesses. With experience in both Europe and the United States, while working for both privately held and public companies, Mr. Pilia earned experience in SUE and survey professional services.

Mr. Pilia serves on the technical committee of the ASCE 38-22 "Standard Guideline for Investigating and Documenting Existing Utilities", and as member of the ASCE Utility Engineering & Surveying Institute, Utility Risk Management Division ExCom.

As Vice President of Utility Engineering for ECHO UES, Inc., Mr. Pilia is involved with Standard Operating Procedure (SOP) development and implementation, staff training, quality control, technical leadership, in addition to general business tasks pertaining to the Company's partners.

Mr. Pilia will serve as QA/QC Manager for the duration of this project.

Significant Projects

Signal Design at Gasparilla Road at Marathon Boulevard, Charlotte County, FL: This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Pilia served as QA/QC Manager.

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Mr. Pilia served as QA/QC Manager.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Pilia served as QA/QC Manager.

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FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, SUE, and utility coordination services. Mr. Pilia served as QA/QC Manager.

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Lower Peninsula Stormwater Design-Build Improvements, Tampa, FL: ECHO provided subsurface utility engineering and surveying services for the Atkins/Kimmins design build team on this City of Tampa stormwater improvement project. Services provided under this contract included the surveying of underground utilities along four (4) residential corridors where a box culvert is to be installed. Mr. Pilia served as QA/QC Manager.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr. Pilia served as QA/QC Manager.

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Pilia served as QA/QC Manager.



**Mike Patterson, PSM
Vice President**

Contract Role: Lead Sr.
Surveyor

Years' Experience: 22

Education

- BS / Surveying / 2001,
Pennsylvania State
University

Professional Registrations

- Florida Professional
Surveyor & Mapper – LS
6560

Professional Affiliations

- Florida Surveying and
Mapping Society

Summary of Experience

Mr. Patterson has over 22 years of experience providing surveying, mapping and subsurface utility engineering professional services on a multitude of transportation projects throughout central and west Florida. Mr. Patterson has supervised and participated in many surveying projects including right of way control surveys, right of way mapping, geodetic control surveys, design/topographic surveys, boundary surveys, and subsurface utility surveys. He has developed standards and procedures for field and office work in order to increase efficiency and quality of the produced deliverables while always focusing on safety.

As Vice President of Surveying of ECHO UES, Inc., Mr. Patterson is involved with Standard Operating Procedure (SOP) development and implementation, staff training, quality control, technical leadership, in addition to general business tasks pertaining to the Company's partners.

Mr. Patterson will serve as Lead Sr. Surveyor for the duration of this project.

Significant Projects

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Mr. Patterson served as Lead Sr. Surveyor.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Patterson served as Lead Sr. Surveyor.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr. Patterson served as Lead Sr. Surveyor.

Signal Design at Gasparilla Road at Marathon Boulevard, Charlotte County, FL: This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional

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services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Patterson served as Lead Sr. Surveyor.

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Mr. Patterson served as Lead Sr. Surveyor.

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services. Mr. Patterson served as Lead Sr. Surveyor.

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Mr. Patterson served as Lead Sr. Surveyor.

Lower Peninsula Stormwater Design-Build Improvements, Tampa, FL: ECHO provided subsurface utility engineering and surveying services for the Atkins/Kimmins design build team on this City of Tampa stormwater improvement project. Services provided under this contract included the surveying of underground utilities along four (4) residential corridors where a box culvert is to be installed. Mr. Patterson served as Lead Sr. Surveyor.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Patterson serves as Lead Sr. Surveyor.

Veterans Blvd. @ Loveland Blvd. & Torrington St., Charlotte County, FL: This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations. Mr. Patterson serves as Lead Sr. Surveyor.



Adam Berry, PSM
Project Manager

Contract Role: Project
Surveyor

Years' Experience: 12

Education

- BS / Geomatics / 2013
University of Florida

Professional Registrations

- Florida Professional
Surveyor & Mapper – LS
7117

Professional Affiliations

- Florida Surveying &
Mapping Society
- American Society of Civil
Engineers

Certifications/Training

- Florida Phosphate
Producers
- Duke Energy PowerSafe
Training
- OSHA General
Industry – 10 hours

Summary of Experience

Mr. Berry is a Florida licensed surveyor and mapper with 12 years of experience within the survey, mapping, and subsurface utility engineering (SUE) field.

Mr. Berry has extensive experience working for the Florida Department of Transportation (FDOT) primarily working on horizontal and vertical control networks, design survey production, and subsurface utility engineering projects. His intimate knowledge of computer aided drafting and design software, field collection methods and office processing software enable him to deliver a product that meets the client's distinct needs in the most efficient manner.

Mr. Berry will serve as Project Surveyor on this contract and be responsible for daily reviews of survey deliverables. Specific tasks required will be daily briefings with field crews, process, management, and analysis of data collection.

Significant Projects

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Mr. Berry served as Project Surveyor.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Berry served as Project Surveyor.

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Signal Design at Gasparilla Road at Marathon Boulevard,

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Charlotte County, FL: This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Berry served as Project Surveyor.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Berry serves as Project Surveyor.

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East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr. Berry served as Project Surveyor.

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Berry served as Project Surveyor.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Berry served as Project Surveyor.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Berry served as Project Surveyor.



**Thomas Young, PSM, GISP
Project Manager**

Contract Role: Project
Surveyor

Years' Experience: 14

Education

- BS / Geomatics / 2009 /
University of Florida

Professional Registrations

- Florida Professional
Surveyor & Mapper – LS
7044
- GISCI Certified GIS
Professional (GISP #90326)
- FAA Part 107 Remote Pilot

Summary of Experience

Mr. Young is a Florida licensed Surveyor and Mapper with over 14 years of survey, mapping and subsurface utility engineering (SUE) experience. He has experience in all phases of ArcGIS Data Development including Database Creation, Processing, Extraction, Attribution and QC of Data. Mr. Young also practiced in field collection processes and procedures including stormwater collection.

Mr. Young will serve as Project Surveyor on this contract and assist the team with the production of the survey design file deliverables. Specific tasks required will be daily briefings with field crews along with the management and processing of the field data collected.

Significant Projects

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Young served as Project Surveyor.

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Signal Design at Gasparilla Road at Marathon Boulevard, Charlotte County, FL: This project consisted of intersection

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improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Young served as Project Surveyor.

Lower Peninsula Stormwater Design-Build Improvements, Tampa, FL: ECHO provided subsurface utility engineering and surveying services for the Atkins/Kimmins design build team on this City of Tampa stormwater improvement project. Services provided under this contract included the surveying of underground utilities along four (4) residential corridors where a box culvert is to be installed. Mr. Young served as Project Surveyor.

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**Dustin Shenk, PSM
Senior Project Manager**

Contract Role: Project
Surveyor

Years' Experience: 25

Education

- Land Surveying Certificate
Program, University of
Wyoming, 2004
- B.S., Business
Administration and
Management, Western
Governors University, 2015

Professional Registrations

- Florida Professional
Surveyor & Mapper – LS
7041

Summary of Experience

Mr. Shenk has over 25 years of experience providing surveying, mapping, and subsurface utility engineering (SUE) professional services on a multitude of transportation projects throughout Florida. He began his career working as a survey technician and worked his way into a leadership position over seeing various projects.

Mr. Shenk will serve as Project Surveyor on this contract and assist the team with the oversight of the field and office efforts involved. His wide-ranging experience provides the ECHO team with in-depth insight into the life cycle of this project, from scope development through final deliverable.

Significant Projects

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Mr. Shenk served as Project Surveyor.

Western Force Main Phase 2, City of West Melbourne, FL: This project consisted of design services for a new pressure pipeline. ECHO's professional services were requested to provide topographic survey and subsurface utility engineering services within the area in which the new pipeline was designed and constructed. Mr. Shenk served as Project Surveyor.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr. Shenk served as Project Surveyor.

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Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Shenk serves as Project Surveyor.

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Veterans Blvd. @ Loveland Blvd. & Torrington St., Charlotte County, FL: This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations. Mr. Shenk serves as Project Surveyor.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Shenk served as Project Surveyor.



Michael Albanese
SUE Field Manager

Contract Role: SUE Field Manager

Years' Experience: 28

Education

- High School Diploma

Certifications/Training

- Transportation Worker Identification Credentials (TWIC)
- Florida Phosphate Producers
- OSHA HAZWOPER, OHWOC-660316
- Veriforce – OQ qualification
- West Texas Safety Training, MARBOP
- Intermediate Maintenance of Traffic
- MSHA 32hr – Mining
- Duke Energy Powersafe Training
- St. Petersburg / Clearwater International Airport, Escort
- Public Schools, Jessica Lunsford Act, Approved Contractor, Level II
- Tampa International Airport, Escort Badge

Summary of Experience

Mr. Albanese has over 28 years of experience in the performance and management of field crews and personnel in the subsurface utility engineering industry throughout the state of Florida. Based on his past performance, he is well respected by our team, his peers and our clients for his work ethic, and his knowledge of the SUE data collection process.

Mr. Albanese's immense experience ranges from the actual implementation and instructing the use of subsurface utility detection equipment to the development and training of future SUE data collection technicians. His skillset and strong attention to detail has allowed him to successfully perform and manage field crews for SUE data collection efforts within FDOT D1 since 2001. He has either performed or managed the field efforts for over 400 SUE task work orders and projects for past FDOT District 1 - Subsurface Utility Engineering & Utility Coordination district wide contracts. In addition, he has managed the field efforts and quality control to completion for hundreds of FDOT, consultant, utility, and private projects regarding utility data collection and depiction for the purposes of design and construction.

Mr. Albanese will serve as the SUE Field Manager on this contract and will implement an involved approach to field management leading crews daily, selecting equipment and processes, support, and guidance as well as progress reporting and quality control. Given his solid reputation and long tenure in this industry, he will also be utilizing 26 years of valued relationships with UAO's, counties, municipalities, and other agencies to aid in the collection of as-built or historical information that can be of upmost value to the project. Being safety minded and having worked alongside Mr. Comellas in the past, he will also provide trusted insight to conditions in the field continually ensuring a safe environment for the traveling public and the ECHO team.

Significant Projects

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Albanese served as SUE Field Manager.

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying

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**Andy Trayner, PSM
Field Manager**

Contract Role: Survey Field Manager

Years' Experience: 40

Education

- AS / Civil Engineering Technology / 1982-1984 / Thompson School of Applied Science - University of New Hampshire Main Campus

Professional Registrations

- Florida Professional Surveyor & Mapper – LS 6504

Professional Affiliations

- Florida Surveying & Mapping Society

Certifications/Training

- FDOT Maintenance of Traffic
- Veriforce OQ qualifications (CCT605, CCT619, SCE031)
- Hillsborough County Aviation Authority Escort
- Florida Phosphate Producers

Summary of Experience

Mr. Trayner oversees the day-to-day field operations of the survey crews throughout West and Central Florida. His responsibilities include scheduling and supervision of crews, conduction of field safety meetings, training, and oversight of the collection of quality survey data. Mr. Trayner has more than 40 years of experience performing survey is very knowledgeable of the latest technology available for safe and accurate data collection, both above and below ground.

As a Survey Field Manager on this contract, Mr. Trayner will ensure that all survey field data collection procedures are performed in accordance with ECHO policies while maintaining constant attention to details. He will also lead the coordination between office staff and survey crews while keeping the safety of ECHO staff and members of the traveling public as primary importance.

Significant Projects

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Trayner served as Survey Field Manager.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Trayner served as Survey Field Manager.

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design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Trayner served as Survey Field Manager.

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SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Trayner served as Survey Field Manager.

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Mr. Trayner served as Survey Field Manager.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Trayner serves as Survey Field Manager.

Christian Morales

Contract Role: Survey
CADD/GIS Technician

Years' Experience: 15

Education

- Business Project Management Certificate Program, Louisiana State University Continuing Education, Baton Rouge, LA, May 2014
- B.S. in Surveying and Topography, University of Puerto Rico Engineering Campus, San Juan, Puerto, June 2008

Summary of Experience

Mr. Morales has 15 years of experience providing MicroStation and AutoCAD Civil3D CADD support on a multitude of projects throughout Florida, to include and subsurface utility engineering maps, boundary surveys, topographic surveys, wetland jurisdiction surveys, ALTA surveys, specific purpose surveys, etc.

Mr. Morales will serve as SUR CADD/GIS Technician on this project and assist the team with the production of design file deliverables and data management.

Significant Projects

Big Econlockhatchee and Little Econlockhatchee Basin Study, Seminole County, FL: This project consisted of performing a watershed study for the Big and Little Econ River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format. Mr. Morales served as Survey CADD/GIS Technician.

Shingle Creek Watershed BMP Alternatives Evaluation, Orange County, FL: This project consisted of evaluating several possible design alternatives related to increasing the water quality within the Shingle Creek Watershed in Orange County. ECHO's professional services were requested to provide field survey information including survey of culverts, roads, cross sections and Seasonal High-Water Elevation (SHWE). Mr. Morales served as Survey CADD/GIS Technician.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Mr. Morales served as Survey CADD/GIS Technician.

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Mr. Morales served as Survey CADD/GIS Technician.

Signal Design at Gasparilla Road at Marathon Boulevard, Charlotte County, FL: This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional

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services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations. Mr. Morales served as Survey CADD/GIS Technician.

Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Mr. Morales serves as Survey CADD/GIS Technician.

Veterans Blvd. @ Loveland Blvd. & Torrington St., Charlotte County, FL: This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations. Mr. Morales serves as Survey CADD/GIS Technician.

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services. Mr. Morales served as Survey CADD/GIS Technician.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Morales served as Survey CADD/GIS Technician.

Lower Peninsula Stormwater Design-Build Improvements, Tampa, FL: ECHO provided subsurface utility engineering and surveying services for the Atkins/Kimmins design build team on this City of Tampa stormwater improvement project. Services provided under this contract included the surveying of underground utilities along four (4) residential corridors where a box culvert is to be installed. Mr. Morales served as Survey CADD/GIS Technician.

Amanda Quintero

Contract Role: Survey
CADD/GIS Technician

Years' Experience: 8

Education

- M.S. Interdisciplinary Ecology – Urban Planning, University of Florida, 2014
- B.S. Environmental Science and Policy – Science Track, University of South Florida, 2012

Certifications/Training

- SWFWMD Wetland Assessment Procedure (WAP)
- Mining Safety Hazard Assessment (MSHA)
- S130/190 Basic Wildland Firefighter

Summary of Experience

Ms. Quintero has over 8 years of experience providing survey and GIS services throughout Florida. She has served on multiple projects as an environmental consultant and geographic information systems (GIS) analyst and is well versed in field data collection and geospatial analysis, environmental assessments, and land & wildlife management.

Her experience includes creation and manipulation of vector and raster data, experience in utilizing programs including ArcGIS Desktop, Collector for ArcGIS, Avenza and ArcMap tools, data management using ArcCatalog, and understanding of coordinate systems and map projections. Ms. Quintero's additional experience includes map creation including multi-page maps using data driven pages, georeferencing imagery, geocoding addresses, collecting and importing GPS data collected using hand-held GPS collection devices, suitability analysis, utilizing the USDA NRCS Web Soil Survey to create soils maps, identification of hydric soils, and creating databases of publicly available GIS data for environmental consulting.

Ms. Quintero has an extensive history of surveying for native and non-native wildlife and plant species. Through her prior project history and experience, she has become well versed in qualitatively and quantitatively assessing a variety of habitats and ensuring successful project outcomes and optimal environmental support and conservation.

Ms. Quintero will assist the team as a Survey CADD/GIS Technician. Being safety minded and having worked alongside with ECHO's most experienced staff she will also provide trusted insight to conditions in the field continually ensuring a safe environment for the traveling public and the ECHO team.

Significant Projects

Wekiva Watershed Study, Seminole County, FL: This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas. Ms. Quintero served as Survey CADD/GIS Technician.

East Port WRF Improvements, Charlotte County, FL: This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.). Ms. Quintero served as Survey CADD/GIS Technician.

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Veterans Blvd. at Cochran Blvd. Intersection Improvements, Charlotte County, FL: This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations. Ms. Quintero serves as Survey CADD/GIS Technician.

Veterans Blvd. @ Loveland Blvd. & Torrington St., Charlotte County, FL: This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations. Ms. Quintero serves as Survey CADD/GIS Technician.

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services. Ms. Quintero served as Survey CADD/GIS Technician.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Ms. Quintero served as Survey CADD/GIS Technician.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Ms. Quintero served as Survey CADD/GIS Technician.

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL: This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way. Ms. Quintero served as Survey CADD/GIS Technician.



Trisha Miller
Chief Utility
Coordinator/Manager

Contract Role: Chief Utility
Coordinator

Years' Experience: 20

Education
- High School Diploma

Certifications/Training
- Railroad Worker
Protection
- Florida Utilities
Coordinating Committee
Coordination Certification

Professional Affiliations
- Central Florida Utility
Coordinating Group, Chair
- Florida Utilities
Coordinating Committee
FDOT District 5 Liaison

Summary of Experience

Ms. Miller's responsibilities include facilitation of resolution of utility/design conflicts between utility owners with facilities located within the roadway project limits and the roadway designers and engineers. Some utility owners have prior rights, such as easements or fee simple property ownership, and are due compensation for any engineering effort or relocation work necessary for a project. Most utility facilities lie within rights-of-way through permits, which require they relocate upon any improvements to the roadway. A utility coordinator must hold meetings at certain milestones with all parties involved: utility owners, designers, project owner (department of transportation, municipality, etc.) and discuss the potential impacts to the existing utility facilities and constructability of the project. Coordination of, and dissemination of, the subsurface utility engineering information is vital in determination of conflicts with the proposed roadway design. A thorough knowledge of the latest statutes and regulations is also important in accomplishing these tasks.

Ms. Miller's career in utility coordination includes over 20 years of experience with 13 of those years serving the Florida Department of Transportation's District Five. During her time with FDOT she served seven of those 13 years within their utilities department. She has managed and certified over 100 projects, in addition to coordinating and managing value engineering contracts and 30 studies, as well as processing mapping coordination.

Ms. Miller continues to play a significant role in the District Five's annual utility liaison conference events. Her experience offers a strong knowledge foundation in the Florida Department of Transportation's utility coordination procedures and requirements for a variety of transportation projects. Ms. Miller is certified through the Florida Utilities Coordinating Committee for cost-estimating and billing, coordination, regulations and agreements, and construction management. Her expertise includes value engineering and studies coordination, and mapping coordination.

Ms. Miller will serve as Chief Utility Coordinator for the duration of this project.

Significant Projects

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility

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coordination services. Ms. Miller served as Chief Utility Coordinator.

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Ms. Miller served as Chief Utility Coordinator.

US 92/SR 580/W Hillsborough Ave. at George Rd. (FPN# 445677-1), Hillsborough County, FL, FDOT D7: This task assignment consists of the design of drainage improvements (a double 6' x 10' concrete box culvert crossing US 92/SR 580/W Hillsborough Avenue at George Road in Hillsborough County) and restoration of the roadway facilities back to existing conditions. ECHO currently provides survey, subsurface utility engineering, and utility coordination services. Ms. Miller serves as Chief Utility Coordinator.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Ms. Miller served as Chief Utility Coordinator.

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services. Ms. Miller served as Chief Utility Coordinator.

SR 15 (US 441) from N. of NW 3rd Street to N of NE 120th Street (FPN# 448974-1), Okeechobee County, FL, FDOT D1: This is a Resurfacing, Restoration, and Rehabilitation (RRR) project that is intended to extend the service life of the existing roadway. ECHO currently provides subsurface utility engineering and utility coordination services. Mr. Cordeau currently serves as the Utility Coordinator on this project. Ms. Miller serves as Chief Utility Coordinator.

City of Kissimmee CSC - Renee Terrace - Drainage Swale Improvements, Kissimmee, FL: This project was part of a continuing services contract for the City of Kissimmee and consisted of design engineering services for the construction of an underground stormwater pipe system to replace the existing swale drainage system located within the project limits. ECHO's professional services were requested to provide a topographical survey, in addition to subsurface utility engineering services, utility survey and utility coordination services in support of this work. Ms. Miller served as Chief Utility Coordinator.



Azalea Aoki Utility Coordinator

Contract Role: Utility
Coordinator

Years' Experience: 8

Education

- High School Diploma
- College Coursework, St. Petersburg College

Licenses/Certifications

- FL Real Estate Agent - License No. SL3045296, 2003 - Present

Summary of Experience

Ms. Aoki has 8 years of experience in performing various utility engineering services for projects throughout Florida. She is a former state employee of the Florida Department of Transportation and a graduate of the FDOT Right-of-Way Trainee program. Ms. Aoki's institutional knowledge and industry experience provides the ECHO team with a diverse level of expertise in a variety of disciplines for transportation infrastructure and project coordination in both the public and private sectors. Her background and experience provide an excellent foundation for her current role as a Utility Coordinator that includes managing projects from the early stages of design through utility certification.

Ms. Aoki will serve as Utility Coordinator and her responsibilities will include supporting the facilitation of resolution of utility/design conflicts between utility owners with facilities located within the roadway project limits and the roadway designers and engineers. She will assist in holding meetings at certain milestones with all parties involved: utility owners, designers, project owner (department of transportation, municipality, etc.) and discuss the potential impacts to the existing utility facilities and constructability of the project.

Significant Projects

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Ms. Aoki served as Utility Coordinator.

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL, FDOT D1: This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and

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utility coordination services. Ms. Aoki served as Utility Coordinator.

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Ms. Aoki served as Utility Coordinator.

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL, FDOT D1: This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services. Ms. Aoki served as Utility Coordinator.

Daniels Ave. Drainage (FPN# 445674-1), Hillsborough County, FL, FDOT D7: This Task Work Order consists of the design of drainage improvements (a 5' x 12' concrete box culvert crossing US 92/SR 580/W Hillsborough Avenue at Daniels Road) in Hillsborough County and restoration of the roadway facilities back to existing conditions. ECHO currently provides survey, subsurface utility engineering, and utility coordination services. Ms. Aoki serves as Utility Coordinator.

US 92/SR 580/W Hillsborough Ave. at George Rd. (FPN# 445677-1), Hillsborough County, FL, FDOT D7: This task assignment consists of the design of drainage improvements (a double 6' x 10' concrete box culvert crossing US 92/SR 580/W Hillsborough Avenue at George Road in Hillsborough County) and restoration of the roadway facilities back to existing conditions. ECHO currently provides survey, subsurface utility engineering, and utility coordination services. Ms. Aoki serves as Utility Coordinator.

City of Kissimmee CSC - Renee Terrace - Drainage Swale Improvements, Kissimmee, FL: This project was part of a continuing services contract for the City of Kissimmee and consisted of design engineering services for the construction of an underground stormwater pipe system to replace the existing swale drainage system located within the project limits. ECHO's professional services were requested to provide a topographical survey, in addition to subsurface utility engineering services, utility survey and utility coordination services in support of this work. Ms. Aoki served as Utility Coordinator.

City of Kissimmee CSC - West Lyndell Drainage, Kissimmee, FL: This project was part of a continuing services contract for the City of Kissimmee and consisted of a preliminary engineering study and subsequent engineering design services for the construction of an underground stormwater pipe system to replace the existing swale drainage system located within the project limits. ECHO's professional services were requested to provide a topographical survey, in addition to subsurface utility engineering services, utility survey and utility coordination services. Ms. Aoki served as Senior Utility Coordinator.



Eric Cordeau
Utility Coordinator

Contract Role: Utility
Coordinator

Years' Experience: 4

Education

- B.A. in Criminal Justice,
University of South
Florida, 2012
- A.A. in Communications,
Manatee Community
College, 2005

Summary of Experience

Mr. Cordeau has 4 years of experience performing various utility engineering services for multiple projects throughout the State of Florida. Mr. Cordeau's experience includes a background in fiber as well as utilities. He oversaw operational and administrative management of various projects where he also served as a liaison between internal and external stakeholders.

Mr. Cordeau will serve as Utility Coordinator on this project and his responsibilities will include supporting the facilitation of resolution of utility/design conflicts between utility owners with facilities located within the roadway project limits and the roadway designers and engineers. He will assist in holding meetings at certain milestones with all parties involved: utility owners, designers, project owner (department of transportation, municipality, etc.) and discuss the potential impacts to the existing utility facilities and constructability of the project.

Significant Projects

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL, FDOT D1: This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project. Mr. Cordeau served as Utility Coordinator.

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SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL, FDOT D1: This project consisted of various intersections within the

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roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services. Mr. Cordeau served as Utility Coordinator.

21st Ave and 14th St Intersection Improvements, Tampa, FL: This project consists of the design and construction of a signal mast arm and restriping of the 21st Ave. and 14th St. intersection in the City of Tampa. ECHO's professional services have been requested to provide survey, subsurface utility engineering, and utility coordination services. Mr. Cordeau currently serves as the Utility Coordinator on this project.

US 92/SR 580/W Hillsborough Ave. at George Rd. (FPN# 445677-1), Hillsborough County, FL, FDOT D7: This task assignment consists of the design of drainage improvements (a double 6' x 10' concrete box culvert crossing US 92/SR 580/W Hillsborough Avenue at George Road in Hillsborough County) and restoration of the roadway facilities back to existing conditions. ECHO currently provides survey, subsurface utility engineering, and utility coordination services. Mr. Cordeau serves as the Utility Coordinator on this project.

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Prasad Chittaluru, PhD, PE, PMP, BCEE, GISP

Chief Engineer

Dr. Chittaluru has over 25 years of program and project management experience in enterprise systems design, implementation and maintenance. He has extensive knowledge in working with government agencies, DOTs, utilities, public works and businesses. He has served in various project roles including project engineer, lead technical professional, project manager, project principal and client manager. He has an excellent understanding of business needs of cities, planning agencies, utilities, transportation agencies and public works departments. He has facilitated the development of many large enterprise information management systems for government agencies across the United States. He has served as project manager and technical professional on many enterprise IT/GIS systems planning, design and implementation, as well as utilities and transportation master planning projects. He enjoys the opportunity to enhance clients' business efficiencies and customer service through work flow simplification and systems optimization.

Areas of Experience

- Project and program management for enterprise web, GIS and systems integration solutions
- Consensus building and end user needs assessment and functional requirements development for the design and implementation of enterprise web and GIS applications in various domains
- Business process mapping and workflow optimization
- Design and implementation of enterprise software and database applications
- Systems integration – assessment, design and implementation
- Infrastructure Asset Management
- Project and program management for Capital Improvement Programs (CIP)
- Transportation planning support
- Hydraulic/hydrologic modeling and transportation and utility master planning

Work Experience

EPIC Engineering & Consulting Group, LLC (March 2007 – Present)

Some of the key projects managed by Dr. Chittaluru in the recent past include:

- Artemis Lifestyles Needs Assessment
- City of St. Cloud IT Needs Study
- City of Orlando Public Works Platform Project
- City of Tampa AMI Solution Consulting
- Florida Department of Transportation (FDOT) District 5 Integrated Corridor Management
- Florida Department of Transportation (FDOT) Transportation Systems Management & Operations
- Florida Department of Transportation (FDOT) Active Arterial Management Dashboard
- Florida's Turnpike Enterprise (FTE) Data Repository
- Florida's Turnpike Enterprise Asset Management Systems
- Greater Orlando Aviation Authority (GOAA) Small Business Development (SBD) Data Management Needs Assessment and Gap Analysis
- Greater Orlando Aviation Authority (GOAA) Tank Asset Management
- Greater Orlando Aviation Authority (GOAA) Incident Management Software Assessment
- Greater Orlando Aviation Authority (GOAA) Integrated Project Information System (iPro)
- Greater Orlando Aviation Authority (GOAA) GIS and Enterprise Content Management Solutions
- Louisville MSD FY 21 Asset Management Assistance
- Master planning for Orange, Seminole and Indian River counties
- Orange County Utilities (OCU) Mobile Maximo Replacement
- Orange County Utilities (OCU), FL, Forcemain Data Management Application
- Orange County Utilities (OCU), UDF Group 6 Reiss TA5

- Orange County Utilities (OCU), FL, Water Dashboard
- Orange County Utilities (OCU), FL, Customer Counts Data Analysis
- Orange County Utilities (OCU) Enterprise Data Management and Business Process Mapping
- Orange County Utilities(OCU) Data Management System (UDMS) Needs Assessment
- Orange County Utilities (OCU) CIP Tracking System Concept Design
- Orange County, FL, CIP Tracking System
- Orange County Public Works (OCPW) Shingle Creek North MS4
- Orange County Public Works (OCPW) Shingle Creek North Stormwater Collection
- Polk County Utilities (PCU) Capacity Management System Design and Development
- Polk County Utilities (PCU) GIS Master Plan and Map Products Development
- Reedy Creek Improvement District (RCID) Asset Management Study
- St. Lucie County, FL Analysis and Documentation of Land Management Solution Business and Technical Requirements
- School Board of Seminole County, FL, SCPS ONE Dashboard
- School Board of Seminole County, FL, SCPS ONE Dining Services Dashboard
- Seminole County Environmental Services (SCES) i3 Needs Assessment – Carollo
- Seminole County Public Schools (SCPS) Facilities Simplify i3
- Simplify i3 – Integrated Infrastructure Intelligence, City of Orlando Public Works
- Tampa Bay Water AWIA Technical Support
- Tampa Bay Water IT Strategic Plan
- Tampa Bay Water IT Asset Management Services
- TransCore Needs Assessment and Gap Analysis
- TransCore, FL, Audit Module Implementation

Previous Employment

- PBS&J, Orlando FL
- University of Miami, FL
- MECON (India) Ltd.

Education

- Ph.D. in Civil and Environmental Engineering, University of Miami, FL
- M.S. in Civil and Environmental Engineering, University of Miami, FL
- B.S. in Civil Engineering, Birla Institute of Technology & Science, India

Technical Proficiencies

- **Database Technologies:** SQL Server, Oracle, Microsoft Access, Geodatabases
- **Software:** Visual Basic, VBA, .NET, Fortran, ArcGIS, AutoCAD, ArcView, ArcMap
- **Asset Management Systems:** TEAMS, Datastream, Maximo, Hansen, CityWorks

Technical Certifications

- Professional Engineer, Florida (1995) and Minnesota (1997)
- Project Management Professional (PMI) (2011)
- American Academy of Environmental Engineers BCEE (2004)
- GIS Professional, GIS Certification Institute (2008)
- Fellow, American Society of Civil Engineers (2015)

Sindhura Pandrangi

Senior GIS Developer

Ms. Pandrangi has over 7 years of strong professional IT experience in the development of various applications in the field of Geographic Information Systems and Web Development. She has been involved in the development/implementation of Enterprise GIS projects. She is experienced in the implementation of web mapping applications, ESRI technologies, widgets using ESRI ArcGIS API for Javascript, and OOP concepts for efficient programming. Ms. Pandrangi is also experienced in developing web applications using ASP.NET, C# using GIS, and ADO.NET objects such as Data Adapter, Dataset, and Data Reader to interact with databases. She has hands-on experience in development of tools with ArcObjects and ArcFM objects and has developed auto updaters and validation rules for the electrical utility network. She has strong knowledge in developing applications in ESRI ArcGIS Desktop and ArcGIS Server and IIS Configuration for .NET applications as well as experience with using version control tools like Team Foundation Server and Visual Source Safe. She is also experienced in various phases of software development life cycle (SDLC) i.e., analysis, design, development, implementation, testing and user training of enterprise web-applications, standalone and distributed applications as well as in QA implementation in all phases of SDLC.

Areas of Experience

- Roadway and Traffic Data Collection, Conversion, Manipulation, Integration, Analysis and Reporting
- Database/geodatabase management, data mapping, data analysis and data reporting
- Develop mapping and graphics and graphics application in a Geographic Information System (GIS) using ArcGIS, Microstation JV8i, or MS Powerpoint
- Geographic Information System (GIS) Support
- ESRI Roads and Highways Module (Platform for IRAIS) Experience
- Website Development
- Web Mapping Applications
- Software Development Life Cycle

Work Experience

EPIC Engineering & Consulting Group, LLC

Some of the key projects Sindhura was a team member include:

- CFX Expressway Information Portal (EIP)
- Florida Department of Agriculture and Consumer Services Division of Food, Nutrition and Wellness, Florida's Roadmap to Living Healthy – An Interactive Map Portal Application Replacement.
- Florida Department of Agriculture and Consumer Services (FDACS) Division of Food, Nutrition, and Wellness: ESF11 Damage Estimation Tool.
- Florida Department of Transportation (FDOT) District 5 Integrated Corridor Management
- Florida Department of Transportation (FDOT) Active Arterial Management Dashboard
- Florida's Turnpike Enterprise (FTE) Enterprise Data Repository Enhancements
- Greater Orlando Aviation Authority (GOAA) Incident Management Software Assessment
- Orange County ArcGIS Enterprise Implementation
- Orange County Public Works (OCPW) Geosyntec Lake Elevation Correlation Geodatabase Development Study
- Orange County Public Works (OCPW) Shingle Creek North Stormwater Collection
- Simplify I3 –Integrated Infrastructure Intelligence, Winter Springs, FL

Education

- Bachelor of Technology in Electronics and Communications – PVP Siddhartha Institute of Technology – Andhra Pradesh, India

Technical Proficiencies

- **Technologies:** ASP.Net, C#, ArcObjects, HTNM
- **Software Products:**
 - ESRI Server products: ArcGIS Server, ArcFM Server
 - ESRI Desktop products: ArcMap, ArcCatalog, ArcFM Desktop
 - Database: Oracle 11g, SQL Server, ArcSDE
 - ESRI WEB API's: ArcGIS API for Javascript
- **Database:** SQL Server, Oracle
- **Scripting Language:** Java Script
- **Source Control:** TFS, VSS
- **Web Servers:** IIS

Jared Allen

Senior GIS Architect

Mr. Allen is senior-level GIS/full-stack developer/analyst with more than 18 years of GIS/Development experience, including instruction and mentoring using Esri products. His areas of professional focus include technical and professional cartography, data management and reporting, decision support spatial analyses, desktop and web development, project management, workflow automation, scripting and various full-stack development projects and extensive student and client training. These experiences have provided a myriad of skills and qualifications that allow for a unique and highly effective approach to project analysis, development, training, and management.

Areas of Experience

- Full stack development projects
- Data management and reporting
- Spatial analysis
- Technical and professional cartography
- GIS development

Work Experience

EPIC Engineering & Consulting Group, LLC

Since 2018 Jared has served as Senior GIS Developer practicing in enterprise applications, products, GIS, IT and asset management solutions. He is involved in technological assessment, selection, process mapping, architecture, design and implementation of custom software and database applications across multi department systems in municipal government and private sector environments.

Some of the key projects Jared was a team member include:

- Florida Department of Agriculture and Consumer Services (FDACS) ESF11 Automation
- Florida Department of Transportation (FDOT) District 5 Integrated Corridor Management
- Florida Department of Transportation (FDOT) MRP Data Management Process Analysis & Solution Recommendations
- Florida's Turnpike Enterprise (FTE) Enterprise Data Repository Enhancements; Developer
- Louisville MSD FY 21 Asset Management Assistance
- Orange County Environmental Protect Division (OCEPD) TA1 Wekiva GOP GIS
- Orange County Public Works (OCPW) Geosyntec Lake Elevation Correlation Geodatabase Development Study
- Orange County Public Works (OCPW) Lake Apopka Watershed Stormwater Data Collection
- Orange County Public Works (OCPW) Shingle Creek North MS4

Previous Employment

- Senior GIS Developer/Analyst, United States Forest Service, Boise, ID
- Senior Web Developer/Designer, Affinity Partnerships, LLC, Pocatello, ID
- Senior GIS Programmer/Analyst, Resource Data, Inc., Boise, ID

- GIS Program Lead, College of Southern Idaho, Twin Falls, ID
- GIS Manager, Conservation Seeding & Restoration, Twin Falls, ID
- Senior GIS Analyst/Developer, North Wind, Inc., Idaho Falls, ID
- Senior GIS Analyst/Developer, Trihydro Corp, Laramie, WY
- Adjunct Professor-Geology Department, Brigham Young University, Provo, UT
- GIS Analyst & Database Administrator, Shell Global Solutions, Houston, TX
- GIS Consultant/Contractor, Houston, TX
- Exploration Analyst, Anadarko Petroleum Corp, Houston, TX

Education

- Bachelor of Science, Geology, Utah State University, Logan, UT
- Russian Studies, University of Houston, Houston, TX
- Geology, Ricks College, Rexburg, ID

Technical Proficiencies

- **Development Technology:** .NET (C#, VB), PHP, Python, VBA, JavaScript (jQuery, Bootstrap, Node.js), HTML5, CSS3, XML/XSLT, SQL, T-SQL, PL/SQL
- **Database Software:** ArcSDE, MS SQL Server, MySQL, PostgreSQL, Oracle, MS Office Access
- **Geographic Information System:** ArcGIS Desktop Suite, ArcGIS Server, ArcSDE, ArcGIS Flex (Viewer/API), ArcGIS JavaScript (Viewer/API), ArcPy, Google Map (Viewer/API), ArcIMS, ArcPad, MapServer (OpenMap)
- **Business Support:** AutoCAD, Surfer, GPS Trimble Suite, EarthVision, Intellex, Geographix, Petra
- **Web Server Application:** Internet Information Services (IIS), Apache
- **Integrated Development Environment:** MS Visual Studio, Git, Atom, Sublime, Adobe Flash Builder
- **Office Application:** MS Office Suite, Visio
- **Operating System:** MS Windows, MS Server (2000, 2008, 2012), Mac OS, Linux, UNIX

Linling Wang

GIS Specialist

Ms. Wang has over 3 years in Urban Planning. She has a strong command in ArcMap, ArcGIS Pro and other professional design and analysis software, as well as Auto CAD, Adobe Photoshop and Adobe Illustrator, Python, SQL, and R. She has maintained a comprehensive knowledge of mapping, cartography, conducting research, and programming languages to assist in the creation and maintenance of land use and transportation planning datasets. Demonstrates effective communication, self-motivation, attention to detail, multi-tasking, and time management skills. Bilingual in Chinese and English.

Areas of Experience

- Research and Analysis
- Spatial Analysis
- Reporting and Documentation
- Data Analysis
- Programming
- CAD drawing and 3D modeling
- Cartography
- Urban Planning and Design

Work Experience

EPIC Engineering & Consulting Group, LLC

Some of the key projects Linling was a team member include:

- City of Inverness Utilities Mapping
- Orange County Public Works (OCPW) Geosyntec Lake Elevation Correlation Geodatabase Development Study
- Orange County Public Works (OCPW) Shingle Creek North Stormwater Collection
- Orange County Public Works (OCPW) Lake Apopka Watershed Stormwater
- Orange County Public Works (OCPW) Boggy Creek Watershed Stormwater
- Orange County Public Works (OCPW) Pond Maintenance
- Simplify I3 –Integrated Infrastructure Intelligence, Winter Springs, FL

Education

- Master of Science, Geographic Information Systems, University of Kansas, Lawrence, KS (in progress)
- Graduate Certificate, Geographic Information Systems, University of Kansas, Lawrence, KS (2020)
- Master of Urban Planning, University of Kansas, Lawrence, KS (2018)
- Bachelor of Engineer, Urban Planning, Chang'an University, China (2015)

Technical Proficiencies

- Microsoft Office Suite (Word, Excel, PowerPoint)
- Python
- SQL
- Arc MAP
- Arc GIS Pro
- Survey 123
- Auto CAD
- QGIS
- Adobe Photoshop and Illustrator
- SketchUp
- HTML
- CSS
- JAVA

Sampath Kandala

Engineer

Sampath Kandala has 20 years of professional experience in product design and development of electronic equipment for the aerospace, power plant, oil and gas, and medical industry using advanced 3D CAD modelling and CAE tools. His experience includes project management and project proposals.

Areas of Experience

- Extensive knowledge of 3D modeling and visualization using various CAD tools
- Testing Methodologies
- Creating test cases and user test cases
- ArcGIS basic editing, geo referencing, raster data, layers concept, attributes, symbology
- Hands on experience with CAD tools for solid modeling and drafting
- Geographic Information System (GIS) Support
- Power plant design, power plant layout, pipe routing, and gas turbine auxiliary components design
- Design and detailing of aerospace components and assemblies
- ISO9001, AS9100 systems
- Product life cycle management

Work Experience

EPIC Engineering & Consulting Group, LLC, (October 2015 – Present)

Some of the key projects Sampath was a team member include:

- Altamonte Springs Accela Data Migration
- City of Tampa LRS General Employees' Retirement System
- Florida Department of Agriculture and Consumer Services Division of Food, Nutrition and Wellness, Florida's Roadmap to Living Healthy – An Interactive Map Portal Application Replacement.
- Florida's Turnpike Enterprise (FTE) Data Repository
- Florida Department of Transportation (FDOT) Active Arterial Management Dashboard
- Florida Department of Transportation (FDOT) VHB Data Definition & Management
- Florida's Turnpike Enterprise (FTE) NexUS Application, Phase 1 Solution Design, Development and Support
- Greater Orlando Aviation Authority (GOAA) Data Analytics & Reporting Services
- Greater Orlando Aviation Authority (GOAA) Integrated Project Information System (iPro)
- Greater Orlando Aviation Authority (GOAA), FL, Small Business Development (SBD) Data Management Needs Assessment and Gap Analysis
- Massachusetts Bay Transportation Authority, Qwestica Implementation
- Orange County, Qwestica Implementation
- Orange County Public Works (OCPW), FL, MS4 CSIP
- Orange County Utilities (OCU) FL, Forcemain Data Mgmt App (GSA)
- Orange County Utilities (OCU), FL, Water Dashboard
- Orange County Utilities (OCU) Mobile Maximo Replacement
- Orange County Public Works (OCPW), Lake Elevation Correlation Geodatabase Development Study
- Orange County Public Works (OCPW) Stormwater Data Collection
- Orange County Public Works (OCPW) MS4 CSIP

- Orange County Public Works (OCPW) Shingle Creek North Stormwater Collection
- Orlando Onsite Sewage Treatment and Disposal System
- Simplify i3® –Integrated Infrastructure Intelligence
- St. Lucie County, FL, Analysis and Documentation of Land Management Solution Business and Technical Requirements
- Washington Suburban Sanitary Commission Retiree Pension and Payroll System

Previous Employment

- Mechanical Design Engineer, Secureapp Technologies, Iselin, NJ
- Client Beckman Coulter, Indianapolis, IN
- Client Baker Hughes, Houston, TX
- Senior Engineer-Power Plant Design, Mitsubishi Hitachi Power Systems Americas, Inc., Lake Mary, FL

Technical Proficiencies:

- **Operating Systems:** Windows
- **Databases:** Access 2013
- **GIS:** Autodesk Inventor 2008, ArcGIS 10.3.1, AutoCAD 2014, AutoCAD Civil3D 2016
- **Other Tools:** Pro/E Creo 2.0, Solid Works 2013, UG Nx2, CAESARII 2013, SmartPlant 3D, Pro-Mechanica, ANSYS Workbench 14.5, Autodesk BIM 360
- **PM Tools:** Microsoft Project

Education

- BS in Mechanical Engineering, NIT, Warangal, India

Satish Kumar Thota

Senior Database Engineer

Mr. Thota has over 15 years' experience in software development. He specializes in analysis, development, and implementation of internet/web applications. He is proficient in open-source and proprietary development environments, including ASP.NET, .Net Core, JavaScript, C#, AngularJs, Angular, HTML development. He has implemented a wide range of applications, including content and financial management tools. Satish holds an engineering degree.

Areas of Experience

- Enterprise software development
- Expertise in design, architecture, and implementation of advanced software applications
- Technical and functional document development
- Web technologies
- Exceptional code review and debugging skills

Work Experience

EPIC Engineering & Consulting Group, LLC

Satish is working as a Senior Software Developer / Architect with EPIC. In this capacity, he provides technical design and implementation of the enterprise solutions that EPIC team is delivering to our clients. He has been deeply involved in the design and configuration of the Simplify i3® platform.

Some of the key projects Satish was a team member include:

- Florida Department of Agriculture and Consumer Services (FDACS) Division of Food, Nutrition, and Wellness: Florida's Roadmap to Living Healthy – An Interactive Map Portal Application Replacement.
- Florida's Turnpike Enterprise (FTE) Public Project Info (PPI) Web App Development
- Florida's Turnpike Enterprise (FTE) Enterprise Data Repository Enhancements
- Greater Orlando Aviation Authority (GOAA) Integrated Project Information System (iPro)
- Greater Orlando Aviation Authority (GOAA), Orlando, FL, iPro Support
- Greater Orlando Aviation Authority (GOAA) Small Business Development Data Management System Design and Implementation
- Simplify i3® –Integrated Infrastructure Intelligence

Previous Employment

- Technical Lead, Epic Technology Research Private Limited, India
- Team Lead, Devpoint Solutions Private Limited, India
- Software Engineer, Devpoint Solutions Private Limited, India
- Software Engineer, Prithvi Information Solutions Limited, India

Education

- Master of Computer Applications, Andhra University, India

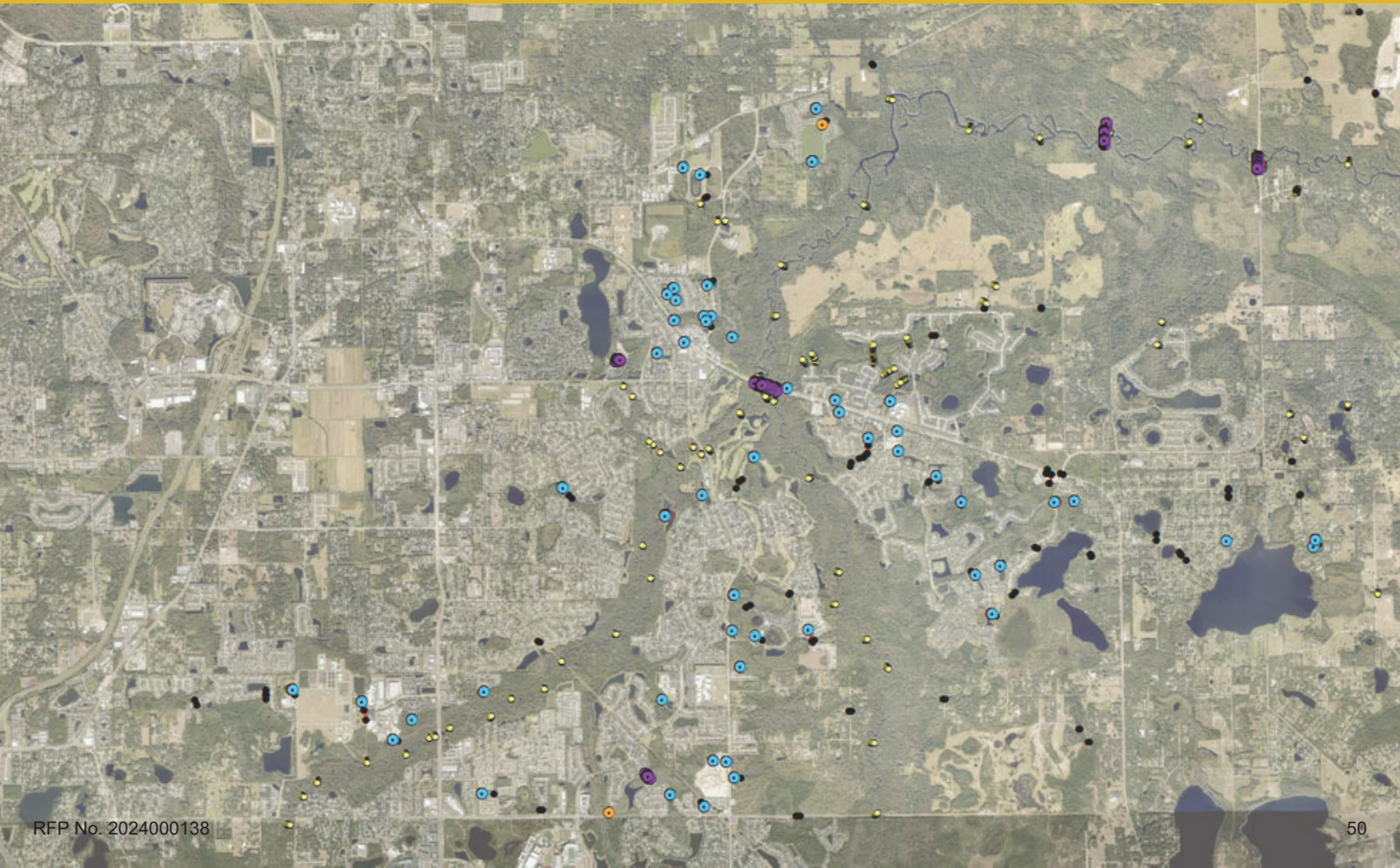
Technical Proficiencies

- **Operating Systems:** Windows Server, Linux
- **Languages:** Java, C#, ASP.NET
- **Databases:** SQL Server, Oracle, PostgreSQL
- **Development Tools & Technologies:** HTML, DHTML, XML, XSLT, VB Script, CSS, JavaScript, AJAX
- **Source Control:** TFS, MS Visual Source Safe, SVN
- **IDEs:** Visual Studio, Eclipse
- **ORMs/Frameworks:** Entity Framework
- **Web Technologies:** HTML, HTML 5, CSS, XML, AJAX, JavaScript, jQuery, JSON
- **Frameworks & Tools:** AngularJS, Angular, Bootstrap, .NET
- **Methodologies:** Agile, SCRUM, Incremental, Waterfall



Tab 3

Previous Experience and Scope Approach



Previous Experience & Scope Approach

ECHO Approach to Scope

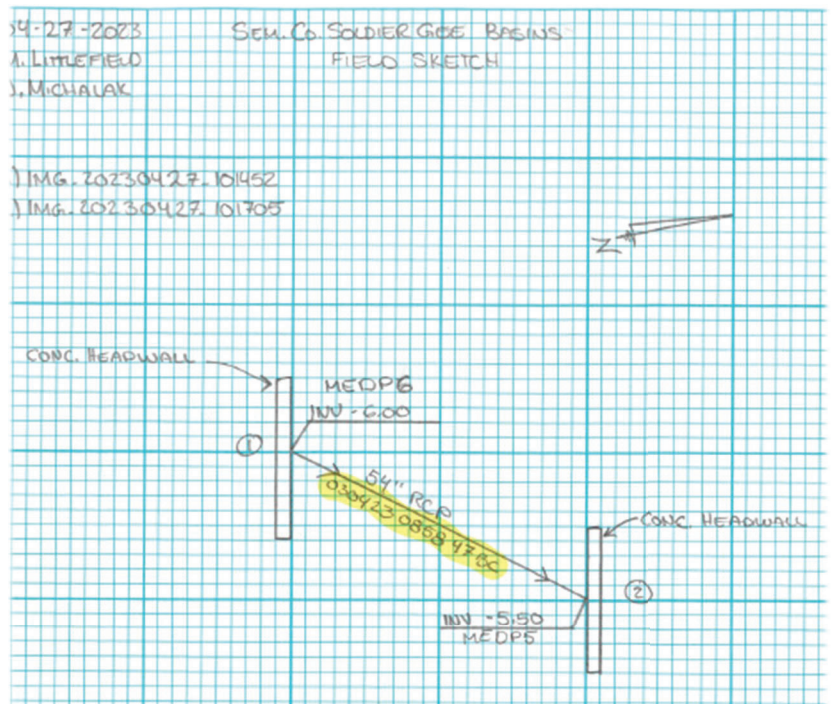
As we will later review in Tab 5 – Proposed Design Approach, you will see that ECHO has a strategic method to how we approach task work order (TWO) based contracts. From preliminary investigation to internal kickoff meeting to final deliverable submittals, our team has a firm grasp on the project cycle and the best way to provide our services to the County.

We understand that the project intent for this contract is to obtain QL-B (XY horizontal) and QL-A (XYZ vertical) field data for existing assets necessary to create/complete a deliverable GIS file/template required by the County. To achieve the goal that this contract is seeking, ECHO will provide our subsurface utility engineering, utility coordination, survey, and GIS services. Below we will take a deeper dive into our specific approach regarding field work and data that will be utilized for each project assigned to ECHO.

QL-C and QL-D Data Collection

ECHO will start with preliminary research. Much of this will be completed by Mr. Stanley and his support staff early on to address any scope concerns with the County as well as determining the best approach our team should take to complete the project on time and within budget. Once given the notice to proceed from the County, the ECHO team will begin the QL-C and QL-D data collection process to include:

- ❖ Review of available records consisting of information available from the County and other utility entities that have completed work in the area which may provide a starting basis or support for future SUE and GIS work to be completed.
- ❖ Access of 811 Design tickets to assist our Utility Coordination team in determining potential utilities in the area that may possess asset data of their facilities.
- ❖ Review of As Built drawings and utility atlases collected which may supplement the data already collected to complete the project cycle.
- ❖ Survey of aboveground utility appurtenances (e.g. manhole covers, valves, fire hydrants, telecommunication pedestals, markers, etc.)



QL-B Data Collection: ECHO will use the collected QL-C and QL-D data to supplement our subsurface utility engineering (SUE) and GIS services necessary to achieve the collection of QL-B data. Our extensive inventory of survey and SUE equipment will be available to make way for the next step of completing utility designating (horizontal location) of the County's utility assets. This process will consist of the following:

- ❖ ECHO will set horizontal and vertical survey control for the purpose of collecting the utility field data..
- ❖ Utilities are field investigated using surface geophysical equipment and technology, to include ground penetrating radar, pipe/cable locators, transmitting probes, metal detectors, cameras etc.
- ❖ Utility information is surveyed above and below ground in a comprehensive fashion and then compared to site reviews, recollections, analysis of obtained utility records (QL-C and QL- D) information to ensure that all utilities are correctly detected and depicted.
- ❖ A utility survey will follow by utilizing total stations and GPS to accurately survey all the necessary utility information at the project site. This survey will be comprised of locations, attributes, descriptions, photos, sketches of the project site.
- ❖ Lastly, we will process and import the field collected data.

QL-A Data Collection: At the project site, ECHO's field crews will perform methods of utility locating(test holes) to determine the horizontal and vertical (XYZ) depiction of utilities at locations needed to complete our GIS services. Specifically, ECHO will attempt to expose utilities via minimally intrusive methods (e.g. use of vacuum excavation) to confirm their characteristics (e.g. type, size, material, direction, configuration) and provide an accurate location. At completion of each excavation (test hole) ECHO will record all verifiable utility information, mark the utility location with the most appropriate method (e.g. wooden lathes, "X" mark on concrete, disc and nail on asphalt) and restore the field to as close as possible to its original conditions. In Tab 7, we will review how our crews utilize a form to populate utility characteristics which will be uploaded to our GIS database. This approach will be determined early in the process by Mr. Stanley along with our team of project surveyors and field managers. Once field work is complete, data is brought back to our office for processing and uploading to our internal server. The first phase of quality checks is completed to ensure that all data is present and recorded, and then we can bring in our survey CADD/GIS technicians along with our team of subconsultants at EPIC to begin the next phase of asset and data management.



Asset and Data Management: Data collected will include field notes with backup measurements and photos of each location/item surveyed resulting in the populated information and XYZ data found within GIS files. Our team of survey CADD/GIS technicians along with the data scientists available from our subconsultant team will begin the process of working with our project surveyors and additional office staff to populate the master GIS database to complete the template provided by the County. Data will be managed utilizing our internal server to keep files updated in real time. Our team will continue our method of active communication so that each team member is kept apprised of any changes made throughout the process. Remaining steps in the project cycle will include additional quality checks and peer reviews, and end with final review and delivery of the complete GIS database to the County.

Previous Experience

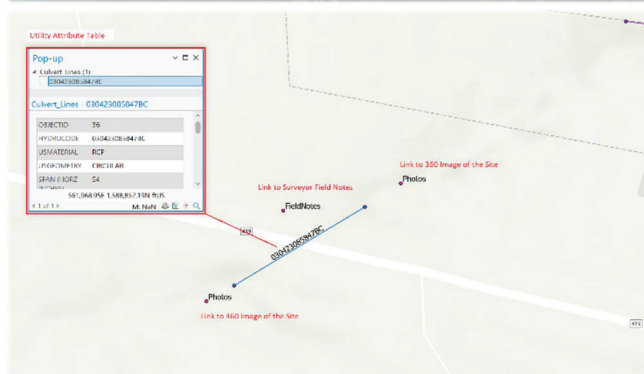
ECHO has used the above approach on projects where QL-A (XYZ) data has been requested by our clients. Below is a sample of specific GIS related contracts where we have provided our services.

- ❖ Orange County – Little Wekiva Watershed Study (2019)
- ❖ Seminole County – Little Wekiva River Cross Sections/GIS (2021)
- ❖ Orange County – Big Econlockhatchee River Basin Study (2022)
- ❖ Orange County – Wekiva River Watershed GIS/Survey (2023)
- ❖ Orange County – Shingle Creed WMP GIS/Survey (2023)
- ❖ Seminole County – Solider and Gee Basins Study (2023)

Along with the above, ECHO also provided our services for the Big Econlockhatchee and Little Econlockhatchee Basin Study in Seminole County. As you will see in the project description below, ECHO has prior experience with completing projects similar to what Charlotte County is requesting through this contract.

Summary: This project consisted of performing a watershed study for the Big and Little Econlockhatchee River areas in Seminole County. ECHO's professional services were requested to provide field survey information, including detailed survey of drainage structures, pipes, bridges, and cross sections, in addition to providing the surveyed information in ESRI ArcGIS format.

ECHO Scope of Services for This Project: ECHO provided survey and GIS services to assist with this basin study. Data acquisition for this project consisted of a combination of digitizing available plan information, site reconnaissance and field survey. The field survey was conducted in a manner that the information directly populated a GIS database created by ECHO. The information was reviewed for accuracy and completeness prior to being sent to the client for easy importation into the master GIS database. The field acquisition was accomplished using a smart tablet and form created for this project which provided detailed instruction of what was required to be collected for each structure such as structure location, alignment, condition along with digital photographs. ECHO also documented any observed maintenance needs and included that in its report to the County.



We will further explore ECHO's project history within Charlotte County and in the surrounding counties later in Tab 6 – Recently Accomplished Projects.



Tab 4

Project Control



Project Control

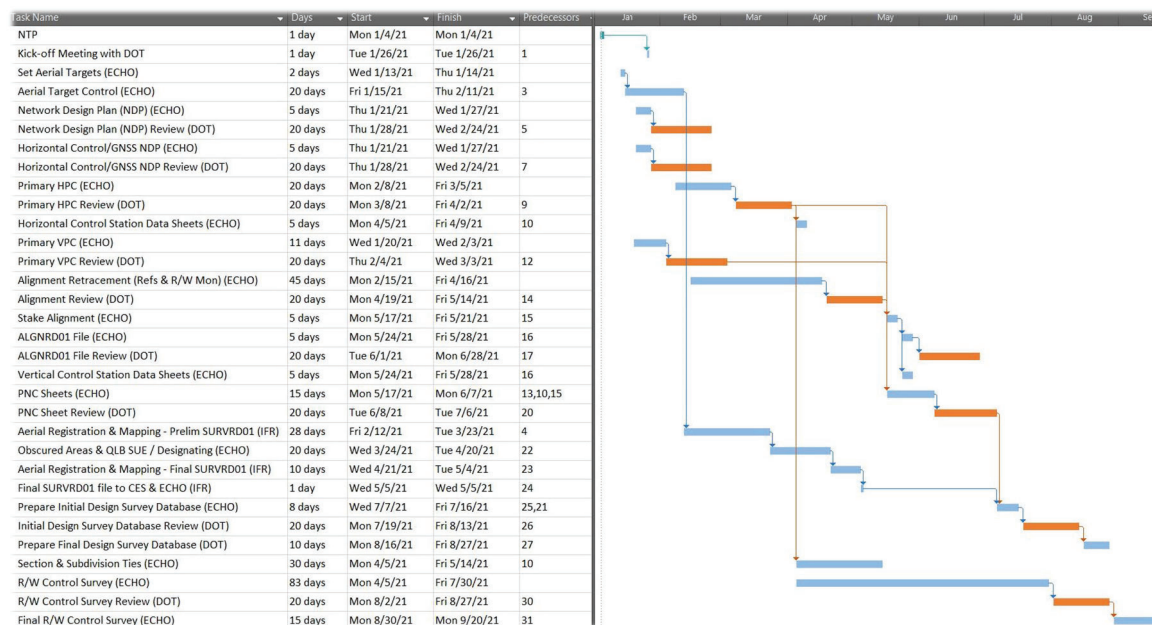
Mr. Stanley will lead our team of Field Managers, Project Surveyors, Survey CADD/GIS Technicians, Utility Coordinators, and Field Crews to provide services for each TWO. Not only will he assign which team members will be dedicated to each task work order (TWO), but he will also work closely with our Field Managers to stay apprised of the status of data collection. He will be in contact with our CADD/GIS technicians to ensure that collected data is formatted as requested by the County. Below in our Design Approach in Tab 5, we will further explore how each member of our team will work together by reporting and utilizing communication channels to keep not only our entire team but also the County informed on project status.

Schedule and Cost Control

Through appropriate project planning and experienced leadership, ECHO effectively uses its team and field staff to deliver its services in a timely manner to all clients. Our team utilizes a variety of resources to handle any scope of services that we may encounter day to day. This includes not only our knowledgeable team members, but also our extensive library of equipment and task tracking tools.

At the start of every assignment, ECHO ensures that our entire team has a clear understanding of each project's scope of services and the timeline for all deliverables required by the County. **We understand that maintaining the County's timeline for deliverables, remaining within budget, and delivering quality files/materials are the most important goals for this contract.** The estimated time required for the completion of each TWO will vary based on the specific TWO that is assigned. Through our communication with the County and our team, timelines will be established to address the needs called out in the task scope. This will be the standard for each TWO and will allow our team to prioritize services should the opportunity for multiple TWO's assigned at the same time arise.

Schedule and Daily Management: Our project leadership and field managers communicate daily to review each project's status to determine if any changes are needed along with the project's progress. This information is vital to the project cycle so that our office staff, including Project Surveyors, CADD/GIS Technicians and Utility Coordinators, can adjust their priorities to maintain each



assignment's schedule. Having a clear line of communication with each project member allows for the project to progress smoothly not only on a daily schedule but throughout the entire project cycle. Along with this daily review amongst our team, we also utilize internal software to track

the progress of our TWO's. This software allows for streamlined tracking and review of the next steps of the TWO and the ability to update the County within a timely manner.

Software/Data Tools for Tracking: ECHO utilizes multiple programs and tools to assist our staff in keeping each project on time and within budget. We have a dedicated project coordinator who oversees our data management programs so that information is updated for all involved leadership to review and communicate any budget or schedule changes to their team. These programs allow for accurate reporting for our team to keep projects moving and our staff on task. Below is a review of the various programs and tools our team uses day to day.

- ❖ Schedules are tracked weekly using **Microsoft Project** and **ECHO's Project Matrix Spreadsheet**. By using both tools in tandem, our leadership is able to make any adjustments to schedules and update project statuses should priorities need to shift.
- ❖ Budgets are tracked weekly in **BQE CORE** software which is also our time entry software. This program is vital to cost control for our projects in that our project coordinator can accurately report the dedicated time put towards each project by all staff so that fees remain within the allocated budget.
- ❖ Our field leaders utilize **SharePoint** daily to upload their field data and our staff also utilizes an **internal secured server** to also store additional deliverables. These programs keep all information accessible to the entire team and ensures that information is updated in real time.

Schedule and Cost Responsibility: Mr. Stanley, along with support from Mr. Comellas, will be responsible for ensuring that each project is completed by the required deadline set by the County, and that the project does not exceed the allotted budget. Through our internal communication process and using the tracking tools available to all members of the team, we can work with our project coordinator to make sure every step of the way that we remain within the project parameters set by the County.

Project #	Project Name	Processing	Client	Deliverable Format	Due Date	Comments
ECHO'S DELIVERABLE SCHEDULE LEGEND: IN QC						IN QC
ECHO'S DELIVERABLE SCHEDULE LEGEND: SOMETHING TO ADDRESS						SOMETHING TO ADDRESS
23-111	Lakeside Drainage (Title Search)	TY	Applied Sciences	C3D	Friday, September 8, 2023	title search on hold per email from EOR
23-111	Lakeside Drainage (Sketch & Desc)	TY	Applied Sciences	C3D	Friday, September 8, 2023	pending receipt of geometry from EOR
23-168	Lake Cooper (Hills. Co.) (QLA SUE)	CM	Applied Sciences	C3D, THDR & Rpt	Friday, September 8, 2023	Hard date / 8 test holes / Waiting on THs from client / Notscheduled
23-114	SR 62 Emergency Project	CM	Mosaic/Kimley-Horn	C3D & Monitoring Rpt	Friday, September 8, 2023	Package including all info collected with certified report
23-057	I-4 EB Exit Ramp to I-75 (LOS from EOR)	DS	Osiris 9/Arcadis	DGN FDOT	Friday, September 8, 2023	Request submitted 7/12; EOR checking w/ D7 for possibility of supplement
23-153	SR 688 Gulf Blvd to Indian Rocks/Oakhurst (LOS from EOR)	MP	Ribbeck	DGN FDOT	Friday, September 8, 2023	
22-429	SR 15 (US 98) from NW 3rd St to NE 120th St - North Project (Submittal to D1)	AB	RK&K	DGN FDOT	Friday, September 8, 2023	
22-429	SR 15 (US 98) from SW 23rd St to SW 3rd St - South Project (Submittal to D1)	AB	RK&K	DGN FDOT	Friday, September 8, 2023	
23-020	260 Van Gogh - Hillsborough Co. (QLA SUE)	CM	Watermark	C3D, THDR & Rpt	Friday, September 8, 2023	4 test holes / Not scheduled / Awaiting test holes from EOR
23-145	I-4 WB Auxiliary Lane @ McIntosh (Initial Design Survey to D7)	DS	WSP	DGN 10.10	Friday, September 8, 2023	
23-099	Buena Vista Lane - Pasco County (QLA SUE)	CM	AECOM	C3D, THDR & Rpt	Friday, September 15, 2023	40 test holes / TH locations not received
22-473	Hillsborough Ave at George Rd (Initial Des Sur DB)	AB	AECOM	DGN FDOT	Friday, September 15, 2023	need LOS from EOR signed and accepted by D7, Tom C email response
22-316	Island Estates (Certified Survey)	DS	CHA	C3D	Friday, September 15, 2023	67 test holes
22-226	Arrawana Ave Over Twin Brook Creek Replacement (QLA SUE)	CM	HDR	DGN, THDR & Rpt	Friday, September 15, 2023	8 test holes/ Not scheduled / Awaiting test holes from EOR
22-209	I-275 (SR 93) from N of I-375/5th Ave N to N of 38th Ave N (QLA SUE)	CM	KCA	FDOT D7 ORD & THDR	Friday, September 15, 2023	
22-429	SR 15 (US 98) from SW 23rd St to SW 3rd St - South Project (QLB SUE)	CM	RK&K	DGN FDOT	Friday, September 15, 2023	expecting to receive QLB locations in Sept 2023
23-236	TECO Polk Power - Fuel Project (Survey Report)	CM	S&ME	C3D	Friday, September 15, 2023	
22-134	TECO Recker Hwy (Add 3 Poles & Survey Report)	CM/MA	S&ME	C3D, THDR, Rpt	Friday, September 15, 2023	waiting for 3 remaining pole locations from client
21-237	City of Largo - Starkey Rd Ditch (QLA SUE)	AB/CM	CES Consultants	DWG	Wednesday, September 20, 2023	waiting on locations from EOR, reached out to EOR 6/14/23, no response as of 7/23
21-527	Alt US 19 (SR 595) Curlew Pl to Country Club Ct (Initial DB Submittal)	MP	Ribbeck	DGN FDOT ORD	Friday, September 22, 2023	waiting on final B/L & R/W from Cumbey & Fair; drainage SA negotiated 8/3
21-270	PSTA Clearwater Intermodal Center - Additional Topo Survey - POSSIBLE WORK	CM	CDM Smith	C3D	Monday, September 25, 2023	possible additional topo survey
23-153	SR 688 Gulf Blvd to Indian Rocks/Oakhurst (Initial Design Survey DB)	MP	Ribbeck	DGN FDOT	Friday, September 29, 2023	
22-139	FP 440511-6 - Central Ave Bikeway - Final Design Survey Database to D7	TY	Infrastructure Consulting Engineers	FDOT C3D	Sunday, October 1, 2023	supplement in progress for additional survey
22-168	Big Bend Rd from US 41 to Covington Gardens Dr (QLA SUE)	CM	WSP	DGN FDOT SS10	Friday, October 6, 2023	QLB complete / 240 test holes / Not scheduled/Waiting on client
21-237	City of Largo - Starkey Rd Ditch - FINAL Sheeted out Survey	AB	CES Consultants	DWG	Friday, October 20, 2023	pending based on THs
23-145	I-4 WB Auxiliary Lane @ McIntosh (Final Design Survey to D7)	DS	WSP	DGN 10.10	Friday, October 20, 2023	

Recent, Current, and Projected Workload

ECHO has a large field and office presence in nearby Hillsborough County that will be dedicated to serve Charlotte County. With the support of our project tracking resources, experienced team, and available equipment, ECHO is prepared to deliver our services in a timely manner.

Below is a review of ECHO's recent, current, and projected workload. ECHO does not anticipate any projected changes to our workload and we look forward to the opportunity to continue to grow our project list with Charlotte County projects.

Project Name	Client Name	% Complete	Anticipated Completion Date	Total Contract Amount	Remaining Fee
Veterans Blvd @ Cochran Blvd - Charlotte County	FTE	60%	1/31/2023	\$19,313	\$7,725.20
US 41 Village E. Roundabout - Sarasota County	The deMoya Group	0%	6/30/2024	\$42,497	\$42,497
VA Hospital – Bore Locations	KPS Underground	85%	12/31/2023	\$15,200	\$2,280
SR 867 from Old McGregor Blvd. to N. of Whiskey Creek	RK&K	45%	2/26/2024	\$135,910	\$74,751
Veterans Blvd @ Loveland Blvd & Torrington St - Charlotte County	FTE	95%	12/31/2023	\$6,799	\$340
SR 776 from Charlotte County Line to S. of US 41	AECOM	10%	9/30/2025	\$192,787	\$173,508
SR 45 (US 41) From Baywood Drive to S of SR 758 (Bee Ridge Rd)	AECOM	10%	9/30/2025	\$128,270	\$115,443
Main Street from Garage Entrance to Links Avenue - Sarasota	Liberty Builds	60%	12/31/2023	\$9,750	\$3,900
Alderman Road - ATMS	BOCC Pinellas County	5%	3/31/2024	\$42,577	\$40,448
Rice Power Plant Misc Tasks	Moretrench	80%	1/31/2024	\$25,000	\$5,000



Tab 5

Proposed Design

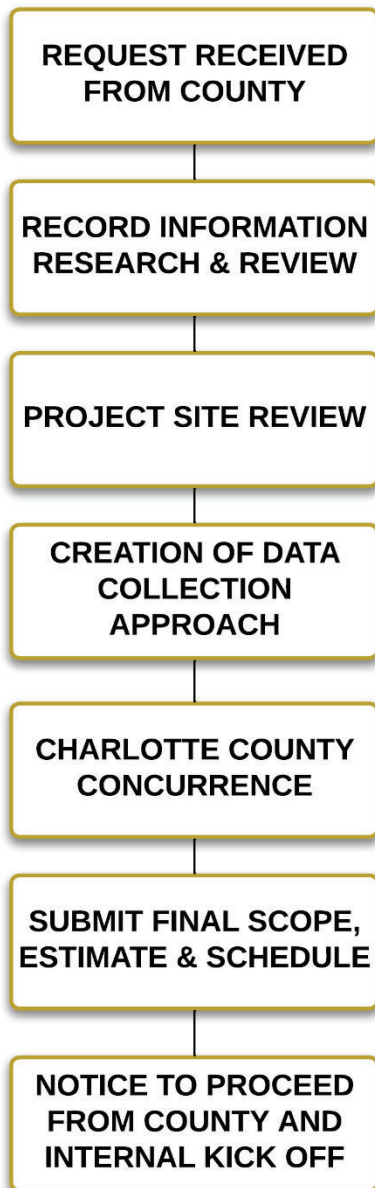
Approach



Proposed Design Approach

The ECHO team has extensive experience working with various governmental entities on standalone design projects and Task Work Order (TWO) based contracts dating back to the early 2000's. We understand the importance of proactive communication throughout the lifecycle of a project to avoid misunderstandings in the scope and schedule delays. Of equal importance is our understanding of how to collect the required information safely and accurately in the most efficient manner possible. **As seen**

in Tab 3 – Previous Experience & Scope Approach, ECHO will provide our subsurface utility engineering, utility coordination, survey and GIS services to gather the necessary QL-A (XYZ) data, and any additional information as requested to complete the template provided by the County resulting in an organized asset management resource for the County's future use. Below is a review of our approach to the **management of each TWO.**



Task Philosophy/Sequencing

The TWO delivery approach begins with the communication of the task assignment requirements initiated by the County to Mr. Stanley and/or Mr. Comellas. Having two points of contact who have served as past contract/project managers will provide increased responsiveness and time savings given the multiple TWO's this contract may produce. Once the scope of work and schedule are discussed and confirmed, Mr. Stanley will gather preliminary information along with past project data. The key to ensuring a successful TWO is the knowledge gained through collecting existing record information including utility and GIS files provided by the County and other utility agencies that may have access to prior utility characteristics within the project area. Along with reviewing preliminary information, Mr. Stanley will also conduct a site review to gain clarity on any safety issues along with finalizing the approach for the requested scope before meeting with members of our team. He will then meet with the appropriate members of our team to produce a proposal and approach that not only meets the project scope requirements, but also offers additional cost-saving options. Following the receipt of the Notice to Proceed (NTP) from the County, Mr. Stanley will then meet with the assigned TWO team inclusive of project surveyors, field managers, utility coordinators, lead CADD/GIS Technicians, and any of our subconsultant team should they be needed for that specific task. This kick-off meeting will discuss the scope, **SAFETY** and potential risks, **SCHEDULE**, required field/office-equipment resources, clear communication and notation of the **NOT TO EXCEED BUDGET**

AMOUNT, and the deliverables our QA/QC process demands. We believe in precise communication and coordination and as such, timely information pertaining to the completion of project milestones will be provided to the County for each TWO while keeping any project meeting schedules in mind. We understand this contract will be the preferred vehicle to obtain utility information to support the creation

of the GIS data requested by the County, and we have proven the previously described approach to be successful on many task assignments. Therefore, the broad base of knowledge and experience that our team possesses will ensure the successful completion of any TWO assigned by the County.

Whether a TWO be of a larger scale or smaller in scope, ECHO has the understanding, technical abilities, and resources to perform and deliver under aggressive design schedules. ECHO's experience with larger projects often overshadows our smaller project task driven focus. ECHO's management and staff are all too familiar with smaller, quick fuse projects that need to be addressed promptly and accurately to keep the County moving forward. ECHO's long-term, mid-term and short-term scheduling meetings further ensure that the larger projects never overshadow the smaller tasks that are equally important. All tasks are scheduled and performed with the same diligence.

Communication Abilities Problem Solving

Potential Issues and Problem Solving: The nature of this type of contract is that problems will be dependent on the scope and the project site. By starting every TWO with a site visit, our team is able to anticipate any **potential issues** that may arise regarding the following:

- 1) **SAFETY:** Should there be any potential issues regarding safety, our team can make sound decisions and determine the safest approach prior to starting the work. By deciding upon the safest (and most effective) approach early on, this will result in keeping our field crews and the public safe throughout the duration of each project.
- 2) **EQUIPMENT:** Not only will early site visits allow us to determine what equipment will provide the correct data for deliverables, but it will also allow us to review which equipment will be most effective for the project site. Whether it be manholes, various piping and mains, or vertical assets, not all equipment is the same and we will be able to make the decision for what will be best at that specific site. This will mitigate any confusion our team may encounter once the project begins and will assist with keeping projects on schedule by knowing we are utilizing the correct equipment early on.
- 3) **MISCELLANEOUS:** Various problems can present themselves throughout the project cycle that are unable to be detected early on. Whether this is related to problems at the project site encountered with dig sites or weather after the start of work, or data collection upload after field work is completed, or even changes that the scope may require after the notice to proceed, ECHO is ready and prepared to address those issues head on. Through our communication approach that you will see below, we will work with every member of our team to address those issues swiftly and cost effectively, and to determine our course of action to present to the County. Our team has countless experience of addressing problems and through the project cycle, and we know the best avenues to use to keep the project moving forward on time and within budget.



Communication Approach: Charlotte County will receive monthly progress reports for all assignments clearly identified by project name and limits, and any weekly updates as needed for short fuse projects when applicable. These reports will be focused on schedule, any unexpected issues encountered, and a proposed action plan to offset the time lost due to these unexpected issues. **The ECHO team will not present a problem to the County without a potential solution.** While it is always important to keep the County aware of the project activities, our experience has given us a good pulse on what to pass along and what to handle in-house to avoid inundating County staff with unnecessary phone calls or electronic correspondence.

Communication between ECHO and the County will be a critical component to the success of this contract, but communication within the ECHO team will be of equal importance. **As reviewed in Tab 2 – Proposed Management Plan and Tab 4 – Project Control, ECHO will effectively utilize our communication methods as a key way to coordinate with and involve our entire utilities staff throughout every step of the project cycle.** Mr. Stanley will hold weekly progress meetings to discuss safety and project specifics. This interaction helps eliminate surprises as the project progresses and allows the team to take a proactive approach when faced with issues like lane closures, cap rock encounters in the field, and extremely deep utilities to name a few. To further streamline communication between the field and office staff, ECHO provides a cell phone and laptop computer to our field leaders along with a subscription to Microsoft Office 365 which includes email and access to the company's SharePoint site. Our field leaders utilize SharePoint daily to upload their field data. ECHO is taking advantage of technology to increase efficiency through streamlining our communication. **We believe in clear communication before, during and after the receipt of an assignment for all parties involved.**

QA/QC Procedures

Quality Control is a constant process at ECHO beginning in the field and continuing in the office through final delivery. An essential component of our QA/QC plan lies in our staff's experience and the ownership each of them takes in completing their individual portions of a project. Our plan includes a series of checks and balances beginning as early as notification of a task assignment and ends with a project debriefing upon final delivery. Our focus and commitment to quality begins with the kick-off meeting including all team members involved. During this meeting, Mr. Stanley will go over the scope of services and answer any questions that arise. This meeting establishes a clear and open line of communication between the office and field staff, ensuring the scope is completely understood by all. All Field Managers will provide daily reviews of the field notes and data files prior to any office processing activities commencing. Upon completion of the field work and during the office processing phase, our staff will perform a thorough review of the SUE/Survey data to make sure all work complies with Florida Statutes, Chapter 472 and Florida Administrative Code, Chapter 5J-17.

Field sketches showing line work, test hole data reports (THDR) showing pipe size, material, orientation, depth, and photos documenting the field work completed each day will all be reviewed for accuracy and utilized in the preparation of the SUE electronic design file. Once the SUE design file and test hole data report is complete, an independent Peer Review will be performed by our QA/QC Manager, Mr. Pilia, CEng, PE (AZ) utilizing ECHO's SUE review checklist as a tool for reviewing the SURVRD01 file and corresponding data files. Mr. Pilia will also utilize our subconsultant team at EPIC to assist with additional Peer Review to ensure that all files are of the highest quality for the County. Performing Independent Peer Reviews will further ensure the quality of our deliverables, so that the County does not have to spend time and resources addressing subpar performance while also avoiding unnecessary schedule delays. Mr. Stanley and/or Mr. Comellas will provide the final review confirming the deliverable meets the negotiated hours and scope requirements. Sustained quality is achieved by

continuous learning and using past experiences as lessons learned for future work. We save all comments received from prior projects and use them as a resource for our QC activities on subsequent projects. **Our goal on every submittal is zero comments!**



Commitment to Safety

ECHO views safety as a critical component on every project; strict safety procedures must always be followed to ensure the safety of our team and the traveling public. ECHO's Field Management have full purchasing power to address PPE and safety equipment needs. Prior to beginning work on any TWO, a job safety analysis (JSA) will be completed by the team to thoroughly review and discuss any inherent safety risks associated with the TWO and document them for use by the field crew. The JSA will also include the name, address, and phone number of the

closest medical facilities to the project in the event one of our employees suffers an injury or illness while on the job. No two project sites are the same when it comes to safety so each must be analyzed individually and addressed accordingly. The JSA serves as ECHO's first step to properly address each project according to its specific safety risks. Field conditions can change throughout the duration of completing a project. One of ECHO's methods to address these changes and adjust our safety procedures accordingly is through our tailgate safety meetings. Tailgate safety meetings are held each day by the crew upon arrival to the project site and prior to beginning work. During this meeting the JSA is discussed, and previously known and new potential hazards are identified in the area of work for the day. We have found this proactive approach to greatly minimize the chance of avoidable accidents and injuries. In addition to our micro-approach to safety, ECHO is a proponent of addressing safety on the macro level through safety training and certifications. For example, our highly trained field and management staff have various certifications such as: FDOT Intermediate MOT, OSHA Confined Space Safety, Construction Safety, and CPR/First Aid Training. **ECHO is a top-down safety-oriented company allowing each associate regardless of their position full "Stop Work Authority."**



Tab 6

Recently Accomplished Projects

Utility Attribute Table

Pop-up

▲ Culvert_Lines (1)

030423085847BC

Culvert_Lines - 030423085847BC

OBJECTID	36
HYDROCODE	030423085847BC
USMATERIAL	RCP
USGEOMETRY	CIRCULAR
SPAN (HORZ INCHES)	54

561,968.95E 1,588,852.19N ftUS

◀ 1 of 1 ▶ M: NaN

[Link to Surveyor Field Notes](#)

[Link to 360 Image of the Site](#)

Photos

FieldNotes

Photos

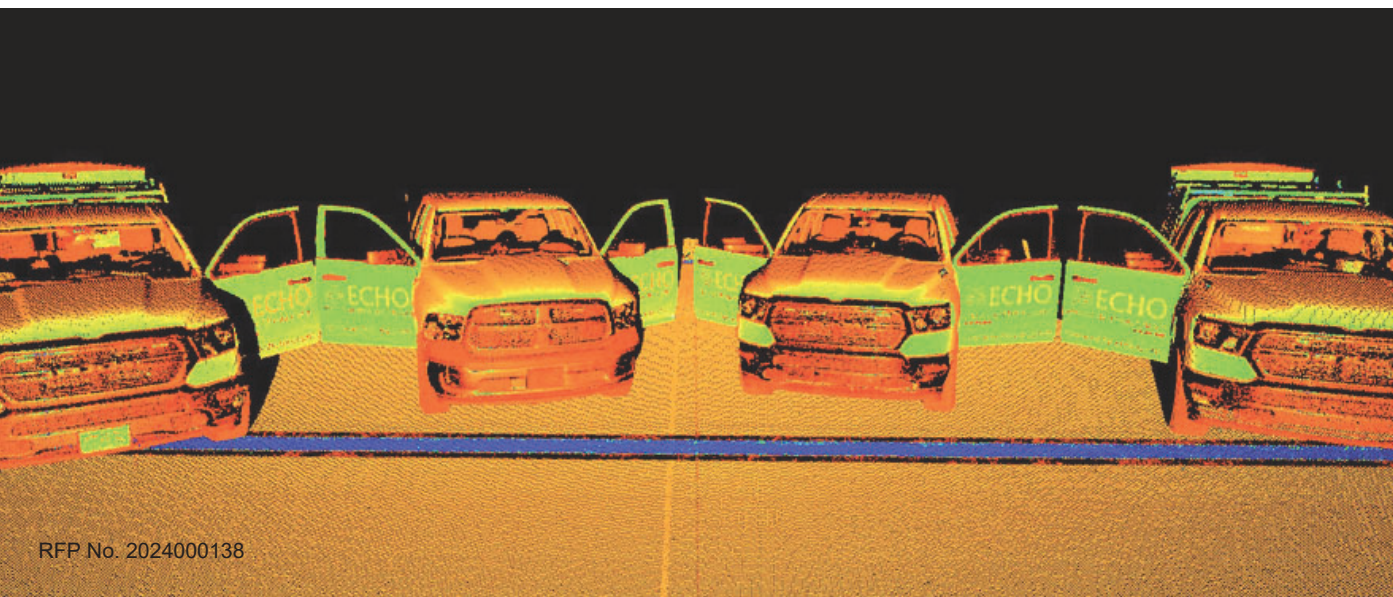
[Link to 360 Image of the Site](#)

Recently Accomplished Projects

The ECHO team has extensive experience working with various governmental entities on standalone design projects and Task Work Order (TWO) based contracts dating back to the early 2000's. ECHO has a structured approach to the project cycle for each TWO that is assigned by Charlotte County. Our communication amongst our entire staff allows us to prioritize projects and adjust deliverable schedules as needed. Since 2017, ECHO has grown and has proven our ability to manage multiple projects and achieve completion both on time and within budget. Reviewing our list below of completed projects per year, it is clear to see that the ECHO team is able to effectively plan and allocate our resources as necessary to complete each task assigned to us.

2017 – 90 projects	2018 – 381 projects	2019 – 422 projects
2020 – 415 projects	2021 – 528 projects	2022 – 483 projects
2023 – 447 projects completed/in production		

As you will see on the following relevant project experience project summaries, ECHO has completed projects of various size and scope that are indicative of ECHO's preparedness in successfully performing for our services for the duration of this contract. We look forward to the opportunity to provide our quality services and to create a lasting relationship with the County.



PROJECT SUMMARY

Project Number

1

TITLE AND LOCATION (City and State)

East Port WRF Improvements, Charlotte County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2021

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Charlotte County
Prime Firm: Jones Edmunds & Associates, Inc.

b. POINT OF CONTACT NAME AND ADDRESS

Hatim Fadlalla, PhD, P.Eng,
PE, Senior Engineer

c. CONTACT INFORMATION

352-377-5821

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of utility investigation services for future improvements to the East Port Water Reclamation Facility in Charlotte County. ECHO provided survey and subsurface utility engineering services including the identification and verification of utilities along with their characteristics (type, size, material, etc.).

Project Manager: Jason Stanley ECHO FEE = \$9,000

PROJECT SUMMARY

Project Number

2

TITLE AND LOCATION (City and State)

Signal Design at Gasparilla Road at Marathon Boulevard,
Charlotte County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2019

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Charlotte County
Prime Firm: Florida
Transportation Engineering, Inc

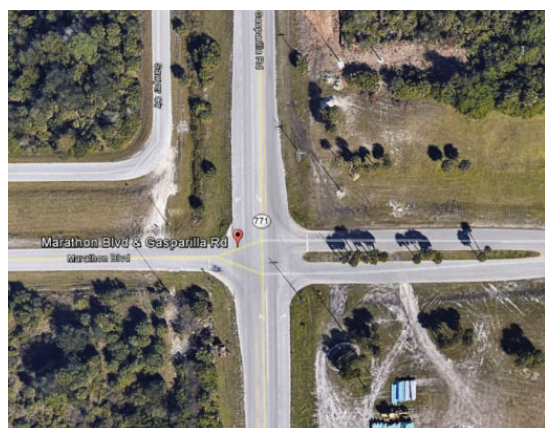
b. POINT OF CONTACT NAME AND ADDRESS

Oliver Remy Rodrigues, P.E.,
PTOE, Project Manager

c. CONTACT INFORMATION

Oliver@fteinc.net

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



This project consisted of intersection improvements for the Gasparilla Road at Marathon Boulevard intersection in Charlotte County, Florida. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundation locations.

Project Manager: Jason Stanley ECHO FEE = \$6,250

PROJECT SUMMARY

Project Number

3

TITLE AND LOCATION (City and State)

Wekiva Watershed Study - Seminole County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2022 - 2023

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Seminole County
Prime Firm: Geosyntec
Consultants

b. POINT OF CONTACT NAME AND ADDRESS

Mark Ellard, PE
Project Manager

c. CONTACT INFORMATION

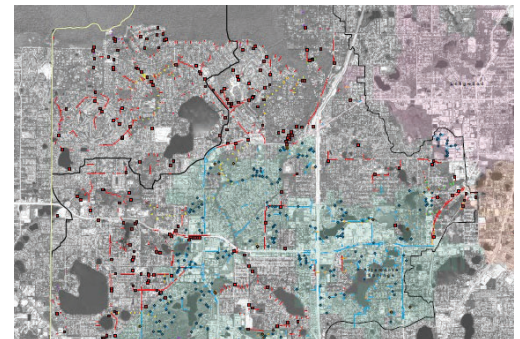
321-249-9360

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of performing a watershed study for the Wekiva River Basin in Seminole County. ECHO's professional services were requested to provide field survey information consisting of surveying determined structures, pipes and channel cross sections divided into three priority areas.

Scope of Services for This Project

- 1) Topographic and Utility Survey - ECHO performed a topographical survey and utility survey of the project limits. The final product encompassed the following tasks:
 - I. Set horizontal and vertical control.
 - II. Survey the requested information, comprising of locations, attributes, descriptions, photos and sketches.
 - III. Process and import the field collected data within a survey AutoCAD file and excel data table.



Project Manager: Jason Stanley ECHO FEE = \$219,950

PROJECT SUMMARY

Project Number

4

TITLE AND LOCATION (City and State)

Veterans Blvd. at Cochran Blvd. Intersection Improvements,
Charlotte County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2023 - Current

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Charlotte County
Prime Firm: Florida
Transportation Engineering, Inc

b. POINT OF CONTACT NAME AND ADDRESS

Justin Reck, Project Manager

c. CONTACT INFORMATION

727-515-9939

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consists of intersection improvements for the Veterans Boulevard at Cochran Boulevard intersection in Charlotte County. ECHO's professional services were requested to provide survey and subsurface utility engineering services along with a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed mast arm foundations, light pole foundations, and drainage structure locations.

Project Manager: Jason Stanley ECHO FEE = \$19,300 (Contracted Fee – Project Ongoing)

PROJECT SUMMARY

Project Number
5

TITLE AND LOCATION (City and State)

SR 78 Resurfacing from Chiquita Blvd. to Santa Barbara Blvd (FPID: 446291-1), Lee County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2022 - 2023

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Florida Department of Transportation District 1
Prime Firm: VIA Engineering Group, Inc.

b. POINT OF CONTACT NAME AND ADDRESS

Fernando Cano, PE, Project Manager/Senior Project Engineer

c. CONTACT INFORMATION

407-301-9904

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of milling and resurfacing SR 78 from Chiquita Boulevard to Santa Barbara Boulevard. The work also included milling and resurfacing side streets, ADA improvements, signalization and lighting additions/improvements. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services on this resurfacing project.

Project Manager: Jason Stanley ECHO FEE = \$89,000

PROJECT SUMMARY

Project Number
6

TITLE AND LOCATION (City and State)

Proctor Rd. from Honore Ave. to E. of Cattlemen Rd., Sarasota County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2022-2023

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Sarasota County
Prime Firm: Arcadis

b. POINT OF CONTACT NAME AND ADDRESS

Tim Ware, PE
Project Manager

c. CONTACT INFORMATION

Tim.Ware@arcadis.com

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of design services to construct a new water main along Proctor Road from the County's existing water booster station 5 at Cattlemen Road to Honore Avenue in Sarasota County. ECHO's professional services were requested to provide survey and subsurface utility engineering services for the location of existing underground utilities for the length of the water main route on both the north and south sides of the right-of-way.



Project Manager: Jason Stanley ECHO FEE = \$47,300

PROJECT SUMMARY

Project Number

7

TITLE AND LOCATION (City and State)

Veterans Blvd. at Loveland Blvd. & Torrington St., Charlotte County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2023 - Current

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Charlotte County
Prime Firm: Florida
Transportation Engineering, Inc

b. POINT OF CONTACT NAME AND ADDRESS

Justin Reck, Project Manager

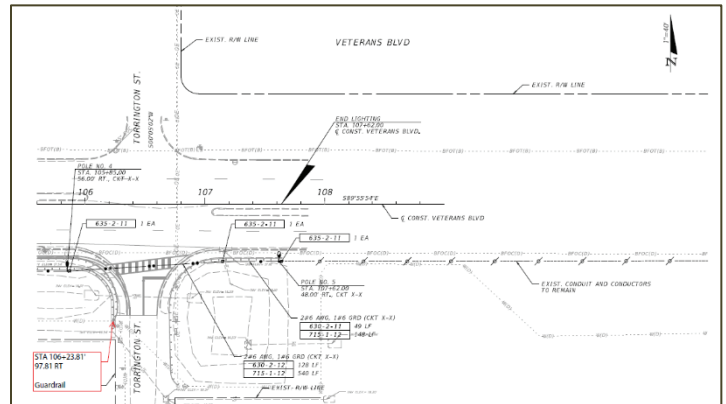
c. CONTACT INFORMATION

727-515-9939

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consists of improvements near the Veterans Boulevard at Loveland Boulevard and Torrington Street intersections in Charlotte County, Florida. ECHO's professional services were requested to provide a subsurface utility engineering design file depicting the location of existing underground utilities potentially in conflict with the proposed light pole foundations, light pole foundation, guardrail, and gravity wall locations.

Project Manager: Jason Stanley ECHO FEE = \$6,800 (Contracted Fee – Project Ongoing)



PROJECT SUMMARY

Project Number

8

TITLE AND LOCATION (City and State)

SR 739 Resurfacing/Safety Improvements from Caloosahatchee River to N of SR 78 (446293-1), Lee County, FL

YEARS COMPLETED

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2021 - 2023

PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Owner: Florida Department of
Transportation District 1
Prime Firm: AVANT
Engineering Group

b. POINT OF CONTACT NAME AND ADDRESS

Lizette Martinez, PE, Senior
Vice President, Senior
Engineer

c. CONTACT INFORMATION

407-269-4578

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This was a Resurfacing, Restoration, and Rehabilitation (RRR) project that consisted of providing services to extend the service life of the existing roadway of SR 739 from MP 1.055 to MP 2.741. The project consisted of milling and resurfacing all travel lanes, turn lanes, and side streets. Additional improvements included reconstructing existing ADA ramps, replacing the strain pole signal at Pondella Rd. with mast arms, providing intersection lighting at Pondella Rd., providing two Pedestrian Hybrid Beacons, and other incidental improvements. Additionally, the existing two-way left turn lane between MP 1.348 to MP 2.741 was converted to a raised median to increase safety along the corridor. ECHO provided survey and mapping, subsurface utility engineering, and utility coordination services.

Project Manager: Jason Stanley ECHO FEE = \$370,300

PROJECT SUMMARY

Project Number

9

TITLE AND LOCATION (City and State)**YEARS COMPLETED**

SR 683 at various intersections from 12th Street to Dr. Martin Luther King Jr. Way (FPID 447872-1), Sarasota County, FL

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2022 - 2023

PROJECT OWNER'S INFORMATION**a. PROJECT OWNER**

Owner: Florida Department of Transportation District 1
Prime Firm: Garrett Engineering Group, Inc

b. POINT OF CONTACT NAME AND ADDRESS

Megan Lerner, PE, Vice President/ Project Manager

c. CONTACT INFORMATION

813-334-8588

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of various intersections within the roadway corridor that required improvements as requested by the District One Traffic Safety Department. The project resulted in improving safety by implementing various improvements to four intersections including: adding signal heads, additional signage, special emphasis crosswalks and improved access control at 21st Street with an RCUT intersection. The RCUT intersection at 21st Street included HAWK/ Pedestrian Hybrid Beacons (PHB) on mast arm assemblies. ECHO provided survey, subsurface utility engineering, and utility coordination services.

Project Manager: Jason Stanley ECHO FEE = \$158,300

PROJECT SUMMARY

Project Number

10

TITLE AND LOCATION (City and State)**YEARS COMPLETED**

SR 683 at University Parkway (FPID 447870-1), Sarasota County, FL

PROFESSIONAL SERVICES CONSTRUCTION (If Applicable)
2022 - 2023

PROJECT OWNER'S INFORMATION**a. PROJECT OWNER**

Owner: Florida Department of Transportation District 1
Prime Firm: Garrett Engineering Group, Inc

b. POINT OF CONTACT NAME AND ADDRESS

Megan Lerner, PE, Vice President/ Project Manager

c. CONTACT INFORMATION

813-334-8588

BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project consisted of various areas within the roadway corridor requiring improvements as requested by the District One Traffic Safety Department. Improvements included milling and resurfacing, widening and reconstruction, and the replacement of curbs, gutters, and sidewalks. The project resulted in improving safety by implementing improved access control. ECHO provided survey, subsurface utility engineering, and utility coordination services.

Project Manager: Jason Stanley ECHO FEE = \$205,300



Tab 7

Experience and Capabilities



Experience and Capabilities

Specialized Experience

ECHO works on many different types of projects, including airports, seaports, railroad upgrades, roadway design, reconstruction, widening and safety improvements, utility design, construction and maintenance, industrial and chemical plant upgrades, and safety improvements. In general, ECHO's services are requested anywhere there is the need for obtaining accurate above and below ground information for infrastructure improvements.

As seen in Tab 6 – Recently Accomplished Similar Projects (Project Sheets), ECHO has a vast history of projects where we have utilized our subsurface utility engineering and GIS services, along with our supporting survey services. Using state-of-the-art equipment and our experienced staff, we have been able to obtain quality information that accurately describes utility characteristics for our clients. Because of the deliverables we have provided to our clients, successful improvements to various sites throughout our community have been achieved.

Firm Availability

ECHO maintains professional staffing levels and the necessary equipment to meet the demands of our workload. In the event of a fast-tracked project, emergency project, or if local resources are nearing their capacity, the ECHO team has the resources available to meet the needs of Charlotte County. Utilizing our equipment and with the direction of our experienced leadership, ECHO will have all assets available to allow us to provide open availability to complete each assigned task under this contract in a timely manner. **In addition to our equipment and staffing level, we also can assure the County that our key staff will remain available throughout the duration of this contract.**

Horizontal and Vertical Data Collection for Subterranean Assets

As described in **Tab 3 – Previous Experience & Scope Approach**, ECHO will provide SUE utility information to achieve Quality Level A (XYZ) data as requested by the County. Utilities are field investigated using surface geophysical equipment and technology, to include ground penetrating radar, pipe/cable locators, transmitting probes, metal detectors, cameras etc. Utility information is collected above and below ground in a comprehensive fashion and then compared to site reviews, recollections, analysis of obtained utility records information to ensure that all utilities are correctly detected and depicted. A utility survey will follow by utilizing total stations and GPS to accurately survey all the necessary utility information at the project site. ECHO can also scan inside utility structures such as vaults and manholes and collect 360-degree images of utility appurtenances should this information be relevant to the specific site the County assigns to ECHO. Our firm has experience in utilizing this approach for all of our SUE projects and has continued to find that this method has consistently produced quality deliverables for our clients.

Quantity and Availability of Field Equipment

Technology used within the survey and subsurface utility locating industry is evolving at a rapid pace resulting in new levels of efficiency we could only dream of in the past. The ECHO team has witnessed this evolution and is a strong proponent of not only staying current but staying ahead of the curve when it comes to new opportunities and efficiencies through advancements in technology.



Subsurface Utility Engineering: The ECHO team's subsurface utility engineering equipment inventory includes designating and vacuum excavation trucks, single and dual frequency ground penetrating radar systems, radio detection pipe, and cable locators for passive and active line designation. This equipment will be important and utilized strategically by our team to determine the utility characteristics that will be required by the County.

Survey: We also possess an extensive inventory of survey equipment that includes the traditional outfit of total station, digital level, and GPS antennas for each of our survey vehicles. We also have 3 static scanners, a mobile LiDAR and a Phantom 4 RTK drone for use when field conditions dictate remote data capture. This scanning technology is an excellent way to keep our field teams out of the line of vehicular traffic, keeping them and the traveling public safe. The smallest of our static scanners is a Leica BLK360 that can be used in tight and confined spaces such as conflict structures and manholes. Not only is safety improved by not having to enter a confined space to measure the required information, but the resulting point cloud offers a much more thorough view of the structure like size and condition.

Safety: All field crews carry the necessary signs, cones, and flags for Temporary Traffic Control (TTC) setups to ensure their safety as well as any pedestrians within the project area.

By utilizing the below equipment in tandem, we are confident we will have all the resources necessary to complete the deliverables required by the County.

Equipment (Survey)	Type	Equipment (Utility Locating)	Type
16	Leica GS14 & GS16 GPS Antennas	7	Dual Frequency Ground Penetrating Radar
21	Leica TS06 Total Stations	6	RD8100/RD8000/HL800 P & C Locators
15	Leica LS10 Digital Levels	6	TX-10 Transmitters
2	Leica C10 & P40 Scan Stations	13	VM 810 RX & TX – Line Locators
1	Leica BLK Scanner	2	VLOC pRO3 RX – Receivers
16	Leica CS20 Data Collectors	3	LMX100 Antenna (Concrete GPR)
20	Carlson Survey or 2 Data Collectors	3	SCREEN DVL-500N (GPR)
1	Phantom 4 RTK Drone	1	Tracer-33khz (Duct Sondes)
1	Leica GG04 GIS Survey Grade GPS Antenna	3	Vacuum Excavation Field Vehicles
19	Survey Field Vehicles	11	Designating Field Vehicles

Incorporating Collected Data Into a GIS Database

We have also developed a process that automates the creation of our Quality Level A (QL A) (Utility Locates) tables. Mr. Thomas Young, PSM, GISP created a form used by the field teams to populate pertinent utility characteristics such as utility type, pipe size, depth below grade or cut to the top of the pipe while performing the work. They simply record the location with their GPS enabled smartphone or tablet and the information is automatically linked to the point. Multiple photographs of each location can be linked to a point which is beneficial when completing the QC. The coordinate values are mapping grade quality, however, the data can be uploaded to a GIS database and easily linked to the survey grade coordinates after the field survey is complete. In addition, this form allows for our subconsultant team to review the information as needed, should we require them for a specific assignment, and for our QC team to have a clear layout of information to review. As a result of this process, we will be able to populate the template provided by the County to finalize that data set for the County's future needs.



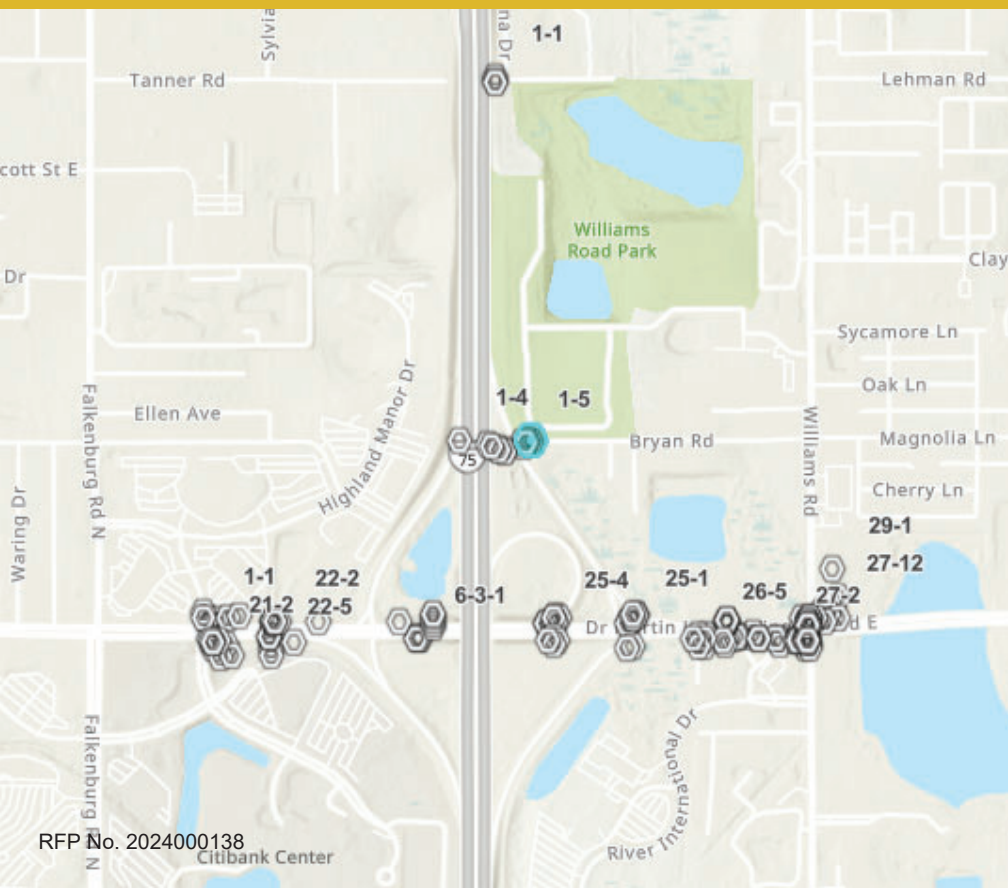
Critical Path Method

As reviewed in prior tabs throughout this proposal, ECHO has a clear communication approach amongst both our team inclusive of subconsultants, but also how we will communicate with the County. Through this communication and the implementation of checks and balances through our QA/QC methods, our team will be able to flow through each assignment from the County. Our team will utilize our array of resources such as technology and staffing leads to ensure that the critical path method of passing along data until the final deliverable is sent will remain clear and accurate.



Tab 8

Proposal Forms, Certificate of Insurance, Licenses



PART IV - SUBMITTAL FORMS
PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence
	Jason Stanley - Project Manager	23	Tampa	Tampa	Land O Lakes
	Jerry Comellas, Jr., PE - Contract Manager	37	Tampa	Tampa	Tampa
	Carlo Pilia, CEng., PE (AZ) - QA/QC Manager	19	Oviedo	Oviedo	Chuluota
	Andy Trayner, PSM - Field Manager	40	Tampa	Tampa	Lutz
	Mike Albanese, Sr. - Field Manager	28	Tampa	Tampa	Spring Hill
	Mike Patterson, PSM - Lead Project Surveyor	22	Tampa	Tampa	Largo
	Adam Berry, PSM - Project Surveyor	12	Tampa	Tampa	Tampa
	Thomas Young, PSM, GISP	14	Tampa	Tampa	Brandon
	Dustin Shenk, PSM	25	Tampa	Tampa	Palm Harbor
2.	Magnitude of Company Operations				
	A) Total professional services fees received within last 24 months:			\$ 17,789,428	
	B) Number of similar projects started within last 24 months:			946	
	C) Largest single project to date:			\$ 1,270,611.11	
3.	Magnitude of Charlotte County Projects				
	A) Number of current or scheduled County Projects			4	
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$ 64,265.53	
4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided	
	EPIC Engineering and Consulting Group, LLC	Winter Springs, FL	20%	GIS Data Support	
5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.				
	Firm	Address			
	Phone #	Contact Name			
	Start Date	Ending Date			
	Project Name/Description				

NAME OF FIRM ECHO UES, Inc.

(This form must be completed and returned)

6. Minority Business:Yes ☒ No ☐

The County will consider the firm's status as an MBE or a certified MBE, and also the status of any sub-contractors or sub-consultants proposed to be utilized by the firm, within the evaluation process.

Comments or Additional Information:

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per contract, if the firm is awarded the Contract by the County. The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

By signing this form, the proposer hereby declares that this proposal is made without collusion with any other person or entity submitting a proposal pursuant to this RFP.

In accordance with section 287.135, Florida Statutes, the undersigned certifies that the company is not on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and does not have business operations in Cuba or Syria (if applicable) or the Scrutinized Companies that Boycott Israel List, or is not participating in a boycott of Israel.

As Addenda are considered binding as if contained in the original specifications, it is critical that the Consultant acknowledge receipt of same. The submittal may be considered void if receipt of an addendum is not acknowledged.

Addendum No. 241386a - #1 Dated 12/1/23 Addendum No. 241386b - #2 Dated 12/4/23 Addendum No. _____ Dated _____

Addendum No. _____ Dated _____ Addendum No. _____ Dated _____ Addendum No. _____ Dated _____

Type of Organization (please check one):

INDIVIDUAL
CORPORATION☐ PARTNERSHIP ☐
☒ JOINT VENTURE ☐ECHO UES, Inc.

Firm Name

888-778-3246

Telephone

N/A81 - 4903226

Fictitious or d/b/a Name

Federal Employer Identification Number (FEIN)

4803 George Rd., Suite 350

Home Office Address

Tampa, Florida 33634

City, State, Zip

7

Number of Years in Business

Address: Office Servicing Charlotte County, other than above

Jason Stanley, Vice President

Name/Title of your Charlotte County Rep.

727-224-0548


Telephone

Jeraldo Comellas, Jr., PE / President

Name/Title of Individual Binding Firm (Please Print)

12/07/2023

Date


Signature of Individual Binding FirmJason.Stanley@echoues.com

Email Address


(This form must be completed & returned)

DRUG FREE WORKPLACE FORM

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that ECHO UES, Inc.
does: (name of business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

 Jeraldo Comellas, Jr., PE / President
Proposer's Signature

12/07/2023
Date

END OF PART IV

(This form must be completed & returned)



ECHOUES-01

ASOSTENUTO

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

11/30/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER JCJ Insurance Agency, LLC 2208 Hillcrest Street Orlando, FL 32803	CONTACT NAME:	
	PHONE (A/C, No, Ext): (321) 445-1117	FAX (A/C, No): (321) 445-1076
	E-MAIL ADDRESS: certs@jcj-insurance.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Phoenix Insurance Co. (Travelers)	25623
INSURED ECHO UES, Inc. 4803 George Road, Ste. 350 Tampa, FL 33634	INSURER B : Travelers Indemnity Co.	25658
	INSURER C : Travelers Property & Casualty of America	25674
	INSURER D : Travelers Casualty & Surety Co	19038
	INSURER E : Arch Insurance Company	11150
	INSURER F :	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	6608K098936	10/1/2023	10/1/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BA6R903776	10/1/2023	10/1/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	X	CUP8L373264	10/1/2023	10/1/2024	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
D	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, describe under DESCRIPTION OF OPERATIONS below		X	UB4S220563	10/1/2023	10/1/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Professional Liab			PAAEP0161800	10/1/2023	10/1/2024	Per Claim 2,000,000
E				PAAEP0161800	10/1/2023	10/1/2024	Aggregate 3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Charlotte County, its officers, employees, agents, and volunteers are an Additional Insureds with regards to General, Auto and Umbrella Liability when required by written contract. Coverage is Primary & Non-Contributory with respect to all policies. A Waiver of Subrogation for all policies applies when required by written contract. 30 Day Notice of Cancellation, except for 10 days for non-payment.

CERTIFICATE HOLDER

CANCELLATION

Charlotte County
18500 Murdock Circle,
Port Charlotte, FL 33948-1094

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

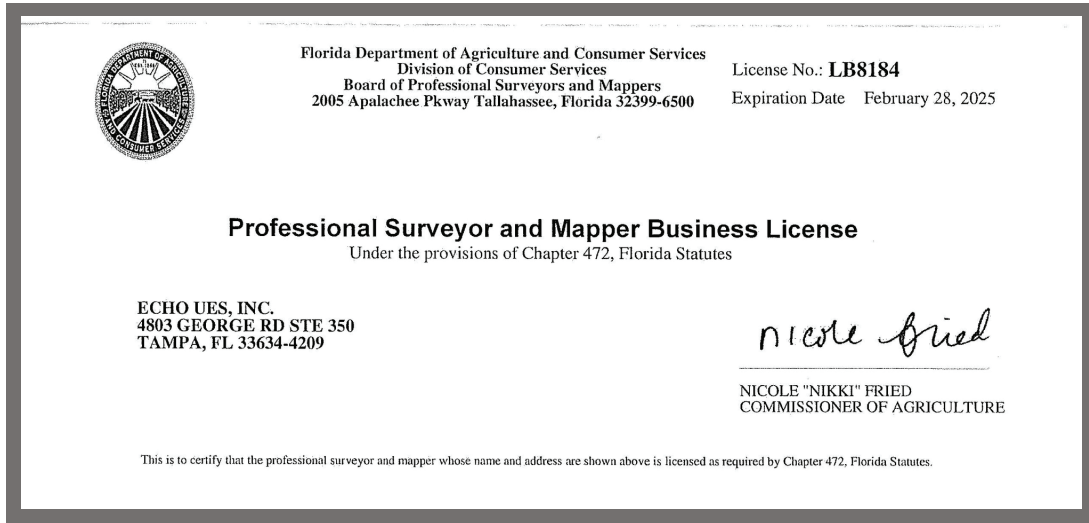
AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

Firm Licenses



*On October 1, 2019 HB827/SB616 went into effect creating the rules for administrative code 61G15, which removes the requirement that engineers obtain a separate engineering business license (certificate of authorization) for their engineering firm.

Additional information about this can be found on the Florida Board of Professional Engineers website here: <https://fbpe.org/licensure/licensure-process/engineering-firms/>

Jerry Comellas, Jr., P.E., is ECHO's qualifying professional engineer in a Registry capacity for ECHO's active engineering firm status.

State of FL Registration

State of Florida Department of State

I certify from the records of this office that ECHO UES, INC. is a corporation organized under the laws of the State of Florida, filed on January 6, 2017, effective January 6, 2017.


The document number of this corporation is P17000002696.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 24, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the First day of March, 2023*




Secretary of State


Tracking Number: 9516244816CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Staff Licenses/Certifications


ECHO

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500


License No.: **LS6560**
Expiration Date February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

MICHAEL WILLIAM PATTERSON
10655 YUNKER DR
LARGO, FL 33774-4529


WILTON SIMPSON
COMMISSIONER OF AGRICULTURE


This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500


License No.: **LS7117**
Expiration Date February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ADAM BERRY
4803 GEORGE RD STE 350
TAMPA, FL 33634-4209


WILTON SIMPSON
COMMISSIONER OF AGRICULTURE


This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500


License No.: **LS6504**
Expiration Date February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

ANDREW JOHN TRAYNER
1005 HASTINGS CT
LUTZ, FL 33548-7909


WILTON SIMPSON
COMMISSIONER OF AGRICULTURE


This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

 Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS7041**
Expiration Date February 28, 2025

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

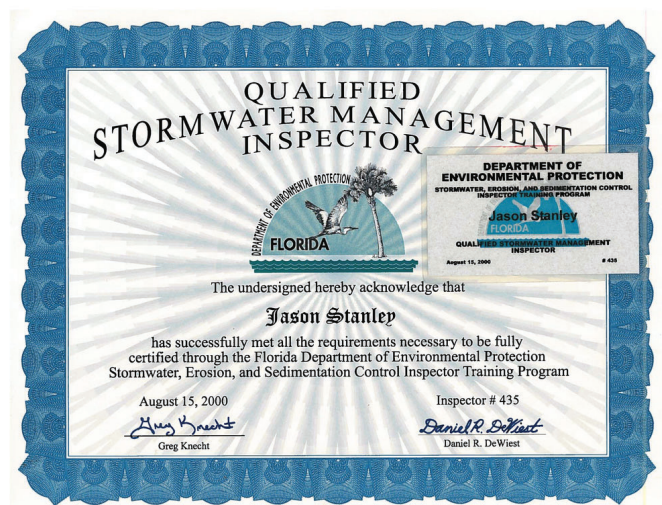
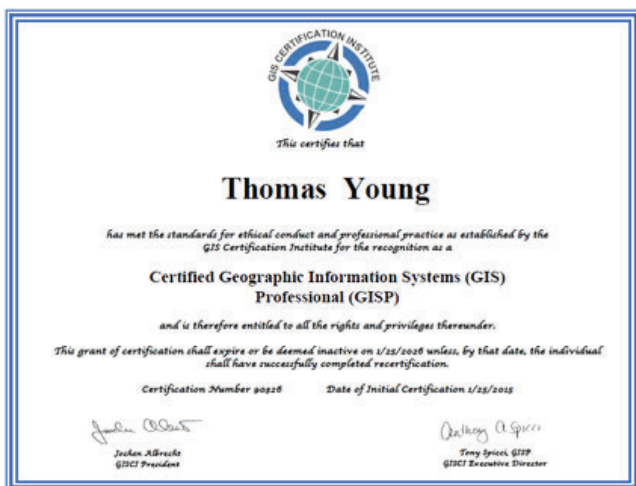
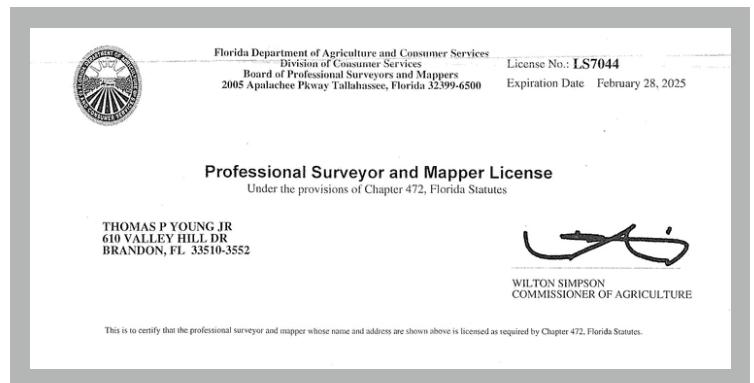
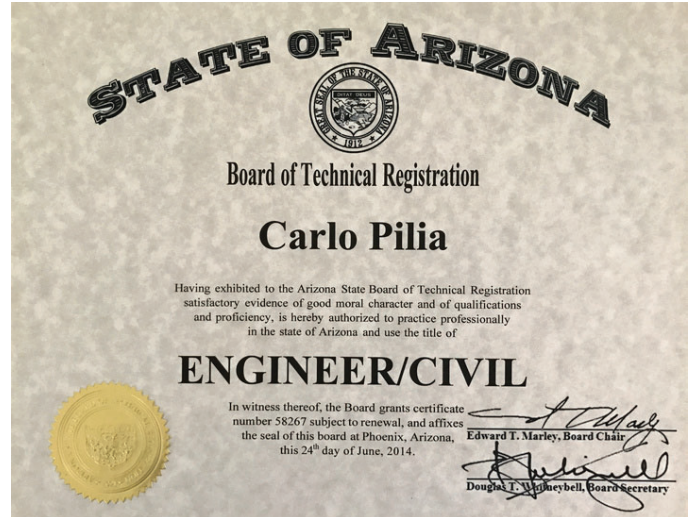
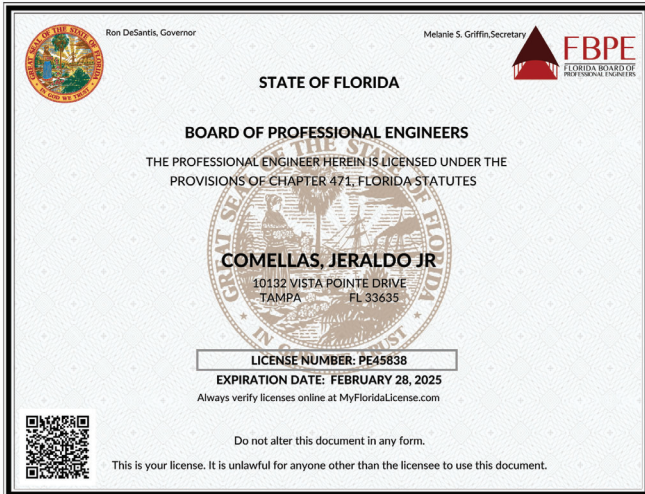
DUSTIN SHENK
612 CHANNING DR
PALM HARBOR, FL 34684-3911


WILTON SIMPSON
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

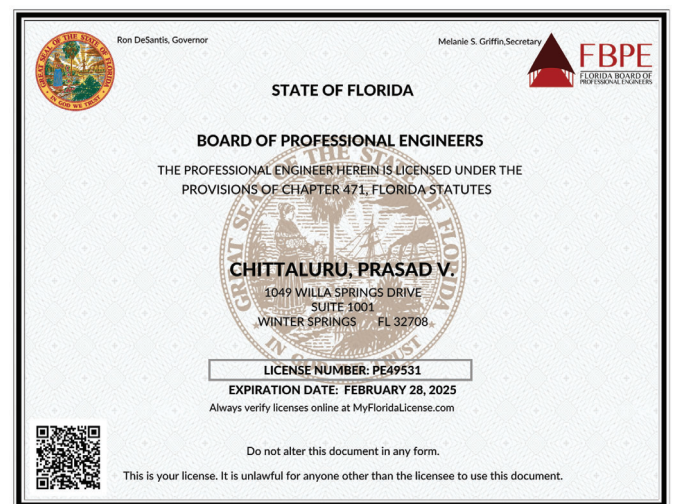
Staff Licenses/Certifications

ECHO



Staff Licenses/Certifications

EPIC Engineering and Consulting, LLC





Location

ECHO has a large field and office presence in nearby Tampa/Hillsborough County that will be dedicated to serve for the duration of this contract. This office is located in close proximity to I-75 giving us easy access to the main corridors to easily access any project in Charlotte County. Because of our location, we have the ability to respond immediately for emergency or short-notice meetings the County schedules. Ultimately, our office location will enable our team to provide efficient results through less mobilization time to and from the project site. In the event of an emergency requiring immediate mobilization, the County can rest assured that the ECHO team will respond and mobilize to the project site in a timely manner. While emergency responses are typically the exception and not the rule on these contracts, Mr. Stanley and his team know from firsthand experience that it can happen due to a variety of reasons. Time is of the essence in these circumstances and each minute could be costly from a monetary or public safety perspective. We are aware of and sensitive to these circumstances and can assure the County that we will respond according to your need. Our capabilities and resources will ensure the most appropriate approach, technology, and team members, based on geographic coverage and availability, will be utilized for each TWO.

Team Roles and Office Locations

ECHO will provide subsurface utility engineering and GIS services with support from our Orlando and Gainesville offices as needed. Mr. Stanley will serve as Project Manager and has extensive experience providing services in and around the Charlotte County area. Along with Mr. Stanley, the entire team of Key Staff listed in Tab 1 are also located in the Tampa/Hillsborough County area and therefore will be available for any needs the County may require throughout this contract.

ECHO Office Location: 4803 George Rd., Suite 350 Tampa, Florida 33634 (Hillsborough County)



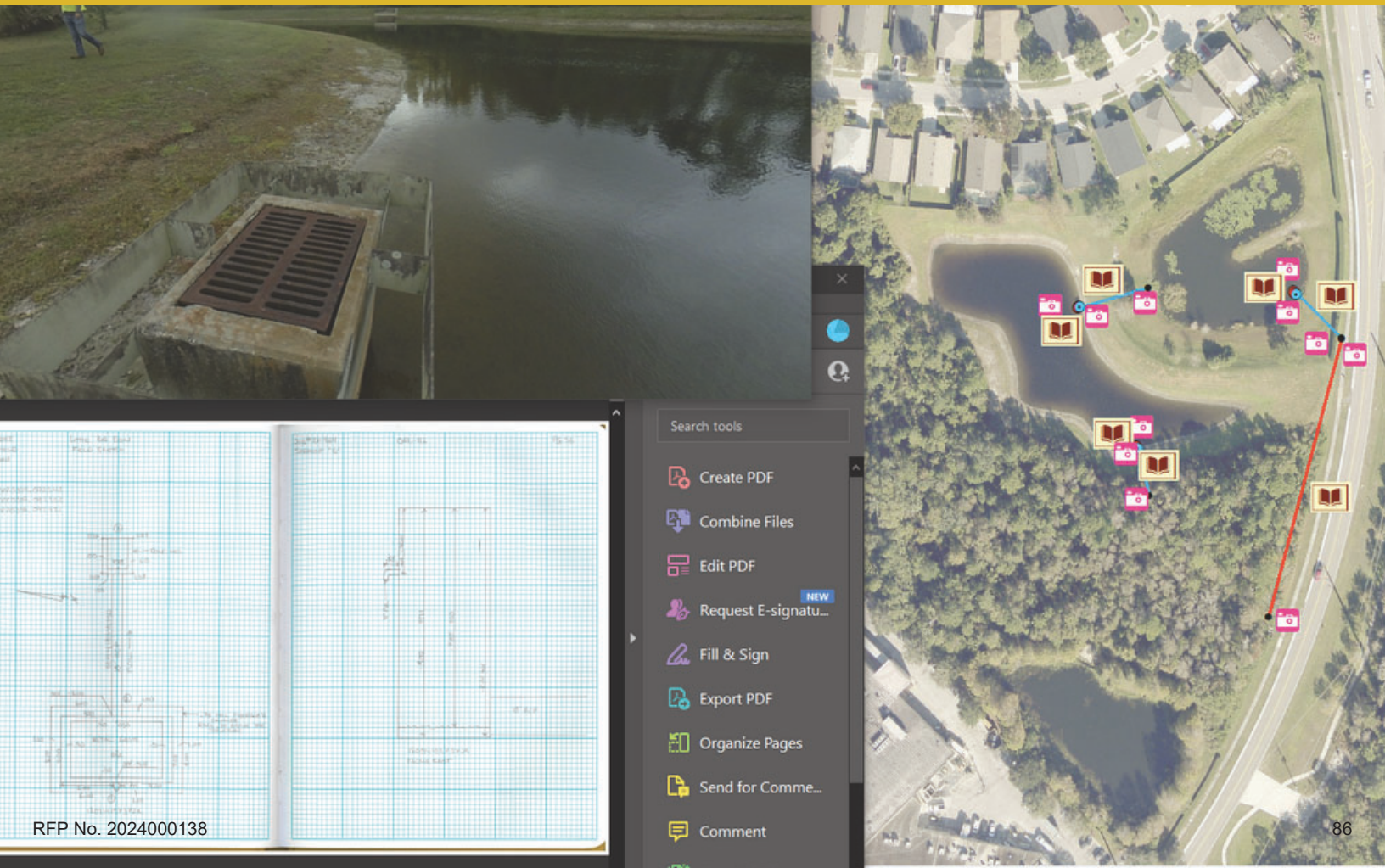
EPIC Engineering and Consulting Group, LLC, led by Mr. Prasad Chittaluru, PhD, PE, PMP, BCEE, GISP, will support the team with GIS services. Because their GIS services are office based, EPIC's location will not hinder any project timelines. EPIC has provided services in support of other projects with ECHO on prior contracts, and continues to provide consistent communication on each project which has resulted in quality deliverables within each project's schedule.

EPIC Office Location: 1049 Willa Springs Drive, Ste. 1001, Winter Springs, FL 32708 (Seminole County)



Tab 10

Litigation



Litigation Statement

ECHO takes great pride in our professionalism and approach to every project. As such, and with over 2,700 projects completed or in production as of December 2023, we have not had one single occurrence of litigation with any of our clients nor have we been named as a defendant or co-defendant in a lawsuit in the last five years.





Tab 11

Minority Business



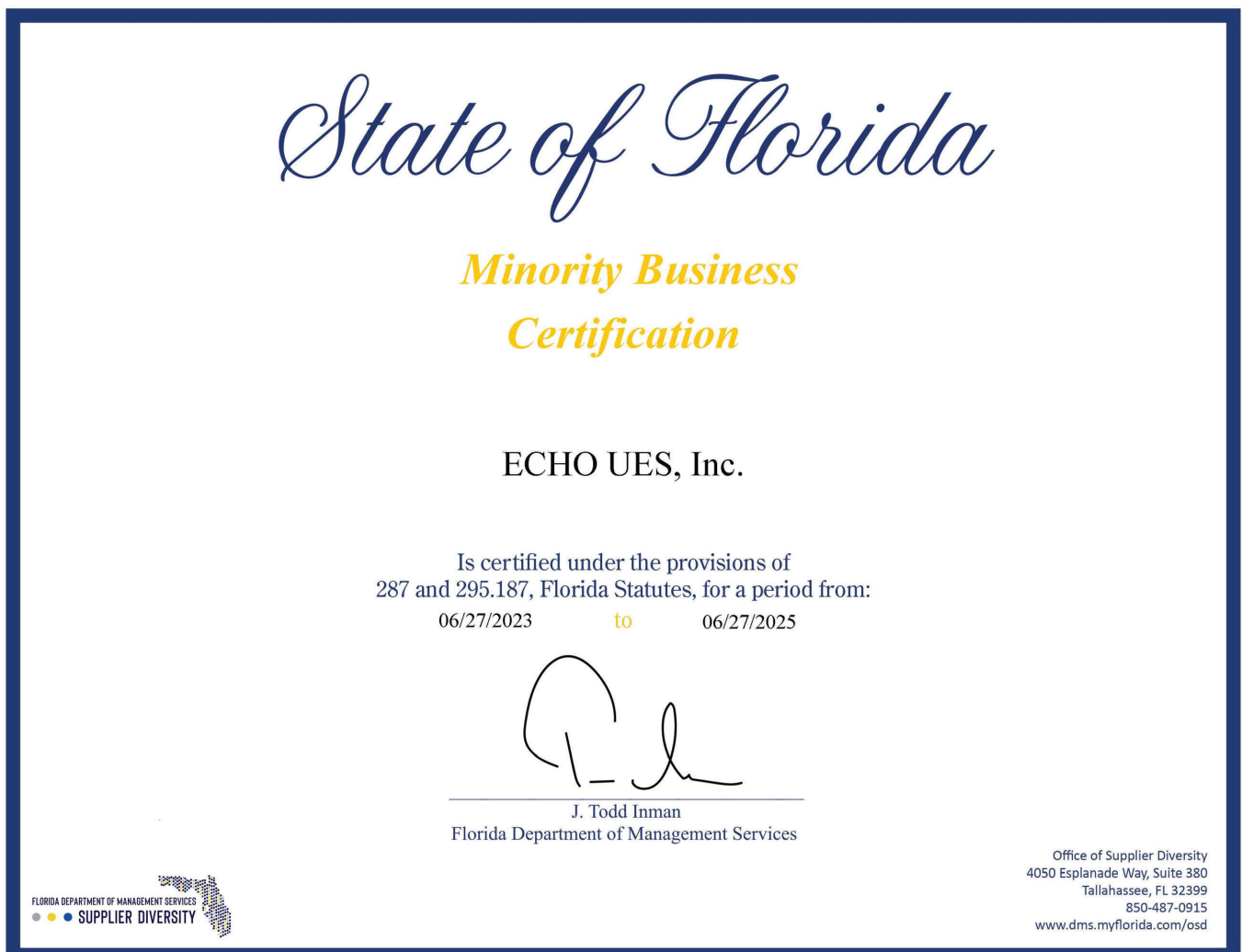
Firm Certifications

ECHO qualifies as an MBE (Minority Business Enterprise) and takes pride in our leadership representing their cultural heritage while leading a successful business.

ECHO is a certified MBE with the State of Florida Office of Supplier Diversity, and a certified DBE with the Florida Unified Certification Program. President, Jerry Comellas, Jr., PE is our qualifying agent for our MBE and DBE status with the above-named entities.

Along with ECHO, EPIC is a certified MBE with the State of Florida Office Supplier of Diversity.

ECHO MBE Certification



Firm Certifications

ECHO DBE Certification



March 21, 2023

RE: ECHO UES, Inc.

ANNIVERSARY DATE: March 31

The Hillsborough County Aviation Authority (Authority) has approved the No Change Declaration for **ECHO UES, Inc.** and determined that the firm continues to meet DBE eligibility in accordance with the Authority's DBE Policy and Program.

In order to remain certified and in good standing, you must annually submit a No Change Declaration. The Authority will send a declaration form 60 days prior to the firm's next anniversary date.

Should the submitted information change, you are required to notify the Authority within 30 days of the change.

Note: Pursuant to 49 CFR Part 26.83(i), whenever there are any changes in circumstances affecting your firm's eligibility status, your firm must provide written notification to the Authority within 30 days of the occurrence of the change. If you fail to make timely notification, it may result in the loss of your firm's certification.

If you have any questions or concerns, please do not hesitate to call contact me by telephone at 813-801-6023 or by email.

Sincerely,

A handwritten signature in cursive script that reads "Bonnie Yauilla".

Bonnie Yauilla / Tampa International Airport / Business Diversity Specialist

Primary: (813) 801-6023 | Cell: (813) 947-0943 | Email: byauilla@tampairport.com

Firm Certifications

ECHO DBE Certification

(Continued)



GREATER ORLANDO
AVIATION AUTHORITY



Florida Unified Certification Program

Disadvantaged Business Enterprise (DBE)

Certificate of Eligibility

ECHO UES, INC.

MEETS THE REQUIREMENTS OF 49 CFR, PART 26

APPROVED NAICS CODES:

541330 – Engineering Services
541360 – Geophysical Surveying and Mapping Services
541370 – Surveying and Mapping (except Geophysical) Services

3-31-17
DATE:


By: Cheryl L. Hawkins, Business Diversity Manager



Firm Certifications

EPIC MBE Certification

State of Florida

***Minority Business
Certification***

EPIC Engineering & Consulting Group, LLC

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:
07/07/2023 to 07/07/2025



J. Todd Inman
Florida Department of Management Services



Office of Supplier Diversity
4050 Esplanade Way, Suite 380
Tallahassee, FL 32399
850-487-0915
www.dms.myflorida.com/osd