

# Request for Qualifications / RFQ 23-004

## City of Key West PROFESSIONAL SURVEYING SERVICES

March 29<sup>th</sup>, 2023

# Request for Qualifications RFQ #23-004 Professional Surveying Services

## Submittal Content

- Table of Contents
- Cover Letter
- Information Page
- Organization Chart
- Company Information
- Methodology and Approach
- Personnel
- Qualifications
- Representative Surveyors Experience and Client References
- Sworn Statements and Affidavits
- Licenses and Certificates
- Addendums



# TABLE OF CONTENTS



Cover Letter	Page 2
Information Page	Page 3
Organization Chart	Page 4
Company Information	Page 5
Methodology and Approach	Pages 6 - 8
Personnel	Pages 9 - 20
Qualifications	Pages 21 - 28
Representative Surveyors Experience and Client References	Page 29
Sworn Statements and Affidavits	Page 30 - 40
Licenses and Certificates	Page 41
Addendums	Pages 42 - 43



## COVER LETTER



**Responsiveness, Accuracy, Value, and Speed, without ever compromising Quality and Safety. These are the variables that make a great Professional Surveying Continuing Services Contract Team. We know because we effectuate exactly this type of work, with precision, for public institutions and agencies across South Florida, and we've been doing it for 19 years.**

Longitude Surveyors, LLC (Longitude), through this professional services agreement, is ready to contribute to the City of Key West in its mission to serve the community. As you read through our submittal, you'll find our rapid-response team of professionals that maintain the qualifications and past experience that will ensure we get to work on day 1, with a can do attitude that helps us serve as true extension of your staff, and a clear focus on why we do what we do. This affinity to proactively support our clients through our continuing service contracts is at the heart of our capacity to engage in projects, both planned and unplanned, that will occur during the next several years.

Longitude is a group of highly specialized professionals, up-to-date with surveying standards, and uniquely qualified to deliver all tasks in a timely fashion and within budget. We survey using the most advanced techniques while still staying true to basic surveying principles.

Our team is specifically qualified and experienced in the performance and delivery of exactly this type of contract for several reasons - the two most relevant of which include:

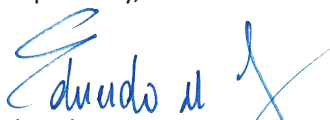
- 1. As one of South Florida's premier minority-owned small businesses, we've been effectuating professional surveying and mapping services under continuing-type agreements in support of local and State agencies for 19 years, without ever compromising quality and safety.**
- 2. Longitude has built good business relationships with local utilities and regional regulatory agencies, saving valuable time for your projects and understanding of the City's workflows and processes, working knowledge of local, regional, State and national process and best practices all of which are critically necessary to address the typical challenges associated with the work ahead, both quickly and effectively (including budget and schedule concerns)**
- 3. As our Firm's President, I will serve as your Executive Project Manager and primary point of contact. Much of my career includes surveying and mapping work specifically throughout Monroe County providing surveying services from our local office.**

This unique degree of understanding affords our team the essential empathy that will drive us to exceed your expectations and provide the City of Key West with the professional surveying and mapping services it requires to successfully execute each project's vision and intent. We bring a "no-learning-curve" capacity to effectuate each task order [to be assigned under this contract] in a way that allows us to anticipate and apply our resources proactively, regardless of size and complexity, to ensure its completion is within budget and on schedule – all while providing exceptional staffing, comprehensive execution of project specifics, and thorough management plans with superior quality control and assurance weaved in.

As the Executive Project Manager for this contract, and as **Longitude's** President, I'm 100% committed to the success of this effort. I have the direct authority to commit our firm's staff and resources, as necessary under this service contract.



Respectfully,

  
Eduardo M. Suarez, PSM  
President / CEO  
Longitude Surveyors, LLC

# INFORMATION PAGE

Longitude Surveyors, LLC

## Monroe County Office

31 Ocean Reef Drive  
Suite C-207  
Key Largo, FL 33037

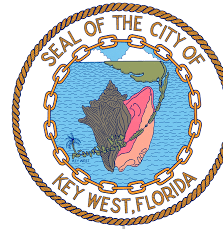
Eduardo M. Suarez, PSM - Executive Project Manager / Authorized Representative

Ph: 305.463.0912

Email: [esuarez@longtiudefl.com](mailto:esuarez@longtiudefl.com)



# ORGANIZATION CHART



Eduardo M. Suarez, PSM  
Executive Project Manager

Darryl Hauser, PSM  
QA/QC Manager

John H. Adler, III, PSM  
Sr. Surveyor / SUE Special

Luis Gutierrez, PSM  
Project Surveyor

Telva Morejon  
Right-of-Way Analyst

Richard Cooke  
Senior Survey Technician

Roni Eniste  
Senior Survey Technician

**AutoCAD Drafters**

Jose Monzon  
Jose Garriga-Batista  
Saily Sanchez Fernandez  
Diana Rosa Sanchez

Jesse Ramon  
Field Crew Supervisor

**Party Chiefs**

Angel Fortun  
Manuel Lorenzo  
Marlon Centeno  
Lester Rodriguez  
Arian Martin  
Frank Castillo  
Christian Martinez

**Survey Crew**

Survey Technicians Level 3  
Four (4) Man Crew

Survey Technicians Level 2  
Four (4) Man Crew

Survey Technicians Entry Level  
Three (3) Man Crew

## COMPANY INFORMATION



Longitude Surveyors, LLC (Longitude) is a professional minority/small business-owned (SBE) surveying practice. Since our incorporation in 2004, we've had the privilege of serving the residents, businesses, and municipalities of Monroe County.

### HISTORY OF THE FIRM

Longitude's founder and president, Eduardo "Eddie" Suarez, began his surveying career working on projects for the Florida Department of Transportation (FDOT) District 6. Through this early experience, Eddie gained intimate surveying knowledge working as an Instrument Person, and eventually a Crew Chief, throughout Monroe County and throughout the Florida Keys. He then worked for almost five (5) years as the lead surveyor for the Miami-Dade County Department of Solid Waste Management (DSWM). As a Professional Surveyor and Mapper, he opened his practice in 2004.

Today Longitude is a 40+ person firm and is one of the leading Surveying and Mapping firms serving both the public and private sector across South Florida. Since its inception in 2004, Longitude has earned a reputation of being a valuable partner, providing quality deliverables, in a cost-effective and timely manner. Longitude has had the privilege of also serving South Florida's A/E community, working on some of our community's most critical infrastructure, and iconic projects - valued at over 5 million dollars' worth of surveying and mapping services, across the following municipalities:

- Monroe County
- City of Key West
- Key Largo
- City of Marathon
- Big Pine Key
- Stock Island
- Treasure Island
- Florida City
- City of Coconut Creek
- City of Coral Gables
- City of Doral
- City of Hallandale
- City of Hialeah
- City of Homestead
- City of Miami
- City of Miami Beach
- City of Miami Gardens
- City of Miami Springs
- City of North Miami
- City of North Miami Beach
- City of South Miami
- City of Sunny Isles Beach
- City of Sweetwater
- El Portal
- Indian Creek
- MDX
- Miami Shores
- Miami-Dade County
- City of Opa-Locka
- South Florida Water Management District
- Village of Cutler Bay
- Village of Key Biscayne
- Village of Palmetto Bay
- Village of Pinecrest

We offer a broad array of surveying and mapping services, and ancillary support services. Our in-house team has successfully effectuated work that includes:

- Surveying & Mapping
- Boundary Surveys
- Topographic Surveys
- Alta Surveys
- As-Built Surveys
- DEP Surveys
- Mean High Water Line (MHWL) Surveys
- Construction Engineering Inspection (CEI) Surveys
- Right-of-Way Determinations
- Elevation Certificates
- Monument Placement
- Structure Settlement Monitoring
- City Platting Permitting
- Construction Layout
- SUE (Sub-Surface Utility Engineering), Marking Underground Utilities, Soft Digs
- Drone Data Capture And Photogrammetry Technology
- Sketch and Legal Description
- 3D Scanning Services
- Platting
- Beach Surveying and Mapping
- Lake, Canals and Riverian Bathymetry
- Coast Shore Bathymetry

## METHODOLOGY AND APPROACH

Longitude has multiple professional services continuing contracts for public agencies throughout South Florida, including but not limited to:

- City of Homestead
- City of Coral Gables
- City of Miami Beach
- Town of Southwest Ranches
- Florida Department of Transportation (FDOT) District 6 (x2)
- Miami-Dade County Water and Sewer Department

We recognize that each task under this contract will have its own expectations that need to be understood, and then exceeded. This begins with clear communication with the City officers for a full understanding of the scope and schedule in order to create the task road map. With this in mind, we select the most effective methodology to attain the required deliverables.

Our project management approach paired with our sufficiency in resources and technology, ensures that reasonable time frames are set to meet deadlines. Schedules and costs will be managed in our project management software. Project managers will identify critical path and monitor tasks costs and overall performance.

Our presence in the Florida Keys roots to year 2016. We have continuous collaboration and interfacing with Monroe County in various capacities. Therefore, we can anticipate and resolve concerns before they become serious issues. Our services towards this contract begins with opening a strong line of communication with the City’s Officers and introduction of the key personnel from our team. Honest, proactive communication is, and will always be, the cornerstone of successful execution and problem resolution.



Our key personnel, project managers, surveyors, and specialists, will be on call, making sure that tasks run smoothly and as expected. Project status and budget will be addressed in our weekly meetings, and we will report to the City officials with the frequency agreed during negotiation.

Having completed similar projects for government entities, as well as for some of the largest private, organizations throughout South Florida, has afforded us the perspective needed to fulfill all assignments under this contract with quality, and in a timely manner - resulting in a unique and authentic positive experience for task requirements for the City of Key West. We’ll work diligently to provide you with high-value services, by seeking to understand your needs and work to exceed them, and by working to seamlessly integrate as an extension of your staff.

Our approach to servicing continuing-type contracts is characterized under two areas of focus:

1. To simplify streamline our processes in ways that adjust to the City’s requirements, and by assigning the most qualified individuals to each work/task, without reassigning them to other clients. These two conditions allow our members to constantly improve their capacity to perform more efficiently. This approach has proven effective when applied to task-order-driven contracts, and has provided us with an organic methodology that guides our professionals in effectuating their work. It serves to set the priority of developing an internal organizational structure designed to specifically the City’s requirements, as outlined in our organizational chart.
2. The second; to prioritize and establish clear lines of communication, responsibility, and accountability, as well as the methods by which all tasks are assigned, managed and delivered.

### MANAGEMENT APPROACH

A well-structured management system is the corner stone of our company’s long-term business life and it is periodically evaluated to meet the client and stakeholders requirements. A lean, proactive and proved project experience approach



mitigates learning curves and is the foundation for continuous improvement and efficient allocation of resources. Lines of authority are well defined, decisions are fact-based, all processes are established using ISO standards, systematic performance reviews are conducted, and a rigorous hiring process is established. This management approach supports the technical and professional of our personnel capabilities and focuses on streamlining our response to the City's requirements and challenges.

### PROJECT UNDERSTANDING AND TECHNICAL APPROACH

Longitude Surveyors is widely recognized for successfully delivering projects on time and error free. We are excited about this opportunity to provide surveying services to the City of Key West. Eduardo M. Suarez, PSM will be the contact point and Executive Project Manager. He will guarantee that sufficient resources are allocated and that our team performs in compliance with contract requirements. He will proactively oversee this contract to ensure that risks are minimized and milestones are met, he'll coordinate progress meetings with the City and stakeholders, provide weekly reports and be available 24/7 in order to handle emergencies, if necessary.

We understand that each survey project is different. Regardless of the complexity, technology, or discipline, our approach will be steered by the following fundamental guidelines:

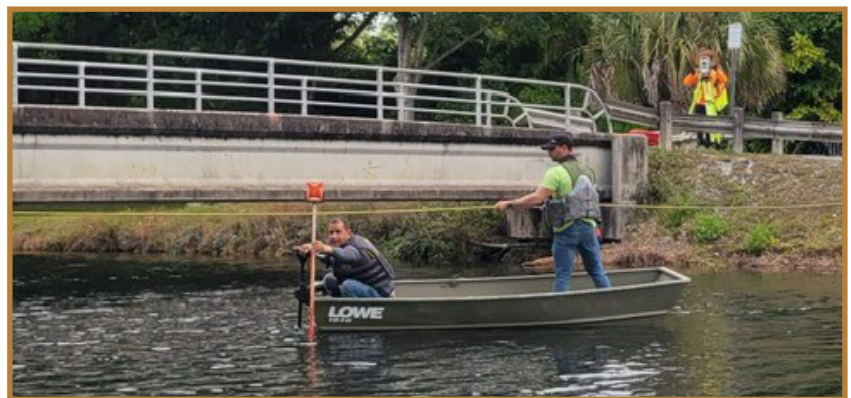
- Establish clear lines of communication with the City's Project Manager and be available for general consultation and advice.
- Establish effective coordination between team members.
- Maintain adequate staff of qualified personnel.
- Clearly define Scope of Work, scheduling, budget, and responsibilities.
- Compliance with latest applicable standards: Federal/State/Municipal and Departmental.
- Technical execution with the highest level of accuracy.
- Implementation of a rigorous QA/QC plan.
- Maintain records of all technical and administrative documentation.

### OUR RAPID RESPONSE APPROACH

This Rapid Response Project Delivery Approach will enhance the capability of the City to address a high volume of related project assignments and "fast-track" the projects no matter the type, size or complexity. Our organization will enable our team to seamlessly act as an extension of staff to the City. As always, all project assignments will implement our Project Execution and Management Plans and Quality Control Plans to ensure that all deliverables are of the highest quality and exceed the City's expectations.

### SAFETY

Safety is a constant focus in our daily operations. We spend considerable amount of time in educating our staff in safety issues that extend to awareness of the surroundings for equipment and personal safety. Our field crews receive safety training regularly. TTC/MOT, working in confined spaces, and in OSHA General Industry and construction safety.



### PROJECT DOCUMENT CONTROL

Longitude has an established standard protocol for the management of project documentation. This protocol includes procedures for receiving, storing, transmitting, and tracking all project documents (technical and administrative). Our Project Document Control procedures ensures the City of Key West that all the information related to this contract will be managed accordingly.

### SCHEDULING AND BUDGET MANAGEMENT

As a leading provider of comprehensive land surveying services and with our extensive experience in small and large scale projects, we can anticipate issues and affirm reasonable project schedules and executable time frames. We take into account the many factors included in a surveying process, even the unpredictable weather conditions. Your Executive Project Manager

will monitor weekly project data to ensure that schedule and budget goals are met.

**PLANS REVIEW**

Our review process includes: Drafting and plotting depicted information for checking geometry, accuracy and validation of data. Land records research is effectuated to verify legal descriptions, land titles, agreements, existing easements, platted lines, plat restrictions, Right of Way Maps, FDOT Maps, and verification of applicability of instruments of record, location of platted lot lines, property lines and folios for abutting parcels if applicable, and verification of jurisdictional/municipality boundaries.

We verify information against field notes and compare with inspector’s redlines and reports. We confirm the sufficiency and adequacy of horizontal and vertical control points, reference points and base lines points. We check scales, certifications, notes on Surveyor’s Reports, neatness, clarity, and overall quality of the product.

We collect, process, and certify accurate real time data, with value added data sets, that are essential in the making of intelligent decisions in land acquisitions, engineering design, construction, and development of sustainable infrastructure. Longitude is committed to support the City of Key West with comprehensive land surveying services that meet and exceed the required minimum qualifications and experience. Our staff is ready to work!. We offer unparalleled responsiveness, experience and expertise to successfully execute and manage the surveying services anticipated by this contract. We have the ability to communicate effectively and a proven track record of successful interaction and collaboration with other surveying and engineering professionals.

Our lean project management approach paired with our sufficiency in resources and technology, ensures that reasonable time frames are set to meet deadlines. Schedules and costs will be managed. Our project team will identify critical path and monitor tasks costs and overall performance. Technology advances have given sophistication and promptness to our profession however, the roots of surveying stay unchanged. Longitude’s office and field procedures remain true to basic surveying principles as we, every day, master the integration of conventional methods with most advanced geospatial data collection and mapping tools. The following is a list of the technology that Longitude utilizes in house:

**TECHNOLOGY**

- Autodesk Civil3D 2020
- Carlson Survey with Intellicad 2020
- Carlson SurvCE Data Collectors
- Microstation V8i
- Leica Total Station Instruments
- Faro 3D Scanner
- Faro 3D Scene Scanner Registration Software
- Electronic Level by Leica
- GPS Systems
- Drone Deploy
- Pix 4D



## PERSONNEL

### EDUARDO M. SUAREZ, PSM EXECUTIVE PROJECT MANAGER / PRINCIPAL



#### INDUSTRY TENURE

38 years

#### LONGITUDE TENURE

19 years

#### EDUCATION

AA, Miami Dade College (1993)

#### REGISTRATIONS

Professional Surveyor and  
Mapper FL License No. LS6313  
(2001)

#### AFFILIATIONS

Florida Surveying and  
Mapping Society  
Member

Florida Engineering Society  
Board Member

America Society of Civil Engineers  
Member

Utility Engineering Surveying  
Institute  
Member



Eduardo (Eddie) Suarez, PSM, founder, and principal of Longitude Surveyors, is a Licensed Professional Surveyor with 38 years of experience providing multiple surveying services. He began his surveying career working on projects for the Florida Department of Transportation (FDOT) District 6. Through this early experience, Eddie gained intimate surveying knowledge working as an Instrument Person and eventually a Crew Chief throughout South Florida. He then worked for almost five (5) years as the lead surveyor for the Miami-Dade County Solid Waste Department until he passed the state exam, earned his license as a Professional Surveyor and Mapper, and opened his practice in 2004.

#### **Boca Chica/NAS Key West Pump Station and FM Extension, Naval Air Station, Key West, FL**

Longitude Surveyors (LS) prepared a topographic survey to include the following information: LS provided right-of-way information, identification of grade utilities, manholes, drainage inlets, signs, edge of the pavement, surfaces, and all above-ground appurtenances within the survey limits. LS obtained topographic elevations at every 100 feet, high-low points, and rim elevations within the survey limits. All elevations were referenced to the National American Vertical Datum 1988 NAVD 88 datum). LS confirmed existing pipe invert elevations, pipe direction, and apparent pipe diameters at all existing drainage and sewer structures within the survey limits. Longitude also performed Subsurface Utility Engineering (SUE) services.

#### **Design and Permitting for the Sea Level Rise Pilot Project, Monroe County, Key Largo, FL**

Longitude Surveyors performed a Topographic Survey for the Sea Level Rise Pilot Project along Lake Street and Shaw Drive; then northerly along Shaw Drive to Crane Street; then easterly along Crane Street to Adams Drive; then northerly along Adams Drive to its termination all lying within Key Largo, FL and Big Pine- Fathers Way and D Avenue.

#### **Engineering Design and Permitting for the Stock Island Roadway Improvement Monroe County, FL**

Longitude Surveyors (LS) performed a full topographic survey and subsurface utility engineering (SUE) services. LS collected asphalt pavement, sidewalks, pavement markings, signs, trees, above-ground evidence of underground utilities, drainage structures with invert information, driveways, roadway signs, etc. LS performed cross-sections at 100-foot intervals. Cross-sections included the following elevations; at the centerline, edge of the pavement, top of the curb, back of the sidewalk, low and high points, lane line, and drainage ditches. LS recovered and re-established right-of-way monumentation to provide right-of-way lines throughout the project's limits. To do this, we performed field recovery of centerline control and property corners throughout the survey limits—located trees with a 3-inch diameter trunk or larger. Vegetation lines were also located. LS collected rim, bottom, and invert elevations, pipe size, and material of all existing sanitary sewers' manholes, drainage culverts, manholes, and catch basins were provided. Located and showed the soil boring test holes in coordination with the Geotechnical sub-consultant. Located and showed wetlands in coordination with the Environmental sub-consultant. LS labeled the ground material (asphalt, sod, concrete, etc.)

**Coastal Resilience Study FDEP Grant, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) participated in a coastal resilience study FDEP grant to be conducted for the City of Marathon. Longitude experts were responsible for field data collection using UAV technology. LS prepared the following for the City of Marathon: Digital elevation model; Orthomosaic aerial; topography (contours, etc.); 3D model (OBJ and Point Cloud).

**Overseas Highway (2188 Overseas Highway) site to Gulfview Road, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) performed a route survey. LS established right-of-way lines. LS created a graphic baseline and included it in the CADD file. Located all above-ground improvements such as; but not limited to utilities, power poles, signs, tree lines, asphalt paths, fences, driveways, sidewalks, light poles, curb and gutters, signal mast arms, and any other significant above-ground features found within the survey limits. LS included the depth and location of all underground utilities crossing the Overseas Highway. Collected across section elevations at 100-foot intervals and visible high/low points with the survey limits, located on the edge of pavements within the survey limits. LS called in, designating tickets for all the utilities within the survey limits.

**Tenant Sewer Laterals at the Marathon Airport, FL** - Longitude Surveyors performed a Topographic Survey that included the following; Property boundaries, easements, and rights of way, above ground utility structures, improvements such as buildings, pavement, gravel surfaces, drainage features (ditches and culverts), fences, etc. Vegetation such as trees, shrubbery, grass, planting, etc., underground utility facilities as provided by utility locates. FDOT, City and County street and highway right of way lines. Location of sewer laterals leaving the tenant buildings, where visible or as identified by airport or tenant staff. Locations of onsite sewerage treatment and disposal systems or components thereof (septic tanks) identified by airport or tenant staff. Location of the stub out was verified as shown on the record drawings and a photo was provided of the stub out. Longitude was responsible for utility locates and coordination with Airport.

**CEI Survey Services for SR 25/Okeechobee Road from East of NW 107 Avenue to East of NW 116 Way - Add Lanes & Rehabilitate Pavement, FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional miscellaneous construction survey services under this contract with the Florida Department of Transportation (FDOT) District 6. The services under this contract consist of field surveys for construction projects. The surveys include but are not limited to the re-establishment of survey baselines, control points, benchmarks, drainage surveys and bridge data, original and final cross-sections, mast arm bearings, etc. Other services include performing and completing field surveys necessary to prepare right-of-way control surveys, right-of-way maps, legal descriptions, and engineering design surveys.

**Districtwide Miscellaneous Location Survey Consultant (BDI), FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional surveying & mapping services to support topographic and mapping projects as directed and/or inquired by the Florida Department of Transportation (FDOT) District 6. Longitude Surveyors performs the following services as described below: Control Surveying - Project Control Network; Right-of-Way Mapping – Right-of-Way Control Survey Maps, Acquisition Right-of-Way Maps, Maintenance Maps, Retracement, recovery and analysis of historical baselines of Survey, Boundary Surveys, Parcel Sketches, Legal Descriptions, Properties Title Analysis and Design, Right of Way, Construction Survey - Design level surveys, specific purpose surveys, acquisition parcel stakeout.

**Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL** - The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.



## JOHN H. ADLER III, PSM SENIOR SURVEYOR / SUE

John Adler, PSM has 38 years of surveying experience in the State of Florida. He has worked in the field, providing technical support, and has managed thousands of surveying projects. From 1989 to 2012. Now in the capacity as a Senior Surveyor, Mr. Adler manages all Sub-Surface Utility Engineering (SUE) projects and provides Project Management and QA/QC for large-scale projects.

### INDUSTRY TENURE

38 years

### LONGITUDE TENURE

10 years

### EDUCATION

AA, Palm Beach College (1984)

### REGISTRATIONS

Professional Surveyor and Mapper  
FL License No. LS4693

### AFFILIATIONS

Florida Surveying and  
Mapping Society - Member

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**Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL** - The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.



**INDUSTRY TENURE**

33 years

**LONGITUDE TENURE**

5 years

**EDUCATION**

BS, Surveying & Mapping  
University of Florida (1990)

Post Baccalaureate Study (1992)

**REGISTRATIONS**

Professional Surveyor and Mapper  
FL License No. LS6277

Darryl J. Hauser has been in the Land Surveying profession in South Florida for the past 33 years. Mr. Hauser has a diverse background that includes experience in both the public and private sectors. In addition, Mr. Hauser has expertise in project management, construction administration, and quality assurance/quality control as well as Florida Department of Transportation procedures.

**Boca Chica/NAS Key West Pump Station and FM Extension, Naval Air Station, Key West, FL** - Longitude Surveyors (LS) prepared a topographic survey to include the following information: LS provided right-of-way information, identification of grade utilities, manholes, drainage inlets, signs, edge of the pavement, surfaces, and all above-ground appurtenances within the survey limits. LS obtained topographic elevations at every 100 feet, high-low points, and rim elevations within the survey limits. All elevations were referenced to the National American Vertical Datum 1988 NAVD 88 datum). LS confirmed existing pipe invert elevations, pipe direction, and apparent pipe diameters at all existing drainage and sewer structures within the survey limits. Longitude also performed Subsurface Utility Engineering (SUE) services.

**Engineering Design and Permitting for the Stock Island Roadway Improvement Monroe County, FL** - Longitude Surveyors (LS) performed a full topographic survey and subsurface utility engineering (SUE) services. LS collected asphalt pavement, sidewalks, pavement markings, signs, trees, above-ground evidence of underground utilities, drainage structures with invert information, driveways, roadway signs, etc. LS performed cross-sections at 100-foot intervals. Cross-sections included the following elevations; at the centerline, edge of the pavement, top of the curb, back of the sidewalk, low and high points, lane line, and drainage ditches. LS recovered and re-established right-of-way monumentation to provide right-of-way lines throughout the project's limits. To do this, we performed field recovery of centerline control and property corners throughout the survey limits—located trees with a 3-inch diameter trunk or larger. Vegetation lines were also located. LS collected rim, bottom, and invert elevations, pipe size, and material of all existing sanitary sewers' manholes, drainage culverts, manholes, and catch basins were provided. Located and showed the soil boring test holes in coordination with the Geotechnical sub-consultant. Located and showed wetlands in coordination with the Environmental sub-consultant. LS labeled the ground material (asphalt, sod, concrete, etc.)

**Coastal Resilience Study FDEP Grant, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) participated in a coastal resilience study FDEP grant to be conducted for the City of Marathon. Longitude experts were responsible for field data collection using UAV technology. LS prepared the following for the City of Marathon: Digital elevation model; Orthomosaic aerial; topography (contours, etc.); 3D model (OBJ and Point Cloud).

**Overseas Highway (2188 Overseas Highway) site to Gulfview Road, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) performed a route survey. LS established right-of-way lines. LS created a graphic baseline and included it in the CADD file. Located all above-ground improvements such as; but not limited to



utilities, power poles, signs, tree lines, asphalt paths, fences, driveways, sidewalks, light poles, curb and gutters, signal mast arms, and any other significant above-ground features found within the survey limits. LS included the depth and location of all underground utilities crossing the Overseas Highway. Collected across section elevations at 100-foot intervals and visible high/low points with the survey limits, located on the edge of pavements within the survey limits. LS called in, designating tickets for all the utilities within the survey limits.

**Tenant Sewer Laterals at the Marathon Airport, FL** - Longitude Surveyors performed a Topographic Survey that included the following: Property boundaries, easements, and rights of way, above ground utility structures, improvements such as buildings, pavement, gravel surfaces, drainage features (ditches and culverts), fences, etc. Vegetation such as trees, shrubbery, grass, planting, etc., underground utility facilities as provided by utility locates. FDOT, City and County street and highway right of way lines. Location of sewer laterals leaving the tenant buildings, where visible or as identified by airport or tenant staff. Locations of onsite sewerage treatment and disposal systems or components thereof (septic tanks) identified by airport or tenant staff. Location of the stub out was verified as shown on the record drawings and a photo was provided of the stub out. Longitude was responsible for utility locates and coordination with Airport.

**CEI Survey Services for SR 25/Okeechobee Road from East of NW 107 Avenue to East of NW 116 Way - Add Lanes & Rehabilitate Pavement, FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional miscellaneous construction survey services under this contract with the Florida Department of Transportation (FDOT) District 6. The services under this contract consist of field surveys for construction projects. The surveys include but are not limited to the re-establishment of survey baselines, control points, benchmarks, drainage surveys and bridge data, original and final cross-sections, mast arm bearings, etc. Other services include performing and completing field surveys necessary to prepare right-of-way control surveys, right-of-way maps, legal descriptions, and engineering design surveys.

**Districtwide Miscellaneous Location Survey Consultant (BDI), FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional surveying & mapping services to support topographic and mapping projects as directed and/or inquired by the Florida Department of Transportation (FDOT) District 6. Longitude Surveyors performs the following services as described below: Control Surveying - Project Control Network; Right-of-Way Mapping – Right-of-Way Control Survey Maps, Acquisition Right-of-Way Maps, Maintenance Maps, Retracement, recovery and analysis of historical baselines of Survey, Boundary Surveys, Parcel Sketches, Legal Descriptions, Properties Title Analysis and Design, Right of Way, Construction Survey - Design level surveys, specific purpose surveys, acquisition parcel stakeout.

**Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL** - The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.





Mr. Luis Gutierrez has managed numerous projects over his career with varying scopes and degrees of accuracy. He is a highly skilled and educated Civil Engineer professional Surveyor & Mapper with a diversified background in Consulting, Design, Planning, and Construction. His experience includes Boundary and Topographic Surveys, Right-of-Way Mapping, Platting, Geodetic Control and Datums, As-builts, Easements and QA/QC of survey products, SUE, and comprehensive survey-related services for roadways, water, and wastewater infrastructure at the design stage, during construction, post-construction, close-out, and conveyance, among others.

**INDUSTRY TENURE**

40

**LONGITUDE TENURE**

6 months

**EDUCATION**

AA, Miami-Dade College (2008)

BS, Civil Engineering, Florida International University (2013)

Certified FSESCI-FDEP

**REGISTRATIONS**

Professional Surveyor and Mapper FL License No. LS7336 (2021)

**AFFILIATIONS**

Florida Surveying and Mapping Society Member

Florida Engineering Society Member

America Society of Civil Engineers Member

Utility Engineering Surveying Institute Member



**NW 17<sup>th</sup> Avenue Bridge over Miami River Project Development and Environment Study, Miami-Dade County Department of Transportation, Miami, FL** - This project consisted of the rehabilitation and/or replacement of the existing NW 17<sup>th</sup> Avenue Bridge (Bridge No. 874161). Longitude Surveyors performed a topographic control survey.

**SW 69 Street & SW 63 Avenue Drainage Improvements, City of South Miami, Miami, FL** - Longitude Surveyors (LS) showed rights-of-way computing field evidence, plats, deeds, and other documentation relative to the project. All lot lines and ownership lines within the survey limits were shown graphically. LS established horizontal and vertical control within the limits of the survey. Elevations were collected equivalent to a twenty-five (25) foot grid throughout the survey limits. LS collected all the following above-ground improvements; pavement, sidewalks, curb and gutters, driveways, medians, round-about, hedges and general limits of shrubbery, mailboxes, trees, palms, fences, signs, poles, above-ground structures and utilities, overhead lines, etc.

**Indian Creek Drive & 69 Street Pump Station, City of Miami Beach, Miami Beach, FL** - Longitude Surveyors (LS) performed a boundary analysis and showed rights-of-way computing field evidence, plats, deeds, and other documentation relative to the project. LS showed any easements, dedications, covenants, restrictions, etc. that were found on plats, deeds, and other public records relative to the project. LS located all significant aboveground improvements including but not limited to: pavement, sidewalks, driveways, ramps, curb and gutters, parking spaces, medians and median islands, trees and palms, hedges and general limits of shrubbery, fences and walls, signs, poles, dumpsters and dumpster pads, manholes, catch basins, fire hydrants and fire connectors, guardrails, bollards, trash receptacles, benches and chairs, bus stops, bicycle racks, post boxes and newspaper stations, parking meters, planters, valves/valve boxes, electrical boxes, aboveground structures and utilities, overhead lines, guy wires and guy anchors and any other significant aboveground improvements within the limits of the survey. LS located the pump station within the survey limits and collected driveway locations, bollards, stair locations, electrical components and hatch locations. Top of slab elevation, rim elevation and invert elevation were also collected. Elevations were collected equivalent to a twenty-five (25) foot grid throughout the survey limits and was included, at a minimum, the crown of road, edge of pavement, back of sidewalk and top of curb. LS collected existing drainage and sanitary structures and showed rim elevation, structure bottom elevation, pipe size, pipe material, pipe direction, pipe diameter, direction of water flow and invert elevations.

**Central District Wastewater Treatment Plant Miami-Dade County Water and Sewer Department, Key Biscayne, FL -** Longitude is providing surveying work for the Thickening and Dewatering Building at the Central District Waste Water Treatment Plant. Locating and identifying all improvements including, but not limited to, asphalt pavement, pavement markings, buildings, concrete slabs, sidewalks, hydrants, valve boxes, water/electrical meter boxes, electrical pull boxes, telephone/cable risers, fences, guy wires, Utility poles, overhead electrical lines, culverts, guardrails, pavement limits, landscaping, trees three inches in diameter or greater, traffic signage, other signage, pavement striping and any other visible improvements within the project limits and any other utility records. Locate and provide permanent construction controls on-site in state plane coordinates and vertical control based on the national geodetic vertical datum of 1929 (NGVD2g). Platted rights-of-way monumentation and re-establishment to provide rights-of-way lines throughout the project's limits. This requires field recovery of centerline control and property corners through each listed street. ADTM of the areas equivalent to a 20-foot grid, including elevations at the centerline, edge of the pavement, top of the curb, back of the sidewalk, low and high points, lane line, and drainage ditches (when applicable).

**SW 88 Street (Kendall Drive) between Florida Turnpike & SW 112<sup>th</sup> Avenue, FDOT District 6, Miami, FL –** Scope of services for this project consisted of topographic survey, control survey, project network control, right-of-way mapping, right-of-way and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**NE 163<sup>rd</sup> Street Bridges from NE 34<sup>th</sup> Avenue to SR AIA Collins Avenue, FDOT District 6, Miami, FL -** Scope of services for this project consisted of topographic survey, control survey, project network control, right-of-way mapping, right-of-way and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**SW 40<sup>th</sup> Avenue between Griffin Road & Sterling Road, FDOT District 4, Broward County, FL -** Scope of services for this project consisted of topographic survey, control survey, project network control, right-of-way mapping, right-of-way and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**SW 48 Avenue between NE 215 Street and Pembroke Rd, City of Parkland, Broward County –** Scope of services for this project consisted of a 1 mile topographic survey including survey control, project network control, public record research, right-of-way mapping, survey baseline and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**Miramar Parkway, Pembroke Rd, SW 172<sup>nd</sup> Avenue, 184<sup>th</sup>, City of Miramar, Broward County –** Scope of services for this project consisted of 6 miles topographic survey including survey control, project network control, public record research, right-of-way mapping, survey baseline and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**Weston Road between Griffin Rd and North New Circle, City of Weston, Broward County –** Scope of services for this project consisted of a 4 miles topographic survey including survey control, project network control, public record research, right-of-way mapping, survey baseline and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**City of Dania between US 1 SE 5<sup>TH</sup> Avenue, SE 7<sup>th</sup> Street and SE 3<sup>rd</sup> Street Rd, SW 172<sup>nd</sup> Avenue, 184<sup>th</sup>, City of Miramar, Broward County –** Scope of services for this project consisted of 6 miles topographic survey including survey control, project network control, public record research, right-of-way mapping, survey baseline and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

**Sheridan Street between SW 148<sup>nd</sup> Avenue and N. Flamingo Rd, City of Pembroke Pines, Broward County –** Scope of services for this project consisted of 2.5 miles topographic survey including survey control, project network control, public record research, right-of-way mapping, survey baseline and DTM. \*This project was performed by Mr. Luis Gutierrez while working with another firm.

## CARLOS CUNEO

### SENIOR SURVEY TECHNICIAN



#### INDUSTRY TENURE

40 years

#### LONGITUDE TENURE

16 years

#### EDUCATION

BS Surveying Engineering  
UDELAR, Uruguay, 1990

#### REGISTRATIONS

MOT Certified

Carlos Cuneo has 40 years of professional experience working on various land surveying projects. He has been responsible for ensuring best practices are followed and quality assurance goals are obtained. Carlos' experience in both the field and office assures clients receive quality and timely deliverables. Carlos has extensive knowledge and experience working with the private and public sectors. Topographic Surveys, As-Built Surveys, ALTA Surveys, Boundary Surveys, Scanning Surveys, are just a few of the various types of Surveys he has performed. The combination of Carlos' skills and experience ensure successful projects.

**Boca Chica/NAS Key West Pump Station and FM Extension, Naval Air Station, Key West, FL** - Longitude Surveyors (LS) prepared a topographic survey to include the following information: LS provided right-of-way information, identification of grade utilities, manholes, drainage inlets, signs, edge of the pavement, surfaces, and all above-ground appurtenances within the survey limits. LS obtained topographic elevations at every 100 feet, high-low points, and rim elevations within the survey limits. All elevations were referenced to the National American Vertical Datum 1988 NAVD 88 datum). LS confirmed existing pipe invert elevations, pipe direction, and apparent pipe diameters at all existing drainage and sewer structures within the survey limits. Longitude also performed Subsurface Utility Engineering (SUE) services.

**Engineering Design and Permitting for the Stock Island Roadway Improvement Monroe County, FL** - Longitude Surveyors (LS) performed a full topographic survey and subsurface utility engineering (SUE) services. LS collected asphalt pavement, sidewalks, pavement markings, signs, trees, above-ground evidence of underground utilities, drainage structures with invert information, driveways, roadway signs, etc. LS performed cross-sections at 100-foot intervals. Cross-sections included the following elevations; at the centerline, edge of the pavement, top of the curb, back of the sidewalk, low and high points, lane line, and drainage ditches. LS recovered and re-established right-of-way monumentation to provide right-of-way lines throughout the project's limits. To do this, we performed field recovery of centerline control and property corners throughout the survey limits—located trees with a 3-inch diameter trunk or larger. Vegetation lines were also located. LS collected rim, bottom, and invert elevations, pipe size, and material of all existing sanitary sewers' manholes, drainage culverts, manholes, and catch basins were provided. Located and showed the soil boring test holes in coordination with the Geotechnical sub-consultant. Located and showed wetlands in coordination with the Environmental sub-consultant. LS labeled the ground material (asphalt, sod, concrete, etc.)

**Coastal Resilience Study FDEP Grant, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) participated in a coastal resilience study FDEP grant to be conducted for the City of Marathon. Longitude experts were responsible for field data collection using UAV technology. LS prepared the following for the City of Marathon: Digital elevation model; Orthomosaic aerial; topography (contours, etc.); 3D model (OBJ and Point Cloud).



**Overseas Highway (2188 Overseas Highway) site to Gulfview Road, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) performed a route survey. LS established right-of-way lines. LS created a graphic baseline and included it in the CADD file. Located all above-ground improvements such as; but not limited to utilities, power poles, signs, tree lines, asphalt paths, fences, driveways, sidewalks, light poles, curb and gutters, signal mast arms, and any other significant above-ground features found within the survey limits. LS included the depth and location of all underground utilities crossing the Overseas Highway. Collected across section elevations at 100-foot intervals and visible high/low points with the survey limits, located on the edge of pavements within the survey limits. LS called in, designating tickets for all the utilities within the survey limits.

**Tenant Sewer Laterals at the Marathon Airport, FL** - Longitude Surveyors performed a Topographic Survey that included the following; Property boundaries, easements, and rights of way, above ground utility structures, improvements such as buildings, pavement, gravel surfaces, drainage features (ditches and culverts), fences, etc. Vegetation such as trees, shrubbery, grass, planting, etc., underground utility facilities as provided by utility locates. FDOT, City and County street and highway right of way lines. Location of sewer laterals leaving the tenant buildings, where visible or as identified by airport or tenant staff. Locations of onsite sewerage treatment and disposal systems or components thereof (septic tanks) identified by airport or tenant staff. Location of the stub out was verified as shown on the record drawings and a photo was provided of the stub out. Longitude was responsible for utility locates and coordination with Airport.

**CEI Survey Services for SR 25/Okeechobee Road from East of NW 107 Avenue to East of NW 116 Way - Add Lanes & Rehabilitate Pavement, FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional miscellaneous construction survey services under this contract with the Florida Department of Transportation (FDOT) District 6. The services under this contract consist of field surveys for construction projects. The surveys include but are not limited to the re-establishment of survey baselines, control points, benchmarks, drainage surveys and bridge data, original and final cross-sections, mast arm bearings, etc. Other services include performing and completing field surveys necessary to prepare right-of-way control surveys, right-of-way maps, legal descriptions, and engineering design surveys.

**Districtwide Miscellaneous Location Survey Consultant (BDI), FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional surveying & mapping services to support topographic and mapping projects as directed and/or inquired by the Florida Department of Transportation (FDOT) District 6. Longitude Surveyors performs the following services as described below: Control Surveying - Project Control Network; Right-of-Way Mapping – Right-of-Way Control Survey Maps, Acquisition Right-of-Way Maps, Maintenance Maps, Retracement, recovery and analysis of historical baselines of Survey, Boundary Surveys, Parcel Sketches, Legal Descriptions, Properties Title Analysis and Design, Right of Way, Construction Survey - Design level surveys, specific purpose surveys, acquisition parcel stakeout.

**Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL** - The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.



**INDUSTRY TENURE**

35 years

**LONGITUDE TENURE**

8 years

**EDUCATION**

BS, Civil Engineering  
University of Cienfuegos, Cuba (1994)

Professional Surveyor and Training  
Survey Technician CST No. 0617-5709  
(2013)

Ms. Morejon has 35 years of surveying and mapping experience in South Florida. She has served as Project Manager Surveyor on multiple FDOT Contracts. Her extensive experience allows her to remain intimately familiar with FDOT standards, policies, and procedures of the Department. Furthermore, she has an existing working relationship with FDOT and is very familiar with the Districts Standards for Surveying and Mapping, as well as underground utilities investigations (SUE).

**Boca Chica/NAS Key West Pump Station and FM Extension, Naval Air Station, Key West, FL** - Longitude Surveyors, LLC (LS) performed a Topographic Survey to include the following information: LS provided right of way information, identification of grade utilities, manholes and drainage inlets, signs, edge of pavement, surfaces, and all above ground appurtenances within the survey limits. LS obtained topographic elevations at every 100 feet, high low points and rim elevations within the survey limits. All elevations were referenced to the National American Vertical Datum 1988 (N.A.V.D. 88 datum). LS confirmed existing pipe invert elevations, pipe direction and apparent pipe diameters at all existing drainage and sewer structures within the survey limits. Longitude also performed Subsurface Utility Engineering (SUE).

**Overseas Highway (2188 Overseas Highway) site to Gulfview Road, City of Marathon, Marathon, FL** - Longitude Surveyors (LS) performed a Route Survey. LS established Right-of-Way lines. LS created a graphic baseline and included it in the cad file. Located all above ground improvements such as; but not limited to utilities, power poles, signs, tree lines, asphalt paths, fences, driveways, sidewalks, light poles, curb and gutters, signal mast arms and any other significant above ground features found within the survey limits. LS attempted to include the depth and location of all underground utilities crossing Overseas Highway. Collected across section elevations at 100-foot intervals and at visible high/low points within the survey limits. Located the edge of pavements within the survey limits. LS called in designating tickets for all the utilities found within the survey limits.

**Tenant Sewer Laterals at the Marathon Airport, FL** - Longitude Surveyors performed a Topographic Survey that included the following: Property boundaries, easements, and rights of way, above ground utility structures, improvements such as buildings, pavement, gravel surfaces, drainage features (ditches and culverts), fences, etc. Vegetation such as trees, shrubbery, grass, planting, etc., underground utility facilities as provided by utility locates. FDOT, City and County street and highway right of way lines. Location of sewer laterals leaving the tenant buildings, where visible or as identified by airport or tenant staff. Locations of onsite sewerage treatment and disposal systems or components thereof (septic tanks) identified by airport or tenant staff. Location of the stub out was verified as shown on the record drawings and a photo was provided of the stub out. Longitude was responsible for utility locates and coordination with Airport.

**CEI Survey Services for SR 25/Okeechobee Road from East of NW 107 Avenue to East of NW 116 Way - Add Lanes & Rehabilitate Pavement, FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional



miscellaneous construction survey services under this contract with the Florida Department of Transportation (FDOT) District 6. The services under this contract consist of field surveys for construction projects. The surveys include but are not limited to the re-establishment of survey baselines, control points, benchmarks, drainage surveys and bridge data, original and final cross-sections, mast arm bearings, etc. Other services include performing and completing field surveys necessary to prepare right-of-way control surveys, right-of-way maps, legal descriptions, and engineering design surveys.

**Districtwide Miscellaneous Location Survey Consultant (BDI), FDOT District 6, Miami, FL** - Longitude Surveyors is providing all necessary professional surveying & mapping services to support topographic and mapping projects as directed and/or inquired by the Florida Department of Transportation (FDOT) District 6. Longitude Surveyors performs the following services as described below: Control Surveying - Project Control Network; Right-of-Way Mapping – Right-of-Way Control Survey Maps, Acquisition Right-of-Way Maps, Maintenance Maps, Retracement, recovery and analysis of historical baselines of Survey, Boundary Surveys, Parcel Sketches, Legal Descriptions, Properties Title Analysis and Design, Right of Way, Construction Survey - Design level surveys, specific purpose surveys, acquisition parcel stakeout.

**SR 5 US-1 at SW 137th Avenue/SR 5 US-1 at Caribbean Boulevard Intersection Improvements, FDOT District 6, Miami, FL** - Longitude Surveyors performed Subsurface Utility Engineering (SUE) designating services for two sites at SR 5 US-1 at SW 137<sup>th</sup> Avenue and SR 5 US-1 at Caribbean Boulevard.

**Miami-Dade County Water and Sewer Department, General Land and Engineering Surveying and Mapping Services, Miami, FL** - The scope of services consists of land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water, and sanitary sewage treatment plants and any other similar surveying services for related projects. Longitude Surveyors' responsibilities include land surveying during the design, construction, and post-construction phases. Longitude Surveyors will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, which includes underground utility locations, Quality Assurance, and Quality Control (QA/QC) for topographic and as-built surveys.

**Highland Village Water Main Improvements, City of North Miami Beach, North Miami Beach, FL** –Longitude Surveyors (LS) prepared a topographic survey to include the following information: performed a right-of-way analysis within survey limits and showed graphically. Showed lot lines graphically as per recorded plats within survey limits. Provided the client with a graphical baseline. Collected the following above-ground improvements: pavement, sidewalks, curbs and gutters, trees, palms, fences, signs, fire hydrants, above-ground utilities and structures, poles, overhead lines, and significant above-ground improvements. LS collected elevations equivalent to a twenty-five (25) foot grid within survey limits. LS collected the crown of the road, edge of pavement to the median, front of sidewalk, centerline, and high and low points, elevations necessary for DTM within Survey limits. LS set a minimum of two (2) Temporary Benchmarks (TBM's) within the survey limits by performing a closed-level bench loop from at least two (2) known and certified benchmarks. LS collected drainage and sanitary information such as rim elevation, pipe size, pipe material, pipe direction, and inverts. LS also performed Sub-Surface Utility Engineering (SUE) services. Utility locating services using GPR & Electromagnetic Locator after completion of the public clearance and before construction. Noted factors such as soil composition, moisture, and the type and depth of utility control the GPR's effectiveness. Saturated soils severely limited the effectiveness of the GPR signal. LS worked around this. Longitude provided Quality Level "A" SUE services for eighteen (18) locations, which included the horizontal position and elevation of the top of the utility. LS collected the size, type of material, and direction.

## Design and Permitting for the Sea Level Rise Pilot Project Monroe County

Key Largo, FL



Longitude Surveyors (LS) performed a Topographic Survey to include the following tasks:

- LS recovered and re-established right of way monumentation to provide rights of way lines, centerlines, property lines, and all parcels with their number throughout limits of the project. In instances where Longitude couldn't find sufficient monumentation to determine the rights of way; after the pavement was located, LS computed a best-fit centerline alignment showing the physical roadway location.
- LS provided a graphical baseline only.
- LS provided Lidar data by the County. Longitude processed this information, and created linework, break lines and a Digital Terrain Model (DTM). Longitude coordinated with the County to receive the Lidar data.
- LS supplemented the Lidar with topographic survey where the Lidar information was insufficient.
- The Topographic Survey consisted of, but not limited to the following; paved roads, signs, trees, above ground evidence of underground utilities, manholes, drainage structures, driveways, etc.
- LS located existing utilities by researching into utility provider records and contacting the utility companies to mark their facilities in the project limits. SUE (Designation with a GPR and Electro Magnetic Locator are not a part of this proposal).
- LS showed all utility poles and provide data sheets listing pertinent identification information for each pole.
- LS collected elevations equivalent to a 100-foot grid along the main roads and a 50-foot grid at the intersections (this will be limited to the areas where LS performs Topographic Survey).
- LS performed check elevations throughout the survey limits to verify the integrity of the Lidar vertical information.
- LS located trees with a 3-inch diameter trunk or larger. Vegetation lines were also located. (this will be limited to the areas where LS performs Topographic Survey).
- LS collected rim, bottom and invert elevations, and attempted to provide pipe size and material of all existing sanitary and drainage structures.
- LS located and showed the soil boring test holes in coordination with Geotechnical Sub-consultant.
- LS located and showed wetlands in coordination with Environmental Sub-consultant, where applicable. This task was coordinated to be performed while Longitude was on site performing the field survey. LS did not mobilize after the field survey was completed to perform this task.
- LS labeled the ground material (asphalt, sod, concrete, etc.) on the survey.

Locations:

- Lake Street and Shaw Drive; then northerly along Shaw Drive to Crane Street; then easterly along Crane Street to Adams Drive; then northerly along Adams Drive to its termination all lying within Key Largo, FL.
- Big Pine- Fathers Way and D Avenue



**CLIENT:** WSP  
**CLIENT CONTACT:** Mauricio A. Paredes, PE  
**CLIENT PHONE:** 786.331.8007  
**START:** 2019  
**COMPLETION:** 2021  
**FEE:** \$49,750.00

# Engineering Design and Permitting for the Stock Island Roadway Improvement - Monroe County

Stock Island, FL



Longitude Surveyors (LS) performed a full Topographic Survey and Subsurface Utility services as described below:

- LS collected, asphalt pavement, sidewalks, pavement markings, signs, trees, above ground evidence of underground utilities, drainage structures with invert information, driveways, roadway signs, etc.
- LS performed cross sections at 100-foot intervals.
- Cross sections to include the following elevations; at the centerline, edge of pavement, top of curb, back of sidewalk, low and high points, lane line, drainage ditches (when applicable).
- LS recovered and/or re-established right of way monumentation in order to provide rights of way lines throughout limits of the project. To do this we performed field recovery of centerline control, and property corners throughout the survey limits.
- Located trees with a 3-inch diameter trunk or larger. Vegetation lines were also located.
- LS collected rim, bottom and invert elevations, pipe size and material of all existing sanitary sewers' manholes, drainage culverts, manholes and catch basins were provided.
- Located and showed the soil boring test holes in coordination with Geotechnical sub-consultant.
- Located and showed wetlands in coordination with Environmental sub-consultant.
- LS labeled the ground material (asphalt, sod, concrete, etc.)
- Horizontal control was referenced to the State Plane Coordinate System (Florida East Zone NAD 83/2011).
- Vertical control was referenced to NGVD 1929 established from the nearest governmental benchmark of record.
- LS performed subsurface utility designation only.
- LS used both Ground Penetrating Radar (GPR) and an electromagnetic locator to locate any underground utility lines.
- LS showed the horizontal location of existing utilities. Please note; that the pipe locations were shown with a tolerance of 1 to 2 feet horizontally. We did not provide the size of any pipes or underground lines.
- Performed up to 45 soft digs. Locations were determined by the client at a later date.

\*\* Ms. Siddique was the project manager on this project while with EAC. She is now at MJ Engineering.

**CLIENT:** EAC Consulting, Inc.

**CLIENT CONTACT:** \*\*Sharmin Siddique, PE, ENV, SP

**CLIENT PHONE:** 786.239.7007

**START:** 2017

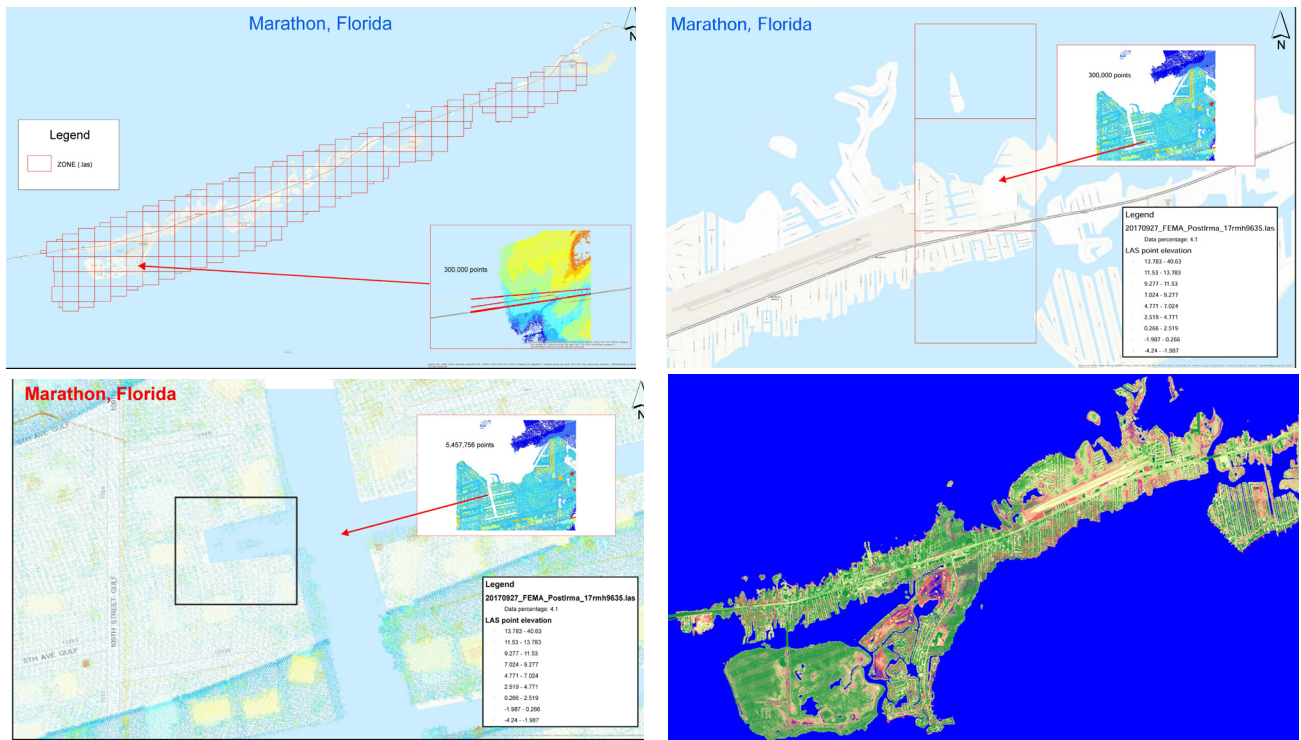
**COMPLETION:** 2018

**FEE:** \$54,750.00





# Coastal Resilience Study FDEP Grant City of Marathon Marathon, FL



Longitude Surveyors participated in a coastal resilience study FDEP grant conducted for the City of Marathon. Longitude experts were responsible for field data collection using UAV technology. Longitude Surveyors prepared the following for the City of Marathon: Digital elevation model; Orthomosaic aerial; topography (contours, etc.); 3D model (OBJ and Point Cloud).

The following tasks were taken for this initiative:

- Identified and created 50-acre zones throughout the City of Marathon, FL
- Program flight plans for each zone and conduct flight missions for each flight plan
- Flight plans put together at altitudes of approximately 200 feet amount to capture .4 resolution. Speed and overlap programmed at 75% and 10mph.
- Specified NADIR (vertical) and Oblique (angled) imagery
- NADIR imagery captured perpendicular to the ground
- Oblique imagery captured at angles (45 or 90) to generate Z value data
- Specified imagery overlap to ensure all pertinent data included
- File FAA waivers due to proximity to airport
- Identified GCP (ground control points); collected coordinates from using a GPS or RTK sensor; tagged those points in the Survey/imagery for accuracy (up to 1 cm)
- Utilized 2017 USACE FEMA Topobathy Lidar: Florida Keys (Post Hurricane Irma) dataset for additional research





Longitude Surveyors (LS) performed all professional surveying services as described herein. The professional surveying services included the following: LS provided professional surveying services as necessary to produce an AutoCAD survey drawing as well as metes and bounds description of the sites of the Key West Cut B Range Front Light (RFL) and Key West Cut B Range Rear Light (RRL) in Key West, FL. The survey included the aerial view shed between the RRL and RFL. Longitude provided associated surveys (boundary, topography, and utility) and legal description of the government property within the site areas described under Survey Limits. The area Longitude surveyed generated the following easements:

- A. Key West Cut B RRL: A plot or parcel of ground fifteen feet (15') by fifteen feet (15') located around the base of the tower, but not beyond the extents of the restaurant structure surrounding the tower (see Enclosure 2 for pictures). The survey started from the closest existing benchmark outside the proposed location and included in the metes and bounds description.
- B. Key West Cut B RFL: A plot or parcel of ground twelve feet (12') by twelve feet (12') located around the base of the tower. The survey started from the closest existing benchmark outside the proposed location and was included in the metes and bounds description.
- C. Range Light Shed: An air easement with a minimum 3 degree arc of visibility from the focal height of the RRL to a specified Height of Eye (HOE) at the Near End of Channel Centerline. Focal height was considered to be from Mean High Water (MHW) to the center of the optical light; HOE shall be from Mean Lower Low Water (MLLW). The easement was used to ensure unobstructed view of the RRL from the entire length of channel. A conceptual representation of the required light shed was shown.



**CLIENT:** Wood, PLC  
**CLIENT CONTACT:** Ashok K. Aitharaju  
**CLIENT PHONE:** 305.826.5588  
**START:** 2018  
**COMPLETION:** 2021  
**FEE:** \$15,480.00

# Overseas Highway (2188 Overseas Highway) site to Gulfview Road City of Marathon Marathon, FL



Longitude Surveyors (LS) performed a Route Survey including the following information:

- LS established Right-of-Way lines.
- LS created a graphic baseline and included it in the cad file.
- Located all above ground improvements such as; but not limited to utilities, power poles, signs, tree lines, asphalt paths, fences, driveways, sidewalks, light poles, curb and gutters, signal mast arms and any other significant above ground features found within the survey limits.
- LS attempted to include the depth and location of all underground utilities crossing Overseas Highway.
- Collected across section elevations at 100-foot intervals and at visible high/low points with the survey limits.
- Located the edge of pavements within the survey limits.
- LS called in designating tickets for all the utilities found within the survey limits.
- Collected all the lines marked by the utility companies and delineate them on the cad file.
- LS collected invert and grate elevations for all drainage structures within the survey limits.
- All elevations were referenced to NAVD 88.
- Control points were set outside the project limits, in locations where they were used by the contractor during construction.
- All control points had Northing and Easting coordinates referenced to the Florida State Plane Coordinate System, based on the North American Datum of 1983/90.
- Approximately 5,700 linear ft.



**CLIENT:** WADE Trim  
**CLIENT CONTACT:** Daniel Burden, PE  
**CLIENT PHONE:** 561.309.7323  
**START:** 2016  
**COMPLETION:** 2016  
**FEE:** \$31,425.00

**Boca Chica/NAS Force Main Extension and Key West Pump Station**  
**Florida Keys Aqueduct Authority**  
Key West, FL

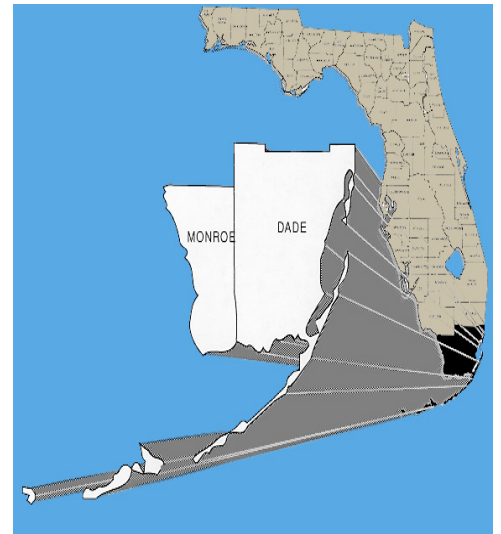


Longitude Surveyors (LS) performed a full Topographic Survey and Subsurface Utility Engineering services as described below:

- LS provided right of way information, identification of grade utilities, manholes and drainage inlets, signs, edge of pavement, surfaces, and all above ground appurtenances within the survey limits.
- LS obtained topographic elevations at every 100 feet, high low points and rim elevations within the survey limits.
- All elevations were referenced to the National American Vertical Datum 1988 (N.A.V.D. 88 datum).
- LS confirmed existing pipe invert elevations, pipe direction and apparent pipe diameters at all existing drainage and sewer structures within the survey limits.
- LS also performed Subsurface Utility Engineering (SUE).



**Districtwide Miscellaneous Location Survey Consultant (BDI)**  
**Florida Department of Transportation District 6**  
Miami-Dade County, FL



Longitude Surveyors is providing all necessary professional surveying & mapping services to support topographic and/or mapping projects as directed and/or inquired by the Florida Department of Transportation (FDOT) District 6.

Longitude Surveyors (LS) will perform the following services as described below:

- Control Surveying - Project Control Network.
- Right of Way Mapping - Right of Way Control Survey Maps, Acquisition Right of Way Maps, Maintenance Maps, Retracement, recovery, and analysis of historical baselines of Survey, Boundary Surveys, Parcel Sketches, Legal Descriptions, Properties Title Analysis.
- Design, Right of Way, Construction Survey - Design level surveys, specific purpose surveys, acquisition parcel stakeout.

Services shall be accomplished in accordance with the latest revision of the Florida Department of Transportation Surveying and Mapping Handbook, the latest FDOT approved CADD technologies and the standards of practice for land surveying and mapping in the State of Florida, pursuant to chapter 5J-17 of the Florida Administrative Code and section 472.027 of the State of Florida statutes.

Services also include the criteria established by:

- The Department's Highway Field Specifications
- FDOT Survey Procedure Topic No. 550-030-101-a
- FDOT Utility Accommodation Manual, ASCE Standard, Topic #710-020-001
- FDOT Right of Way Mapping Procedure, Topic Number 550-030-015-c
- Right of Way Mapping CADD Handbook
- CADD Production Criteria Handbook
- Any special instructions provided by the District Surveyor.



**CLIENT:** FDOT District 6  
**CLIENT CONTACT:** Zurelys Perez de Alejo  
**CLIENT PHONE:** 305.470.5194  
**START:** 2021  
**COMPLETION:** 2026  
**FEE:** \$94,692.04 (YTD)

# Districtwide Miscellaneous Construction Survey Florida Department of Transportation District 6 Miami-Dade County, FL



Longitude Surveyors is providing all necessary professional miscellaneous construction survey services under this districtwide continuing contract with Florida Department of Transportation (FDOT) District 6.

The services under this contract consists of field surveys for construction projects. The surveys include, but not limited to re-establishment of survey baselines, control points, bench marks, drainage surveys and bridge data, original and final cross-sections, mast arm bearings, etc. Other scope of services include perform and complete field surveys necessary to prepare right-of-way control surveys, right-of-way maps, legal descriptions and engineering design surveys.

Design survey services are performed in a manner that perpetuates the control and reference system through the construction and final activities. These activities may include, but not limited to the following:

- Geodetic Control PNC - Perform a geodetic baseline control survey for the purpose of establishing the alignment of the project and providing an adjusted network of control meeting the Department's specifications.
- Complete a Project Network Control (PNC) sheet graphically depicting the baseline, the benchmarks and the Primary control points indication the type of material used for each point.
- Alignments: Locate sufficient field control to determine the alignments of dedicated right-of-ways according to recorded instruments of conveyance, right-of-way maps, and subdivision plats. When a historical baseline exists, it will be recovered and staked as the current baseline of survey. In hazardous situations an offset reference line may be established and stationed, but the control points on the historical baseline must be set.
- Reference Points: Reference all survey control points.
- Bench Levels: Establish level loop using (N.G.V.D. 1929 or NAVD 1988), as instructed by the location project manager. For each bench mark set or used, a bench mark description is filled out and submitted along with a copy of the field notes signed and sealed.



**CLIENT:** FDOT District 6  
**CLIENT CONTACT:** Keith McIntosh  
**CLIENT PHONE:** 305.640.7438  
**START:** 2018  
**COMPLETION:** 2024  
**FEE:** \$94,513,68 (YTD)

# REPRESENTATIVE SURVEYORS EXPERIENCE AND CLIENT REFERENCES



## REPRESENTATIVE SURVEYORS EXPERIENCE

Longitude's founder and president, Eduardo "Eddie" Suarez, began his surveying career working on projects for the Florida Department of Transportation (FDOT) District 6. Through this early experience, Eddie gained intimate surveying knowledge working as an Instrument Person, and eventually a Crew Chief, throughout South Florida. He then worked for almost five (5) years as the lead surveyor for the Miami-Dade County Solid Waste Department, until he passed the state exam and earned his license as a Professional Surveyor and Mapper, and opened his practice in 2004, P(3)SM LLC, which later became Longitude Surveyors, LLC through a name change.

Following is a partial list of Relevant Experience:

- Overseas Highway, approx. Marriott (2188 Overseas Highway) site to Gulfview Road within the City of Marathon, Florida, approx. 5,7000 linear feet.
- USCG Station 1800 Overseas Hwy, Marathon, FL 33050
- Design and Permitting for the Sea Level Rise Pilot Project, Monroe County, Key Largo, FL
- Boca Chica/NAS Force Main Extension and Key West Pump Station, Florida Keys Aqueduct Authority, Key West, FL
- Tenant Sewer Laterals at Marathon Airport, FL
- Terminal Building Sewer at Marathon Airport, FL
- Hawk's Cay Resort Marina Restaurant (61 Hawks Cay Boulevard, Marathon (Duck Key), Florida 33050)
- Aviation Blvd. Bike Path and Asphalt Overlay - 9805 Overseas Highway Marathon, Florida 33050
- Lot 60 and 61 (Calle de Luna and Copa D'Oro), Marathon, FL
- Taco Bell - 2338 N. Roosevelt Boulevard, Key West, Florida 33040
- Coco Plum Beach, Coco Plum Dr, Marathon, FL 33050
- Staff Housing Human Resources Building, Key Largo, Florida 33037 - Ocean Reef
- Districtwide Miscellaneous Construction Survey, Florida Department of Transportation District 6 Miami-Dade County, FL
- Districtwide Miscellaneous Location Survey Consultant (BDI), Florida Department of Transportation District 6, Miami-Dade County, FL

## CLIENT REFERENCES

City of Miami Beach  
Mr. Giancarlos Peña  
Ph: 305.265.5400  
Email: giancarloopena@miamibeachfl.gov

Florida Department of Transportation District 6  
Mr. Keith McIntosh  
Ph: 305.640.7438  
Email: Keith.Mcintosh@dot.state.fl.us

Fincantieri Infrastructure Florida Inc.  
Ms. Erika Pereira  
Ph: 650.451.2757  
Email: erika.pereira@fl.fcinfrastructure.com

Miami-Dade County Water and Sewer Department  
Mr. Juan C. Cordero, PSM  
Ph: 305.468.5900  
Email: juan.cordero@miamidade.gov







**SWORN STATEMENT UNDER SECTION 287.133(3)(a)  
FLORIDA STATUTES ON PUBLIC ENTITY CRIMES**

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICE AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid, Bid or Contract No. RFQ 23-004 for Professional Surveying Services
  
2. This sworn statement is submitted by Longitude Surveyors, LLC  
(Name of entity submitting sworn statement)  
  
whose business address is 301 Ocean Reef Drive, Suite C-207, Kay Largo, FL 33037  
  
and (if applicable) its Federal Employer Identification Number (FEIN) is 36-4551726 (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement.)
  
3. My name is Eduardo M. Suarez and my relationship to  
(Please print name of individual signing)  
  
the entity named above is President / CEO.
  
4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any Bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.
  
5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
  
6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
  1. A predecessor or successor of a person convicted of a public entity crime: or
  2. An entity under the control of any natural person who is active in the management of t entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
  
7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter

into a binding contract and which Bids or applies to Bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

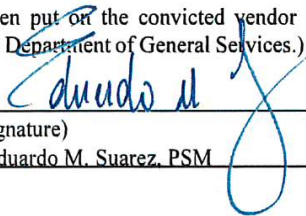
Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

  
\_\_\_\_\_  
(Signature)  
Eduardo M. Suarez, PSM

STATE OF Florida (Date)

COUNTY OF Monroe

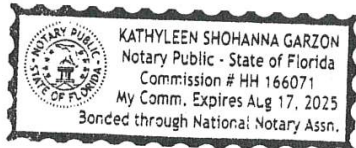
PERSONALLY APPEARED BEFORE ME, the undersigned authority,

Eduardo M. Suarez  
(Name of individual signing)

who, after first being sworn by me, affixed his/her signature in the

space provided above on this 22 day of March, 2023.

My commission expires: Aug. 17, 2025 Keygi  
NOTARY PUBLIC



RFQ 23-004

12

PROFESSIONAL SURVEYING SERVICES

## CITY OF KEY WEST INDEMNIFICATION FORM

CONTRACTOR agrees to protect, defend, indemnify, save and hold harmless The City of Key West, all its Departments, Agencies, Boards, Commissions, officers, City's Consultant, agents, servants and employees, including volunteers, from and against any and all claims, debts, demands, expense and liability arising out of injury or death to any person or the damage, loss of destruction of any property which may occur or in any way grow out of any act or omission of the CONTRACTOR, its SUBCONTRACTOR(S), its agents, servants, and employees, or any and all costs, expense and/or attorney fees incurred by the City as a result of any claim, demands, and/or causes of action except of those claims, demands, and/or causes of action arising out of the negligence of The City of Key West, all its Departments, Agencies, Boards, Commissions, officers, agents, servants and employees. The CONTRACTOR agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto, even if it (claims, etc.) is groundless, false or fraudulent. The City of Key West does not waive any of its sovereign immunity rights, including but not limited to, those expressed in Section 768.28, Florida Statutes. Nothing contained herein shall be construed to alter or waive the City's sovereign immunity under 768.28, Florida Statutes. CONTRACTOR understands and agrees that any and all liabilities regarding the use of any subcontractor for services related to this agreement shall be borne solely by the CONTRACTOR. The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONTRACTOR under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONTRACTOR or of any third party to whom CONTRACTOR may subcontract a part or all of the Work. Ten dollars of the consideration paid by the City is acknowledged by CONTRACTOR as separate, good and sufficient consideration for this indemnification.

This indemnification shall be interpreted to comply with Section 725.06 and 725.08, Florida Statutes.

These indemnifications shall survive the term of this agreement. In the event that any action or proceeding is brought against the City of Key West by reason of such claim or demand, CONTRACTOR shall, upon written notice from the City of Key West, resist and defend such action or proceeding by counsel satisfactory to the City of Key West.

The indemnification provided above shall obligate CONTRACTOR to defend at its own expense to and through appellate, supplemental or bankruptcy proceeding, or to provide for such defense, at the City of Key West's option, any and all claims of liability and all suits and actions of every name and description covered above which may be brought against the City of Key West whether performed by CONTRACTOR, or persons employed or utilized by CONTRACTOR. The CONTRACTOR'S obligation to indemnify, defend and pay for the defense of the CITY, or at the CITY's option, to participate and associate with the CONTRACTOR in the defense and trial of any claim and any related settlement negotiations, shall be triggered immediately upon the CONTRACTOR'S receipt of the CITY'S notice of

claim for indemnification. The notice of claim for indemnification shall be deemed received if the CITY sends the notice in accordance with the formal notice mailing requirements set forth in this AGREEMENT.

The CONTRACTOR'S evaluation of liability or its inability to evaluate liability shall not excuse the CONTRACTOR'S duty to defend and indemnify the CITY under the provisions of this AGREEMENT. Only an adjudication or judgment, after the highest appeal is exhausted, specifically finding the CITY was solely negligent shall excuse performance of this provision by the CONTRACTOR.

The CONTRACTOR'S obligation under this provision shall not be limited in any way by the agreed upon Contract Price as shown in this agreement, or the CONTRACTOR's limit of or lack of sufficient insurance protection. This indemnification shall continue beyond the date of completion of the work.

COMPANY SEAL

CONTRACTOR: Longitude Surveyors, LLC

Address 31 Ocean Reef Drive

Suite C-207

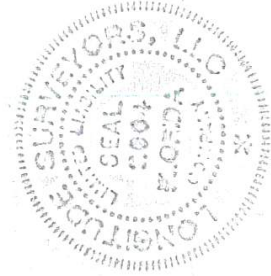
Key Largo, FL 33037

Signature 

Eduardo M. Suarez, PSM  
Print Name

03/22/2023  
Date

President / CEO  
Title



NOTARY FOR THE CONTRACTOR

STATE OF Florida

COUNTY OF Monroe

The foregoing instrument was acknowledged before me by means of  physical presence, or  online notarization, this 22 day of March, 2023, by Eduardo M. Suarez, authorized person of Longitude Surveyors on behalf of the Company.



Kelyd  
Signature of Notary Public-State of Florida  
Kathyleen Coarzin  
Name of Notary

Personally Known  \_\_\_\_\_

OR Produced Identification \_\_\_\_\_

Type of Identification  
Produced \_\_\_\_\_

**EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT**

STATE OF Florida )  
 : SS 36-4551726  
COUNTY OF Monroe )

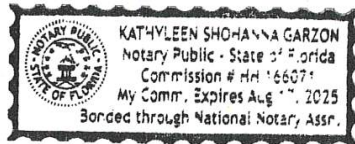
I, the undersigned hereby duly sworn, depose and say that the firm of Longitude Surveyors, LLC provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses per City of Key West Ordinance Sec. 2-799.

By: Eduardo M. Suarez  
Eduardo M. Suarez, PSM

Sworn and subscribed before me this  
22 day of March, 2023.

K. Garzon  
NOTARY PUBLIC, State of Florida at Large


My Commission Expires: Aug. 17, 2025



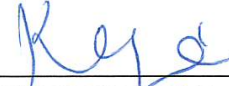
**CONE OF SILENCE AFFIDAVIT**

STATE OF Florida )  
: SS 36-4551726  
COUNTY OF Monroe )

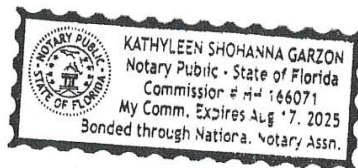
I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Longitude Surveyors, LLC have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence (attached).

  
\_\_\_\_\_  
(signature)  
03/22/2023  
\_\_\_\_\_  
(date)

Sworn and subscribed before me this  
22 Day of March, 2023.

  
\_\_\_\_\_  
NOTARY PUBLIC, State of Florida at Large

My Commission Expires: Aug. 17, 2025





**LOCAL VENDOR CERTIFICATION**

**PURSUANT TO CITY OF KEY WEST CODE OF ORDINANCES SECTION 2-798**

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

- a. Principle address as registered with the FL Department of State located within 30 miles of the boundaries of the city, listed with the chief licensing official as having a business tax receipt with its principle address within 30 miles of the boundaries of the city for at least one year immediately prior to the issuance of the solicitation.
- b. Maintains a workforce of at least 50 percent of its employees from the city or within 30 miles of its boundaries.
- c. Having paid all current license taxes and any other fees due the city at least 24 hours prior to the publication of the call for bids or request for proposals.
  - Not a local vendor pursuant to Code of Ordinances Section 2-798
  - Qualifies as a local vendor pursuant to Code of Ordinances Section 2-798

If you qualify, please complete the following in support of the self-certification & submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name Longitude Surveyors, LLC Phone: 305.463.0912  
Current Local Address: 31 Ocean Reef, Suite C-207 Fax: \_\_\_\_\_  
(P.O Box numbers may not be used to establish status)  
Length of time at this address 7 years  
\_\_\_\_\_  
Signature of Authorized Representative Date 03/22/2023  
STATE OF Florida  
COUNTY OF Monroe

The foregoing instrument was acknowledged before me this 22 day of March 2023.

By Eduardo M. Suarez,  
Eduardo M. Suarez, PSM  
(Name of officer or agent, title of officer or agent)  
of Longitude Surveyors, LLC

**2022 / 2023  
MONROE COUNTY BUSINESS TAX RECEIPT  
EXPIRES SEPTEMBER 30, 2023**

Business Name: LONGITUDE SURVEYORS LLC  
 Owner Name: EDUARDO M SUAREZ  
 Mailing Address: 7769 NW 48TH ST 375 DORAL, FL 33166  
 Business Location: 31 OCEAN REEF DR STE C-207 KEY LARGO, FL 33037  
 Business Phone: 305-463-0912  
 Business Type: PROFESSIONAL OFFICES (SURVEYOR AND MAPPER OFFICE)

RECEIPT# 47162-4037

Employees 4

STATE LICENSE: LB7335

Tax Amount	Transfer Fee	Sub-Total	Penalty	Prior Years	Collection Cost	Total Paid
22.00	0.00	22.00	0.00	0.00	0.00	22.00

**Paid 000-21-00048190 09/26/2022 22.00**

THIS BECOMES A TAX RECEIPT  
WHEN VALIDATED

**Sam C. Steele, CFC, Tax Collector  
PO Box 1129, Key West, FL 33041**

THIS IS ONLY A TAX.  
YOU MUST MEET ALL  
COUNTY AND/OR  
MUNICIPALITY  
PLANNING, ZONING AND  
LICENSING  
REQUIREMENTS.

**MONROE COUNTY BUSINESS TAX RECEIPT  
P.O. Box 1129, Key West, FL 33041-1129  
EXPIRES SEPTEMBER 30, 2023**

Business Name: LONGITUDE SURVEYORS LLC  
 Owner Name: EDUARDO M SUAREZ  
 Mailing Address: 7769 NW 48TH ST 375 DORAL, FL 33166  
 Business Location: 31 OCEAN REEF DR STE C-207 KEY LARGO, FL 33037  
 Business Phone: 305-463-0912  
 Business Type: PROFESSIONAL OFFICES (SURVEYOR AND MAPPER OFFICE)

RECEIPT# 47162-4037

Employees 4

STATE LICENSE: LB7335

Tax Amount	Transfer Fee	Sub-Total	Penalty	Prior Years	Collection Cost	Total Paid
22.00	0.00	22.00	0.00	0.00	0.00	22.00

**Paid 000-21-00048190 09/26/2022 22.00**

# LICENSES AND CERTIFICATES

## State of Florida Department of State

I certify from the records of this office that LONGITUDE SURVEYORS, LLC is a limited liability company organized under the laws of the State of Florida, filed on March 12, 2004.

The document number of this limited liability company is L04000019574.

I further certify that said limited liability company has paid all fees due this office through December 31, 2023, that its most recent annual report was filed on January 23, 2023, and that its status is active.

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



*[Signature]*  
Secretary of State

Tracking Number: 5226892860CU  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500  
800HELPLA(435-7352) or (850) 488-2221

January 18, 2023

LONGITUDE SURVEYORS, LLC  
7700 N KENDALL DR STE 705  
MIAMI, FL 33156-7591

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB7335

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2025.

You are required to keep your information with the Board current. Please visit our website at [www.800helpfla.com/psm](http://www.800helpfla.com/psm) to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here



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.: LB7335  
Expiration Date February 28, 2025

### Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

LONGITUDE SURVEYORS, LLC  
7700 N KENDALL DR STE 705  
MIAMI, FL 33156-7591

*[Signature]*  
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  
800HELPLA(435-7352) or (850) 488-2221

January 12, 2023

EDUARDO M SUAREZ  
7700 N KENDALL DR STE 705  
MIAMI, FL 33156-7591

SUBJECT: Professional Surveyor and Mapper License # LS6313  
Your application / renewal as a professional surveyor and mapper as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2025.

You are required to keep your information with the Board current. Please visit our website at [www.800helpfla.com/psm](http://www.800helpfla.com/psm) to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

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Detach Here



Florida Department of Agriculture and Consumer Services  
Board of Professional Surveyors and Mappers

LS6313

Professional Surveyor and Mapper  
EDUARDO M SUAREZ

IS LICENSED under the provisions of Ch. 472 FS  
Expiration date: February 28, 2025

Detach Here



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.: LS6313  
Expiration Date February 28, 2025

### Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

EDUARDO M SUAREZ  
7700 N KENDALL DR STE 705  
MIAMI, FL 33156-7591

*[Signature]*  
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 Transportation

RON DESANTIS  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.  
SECRETARY

January 11, 2023

Eduardo Suarez, President  
LONGITUDE SURVEYORS, LLC  
7700 North Kendall Drive, Suite 705  
Miami, Florida 33156

Dear Mr. Suarez:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

- |         |   |
|---------|---|
| Group 8 | - Survey and Mapping                            |
| 8.1     | - Control Surveying                             |
| 8.2     | - Design, Right of Way & Construction Surveying |
| 8.4     | - Right of Way Mapping                          |

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2023, for contracting purposes.

#### Approved Rates

Home/ Branch Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense
147.23%*	0.229%	Reimbursed	No	8.47%

\*For multi-year contracts, DOT has adjusted the overhead rates to mitigate the adverse impacts of Payroll Protection Program loan forgiveness. For information on the adjusted overhead rates, contact the district Procurement Office.

Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.

Should you have any questions, please feel free to contact me by email at [carliayn.kell@dot.state.fl.us](mailto:carliayn.kell@dot.state.fl.us) or by phone at 850-414-4597.

Sincerely,

*[Signature]*

Carliayn Kell  
Professional Services  
Qualification Administrator

1



THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3866

ADDENDUM NO. 1

Professional Surveying Services RFQ 23-004

This addendum is issued as supplemental information to the bid package for clarification of certain matters of both a general and a technical nature. The referenced Request for Qualifications (RFQ) package is hereby amended in accordance with the following items:

**Questions:** Page 2 of the RFQ where states: Qualifications shall be limited to 20 double-sided pages, not including

A.3 Qualifications Criteria.

Does this mean section A.3 Qualifications Criteria is not part of the 20 double-sided pages? (We have various staff (resumes), and projects will exceed the 20-page limit)

In reference to the Tab Sections of the RFQ, are the tabs (dividers) included in the 20 double-sided pages? On page two, right after Section A.2 - the RFQ says, "Qualification packages shall be limited to 20 double-sided pages not including" is there supposed to be anything after the word included?

At the end of Section C.1, the RFQ says, "Total proposal length (not including required forms) will not exceed 20 double-sided (40 single) pages." Should firms follow the directions on this page limit section or the page limit information after Section A.2?

**Answer: Page 2 should state and be followed: "Qualifications shall be limited to 20 double-sided pages or 40 single pages, not including required forms or tabs."**

**Questions:** Page 4 of the RFQ Section C. Submission Detail: C.1 Response Information states Examples of five (5) traffic engineering projects. This is a Surveying RFQ. Are you looking for surveying projects or traffic engineering projects?

Section C.1 - "Response Information," says firms are to provide FDOT experience and examples for Traffic Engineering. Is this a typo in the RFQ, or should firms submit experience with FDOT and examples for Traffic Engineering?

**Answer: Page 4 C.1 should read "Examples of five (5) survey projects specific to this RFQ, completed within past 5 years."**

**Also, under C1. Disregard the statement "Experience with Key West, Monroe County and Florida DOT District 6."**

**Question:** Also, will you consider extending the Due date for this RFQ.

**Answer: The Due Date is March 29, 2023**

**Question:** There are three different outlines for the proposal preparation (A.2, C.1, and C.12); which should firms follow?

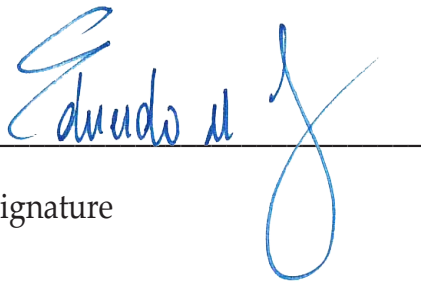
**Answer:** Please use A.2 outline on Page 1.

**Question:** In reference to the LOCAL VENDOR CERTIFICATION, we have an office in Key Largo and a Business Tax with Monroe County. Will this be ok to submit?

**Answer: Yes, however: Page 5 C.7 License Requirements reads:**

**“The selected respondent will also be required to obtain and maintain a City of Key West Business Tax Receipt for the duration of the work.”**

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 with Attachment by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

A handwritten signature in blue ink, appearing to read "Eduardo J.", is written over a horizontal line.

Signature

Longitude Surveyors, LLC

Name of Business



## Longitude Surveyors, LLC

### **Monroe County Office**

31 Ocean Reef Drive  
Suite C-207  
Key Largo, FL 33037

### **Headquarters**

7700 North Kendall Drive  
Suite 705  
Miami, FL 33156

[www.longitudesurveyors.com](http://www.longitudesurveyors.com)