

# REQUEST FOR QUALIFICATIONS



# RFQ No. 18-002 PROFESSIONAL SURVEYING SERVICES



# BISCAYNE ENGINEERING COMPANY, INC.

529 West Flagler Street, Miami, FL 33130

Phone: (305)324-7671 Fax: (305)324-0809 Contact Person: MIKE BARTHOLOMEW, PSM

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Addendum



City of Key West Engineering Services 1300 White Street Key West, FL 33040 March 28, 2018

Re: Respond to Request for Qualifications No. 18-002 for Professional Surveying Services.

Dear Selection Committee members:

Biscayne Engineering (BISCAYNE) is pleased to present our qualifications for professional surveying services to the City of Key West. Biscayne has put together a multidisciplinary survey team best suited to service this contract. The City needs a Prime firm committed to 'pulling all the pieces together' and delivering projects on time, under budget, and with the highest quality possible. Biscayne meets and exceeds that standard.

BISCAYNE is a full service Surveying and Engineering Company located in South Florida since its founding in 1898. In addition to the services we provide, BISCAYNE also maintains one of the most comprehensive libraries of local historic surveying records, which tell a unique story of South Florida that is unavailable elsewhere. We are certified as a Small Business Enterprise (SBE) in Miami Dade County, Palm Beach County, School District of Palm Beach County and South Florida Water Management District. BISCAYNE'S current government surveying and mapping contracts include City of Miami, City of Hialeah, City of Delray Beach, City of Deerfield Beach, South Florida Water Management District, and Florida Department of Transportation (District 4 and District 6). Additionally, Biscayne has extensive experience performing Peer Review both for FDOT, the city of Hialeah, and others.

BISCAYNE has an unparalleled resume performing surveying services as requested within this RFQ. Our Surveying and Engineering experience in the Florida Keys and Marathon County dates back to the early 1900's. Additionally, we have been working for the Department of Transportation (Districts 6) continuously for several decades performing precise roadway surveys for both design and right-of-way acquisition. In October of 2017, BISCAYNE performed topographic surveys for the Department with the specific purpose of determining the impact of Hurricane Irma in the erosion of Overseas Highway (U.S. 1) in Big Pine Key and Spanish Harbor Key. This year, BISCAYNE performed detailed underground utilities and topographic surveys for design in various United States Coast Guard (USGS) Naval Bases, including US Coast Guard Station Marathon, Islamorada and Sector Key West. This work involved preparing highly accurate surveys for design.

Biscayne recognizes the importance of Quality Assurance and Quality Control. Developing a robust QA/QC plan with redundancy and sufficient independent checks ensures that the final product is both comprehensive and reliable.

Biscayne's longevity gives us a unique perspective of South Florida. When Flagler brought the railroad to the Florida Keys, we were here. As the railroad was transformed into the Overseas Highway, Biscayne was there to support the nearby growth and development. More recently, as we have all watched the sea level rise in South Florida, Biscayne has been there providing surveying and engineering services to our coastal communities. Key West's concerns are our concerns too.





# The Biscayne Team

Biscayne currently employs 39 people, with headquarters in Miami, Florida, and a satellite office in Boca Raton, Florida. Our current president, Mike Bartholomew, PSM who will serve as Project Manager for this contract, has been with the firm for 29 years; he will be the primary contact for this Contract.

Mike Bartholomew, PSM

529 West Flagler Street, Miami, FL 33130

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E-mail.: mikeb@biscayneengineering.com

With our proven management expertise coupled with the broad set of skills possessed by our carefully selected Team, the City can be assured that Biscayne is the ideal Prime Consultant for this contract. Our team includes:

Firm: InfraMap, Inc.

Location: West Palm Beach, FL

Primary Services: Underground/Aboveground utilities identification and Mapping

Firm: **GPI Geospatial Inc.** Location: Orlando, FL

Primary Services: Aerial photography (drone/aerial)

Firm: Island Surveying Location: Key west, FL

Primary Services: Survey Services Support

Firm: Cummins Cederberg, Inc. Location: South Miami, FL

Primary Services: Flood Plain and FEMA

Title Company: Paramount Title Services

Location: Fort Lauderdale, Florida Primary Services: Title Search

Biscayne Engineering is a unique company, with a remarkable history in the professions of land surveying and engineering. For the past 120 years, Biscayne Engineering has been headquartered in South Florida. We welcome the opportunity to work side by side with the City of Key West in an effort to make the region an even more safe and desirable home to the residents and businesses and a destination for tourists across the nation and around the world. Our expertise in the areas outlined in the Scope of Services is considerable, and our staff of long time employees is of the highest quality. The City needs a Team with strong leadership skills, expertise in the core work types, and a Prime firm that will motivate and push its Team members to meet the City's needs. Stability. Strength. Dedication. Experience. We feel confident that Biscayne's Team is the right team for this contract.

Melissa Bolton Calabrese, Chief Executive Officer

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# **Summary of Expertise and Technical Competence**

BISCAYNE is committed to South Florida and we will use the sum of our resources, including our vast relevant experience to insure the success of this very important contract. We have successfully completed similar contracts for other Districts, Municipalities, and other clients over the past several decades. Our continued presence and commitment to the South Florida community has given us a great deal of knowledge of local conditions including local surveying control. Whether it is a matter of property boundaries, water boundaries, title search review, right-of-way surveys, sectional surveys, control monuments, property line staking, cut and fill calculations, etc., Biscayne has the proper expertise and an archive of data that is second to none. This experience facilitates the development of everything we will undertake for the City of Key West, and together with our Sub consultants GPI Geospatial, InfraMap Corp., Paramount Title and Island Surveying, Inc. we are committed to bringing the City outstanding Project Management experience and to providing Surveying, Mapping and Expert Witness services as outlined in the Scope of Services.

BISCAYNE has a long history of performing all types of surveys throughout South Florida. We understand the importance of data analysis in surveying projects. Our technicians and Professional Surveyors and Mappers analyze all the data acquired during each surveying project to ensure that the field methods, as planned, were properly followed and implemented and the data resulting from our field measurements is an accurate and true representation of the existing or proposed project. For the most part, our volume of work speaks for itself, but there are a few areas where we feel it is necessary to illustrate our approach.

# **Control Surveys**

Under our current and prior contracts with the Florida Department of Transportation, BISCAYNE has prepared countless Control Surveys. Horizontal and vertical controls are the foundation of every job. The first data analysis of every project is performed during the control establishment or control verification. Different data analysis and adjustment methods are employed depending on the specifications of the project being performed. Once horizontal and vertical control has been established it is distributed to all the survey crews and office staff members involved in the project to ensure all the field data is collected using the correct project control in the desired coordinate system, typically Florida State Plane Coordinate System.

While the purpose may vary, typically a baseline is defined either mathematically or on the ground, and provided to the design team. Under our FDOT contracts, random horizontal control points are set, and using a combination of surveying methods, the control monuments are located and their positions are described with respect to the baseline.

# **Boundary Surveys**

BISCAYNE takes Boundary Surveys very seriously. While all surveys are prepared to the highest standards, we recognize that Boundary Surveys are used to describe the limits of ownership, to define work limits for construction and are often used in real estate transactions.

We consider Florida's Minimum Technical Standards (MTS) for Land Surveys to be just that: minimum. Surveyors are held to Standards of Practice that are exercised daily by the prudent surveyors and cannot take comfort in the fact that they have followed MTS only. All monuments that are found must be proven or disproven and all monuments that are set must be substantiated by suitable evidence.





Biscayne develops boundaries by collecting evidence. Some of this evidence comes in the form of prior surveys, plats, etc., and some comes in the form of located survey monuments. We are privileged at Biscayne to have such an extensive library of historic surveying records for South Florida. With 119 years of experience, it seems that there is hardly an area in South Florida that we have not worked in. Having access to this historic information often gives us insight into how the region looked a century ago. Such data is invaluable when making boundary decisions and can often help us reduce costs because much of the complicated work has been done.

Biscayne works to develop control outside the property we are surveying. This may consist of block corners, section corners, or other well established points. We use the control to determine our property boundaries, and then check to ensure that it fits well with monumentation found at the property. Differences will be evaluated and additional evidence will be collected, if required. Based on our findings recommendations may be given to the client if we believe it to be pertinent.

# Topographic, Easement, Roadway and Right-of-Way Surveys

With our long history, it is hard to imagine a company having more experience in the preparation of these types of Surveys than BISCAYNE. While no two scopes are alike, there are some basic items that are components of any well prepared Topographic Survey.

First, the Project Manager and all team members must gain a clear understanding of the main purpose our client is requesting the Topographic Survey for to ensure data is collected properly. For a high-accuracy Topographic Survey for design, equipment must be calibrated: poorly calibrated equipment introduces errors that may be difficult and costly to fix later. BISCAYNE will decide which survey methodology will be more efficient, cost effective and provide the best results for our clients. Independent of the size of the project and existing site conditions BISCAYNE is capable of providing highly accurate surveys utilizing many different data collection platforms. From conventional and GPS data collection to Static, Mobile and Aerial LiDAR, BISCAYNE's team can prepare planimetric and 3-dimensional deliverables that will meet the accuracy standards required for each specific assignment.

# Review of Right-of-Way and Easement Documents for Developments

BISCAYNE has been involved in many land developments throughout South Florida. Right-of-Way dictates the limits of the governing and oversight entity for the road ways, water ways and thorough fares. Easements give the right to use or access a property for a specific purpose. For design purposes determining and identifying these limits and elements are essential to a projects development. Easements may indicate the existence of underground utilities, the rights and limits of construction, maintenance and relocation for underground and above ground utilities, etc. They can also be created for accessibility and shared accessibility.

Right-of-Way documents are important to determine and depict the limits to provide designers with important information to control of waste water runoff, to establish limits of construction and setback requirements and to perform many other feasibility analyses necessary for property development. Survey is an integral part of a development as it all begins with a sound Boundary Survey, which typically involves a Title Search review to determine the existence of encumbrances, right-of-way reservations, etc. Title documents are carefully reviewed and the elements affecting the subject property are then depicted on the survey document to provide the designer and developer a visual depiction of where these elements.





# **Preparation of Easements or Right-of-Way Exhibits**

Biscayne Engineering prepares easements and Right-of-way Exhibits on a daily basis. These items range in size and scope. Some may be used for discussion purposes, while others are used for meeting municipal/county/state requirements. At times, a legal description and accompanying sketch are prepared for the purpose of creating an easement through an instrument for official recordation. Our clients can rest assured that Biscayne has much knowledge with these items.

# **Property Line Staking**

Accurate PROPERTY LINE STAKING begins with a diligent review of the deeds, right-of-way documents and any documents that can provide insight of the history and location of a property boundary. BISCAYNE's vast records database and experienced staff are well versed in property line determination and staking. It can be a simple lot line stake out or several miles of sectional lands in wetlands, BISCAYNE has done it all.

# **Construction Layout Surveys and Staking**

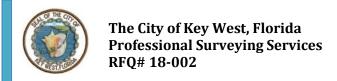
BISCAYNE is extremely adept at providing Construction Layout Surveys. From small projects (such as a water body or City park) to the tallest high rise condominiums in downtown Miami (Met3, Met Square, All Aboard Florida, Marquis Tower, 500 Brickell, New World Symphony, Infinity, to name just a few recent examples) our team can handle it all. BISCAYNE is currently providing continuous construction surveying services on several downtown Miami structures including the All Aboard Florida and Miami Station.

# **Legal Descriptions**

BISCAYNE takes the preparation of Legal Descriptions seriously. Care is taken to add all significant calls to the verbiage, and a check is performed to ensure that all geometry contained in the description is supported by the parcel elements stored in the project database. The need for vertical expansion in South Florida brings about the need for legal descriptions for the vertical extrusion of boundaries. 3-Dimensional Airspace descriptions are involved on multiple projects, as well as condominium documents.

# **Monument Placement**

BISCAYNE vast experience, dependability, knowledgeable staff members and a record data base that rivals any provides a comfort level in the determination, verification and establishment of horizontal or vertical Monument Placement. With past Monumentation Contracts with FDOT, which are intended for the sole purpose of monumenting the Department's Right-of-Ways, as well as several contracts with SFWMD and other agencies. BISCAYNE employees have been involved in many different monumentation projects. We are familiar with monumentation standards established by the USGS, Corps of Engineers and the National Geodetic Survey (NGS). We are well versed in the establishment of Section corner and the corresponding documentation needed to record Certified Corner Records with the Department of Environmental Protection (DEP). Monument Placements are most important for the integrity of any surveying project. With Biscayne Engineering's experience, redundancy checks to ensure the highest accuracy and adherence to published standards, the City of Key West can rest assure that BISCAYNE is the right company to execute any assignment under this contract.





# Flood Plain, FEMA, Beach and Hydrographic Surveying & Mapping

BISCAYNE, together with team member *Cummins Cederberg Coastal & Marine Engineering*, will be able to provide unique comprehensive experience ranging from initial field investigations such as bathymetric surveying, above/below water structural inspections, environmental assessments, soil borings, current and wave measurements, detailed analyses utilizing complex computer models and design of coastal structures, seawalls, marinas and ports. In addition, our team provides experience in contract negotiations and construction administration. This unique combination of skills allows us to approach projects holistically with an exceptional understanding of overall construction cost and the interaction of individual components.

Permitting, design and construction in the coastal and marine environment involves insight into many disciplines and BISCAYNE and our team brings a collection of qualifications and experience rivaled by few companies. Clients work directly with the experienced project managers, who dedicate themselves to providing a superior level of quality, responsiveness and flexibility. Our team is fully geared to conduct environmental and engineering field investigations requiring boats, GPS, hydrographic surveying equipment, SCUBA equipment, and tide and current measurement devices. We routinely use advanced engineering software including AutoCAD, ArcGIS, RAM Structural Analyses, and MIKE21 coastal modeling.

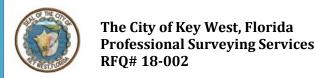
BISCAYNE'S team member, Cummins Cederberg, has been instrumental in providing FEMA mapping related services throughout Florida. Numerous FEMA Letters of Map Revision (LOMR) have been successfully prepared and approved by FEMA including several in Monroe County. For many of these, LIDAR data was utilized; thus we are familiar with the post-processing and how to apply the data. In addition, we have used LIDAR data from various public entities extensively in analyzing coastal processes and planning coastal resiliency work (i.e. sea level rise).

# Geographic Information Systems (GIS)/Auto CAD map and data base creation

Technology is rapidly advancing in the field of Surveying and Mapping. As a full-service Engineering company it is critical that Biscayne adapts to these advancements in our approach to providing professional services of modern measurement that meet our clients' needs. Biscayne can now take field data that was captured by traditional surveying methods and translate it to a GIS platform using ArcGIS or AutoCAD. GIS is quickly becoming a standard for governmental and large corporate sectors. It is an important tool that helps envision, develop, and formally illustrate ideas of expansion, acquisition, and notable resolution to congestion and resource availability concerns. Historical data may be used as base maps for conceptualizing, understanding, and prescribing action and can specifically be tailored into a GIS database for our clients. A major benefit of Geographic Information Systems as it relates to a municipality would be an infrastructure database that would allow tracking and maintenance of utilities that can be continuously updated in real-time.

# Underground and aboveground utilities identification and mapping

Throughout Biscayne's many years of surveying experience, Utility Infrastructure Mapping and Subsurface Utility Engineering (SUE) have proven to be an invaluable asset for our wide variety of clients. Should a need for SUE services arise during the length of this contract, Biscayne will coordinate directly with InfraMap's Project Manager to discuss the project scope in detail until the scope is fully understood by both parties of the team. The results of the underground investigation are typically surveyed from the project control via conventional surveying, GPS surveying methods or a combination





of these. The surveyed underground data is then incorporated into the final survey provided to the City. This creates a more complete deliverable as it contains not only above ground improvements, but also subterraneous data that will prove incomparable to design teams benefiting from our product.

# **Ground Penetrating Radar (GPR)**

BISCAYNE's team member *InfraMap* is a leading provider of Utility Infrastructure Mapping and Subsurface Utility Engineering (S.U.E.) services. They are able to detect utility infrastructure data in the field using sophisticated geophysical techniques and instrumentation, including GPR.

# **Cut and Fill**

Unless a project is subject to constraints such as raising a corridor or site in anticipation of sea level rise, balancing cut and fill can be an important consideration for the design of a project, particularly where acceptable fill is expensive or difficult to obtain. Biscayne Engineering uses several methods for calculating cut and fill, depending on the project characteristics. Normally, Biscayne uses either the trapezoidal method or the surface method.

The trapezoidal method is the traditional methods that have been used for years. It is most applicable to roadway corridors where there are one or more typical sections that apply to the corridor. Under this method, the corridor is divided into segments and the area of cut and the area of fill is calculated at the beginning and end of each section. The amount of cut and fill is calculated to be the average cut and fill along the length of each section, and the total cut and fill is the sum of the volumes for each segment.

The second method is what we call the surface method. This method is more appropriate for building projects, parking lot projects, or other projects where there is no typical section. Under this method, we use AutoCAD Civil 3D to create contours of the existing conditions and the final project. Then these contours are converted to virtual surfaces, representing the "ground surface" before and after the proposed construction. Employing this method requires some care, both in the original survey and the elevation data entered for the proposed design. In both the proposed and existing condition, there needs to be enough elevation information added to the model to accurately model the existing and future contours. Unless enough information is provided the model, the model will inaccurately project the contours, and projected cut and fill will be inaccurate. Also, this method cannot use the ultimate design elevations – it needs to account for portions of the project that are not "fill" such as sidewalks, and asphalt pavement and base. The adage "Data out is only as good as data in" is certainly true when using this method.

# As-Built / Record Drawing Surveying and Preparation

Design Plans are the blue prints for the contractor, but field conditions dictate the actual construction of the design. The construction process has to be documented and recorded to reflect exactly what was constructed and exists in the field to ensure taxpayers money is used properly. An accurate depiction of all phases of the construction process has to be documented. Future Design, upgrades and maintenance all require good and accurate As-Built / Record Drawing Preparation.

BISCAYNE has completed many As-Built / Record Drawing Surveys all over South Florida including the Florida Keys. A few of these examples are the various Coast Guard Sites described in the Local experience section of this proposal. Biscayne Engineering has performed numerous water line, sanitary sewer and drainage sewer infrastructure As-Builts for different municipalities, adhering to each different





governing entities standards and requirements. Our experienced crews and office personnel keeps an ongoing open line of communication with the on-site contractor to ensure a seamless process.

# Aerial Photography and Photogrammetry, including Drones

Aerial Photogrammetry/LiDAR/UAV Services will be provided by our team member *GPI Geospatial, Inc.* (formerly Aerial Cartographics of America). BISCAYNE has teamed up and completed many successful projects with GPI for many years. Together we will perform all work necessary to control, take and process precision quality Aerial Photography that will produce quality, rectified photographic imagery at various scales. We will also perform all photogrammetric work necessary to interpret measure, digitize and compile the mapping and survey data from the aerial photography, as required by each individual assignment.

BISCAYNE's team member, GPI owns and operates multiple aircraft and vehicles equipped with imagery and LiDAR sensors, to provide customized solutions for our clients whether it's from the air, ground or mobile platforms to produce not only aerial photography, but also 3D point clouds from which full topographic data can be extracted to create digital terrain models (DTM) for roadway projects.

# **Title Searches**

Our Survey Technicians are trained to read these documents. In connection with As-built surveys, R/W Maps and other R/W products, Biscayne will review title searches to determine matters of record affecting a property or properties. We have selected *Paramount Title* to provide any additional title work.

# **Expert Witness**

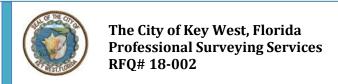
Court work is specialized: a good surveyor is not always a good expert. One must be confident, possess excellent communication skills, have some fundamental understanding of the law, and know what to say and what not to say. Being conscious of the courtroom also guides how we prepare our surveys from the outset. Biscayne has recent successful experience testifying in both, jury and non-jury trials, as well as countless depositions. We are currently assisting the FDOT Districts 4 and 6 Legal Departments as well as numerous private sector clients and municipalities in matters of Eminent Domain, Development, Water Law, etc. Biscayne has extensive experience in the preparation of Court Exhibits for ourselves and for other experts in the cases we work on. Surveys and Maps are not always the best choice for conveying complex information in a simple manner. Using Adobe Illustrator, InDesign, PowerPoint, and other applications, Biscayne has honed its skills at making compelling color graphics for court over the course of many years.

# **General Surveying**

In addition to those surveys outlined above, we have extensive experience in the preparation of Specific Purpose Surveys and Quantity Surveys as well as the preparation of ownership/parcel mapping and appraisal surveys. Our seasoned group of professionals has truly done it all. The City of Key West can feel confident that if they select BISCAYNE, they will be selecting a team that has the experience, dedication, and technical know-how to deliver the highest quality products on time and under budget.

# **Survey Support**

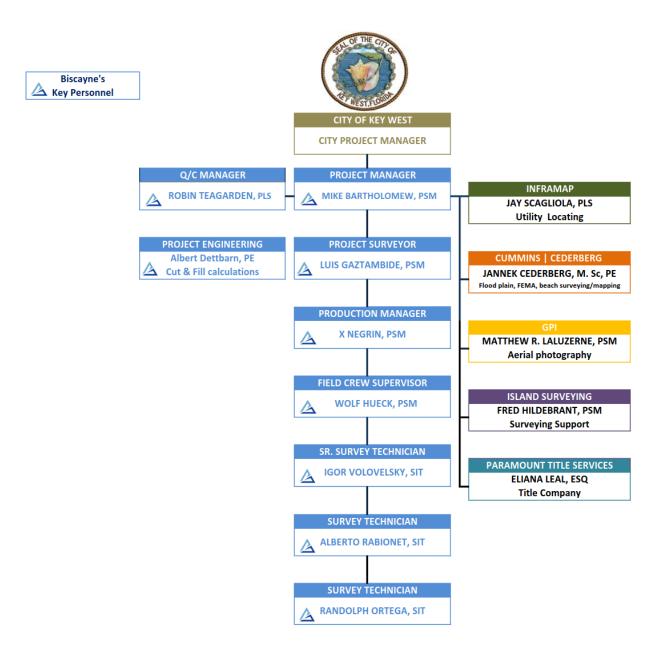
Our team member, **Island Surveying Inc.** is a Key West/Monroe County based, veteran owned, Surveying and Engineering firm and will provide survey support services on all required Scope of Services as outlined above. As the oldest in Monroe County, it maintains well over 10,000 past surveys.





# Professional Qualification, Relevant Experience and Capacity of Staffing

# **TEAM ORGANIZATIONAL CHART**





# **BISCAYNE'S RESUMES**

# Mike Bartholomew, PSM Project Manager

# **Education**

 Associate of Technical Arts, Everett Community College, Everett, WA (1987)

# Registration

- Professional Surveyor & Mapper - License No. LS 5666
- Microsoft Certified Professional

## **Affiliations**

 Member Florida Surveying and Mapping Society (FSMS)

# **Years of Experience**

31 Years

Mr. Bartholomew is President of Biscayne Engineering Company and a Professional Surveyor and Mapper with 31 years of experience (approximately 28 years of which have been with Biscayne Engineering Company, Inc.). His responsibilities include managing large scale, multimillion Dollar contracts for Municipalities and State government agencies, and overseeing the preparation of Canal R/W Maps and Surveys, LiDAR, Design and Control Surveys, and the wide variety of surveys encountered at Biscayne (Boundary, ALTA/ACSM, Specific Purpose, Topographic, Mean High Water, etc.). Also, he is actively involved in the preparation of plats and in his role as plat reviewer for the City of Hialeah. He is well versed in the requirements of Chapter 177, Part 1, and Florida Statutes. He has a vast knowledge of various software programs such as Microstation, Microstation V8i, Leica's Cyclone, Topo-DOT, FDOT procedures and requirements, Autodesk's AutoCAD Civil 3D and basic scripting capabilities. In addition, he works closely with the office staff and Field Crew Supervisor in the management of the numerous construction surveying projects performed throughout south Florida.

# **Relevant Experience**

# **Various Continuous Survey Projects**

**Project Owner:** City of Miami, FL **Role in Project:** Project Manager

Project Description: Oversees the preparation such as: Blanche Park, Merrie Christmas Park, Kennedy Park & Curtis Park, City of

Miami maintenance yard, Miami Park Plat.

# Lyric Subdivision

**Project Owner:** City of Miami **Role in Project:** Project Manager

**Project Description**: This project consisted of initial Boundary Survey, Topographic Survey, Tentative Plat, and Final Plat preparation for City of Miami & Miami-Dade County review and approval. Site Located: Between NW 1 Avenue & NE 2 Ave. and

NW 8 St. & NW 9 St. Role in

# Expert Witness for Sunset Cove, Key Largo, FL & Murals

Project Owner: Florida Department of Transportation District 6

Role in Project: Expert Witness

Project Description: Perform research, Title Review, and attend meetings in connection with Sunset Cove matter in Key Largo,

and Murals located in the City of Miami, Florida.

# Various State Roads for FDOT District 6

Project Owner: Florida Department of Transportation District 6

Role in Project: Project Manager

**Project Description**: This project consisted of Recon and Locate Right-of-Way Monument Section Corners. Performed GPS Survey, Horizontal Traverse and analyze Survey Right-of-Way Monumentions in conjunction with Record Data. Also, performed topographic Surveys and prepared Digital Terrain Models (DTMS).

# Plat Review Consulting Services, City of Hialeah

**Project Owner:** City of Hialeah **Role in Project:** Project Manager

**Project Description**: Biscayne Engineering has provided to City of Hialeah, since 1999, continuous review services for plats per Florida Statute Chapter 177. In addition, Biscayne Engineering provides various services to City of Hialeah such as: Preparation of sketches and legal descriptions. Review of title documents. Preparation of surveyor's

affidavits, Preparation of exhibits and Review of zoning resolutions.







# Robin Teagarden, PLS QC/Manager

#### Education

- University of Texas Architecture
- U.S. Army Map Compilation and Advanced Photogrammetry

#### Registration

 Professional Surveyor & Mapper No. 2354

# **Affiliations**

 Life time Member, American Congress on Surveying and Mapping National Society of Professional EngineersFlorida Surveying and Mapping Society

#### Years of Experience

• 51 Years

Mr.Teagarden is a Professional Surveyor and Mapper with 51 years of experience (43 of those years working in Miami-Dade, Broward & Palm Beach County, FL). Mr. Teagarden has been responsible for the preparation of subdivision plats for some of the largest builders in Southeast Florida Region. Mr. Teagarden has extensive experience with Civil 3D and Site Comp Civil/Survey software, and in numerous aspects of Quality Assurance/Quality Control

# **Relevant Experience**

## Big Cyrpress Basin, Naples FL

Project Owner: South Florida Water Management District (SFWMD)

Role in Project: QC/Manager

**Project Description**: Project Description: This project consisted of an As-Built survey of 24 structures' elevations in North American Vertical Datum (NAVD) of 1988; record survey's field work of 24 sites; preliminary surveyor's report of all sites; final surveyor's report; QA/QC of all sites; in accordance with Florida's Standards of Practice (SOP) and SFWMD requirements.

# Southern Glades, West Palm Beach

Project Owner: South Florida Water Management District (SFWMD)

Role in Project: QC/Manager

**Project Description**: This project consisted of the location and setting of section corners in the Glades utilizing boats and creative surveying methods. Assisted with the project research and setup; CAD production and final plan submittals; in accordance with Florida's Standards of Practice (SOP) and SFWMD requirements.

# Structure 12 Tower Removal, West Palm Beach

Project Owner: South Florida Water Management District (SFWMD)

Role in Project: QC/Manager

**Project Description:** This project consisted of topographic services at the existing S-12 tower site in Section 10, Township 54 south, Range 37 East Miami-Dade County, Florida and the new site in Section 6, Township 54 South, Range 37 East; in accordance with Florida's Standards of Practice (SOP) and SFWMD requirements.

**Project Description**: This project consisted of Recon and Locate Right-of-Way Monument Section Corners. Performed GPS Survey, Horizontal Traverse and analyze Survey Right-of-Way Monumentions in conjunction with Record Data. Also, performed topographic Surveys and prepared Digital Terrain Models (DTMS). Site Location: Miami, Florida.

# Canal C-1 W Basin, Miami, FL

Project Owner: South Florida Water Management District (SFWMD)

Role in Project: QC/ Manager

**Project Description**: This project consisted of a Topographic and Hydrographic Survey along C-1W from S-338, southwesterly to S-148 (±11 miles) in Miami Dade, Florida; in accordance with Florida's Standards of Practice (SOP) and SFWMD requirements.







# Albert R. Dettbarn, PE Project Engineering

# **Education**

- Bachelor of Science in Civil Engineering, 1973, University of Miami,
- M.B.A. Coursework, Florida International University

# Registration

- Professional Engineer in Florida (PE #18966)
- Advanced FDOT MOT Certification

# **Years of Experience**

44 Years

Albert R. Dettbarn is Vice President and Director of Engineering at Biscayne Engineering Company, Inc. He received his B.S. in Civil Engineering in 1973 from University of Miami, is Advances Work Zone Traffic Control Certified and completed M.B.A. Coursework from Florida International University. Mr. Dettbarn has called South Florida home since 1968 and has been a registered engineer since 1981. He has been with Biscayne Engineering since 2004 (13 years). He has headed many significant projects for the company and is a member of the Florida Engineering Society and the National Society of Professional Engineers. Mr. Dettbarn is located in Biscayne Engineering Company's Corporate Office.

# **Relevant Experience**

# Panorama Tower, Miami, Florida

Project Owner: Florida East Coast Realty

Project Location: Miami, FL

Role in Project: Civil Engineer-of-Record including design, permitting and construction administration.

**Project Description**: B Panorama Tower is being developed by Florida East Coast Realty in the Brickell business district of Miami. The \$800 million mixed use building includes high-end retail on the lower levels, offices with amenities consistent with medical uses, a hotel and residences on the upper floors. At 868 feet, the building is the tallest building in Miami and the developer believes it is the tallest residential tower south of New York City. At a pour of 14,000 cubic yards of concrete, the mat foundation is believed to be one of the largest continuous pours in Florida history. Biscayne Engineering Company provided the civil engineer documents for the project including paving, grading, drainage and utility plans, and also provided the maintenance of traffic plan for the pour which included 93 off-duty officers to direct traffic.

# Expert Witness, Neighborhood Improvements Project, City of Miami Beach, Florida

**Project Owner:** City of Miami Beach **Project Location:** Miami Beach, Florida

Role in Project: Expert Witness in support of the City of Miami Beach.

**Project Description**: The City of Miami Beach contracted with a contractor to provide new drainage, roadway improvements, and new landscaping for the portion of Miami Beach east of Convention Center. The City found that the contractor was in default of its contract and, among other things, was not able to achieve the project schedule. As a result, the City terminated the contract and completed the project using other contractors already under contract with the City. As a result, the original contractor sued the City for the total value of the contract and the City counter sued the original contractor for the costs to complete the project. The suit went to trial and Mr. Dettbarn served as the expert consultant on behalf of the City.

# University of Miami RSMAS Parking Lot, Miami, Florida

**Project Owner:** University of Miami **Project Location:** Miami, Florida

Role in Project: Civil Engineer-of-Record during design, permitting and construction administration.

**Project Description:** With the construction of the University's new \$46M Marine Technology and Life Sciences Seawater Research Complex on the RSMAS campus on Virginia Key, the University needed a new parking lot to accommodate parking displaced by the new complex. The project consisted of the demolition of two 1950's era buildings and the construction of a new parking lot with a self-contained drainage system. The project included design, grading, paving and drainage, lighting and landscaping.







# Luis Gaztambide, PSM Project Surveyor

#### **Education**

- Polytechnic University of Puerto Rico, San Juan Campus –BS in Land Surveying and Mapping (1997)
- Purdue University, West Lafayette, Indiana–MS in Geomatics Engineering (2006)

## Registration

- Professional Surveyor and Mapper No.6816
- Professional Land Surveyor,
   Department of State, Commonwealth of Puerto Rico (2006)

#### **Affiliations**

- Member Florida Surveying and Mapping Society (FSMS), Palm Beach Chapter
- Association of Engineers and Surveyors of P.R. (CIAPR)

# **Years of Experience**

22 Years

Mr. Gaztambide is a Professional Surveyor and Mapper with 22 years of experience. He graduated from the Polytechnic University of Puerto Rico in 1998 with BS in Land Surveying and Mapping and in 2006 obtained an MS in Geomatics Engineering from Purdue University in West Lafayette, Indiana. He has a vast experience managing large volume of projects from Cities and State Governments Agencies. His duties include overseeing the field and office procedures for R/W and Location Surveys as well as R/W Mapping for the Florida Department of Transportation (FDOT). Mr. Gaztambide has a wide range of experience with Multi-platform scanning integration, Leica Geo Office, AutoCAD, Hector the Vector, EFB3.2, Caice, Microstation, Microstation V8i, Geopak, Topo DOT, and Civil 3D, and he is familiar with all the procedures and requirements for the wide variety of surveying services Biscayne Engineering provides for the FDOT. Also Mr. Gaztambide's experience includes Topographic, Boundary, ALTA/NSPS, Control, As-Built, Construction and Specific Purpose Surveys.

# Relevant Experience

# Interstate 95 overpasses, Broward County, Florida

**Project Owner:** FDOT District 4 **Role in Project:** Project Manager

**Project Description**: This project consisted of prepare high density 3D survey model of the interstate 95 overpasses and clearances for engineering design with reference to state plane coordinates and a vertical datum. Research project site and determine survey strategy. Coordinate with data collection, including laser scanning operation, and verify quality control parameters.

# I-95 at 6<sup>th</sup> Avenue, Lake Worth, Florida

Project Owner: Florida Department of Transportation District 4

Role in Project: Project Manager

**Project Description**: This project consisted of research project site and determine survey strategy. Coordinate with data collection. Process conventional and GPS survey data for DTM and Right of Way monumentation; Perform field LIDAR survey for I-95 underpass; extract survey files from LIDAR data in Microstation using Topo-DOT software.

# Lincoln Road Mall, Miami Beach, Florida

**Project Owner:** James Corner **Role in Project:** Project Manager

**Project Description**: This project consisted of prepare high density 3D survey model of Lincoln Road Mall for architectural and engineering design with reference to state plane coordinates and vertical datum. Research project site and determine survey strategy Extraction of building faces from Static Lidar point cloud using Topo DOT software.

# Palmetto Park Road, Palm Beach County

**Project Owner:** FDOT District 4 **Role in Project:** Project Manager

Project Description: Oversaw and supervised the survey services, which included: field and

office staff and procedures employed in the project to establish the baseline of

survey and Right of Way for Palmetto Park Road and Lake Worth

drainage District L-48 Canal.







# X Antonio Negrin, PSM Production Manager

## Education

Novosibirsk Institute of Engineers of Geodesy - Photogrammetry and Cartography, Russia (1992) AutoCAD - MDCC Inter American Campus (2005) Microstation Bentley Institute (2008) HD Laser Scanning Leica Training course, Atlanta, Georgia (2011) Registration

> Professional Surveyor & Mapper No. 6987

#### **Affiliations**

Member Florida Surveying & Mapping Society

# **Years of Experience**

22 Years

Mr. Negrin is a Professional Land Surveyor with 22 years of experience, 11 years of which have been with Biscayne Engineering. Mr. Negrin is responsible for overseeing the field and office procedures for Boundary and Topographic Surveys, R/W, GPS and HD Laser Scanning. Mr. Negrin has extensive R/W Mapping experience. He has a wide range of experience with Trimble Business Center and the FDOT software Hector the Vector, AutoCAD and Civil 3D. With respect to HD Laser Scanning, Mr. Negrin has received specific training from Leica, in field and office operation of the Leica hardware and associated software (Cloudworx, Cyclone). Additionally, he has knowledge and practical experience with Civil 3D, Caice, Microstation and Geopak.

# **Relevant Experience**

## **Center Brickell Subdivision**

**Project Owner:** City of Miami **Role in Project:** Production Manager

Project Description: Project Description: Services include initial Boundary Survey, Topographic Survey; Tentative Plat preparation

for City of Miami; and Miami-Dade County review, approval, and Final Plat preparation.

Curtis Park, Miami, Florida
Project Owner: City of Miami
Role in Project: Production Manager

**Project Description:** Services include Boundary and Topographic Survey, including closed traverse; boundary markers, title search/easements, water boundary, closed vertical, site improvements, underground utilities, tree survey, road improvements,

and State Plane Coordinates.

# North Dade Sewage Treatment Plant, Miami, Florida

Project Owner: Miami Dade Water Management Department

Role in Project: Production Manager

**Project Description:** Services included a Boundary and Topographic Survey in support of the treatment plant upgrades. This project included the use of laser scanning in 3-D to locate the components of the plant including tanks, piping and other features.

# SW8th Street (S.R.30) form SE 27<sup>th</sup> Avenue to SE 37<sup>th</sup> Avenue

Project Owner: Florida Department of Transportation District 6

Role in Project: Production Manager

**Project Description**: Services included checking field work; analyzing property corner data; plat boundaries, right of way maps, and producing a Topographic Survey for design purposes depicting all improvements and right of way lines. Role in Project: Production Manager.

# Miami Beach Convention Center Renovation, Miami Beach, Florida

**Project Owner**: Clark Construction **Role in Project:** CAD Manager

**Project Description:** The project consisted of Engineering Surveying support to the general contractor during construction including: plans for the construction support compound; maintenance of traffic plans and permitting; construction layout surveying; laser scanning in 3-D and As-built surveys.







# Wolfgang S. Hueck, PSM Field Crew Supervisor

## **Education**

 University of Nicaragua, U.N.A.N – Civil Engineering (1981)

# Registration

 Florida Professional Surveyor and Mapper, Florida No. LS 6519

## **Affiliations**

 Member of Florida Surveying and Mapping Society (FSMS)

# Years of Experience

29 Years

Mr. Hueck is a Professional Surveyor and Mapper with 29 Years of experience. His responsibilities include the supervision and preparation of the wide variety of surveys encountered at BEC (Boundary, ALTA/ACSM, Record, Topographic, Mean High Water, etc.). He works closely with the office Survey Technicians, CADD operators, and field crew personnel in the management of the numerous surveying projects performed throughout South Florida.

# **Relevant Experience**

# Various State Roads for Florida Department of Transportation District 6, Miami, Florida

Project Owner: Florida Department of Transportation District 6

Role in Project: Field Crew Supervisor

**Project Description:** Services include Recon and locate right-of-way monument section corners. Performed GPS Survey, laser scanning in 3-D, QA/QC PNC work and Horizontal Traverse, and analyze survey right-of-way monumentation in conjunction with record data.

# Krome Avenue, Florida Department of Transportation District 6, Krome Avenue, Florida

**Project Owner:** FDOT District 6 **Role in Project:** Field Crew Supervisor

**Project Description**: The project consisted of Right-of-Way maps of Krome Avenue in the 5-mile segment between SW 8th Street and Kendall Drive in support of the reconstruction of Krome Avenue from 2 lane rural section roadway to a 4-lane divided urban section roadway.

# City of Hialeah

Project Location: NW 142 Street, Hialeah, Florida

Role in Project: Field Crew Supervisor and Professional Surveyor and Mapper

**Project Description**: Miscellaneous Survey Services; project consisted of a Royal Container. Prepare sketch & legal of Pump Station at NW 142 Street with obtained field information and review multiple title documents.

# Lyric Subdivision, Miami Florida

Project Location: Between NW 1 Avenue & NE 2 Avenue and NW 8 St. & NW 9 St., Miami, Florida

Role in Project: Field Crew Supervisor

**Project Description**: The project consisted of initial Boundary Survey, Topographic Survey, Tentative Plat, and Final Plat preparation for City of Miami's & Miami-Dade County's review and approval.

# Met Square, Miami, Florida

Project Owner: Suffolk Construction Project Location: Miami, Florida Role in Project: Field Crew Supervisor

**Project Description:** Project consisted of Miscellaneous Construction Services including but not limited to Initial Gridlines, Sheet Pile, Foundation, Control Lines, Layout Drainage Well Boxes, FPL Duct, Final FEMA Certification, Final Survey, Layout Drainage

Wells, and Piles Layout.







# Igor Volovelsky, SR. Survey Technician

#### Education

Yanshuf Computers College, Jerusalem, Israel (2001–2001) PC Technician and Support College of Electrical Mechanics, Kharkov, Ukraine (1988-1992)

A.S., Certified Technician: Maintenance and Adjustment of CNC Machinery. Caice, Microstation, Geopak, EFB, PEDDS AutoCAD

# Registration

Land Surveyor in Training
The Department of Licensing State of
Washington No. 1049 (2008).

# **Years of Experience**

21 Years

Mr. Volovelsky is a Location Survey Technician with 21 years of experience, 11 years of which have been with Biscayne Engineering. He is experienced in R/W research and calculations for various FDOT State Road projects, preparing PNC, DTM, R/W, control, design, and topographic surveys. He has a good working knowledge of various software programs such as Caice-10, Microstation V8i, Geopak, FDOT-2010, EFB, PEDDS, Hector-Vector, and Civil 3D. He is familiar with FDOT procedures and requirements. Mr. Volovelsky used GPS equipment, total station, level instrument and electronic digital level to obtain elevations.

# **Relevant Experience**

# Krome Avenue (SR 997) from SW 232<sup>nd</sup> St. to SW 136th

Project Owner: Florida Department of Transportation District 6

Role in Project: Sr. Survey Technician

Project Description: Control Survey; Check and process field data; R/W and Baseline analysis utilizing field surveyed

monuments and recorded data. Prepared Control Survey using Microstation and Geopak files.

# 419 Michigan Ave, Miami Beach, FL

Project Owner: South Beach Construction Project Location: Miami Beach, FL Role in Project: Sr. Survey Technician

Project Description: Project consists of Boundary Verification, Field Lay-out of up to 220 Piles, As-Built measurements of

up to 220 piles, Topographic Survey and Boundary. Site Located 419 Michigan Avenue.

# Miami Beach Convention Center Renovation, Miami Beach, FL

**Project Owner**: Clark Construction **Role in Project:** Sr. Survey Technician

**Project Description:** Services include Engineering support to the General Contractor during construction including plans for the construction support compound, multiple maintenance of traffic plans and permitting. Project also includes

Construction Layout Surveying and As-Builts.

# MET Square, Miami, FL

**Project Owner**: Suffolk Construction **Role in Project:** Sr. Survey Technician

**Project Description:** Project consisted of Miscellaneous Construction Services including but not limited to Initial Gridlines, Sheet Pile, Foundation, Control Lines, Layout Drainage Well Boxes, FPL Duct, Final FEMA Certification, Final Survey, Layout

Drainage Wells, and Piles Layout.

# 1900 Collins Avenue, Miami Beach, FL

**Project Owner:** Lennox Hotel **Role in Project:** Sr. Survey Technician

**Project Description:** Miscellaneous Construction Services, including but not limited: Run Benchmarks from Published Controls to the site, Set Gridlines, Stakeout North Property Line; As-built sheet pile on North Side; As Built Piles, Prepare

As-Built drawings.







# Alberto Rabionet, SIT Survey Technician

# **Education**

 2003–2008, 2011-2013 University of Florida, Gainesville, Florida.
 B.S. Geomatics (Cum Laude)

#### Registration

Surveyor in Training
 Florida Department of Agriculture and Consumer Services
 State of Florida (2013)

## **Affiliations**

 Member of Florida Surveying and Mapping Society (FSMS)

# **Years of Experience**

4 Years

Mr. Rabionet is a Surveyor in Training and Survey Technician with 4 years of experience, all of which have been with Biscayne Engineering. He has worked on various right-of-way projects and is experienced in research, calculations, and drafting. He also has experience preparing DTM, R/W, control, design, boundary, and topographic surveys. He has a good working knowledge of various software programs such as Leica's Cyclone and Autodesk's AutoCAD Civil 3D as well as basic scripting capabilities. He has used GPS equipment, total stations, level instruments, laser scanners, and electronic digital levels to obtain field data and elevations.

# **Relevant Experience**

# **Interstate 95 Overpasses**

Project Owner: FDOT District 4

**Project Location:** I 95, Broward County, Florida **Role in Project:** Scanning Manager and Technician

**Project Description**: Research project site and determine survey strategy. Coordinate with data collection, including laser scanning operation, and verify quality control parameters. Check and process field data, register and integrate scan data, import data into software database. Perform boundary and baseline analysis utilizing field surveyed monuments and record data. Prepare Control and Topographic Survey, CAD files, point cloud, GIS layers, and signed and sealed sheets.

# Miami Beach Convention Center and Right -of-Way

Project Owner: City of Miami Beach

Project Location: From Meridian Ave. to Washington Ave. and from 17<sup>th</sup> St. to Dade Blvd., Miami, Florida

Role in Project: Survey Technician

**Project Description**: Coordinate with data collection, including laser scanning operation, and verify quality control parameters. Check and process field data, integrate scan data, import into software database. R/W and baseline analysis utilizing field surveyed monuments and record data. Prepare control survey, files, GIS layers, and sheets.

# Miami Design District Special Area Plan and Right-of-Way

Project Owner: Dacra Development

Project Location: From North Miami Ave. to N. Federal Hwy and from NE 36 St. to NE 42 St., Miami, Florida

Role in Project: Survey Technician

**Project Description**: Coordinate with data collection and verify quality control parameters. Check and process field data, import into software database. R/W and boundary analysis utilizing field surveyed monuments and record data. Prepare control survey, updates, files, and sheets.

NW 47<sup>th</sup> Ave. (SR 847)

Project Owner: FDOT District 6

Project Location: From Miami Gardens Drive (NW 183 St.) to 1000' North of Broward County Line

Role in Project: Survey Technician

Project Description: Prepare R/W file, review title work and recorded instruments. Plot easements and encumbrances

using Civil 3D.







# Randolph Ortega, SIT Survey Technician

### Education

- University of Puerto Rico, Bayamón, PR -Surveying & Topography, Transfer Program in Engineering (2004-2007)
- University of Puerto Rico, Mayagüez, PR BS, Land Surveying, BS, Civil Engineering (2007-2012)

#### Registration

- Member of College of Engineers and Surveyors of Puerto Rico
- Google Sketch-Up 3D Modeling UPR Mayagüez (2010)
- Geographical Information Systems UPR Mayagüez ARC GIS Software.
- Member Florida Surveying and Mapping Society (FSMS), Palm Beach Chapter
- Association of Engineers and Surveyors of P.R. (CIAPR)

Mr. Ortega is a Survey Technician with 4 years of experience and he graduated with a degree of Science in Land Surveying & Topography and a Science in Civil Engineering from the University of Puerto Rico. Mr. Ortega has Supervisor responsibilities over multiple survey crews. Mr. Ortega has been responsible for preparation of Topographic, ALTA/ACSM, As-built surveys and Subdivision Plats for numerous projects throughout South Florida and North Texas. Mr. Ortega has extensive experience with Caice-10, Microstation V8i, Geopak, EFB, Hector-Vector, and Civil 3D as well as basic scripting capabilities, and Carlson Survey software.

## **Years of Experience**

22 Years

# Relevant Experience

# I-95 at 6<sup>th</sup> Avenue in Lake Worth, Lake Worth, Florida

**Project Owner:** FDOT District 4 **Role in Project:** Survey Technician

**Project Description**: Processed conventional and GPS survey data for DTM and Right of Way monumentation; Performed field LIDAR survey for I-95 underpass; extracted survey files from LIDAR data in Microstation using Topo-DOT software; drafted deliverable survey files for FDOT and drafted Project Network Control (PNC) sheets.

# Interstate 95 from Dade/Broward County Line to Johnson Street Design Survey

**Project Owner:** FDOT District 4 **Role in Project:** Survey Technician

**Project Description:** Assisted in preparation of scope of services; researched for Horizontal and Vertical Control Points from NGS; prepared GPS Plan for Fast Static Observations; lined out and manage field crews in work to be performed in different phases; researched for Section Corner records and recorded documents for right-of-way determination; processed survey data for GPS static observations, RTK methods, conventional surveying with EFB and leveling; extracted survey files from LIDAR data in Microstation using TopoDOT software; drafted worksheet for historic baseline and supporting documents; drafted deliverable survey files for FDOT.

# S.F.W.M.D. Southern Glades, Souther Glades, Florida

**Project Owner:** S.F.W.M.D. **Role in Project:** Survey Technician

**Project Description:** Researched for Horizontal and Vertical Control Points from NGS; managed field crews in work to be performed and methodology; processed GPS VRS & RTK data, perform site calibration, and supervised field crews and GPS operations on site.



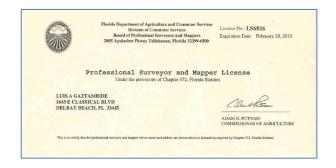




# **LICENSES AND CERTIFICATIONS**

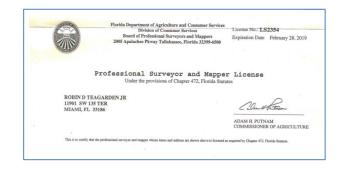




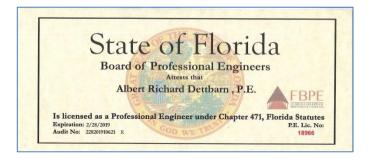
















I certify from the records of this office that BISCAYNE ENGINEERING COMPANY, INC. is a corporation organized under the laws of the State of Florida, filed on January 12, 1914.

The document number of this corporation is 006518

I further certify that said corporation has paid all fees due this office through December 31, 2018, that its most recent annual report/uniform business report was filed on January 5, 2018, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2018

Ken Define Secretary of State

Tracking Number: CC8825725776

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

https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthenticatio

Florida Department of Transportation

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Michael Barthodomew, President

BISCAPNE INNOREERING COMPANY, INC.

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# **CUMMINS | CEDERBERG Coastal & Marine Engineering**

CUMMINS | CEDERBERG



# state of Florida Reg. No. 69839

PROFESSIONAL AFFILIATIONS

Danish Society of Hydraulic Engineering

South Florida Association of

Urban Land Institute

# Jannek Cederberg, M. Sc., P.E.

Key West by the Sea FEMA Rood Map, Key West: Coasial engineering analysis to assess impacts relative to FEMA's flood insurance rate map. Offshore wave data was analyzed wave modeling conducted. An assessment of potential erosion was conducted. The site spe analyses were reviewed by FEMA and the flood insurance rate map was updated.

Ocean Pointe FBMA Road Map. Key Largo: Sile specific analysis of wave attenuation effect of dense mangrove area as it relates to FBMA's flood insurance rate map. Defailed evolution or vegetation including mapping of height. density and trusk domests. A costal engineering analysis was conducted to assess stom impacts. Offshore wave data was analyzed and wave modeling conducted. An assessment of potential enaline was conducted. The site specific analyses were reviewed by FBMA and the flood insurance map was updated.

Sheraton Key West Rood Map, Key West: Coastal engineering analysis to assess storm impacts relative to FEMA's flood insurance rate map. Offshore wave data was analysed and wave modeling conducted. An assessment of potential crosion was conducted. The site specific analyses were reviewed by FEMA and the flood insurance rate map was updated.

Clearwater FBMA Urban Wave Alternation Wall, Clearwater: Design of wave attenuation wall to increase coatal resiliency for beach front properly. The wall was designed to withstand impacts associated with a 100-year stam event a defined by FBMA uch as were bodings and soon. A costal engineering analysis was conducted to evaluate the wave afternation characteristics of the wall. FBMA reviewed all analyses and designs as well an updated the food invarance rate map. The wall was designed to blend into the existing urban existing bradicape.

North District Wastewater Treatment Plant, Milamit: Assessment of coastal resiliency of important inflastructure components relative to flooding and sea level tile. LIDAR data was analyzed to provide prepare topographic data. Analyzed strom urgie impoch from histoticch nutricone events as well as assessed potential and magnitude of future impacts. Evaluated risk and probability of various events.

One Miami Condominium, Miami. Above and below water structural inspection of more than 900 feet or bulkhead consisting of steel sheet piles, reinforced concrete cap, and concrete mat scour protection. Prepared engineering report to document investigation, including specific deficiencies, conditions rating and cost estimate for recommended repairs.

Cummins | Cederberg 7550 Red Road, Suite 217 • South Miami, Florida 33143 Phone: +1 305 7416155 • Fax: +1 305 974 1969



REGISTRATION

# Professional Engineer Florida No. 71538 PROFESSIONAL AFFILIATIONS

American Institute of Architects

CUMMINS | CEDERBERG

# Jason R. Cummins, M. SC., P.E.

Sediment Study, Turks and Calcos. Reld investigations to collect sediment core samples fros seabed in multiple locations. Collected samples were tested for grain size and compo Conducted coatral study to evaluated wind, wave and tidal farcting mechanisms relatisedment transport.

Mr.Cummins is a registered Professional Engineer in the U.S.: capable of designing morine facilities, but representations of the professional engineer in the U.S.: capable of designing morine facilities, but representations the professional engineer in the U.S.: capable of designing morine facilities, but representations the professional engineer in the U.S.: capable of the U.S.: capa

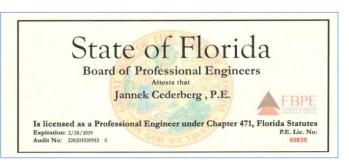
Winston Towers 700, Sunny Isles Beach. Repair and/or replacement of more than 1,000 feet of se

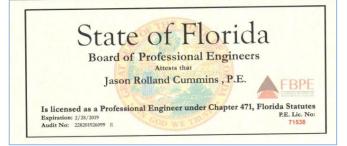
For of Rodan Cruise Terminal, Rodan, Honduras. Design of reclamation and shore protection for cruise terminal expansion. Numerical modeling of hurricane, storm surge, and wave propagation. Site inspections and surveying.

Ambergits Cay, Turks and Colcos. Engineering design of coastal works including entrance char dredging. 150-lip martina, and RO/RO platform for shipments to remote island. Perfor hydrodynamic numerical modelling of the flushing characteristics for a proposed martina basin.

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Matthew R. LaLuzerne, PSM Vice President

PROJECT ASSIGNMENT

#### **Professional Profile**

Mr. LaLuzerne is the Operations Manager for GPI's Geospatial Division, and oversees the day-to-day operations of the

photogrammetric surveying and mapping. Aerial and Mobile LiDAR, and Orthophotography projects. He has an extensive background with a variety of survey services, including mobile and aerial LiDAR, traditional ground survey, and utility.

Mr. LaLuzerne is experienced in managing multi-serviced projects and contracts, scheduling resources, meeting schedule deadlines and budgetary constraints, and finding innovative techniques to increase efficiency and quality control processes.

#### **Project Experience**

SR 7/US 441/NW 7th Avenue from Little River Drive to South of NW 119th Street. Miami-Dade County, FL Florida Department of Transportation - District 6 - Performed under our current districtwide contract, GPI was tasked to provide a topographic survey of SR 7/US 441/NW 7th Avenue utilizing mobile LiDAR and conventional ground survey. GPI secured the LiDAR point cloud data and digital imagery for this 2.1 mile project, utilizing our mobile laser scanning system. GPI was responsible for merging the data with the field data of the obscured areas.

PD&E Study for Widening of the Sawgrass Expressway (SR 869) from South of Sunrise Boulevard to South of US-441/SR 7, Broward County, FL Florida Department of Transportation Tumpike Enterprise - GPI utilized a mid-altitude helicopter photography (MAMP) and Mobile LiDAR approach to provide a design survey for the 19.2 miles corridor along the Sawgrass mainline, ramps and side streets. GPI was responsible for merging the field survey data from obscured areas to the design survey database.

14th Avenue Bike Lanes from Atlantic Shores Boulevard to SR 822 (Sheridan Street), Broward County, FL. Florida Department of Transportation District 4 - GPI was tasked under our current Districtwide contract to provide 3D design survey of the 3.45 mile bike lane project corridor utilizing a combination of Terrestrial Mobile LiDAR (TML) and conventional survey. GPI was also responsible for target placement and merging the field survey data and our LiDAR data set for the final deliverable to the District.

Broward Mobility Projects, North 64th Avenue, SW 56th Avenue and SW 62nd Avenue, Broward County, FL. Florida Department of Transportation District 4 - This 8 corridor mile project required a hybrid approach of mobile LiDAR and conventional survey to provide a 3D and 2D design survey. The topographic survey data will be utilized to support the design mobility improvements of bike lanes, ADA ramps and sidewalks along the project corridors on SW 56th Avenue, SW 62nd Avenue and NW 64th Avenue. GPI was also responsible for target placement and merging the field survey data and our LiDAR data set for the final deliverable to the District.

**EDUCATION:** 

BS / Geomatics / University of Florida MBA / Rollins College

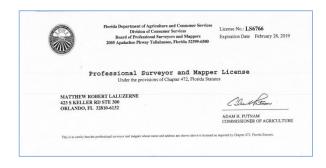
REGISTRATION:

or & Mapper #LS6766 / FL

**TOTAL YEARS EXPERIENCE: 13** 

**GPI** 











JAY SCAGLIOLA, P.L.S.

Director of Florida Operations InfraMap Corp - West Palm Beach, Florida

#### **EDUCATION**

Palm Beach Community College, Surveying and Mapping 1989

## PROFESSIONAL REGISTRATION

Professional Land Surveyor, 1992 State of Florida License No. 5066

#### TRAINING

Traffic Control Certification since October, 2001 Confined Space Entry Training Program Certification (OSHA 1910.146) FUCC Utility Coordination Discussion Seminar Regular Attendee

#### KEY QUALIFICATIONS

As Director of the Florida operations at InfraMap Corp, Jay Scagliola's extensive experience has maintained the integrity of our survey department companywide. Mr. Scagliola has been surveying in Florida since 1971 and is well versed in all phases of land surveying including drafting, mapping performance standards, data collection and calculation. He also has experience managing both utility locating designating and utility test hole projects.

Mr. Scagliola joined InfraMap Corp in 1996. He is the key person in coordinating our utility locating. His familiarity with subsurface utility investigations, along with survey knowledge, is essential to InfraMap. He directs all contractual, managerial and supervisory aspects. His responsibilities include: designating and utility locating project coordination in Florida, client communication, contracts, scope detail, quality assurance/ quality control, and final project review of survey processing and computer drafting. Mr. Scagliola's widespread network of contacts and utility locating knowledge is well respected at the Florida Department of Transportation, as well as with private clients and municipalities.

#### PROJECT EXPERIENCE

Role for the following projects: Project Manager and Project Surveyor - scope meeting, review records, QA/QC and final project review of survey and CADD

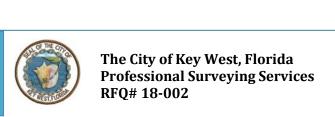
Miami Beach Convention Center, Miami Dade County 9/2015: Inframap performed the infrastructure targeting locating the features requested within the Parking Lots, Holocaust Memorial, Botanical Gardens, Jackie Gleason Theater, City Offices and 17<sup>th</sup> Street. The mapping process entailed the use of ground penetrating radar and other methods to identify the utility line locations and paint marks are then surveyed in by field crews. City of Miami Beach Public Works Department contact and close coordination with Brian Bellino. Inframap sub consultant to Biscayne Engineering. Reference: Mike Bartholomew (305) 324-7671

Town of Palm Beach Town wide Undergrounding, Palm Beach County, FL 2016-2018: Utility locating services to depict existing conflicts and proposed structure conflicts starting at the north-end of Palm Beach Island. A total of over three hundred test hole locations to be completed and referenced survey data recorded on our submittal. This Design Engineering project is spearheaded by Anjuli Panse, P.E. of Kimley-Horn. Reference: Ms. Anjuli Panse (561) 840-0243

SR 5 / Overseas Hwy, Johnson Road to Channel Bridge and west of Kemp Channel to Niles Channel: Monroe Country, FL 3/2017 InfraMap Corp locating crew investigated infrastructure along SR 5 on Upper Sugarloaf Key to Cudjoe Key and furthermore to Summerland Key for the Department of Transportation for the depiction of possible conflicts in the design Phases I-III of utility improvements or roadway expansion. Locating and targeting came before approximately 30 test hole locations and specific areas or targeting. Detail coordination with project manager, surveyors and municipality as necessary. Reference: Mr. Tony Soto at Florida Department of Transportation, District 6 (305) 470-5232











# ISLAND SUREYING

## Frederick H. Hildebrandt, P.E., P.S.M.

#### REGISTRATION:

Professional Land Surveyor and Mapper, State of Florida, No. 2749 (June 1974) Professional Engineer, State of Florida, No. 36810 (March 1986)

#### **EDUCATION:**

Associate in Applied Science, Civil Technology, State Univ. at Farmingdale, N.Y. (1965)

Union College, Cranford New Jersey, Civil Engineering Courses

Bachelor of Arts, Real Estate major, minor in construction, Florida International University, Miami, Fl. (1978)

Masters of Science Program, Environmental & Urban Systems, FIU, Miami Florida Currently Masters program in International Real Estate (Dec. 2018). FIU

## PROFESSIONAL EXPERIENCE:

2008 to present: Principal, Island Surveying Inc. Key West, Fl. 33040

1983 to 2008: Principal, F.H. Hildebrandt, Key West, and Miami

1982-1983: Chief Land Surveyor, Manager Survey Department, Vice President, Carr Smith & Associates Coral Gables. Fl.

1981: Survey Manager Hole Montes & Associates, Naples, Fl.

1973-1980: Chief Land Surveyor, Manager Survey Department, Vice President, Carr Smith & Associates Coral Gables, Fl.

1971-1973: Senior Party Chief, Porter & Ripa Associates, Morristown, New Jersey

1969-1971: Party Chief, Sailor & Sailor, Elizabeth, New Jersey

1969: Instrument man, Stanley Engineers, East Providence, Rhode Island

#### MILITARY

1965-1969: U.S.N. Seabees, Engineering Aid Second Class, three tours to the Republic of Vietnam,

#### HISTORY

Surveyed in New Jersey, Connecticut, Massachusetts, Rhode Island, and Florida. Also surveyed in Asia, Africa, and the Caribbean.

# OTHER LICENSES

Private Pilot

Certified open water diver

# MAJOR PROJECTS:

U.S. Navy, all Key West Bases

City of Key West, Misc. Surveys including Truman Annex

Monroe County, Misc. Surveys

Monroe County School Board, most of the county schools

K.W. Housing Authority, Sands and No. Roosevelt Housing

Singh Properties. K.W. Golf Course, Parrot Resort, Truman Annex, Knights Key, Marathon

Monroe County Airports

Surveyed over 10,000 properties in the Florida Keys

#### **Donald Fletchall**

#### EDUCATION:

Graduate of Saint Mary Immolate High School, 1977 Associate degree work in Business, FKCC, UF

### PROFESSIONAL EXPERIENCE:

Civil Service, U.S. Navy

5 Years Waste Management

10 Years Hazardous waste

5 Years management partner, M & M, LLC, DBA, Haagen-Dazs

13 years senior Party Chief, Island Surveying, Inc.

#### HISTORY:

Involved with all office and field work for Island Surveying, Inc. Proficient in Autocad 2004 – 2012 GPS Operation

Robotic Total Station

# OTHER LICENSES

Certified open water diver

#### MAJOR PROJECTS:

U.S. Navy, all Key West Bases

City of Key West, Misc. Surveys including Truman Annex

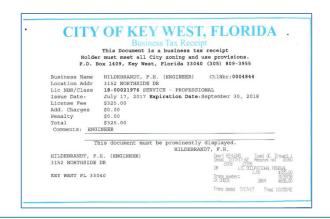
Monroe County, Misc. Surveys

Monroe County Airports

Monroe County School Board, most of the county schools K.W. Housing Authority, Sands and No. Roosevelt Housing Singh Properties. K.W. Golf Course, Parrot Resort, Truman Annex

State of Florida
Board of Professional Engineers
Attests that
Frederick Herman Hildebrandt, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Engineer 278 (200)







# PARAMOUNT TITLE

**ELIANA LEAL, ESQ.** 7501 W. OAKLAND PARK BLVD. TAMARAC, FL 33319

# **EXPERIENCE:**

# Paramount Title Services, Inc.

August 2006 to Present

Legal counsel to title examiners in regards to title research conducted for state and municipal agencies. Clients include the Florida Department of Transportation, the Miami/Ft. Lauderdale/Palm Beach planning and zoning departments, and the Department of Revenue for Broward County. Title examiners under my supervision conduct title research for municipal and state government entities focusing on land use ordinances, reservations for roadway, drainage, and easements.

# **Encore Title and Escrow, Inc.**

2000 to August 2006

Conducted residential and commercial title searches and real estate closings for various lenders and mortgage companies. Facilitated at all stages of real estate purchases and refinances and provided title insurance through several national underwriters.

# Law Offices of Soule, Lean and Associates, P.A.

1996 to 2000

General Practitioner: Concentrating in the areas of Real Estate and Bankruptcy

# **EDUCATION:**

Nova-Southeastern School of Law Juris Doctorate

May 1996

Florida International University
Bachelor of Science: Criminal Justice Major

May 1992



# Miscellaneous Professional Survey Services at Plantation Key School

Biscayne Engineering provided to Plantation Key School Miscellaneous Construction Surveying Services. Tasks included:

- Established one (1) Site Benchmark and Control
- Recon points (old control points).
- Layout up to forty seven (47) building corners.
- Layout the south property lines every 20' and obtained existing ground elevations in 20' intervals along the south property line.



**Project Owner: Monroe County** 

School of Board

**Project Contractor:** Biltmore Construction

Contract Person: Mike Hobbs

E-mail: info@biltmoreconstruction.com

Address: 1055 Ponce De Leon Blvd Belleair, Florida 33756

Phone Number: (727)585-2088

**Period of Services:** On going

Location: 100 Lake Road, Tavernier, FL (Mile Maker 90).

**Approximate Contract Value:** \$18,152.50 (hourly basis)



Biscayne Engineering provided to Plantation Key School Miscellaneous Construction Surveying Services. Tasks included:

- Established one (1) Site Benchmark and Control Points.
- Recon points (old control points).
- Layout up to forty seven (47) building corners.
- Layout the south property lines every 20' and obtained existing ground elevations in 20' intervals along the south property line.



Location: Key West, FL

**Approximate Contract Value:** \$15,114.30 (hourly basis)









# **US Coastal Guard Air Station**

Biscayne Engineering in support of preparation of Storm Water Pollution Prevention Plans, provided to US Coastal Airs Station a topographic survey of all facilities and surrounding areas onboard each Coast Guard Base, Sector, Station, and/or unit. The survey shall include, among other things, the footprint of all buildings, structures, paved areas, parking lots, lands, storm and sanitary pipes, with Global Positioning System (GPS) accuracy. A Computer Assisted Design (CAD) drawing (map) shall demonstrate potential flood plains for natural channel systems and direction of storm water flow throughout each facility; and identify the potential pollutant sources (this will be performed by AECOM) that may come into contact with a facility's storm water runoff.



Project Owner: US Coastal Guard Air Station
Project Contractor: AECOM Services, Inc.
Contract Person: Ashleigh Hernandez
E-mail: Ashleigh.hernandez@aecom.com

**Phone Number**: (512)419-6952

**Period of Services:** 11/2017 to 01/18/2018

Location: Key West, FL

Approximate Contract Value: \$8,813.75 (hourly basis)

# 121 Marina at Ocean Reef Club - Building #2

Biscayne Engineering provided to 121 Marina Condominiums, Key Largo Miscellaneous Construction Surveying Services. Tasks included:

- As-built drawings
- Boundary verification
- Roadway layout



**Project Owner**: 121 Marina **Project Contractor**: Juneau Construction

Contract Person: Alex Buteau E-mail: abuteau@juneaucc.com Phone Number: (305)438-7666 Period of Services: On going

Location: Key Largo, FL

**Approximate Contract Value:** \$21,105.25 (hourly basis)

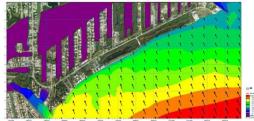




# CUMMINS | CEDERBERG Coastal & Marine Engineering

# Coco Plum Beach Erosion Study and Beach Design Marathon, Florida Keys









Program: Erosion Study and Beach Design

Size: 2,500 feet Client: City of Marathon

Coco Plum Beach is located along the southeast coast of Marathon in the Florida Keys. The beach is one of few beaches in the Florida Keys and popular among residents and tourists. However, the beach has historically experienced significant erosion requiring costly beach fill projects along with the nuisance of construction and periods with limited beach use area. The beach is exposed to the Atlantic Ocean but as fronted by an extensive shallow area reducing direct exposure to ocean waves. Extensive beds of seagrass are located throughout the area.

Cummins Cederberg was retained to conduct an erosion study and prepare a beach design involving coastal structures to provide long term stability. As part of the erosion study, a detailed statistical analysis of offshore wave data was conducted along with a wave propagations study. Sediment transport and potential erosion are typically governed by the wave conditions.

Utilizing the advanced MIKE21 wave model, the wave transformation from offshore to nearshore was analyzed. The detailed wave modelling allowed for detailed review and comparison of the wave climate along the beach as well as assessing sediment transport rates.

Based on the results of the wave modeling and sediment transport assessment the underlying coastal processes of the erosion trends were documented and utilized in the beach and coastal structure design process. The area triggering the beach erosion was identified and solutions for stabilizing this area, while still providing sandy beach access were developed. Understanding the underlying coastal processes allowed for an efficient design that works with the natural processes, thus reducing long term maintenance typically associated with projects working against nature.

CUMMINS | CEDERBERG
7550 Red Road, Suite 217 • South Miami, Florida 33143
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info@CumminsCederberg.com • www.CumminsCederberg.com





# FEMA Coastal Engineering Analysis and Risk Mapping Town of Lauderdale-by-the-Sea, Florida





Program: Coastal Engineering Analysis and Risk Mapping

Size: 5,000 feet

Client: Aquazul Condominium Association, Inc.

Cummins | Cederberg was retained to determine the risk for coastal flooding along a segment of the Broward County shoreline.

The Project included coastal engineering studies and risk mapping according to FEMA standards. Surveying was conducted to obtain updated shoreline conditions for the engineering analysis and input in the numerical model.

Data collection of offshore wind and wave data was conducted and statistical analysis of extreme events was performed. Design wind and waves were determined from various return periods for input into a numerical wave model.

Based on wave and beach conditions, an erosion analysis was conducted to assess wave and flood conditions during a 100-year storm. The erosion analysis considered complete dune removal, which along with an increased water level would allow offshore waves to propagate further landward.

A wave propagation study was conducted based on the eroded profile to determine the shallow water effects on wave height and specifically the wave crest elevation.

At the landward edge of the eroded profile, the potential for impacts on structures from wave runup and overtopping were determined.

Based on the results of the coastal engineering analysis, coastal risk mapping was conducted. The risk mapping identified high, medium and low risk areas relative to flooding as well as hydrodynamic and wave loadings.

The coastal engineering analysis and the coastal risk mapping were reviewed, approved and adopted by FEMA. Cummins | Cederberg facilitated communication between the local and federal stakeholders and maintained frequent communication with FEMA's engineers to keep them involved and facilitate a swift review process.

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Tel: +1 305 741 6155 • Fax: +1 305 974 1969
info@CumminsCederberg.com • www.CumminsCederberg.com



GPI SIMILAR PROJECTS AND REFERENCES			
PROJECT NAME	REFERENCE INFORMATION	YEAR COMPLETED	PROJECT DESCRIPTION
ITD Digital Orthophotography Resolution R-762-11	Karen Grassi, Miami-Dade County, Information Technology Department, 5680 SW 87th Avenue, Miami, FL 33173, 305-596-8582 karen.grassi@miamidade.gov	2016	GPI acquired new controlled natural color orthophotos for the limits of the Urban Development Area (UDB) and areas outside the limits of the UDB, a 1,612 square mile area. The project required high-altitude flying over the central business district. The resulting dataset included 564 square miles within the UDB at a 0.25-foot pixel resolution at a 1*=50' scale and 1,048 square miles of orthophotos outside the UDB at a 1-foot pixel resolution at a 1*=200' scale. Fee: \$408,000
Belle Glade Terrestrial Mobile LiDARr Survey, Palm Beach County, FL	Paul Doll, PSM Florida Department of Transportation – District 4 3400 Commercial Blvd Ft Lauderdale, FL 954-777-4579 Paul.doll@dot.state.fl.us	2017	GPI was contracted to provide a 3D design survey of the project corridors utilizing Terrestrial Mobile LiDAR (TML) and conventional survey for 10 corridors totaling 3.36 miles. The project corridors included:  SW Ave. G from SW 12th Street to SW 14th Street  SE Ave. F from Main Street to SE 7th Drive  NW 1st Street from NW Ave H to NW Ave L  NE 1st Street from NE Ave L to NE Ave H  NE Ave H from Main Street to NE 1st Street  NW 2nd Street from CR 717 to NW Ave H  NE 1st Street from N. Canal Street to NW Ave F  SW 6th Street from MLK Blvd to Ave A  SW 5th Street (From MLK Blvd to W Ave A)  SW Ave A (From SW 6th Street to Main Street)  The topographic survey data was used to support the engineering design along the roadway corridor. Conventional survey data was used to capture off-pavement areas and planimetric features within the specified project limits that are found to be obstructed from view of the LiDAR sensor. The data was merged with the TML data to generate the required final 3D survey & DTM files by GPI. Deliverables included a calibrated LiDAR point cloud in LAS format, 3D MicroStation (FDOT SS4 compliant) files, cross slope & guard rail clearance report, and georeferenced mobile LiDAR imagery Fee: \$73,677
PD&E Study for Widening of The Sawgrass Expressway (SR 869) from South of Sunrise Boulevard to South of US- 441/SR 7, Broward County, FL	Gary Roche, PSM Florida Department of Transportation – FTE FDOT – Turmpike Enterprise Turkey Lake Service Plaza, Bldg. 5315, Ocoee, FL 34761 407-264-3637 Gary.rochel@dot.state.fl.us	2016	The Florida Department of Transportation conducted an 18.5-mile PD&E Study to evaluate widening and capacity improvement alternatives of the Sawgrass Mainline to incorporate Express Lanes from South of Sunrise Blvd. to South of US 44/SR 7 section of the corridor. Potential enhancements and interchange configurations at the following intersections were evaluated for operational improvements: Sunrise Blvd, Pat Solemo Road, Oakland Park Blvd., Commercial Drive, Atlantic Blvd, Sample Road, Coral Ridge Drive and University Drive including potential impacts to the mainline toll plaza north of Sunrise Blvd. A Feasibility Study was performed at the system to system interchange of 1-595/1-75/SR 869 to for potential express lane connections.  GPI performed a customized aerial photogrammetry and Mobile LiDAR approach to support the survey effort utilizing mid-altitude helicopter photography (MAMP) platform and LiDAR collected using our Rieg! VMX-450. The design survey limits were 19.2 miles in length to along the Sawgrass mainline and ramps and approximately 8.2 along the side streets within the area of interest. GPI worked closely with Stantec and Wantman Group, Inc. to collect all survey data per the finalized scope of the project and was responsible for merging the field survey data from obscured areas to the design survey database. GPI provided raster imagery; a calibrated LiDAR point cloud tiled in LAS format; DTM and planimetric topographic survey files in 3-D MicroStation (SS3 compliant) format; pavement cross slope, bridge clearance and guard rail clearance, field survey /trajectory accuracy reports. All work was performed in accordance with the latest FDOT Terrestrial Mobile LiDAR Guidelines and met Florida Minimum Technical Standards. Fee: \$892K





**Similar Projects** 

# SR 5 / Overseas Hwy, Johnson Road to Channel Bridge and west of Kemp Channel to Niles Channel - Monroe County, FL 3/2017

InfraMap Corp locating crew investigated infrastructure along SR 5 on Upper Sugarloaf Key to Cudjoe Key and furthermore to Summerland Key for the Department of Transportation for the depiction of possible conflicts in the design Phases I-III of utility improvements or roadway expansion. Locating and targeting came before approximately 30 test hole locations and specific areas or targeting. Detail coordination with project manager, surveyors and municipality as necessary. Reference: Mr. Tony Soto at Florida Department of Transportation, District 6 (305) 470-5232

# Key Haven FM Transmission System Improvements – Monroe County, FL 5/2017

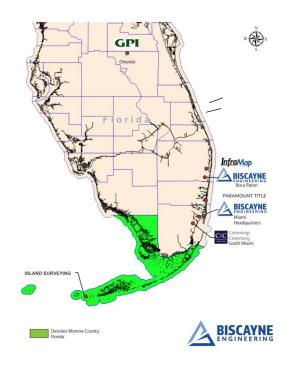
Our crews located utilities along SR 5 at Key Haven force main transmission improvements by the Florida Keys Aqueduct Authority (FKAA). Over 16,400 LF of utilities targeting and 25 test hole locations to accurately map the requested areas. Detailed coordination with project manager, surveyors and municipality as necessary. Reference: Mr. Dave Mathews at Mathews Consulting (561) 655-6175.

# Cudjoe Regional Wastewater Collection System – Monroe County, FL 12/2016

InfraMap locating crew collected and mapped locations within No Name Key for the proposed structural improvements. Detailed conflict report supplied to project manager and survey crew coordination as necessary. Existing utilities depicted and approximately 50 test holes performed. Reference: Mr. Dave Mathews at Mathews Consulting (561) 655-6175.



# **Ability to Perform Services Expeditiously: Location**



As Prime Consultant, immediate response is not only expected, it is essential. Biscayne will work as an extension of the City to address critical issues that arise and must be scheduled immediately. Biscayne has two fully staffed offices located in South Florida. Biscayne Engineering's Miami-Dade location will be serving as primary location.

Biscayne Engineering continuously works in Monroe County, through our FDOT district 6 contracts, for the Monroe County School Board, as well as numerous private clients. After receiving a Notice to Proceed, Biscayne's Team is more than prepared to supply survey crews within 48 hours together with the necessary office support. With Biscayne, the City will have access to a seasoned team of professionals. The resources of our team are broad because we understand your needs. One of our team members, Island Surveying is located in Key West, Florida, and has been providing survey services throughout Key West and Monroe County for decades. Managing such a team is an art that Biscayne has perfected throughout the years.



# **Availability of Project Manager and Technical Support Staff**

For this contract, Biscayne has designated Mike Bartholomew, PSM as Project Manager (PM) and primary point of contact. Mr. Bartholomew has 70% availability to service this City of Key West Contract. During his 28 years with the firm, Mr. Bartholomew has acted as project manager for many similar contracts. Currently and successfully he manages Miscellaneous Surveying/R/W Mapping and Expert Witness contracts with FDOT, and Survey Services Contracts with the City of Miami, City of Hialeah, South Florida Water Management District, and numerous others. Biscayne has learned that putting experienced, licensed professionals in charge of each level of production (including QC), is the best way to ensure a successful project. Under this staff/management model we have found that quality improves, schedules improve, and costs go down. Mr. Bartholomew believes in a hands-on approach: set aggressive goals and work with the managers and sub consultants to make sure these goals are met. Keeping promises is close to an obsession at Biscayne and permeates every aspect of what we do. We strive for 100% customer satisfaction. Additionally, it is essential that a depth of capable and competent Project Managers (PM's) is maintained. The City can be assured that Biscayne has several key personnel that can fill this role.

Biscayne's experience successfully managing contracts/teams similar to this one is unmatched. Biscayne sets aggressive goals for themselves and its team members. Understanding the City's needs is Biscayne's priority. Determining which technology and what combination of team member efforts will provide the highest quality deliverable in the least possible time is our primary objective. Managing the team established for each assignment is our expertise and our obligation. The City will not be left to manage our team members. Biscayne will manage its team and will communicate with the City with transparency and honesty. Our goal is to eliminate all unnecessary involvement of City staff, and at the same time ensure that the work will be completed on time, every time.

The depth of our in-house Technical Support Staff is unsurpassed. Luis Gaztambide, PSM with 22 years of experience will serve as Assistant Project Manager/Project Surveyor. X Antonio Negrin, PSM, and Production Manager also has 22 years of experience. Igor Volovelsky, SIT, and Senior Survey Technician has 21 years of experience. Wolfgang Hueck, PSM, and Field Crew Supervisor has 28 years of experience. Rounding out the senior team is Robin Teagarden, PSM, and QC Manager with over 40 years of experience. Biscayne prides itself on its many long term employees: 10 years is very common and a number of employees have been here for more than 20 years. As much as Biscayne values longevity, we are always looking for new talent. Biscayne employs several university graduates in our surveying department, with the belief that educated staff offers the best value for our customers. Biscayne has developed a technical staff which is goal oriented and flexible. We understand that keeping clients happy means delivering a great product on time and under budget. Our main office is typically open every weekday from 6:30 in the morning to 8:00 in the evening (and weekends, if required) for that very reason.

# We have the manpower, structure and resources needed to comfortably add this very important contract to our workload.

Biscayne Engineering has found it advantageous to maintain a staff level that provides a reserve workload capacity. This reserve capacity allows Biscayne to respond to spikes in the workload and respond to urgency projects without disturbing production in other projects that are underway, staff member courses, or annual leave. Biscayne has the experience to work under any type of stressful situation in the field and /or in the office or to conclude any project in the time frame established. The City of Key West can feel confident that Biscayne Engineering has the staff and resources to take on any assignments required by this contract.





# **Internal Peer Review**

Biscayne performs a rigorous Internal Peer Review on all of our work products, and the work we would perform under this contract is no exception. Surveying is unique: it involves the use of a wide array of technology and software. Every Peer Review plan is unique as well, but each shares some common components.

Biscayne's Peer Review Plan represents our implementation of the QC component of our QA/QC (Quality Assurance/Quality Control) Plan. It is difficult to discuss QC without discussing QA as QA provides the framework for the Peer Review. Put another way, Quality Assurance is process based, while Quality Control is product based. A well designed QA Plan puts in place a structure that establishes desired goals, and a good QC (Peer Review) Plan will confirm that our deliverables have met these goals.

# **Field Peer Review**

Prior to commencing work, a solid field plan is developed, outlining specific goals, and instructions are provided to the field crews so that our primary objectives are met, and that all technical requirements are met. During the course of our field work, we will perform continuous Peer Review by a licensed professional. This task is intended to keep the crews 'on track' with our objectives, as well as to monitor budgets and progress. Some examples include:

# Continuous Peer Review (Field Work)

- Proper Field Procedures
- Proper Time Management
- Suitability/Quality of Control Points
- Safety

At the completion of the field work, an office Peer Review of the field results will be performed by a licensed surveyor prior to delivery of the field results to the CAD department. Some examples include:

# Final Peer Review (Field Work)

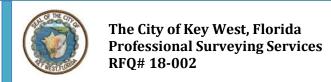
- Accuracy (including GPS)
- Traverse closures
- Redundancy of Angles/Distances
- Chapter 5J-17, Florida Administrative Code (Standards of Practice) review
- Biscayne's internal checklist

Field Notes/records are redlined, once comments are implemented, the highlighted markups are returned to the Peer Review professional for approval/further comments.

# **Office Peer Review**

Prior to commencing Mapping (CAD) work, the Project Manager meets with the CAD Manager and CAD production staff to discuss deliverables. The CAD Manager works with CAD staff on a daily basis to ensure all CAD personnel stay on target

At the completion of the CAD work, a Peer Review of the CAD results will be performed by a licensed surveyor prior to delivery of the maps to Biscayne's Project Manager for final review and delivery to the City. Some examples include:





### Final Peer Review (Office/CAD Work)

- CAD Layer Standards
- Presentation/Clarity
- Adequate research performed (Biscayne's records, City/County/FDOT)
- Chapter 5J-17, Florida Administrative Code (Standards of Practice) review
- Biscayne's internal checklist
- Application of Proper Procedures (Manual of Instruction/Public Lands, etc.)
- Application of Proper Procedures (Mean High Water/FDEP)
- Map check (mathematical closures)

Drawings are redlined, once comments are implemented, the highlighted markups are returned to the Peer Review professional for approval/further comments.





# **Example of Survey Projects** *Miami Beach Convention Center*

Project Owner: Clark Construction Group LLC.

Contract Person: John Cervasio Phone Number: (813) 636-4422 Period of Services: 2015 to Present. Approximate Contract Value: \$395,728

**Brief Description of the Project:** Biscayne Engineering provided Surveying and Mapping Services for the Miami Beach Convention Center and its surrounding lands. Tasks included:

- Topographic Survey of the Miami Beach Convention Center, parking lots, Holocaust Memorial, Botanical Gardens, City Offices except the parking garage(s).
- Drainage Survey: Convention Center Drive, Meridian Ave, 17th St., 18th St., 19th St.
- Designated underground utilities: Vacuum excavation, Reviewed title search and plot easements, HD Scan and Interior Survey inside the Convention Center.



### Southern Glades-C11 Basin Restoration Boundary Services

**Project Owner:** South Florida Water Management District **Contract Person:** Amelia Rodriguez-Alers, PSM, MBA

Phone Number: (561)686-8800

**Approximate Contract Value: \$76,558.50** 

# Period of Services: 2016

### **Brief Description of the Project:**

The project consisted of establishing the boundary of four sections and delineating eighty-three (83) parcels within said sections.

- Provided a Boundary Survey
- Performed Title Analysis







### All Aboard Florida, Miami, Florida



**Project Owner:** Florida East Coast Industries

Contract Person: Kolleen Cobb Phone Number: (305)520-2496 Period of Services: 2015-Present

**Approximate Contract Value:** \$78,022.50

**Brief Description of the Project:** This project consisted of:

- Prepare Sketch to Accompany Legal Descriptions and Isometric Diagrams for intricate 3-dimensional airspaces
- Prepare Boundary Survey

### **Virginia Key Bike and Kayak Facility**

Project Owner: City of Miami Capital

**Improvements** 

Contract Person: José Otávio Caldeira Phone Number: (305)416-1225

**Period of Services: 2013** 

**Approximate Contract Value: \$2,700.00.** 

Brief Description of the Project: This project consisted of a Mean High Water Line Survey (MHWL) of a 250'± length of the Edge of Water at the Virginia Key, Bike and Kayak Facility. We established horizontal and vertical control points and survey baseline along the route. Coordinated with the FDEP to determine Mean High Water Line Elevation; identified and marked points at the approved elevation along the shoreline; measured the horizontal location of the MHWL.



Virginia Key Bike and Kayak Facility/ Virginia Key, Florida



### North District Wastewater Treatment Plant

Project Owner: Miami-Dade Water & Sewer

Department

**Contract Person:** Ralph Cabrera **Phone Number:** (786)236-7606

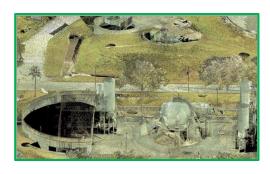
**Period of Services: 2015** 

**Approximate Contract Value:** \$99,750.00

### **Brief Description of the Project:**

Project consisted of prepare high density 3D survey model of the Wastewater Treatment plant for engineering design with reference to a state plane coordinates and a vertical datum. Services Provide by Biscayne Engineering Company included:

- Research project site and determine survey strategy
- Coordinate with data collection
- Including laser scanning operation
- Verify quality control parameters
- Check and process field data, register and integrate scan data
- Import data into software database
- Perform boundary analysis utilizing field surveyed monuments and record data
- Prepare Control and Topographic Survey, CAD files, point cloud, and signed and sealed sheets.





## **CITY STAFF SELECTION CRITERIA MATRIX**

REQUEST FOR QUALIFICATIONS FOR PROFESSIONAL SURVEYING SERVICES

Projec	et Number: RFQ #18-002
Firm .	Biscayne Engineering Company, Inc.
Date	3/22/2018

SELECTION CRITERIA	POINTS ALLOWED	POINTS EARNED
Overall expertise and technical competence of the firm in the required qualifications.	35	
Professional qualifications, certifications and capacity of staff assigned to accomplish work.	20	
Experience with Key West and Monroe County.	15	
Ability to perform the services expeditiously at the request of the CITY. Location and availability of technical support people and assigned project manager to the CITY.	15	
Example projects and references	15	
Total Points	100	

# **ANTI-KICKBACK AFFIDAVIT**

STATE OF FLORIDA ) : SS
COUNTY OF MONROE )
I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.
By: Michael Bartholomew, PSM
Sworn and subscribed before me this

Notary Public State of Florida Joan T Royer My Commission FF 932417 Expires 11/01/2019

# 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.

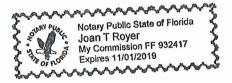
1.	This sworn statement is submitted with Bid, Bid or Contract No. RFQ NO. 18-002 for						
2.	This sworn statement is submitted by Biscayne Engineering Company, Inc.  (Name of entity submitting sworn statement)						
	whose business address is 529 West Flagler Street, Miami, FL 33130						
	and (if applicable) its Federal						
	Employer Identification Number (FEIN) is 59-0165220 (If the entity has no FEIN,						
	include the Social Security Number of the individual signing this sworn statement.)						
3.	My name is Melissa Bolton Calabrese and my relationship to (Please print name of individual signing)						
	the entity named above is Chief Executive Officer						
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(l)(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						

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

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.

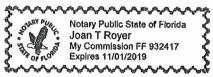
let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

8.					ent, which I ha icate which sta			relation to the entity
	shar	eholders, empe iate of the ent	oloyees, me	embers, oi	agents who	are active	in management	s, executives, partners, of the entity, nor any me subsequent to July
	part an a	ners, sharehol ffiliate of the	ders, emploentity has b	oyees, mei een charge	mbers, or agen	ts who are nvicted of a	active in manag public entity cri	directors, executives, ement of the entity, or me subsequent to July
		Division	of Admini	istrative H	earings. The	inal order	entered by the l	of the State of Florida, hearing officer did not ich a copy of the final
		proceeding. The final	ng before a lorder ente	hearing of	fficer of the Sta e hearing offic	te of Florid er determi	da, Division of Aoned that it was in	has been a subsequent dministrative Hearings. n the public interest to tach a copy of the final
					ot been put or th the Departm			. (Please describe any
		action tai	ken by or p	ending wit	(Signature)	sar B	etai services.)	alres !
STATE	EOFF	Florida			_(Date)			
COUN	TY OF	Miami-Da	ade		_			
PERSO	MALLY A	APPEARED B	Boyes BEFORE M	E, the und	ersigned autho	rity,		
Melis		on Calabre						
who, afte		individual sig	•	nis/her sign	nature in the			
space p	rovided at	oove on this	22	day of	March		, 2018.	
	nmission e RY PUBL			11/1/	2019			



# EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF Florida )
: SS COUNTY OF Miami-Dade )
I, the undersigned hereby duly sworn, depose and say that the firm of Biscayne Engineering Company, Inc. 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: Michael Bartholomew, PSM
Sworn and subscribed before me this
22 day of March , 2018.  NOTARY PUBLIC, State of Florida at Large
My Commission Expires: 11/1/19
Notary Public State of Florida



STATE OF Florida : SS COUNTY OF Mami-Dade )
I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Curmin Caderberg, Inc. 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) 3/22/2018
Sworn and subscribed before me this  22 nd Day of MARCH , 2018.  NOTARY PUBLIC, State of FLORIDA at Large
My Commission Expires: 4-13 -2019  C. BUSTOS V. MY COMMISSION #FF220134 EXPIRES: APR 13, 2019

Bonded through 1st State Insurance

STATE OF)	
STATE OF	
the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of InfraMap Corp 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	
(signature) March 22, 2018 (date)	
Sworn and subscribed before me this	
Barbara Jones	
NOTARY PUBLIC, State of FLorida at Large	
My Commission Expires: 12-08-2021	
600000000000000000000000000000000000000	



STATE OF Florida )	
: 5	SS
COUNTY OF Orange )	
I the undersigned hereby duly sworn	depose and say that all owner(s), partners, officers, directors,
employees and agents representing the	
understand the limitations and procedure	res regarding communications concerning City of Key West issued
competitive solicitations pursuant to	City of Key West Ordinance Section 2-773 Cone of Silence
(attached).	
,	
	$\leq -100$
	(instant)
	(signature) 3/22/2018
	(date)
	, ,
Sworn and subscribed before me this	
22.1	****
Day ofMarch	, 2018.
Sarka Chryant	
NOTARY PUBLIC, State of Florida	at Large
My Commission Expires: March 3	SARKA C BRYANT Notary Public – State of Florida Commission # GG 069293 My Comm. Expires Mar 31, 2021 Bonded through National Notary Assn.

### INDEMNIFICATION

To the fullest extent permitted by law, the CONSULTANT expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONSULTANT, its Sub-consultants or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONSULTANT's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

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 CONSULTANT 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 CONSULTANT or of any third party to whom CONSULTANT may subcontract a part or all the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR:	Biscayne Engineering Company, Inc.	SEAL:
	529 West Flagler Street, Miami, FL 33130	)
	Address	
	ONO	
	Signature	
	Michael Bartholomew, PSM	
	Print Name	
	President	
	Title	
	March 22, 2018	
	Data	

(

# **NON-COLLUSION AFFIDAVIT**

STATE OF FLORIDA )	
: SS COUNTY OF MONROE )	
I, the undersigned hereby declares that the only personal Qualifications are those named herein, that this Request without fraud, that it is made without collusion with any for Qualifications is made without any connection or connection or Qualifications on this Contract.	for Qualifications is, in all respects, fair and y official of the Owner, and that the Request
	By: Michael Bartholomew, PSM
Sworn and subscribed before me this	
22 day of March , 2018.  A ran T Royer  NOTARY PUBLIC, State of Florida at Large	
My Commission Expires: 11/1/2019	
Notary Public State of Fiorida Joan T Royer My Commission FF 932417 Expires 11/01/2019	

STATE OF _F	lorida	)
COUNTY OF	Miami-Dade	: SS _ )

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Biscayne Engineering Company, Inc. 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) Michael Bartholomew, PSM

March 22, 2018

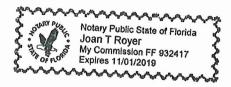
(date)

Sworn and subscribed before me this

22 Day of March , 2018.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: 11/1/2019



# City Ordinance Sec. 2-799 Requirements for City Contractors to Provide Equal Benefits for Domestic Partners

- (a) Definitions. For purposes of this section only, the following definitions shall apply:
  - (1) **Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package: sick leave, bereavement leave, family medical leave, and health benefits.
  - (2) **Bid** shall mean a competitive bid procedure established by the city through the issuance of an invitation to bid, request for proposals, request for qualifications, or request for letters of interest.
  - (3) Cash equivalent means the amount of money paid to an employee with a domestic partner in lieu of providing benefits to the employee's domestic partner. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse.

The cash equivalents of the following benefits apply:

- a. For bereavement leave, cash payment for the number of days that would be allowed as paid time off for the death of a spouse. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- b. For health benefits, the cost to the contractor of the contractor's share of the single monthly premiums that are being paid for the domestic partner employee, to be paid on a regular basis while the domestic partner employee maintains such insurance in force for himself or herself.
- c. For family medical leave, cash payment for the number of days that would be allowed as time off for an employee to care for a spouse who has a serious health condition. Cash payment would be in the form of the wages of the domestic partner employee for the number of days allowed.
- (4) **Contract** means any written agreement, purchase order, standing order or similar instrument entered into pursuant to the award of a bid whereby the city is committed to expend or does expend funds in return for work, labor, professional services, consulting services, supplies, equipment, materials, construction, construction related services or any combination of the foregoing.
- (5) **Contractor** means any person or persons, sole proprietorship, partnership, joint venture, corporation, or other form of doing business, that is awarded a bid and enters into a covered contract with the city, and which maintains five (5) or more full-time employees.
- (6) Covered contract means a contract between the city and a contractor awarded subsequent to the date when this section becomes effective valued at over twenty thousand dollars (\$20,000).
- (7) **Domestic partner** shall mean any two adults of the same or different sex, who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partner who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership

registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Key West pursuant to Chapter 38, Article V of the Key West Code of Ordinances.

- (8) *Equal benefits* mean the equality of benefits between employees with spouses and employees with domestic partners, and/or between spouses of employees and domestic partners of employees.
- (b) Equal benefits requirements.
  - (1) Except where otherwise exempt or prohibited by law, a Contractor awarded a covered contract pursuant to a bid process shall provide benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses.
  - (2) All bid requests for covered contracts which are issued on or after the effective date of this section shall include the requirement to provide equal benefits in the procurement specifications in accordance with this section.
  - (3) The city shall not enter into any covered contract unless the contractor certifies that such contractor does not discriminate in the provision of benefits between employees with domestic partners and employees with spouses and/or between the domestic partners and spouses of such employees.
  - (4) Such certification shall be in writing and shall be signed by an authorized officer of the contractor and delivered, along with a description of the contractor's employee benefits plan, to the city's procurement director prior to entering into such covered contract.
  - (5) The city manager or his/her designee shall reject a contractor's certification of compliance if he/shedetermines that such contractor discriminates in the provision of benefits or if the city manager or designee determines that the certification was created, or is being used for evading the requirements of this section.
  - (6) The contractor shall provide the city manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the city manager has received a complaint or has reason to believe the contractor may not be in compliance with the provisions of this section. This shall include but not be limited to providing the city manager or

his/her designee with certified copies of all of the contractor's records pertaining to its benefits policies and its employment policies and practices.

- (7) The contractor may not set up or use its contracting entity for the purpose of evading the requirements imposed by this section.
- (c) Mandatory contract provisions pertaining to equal benefits. Unless otherwise exempt, every covered contract shall contain language that obligates the contractor to comply with the applicable provisions of this section. The language shall include provisions for the following:
  - (1) During the performance of the covered contract, the contractor certifies and represents that it will comply with this section.
  - (2) The failure of the contractor to comply with this section will be deemed to be a material breach of the covered contract.
  - (3) If the contractor fails to comply with this section, the city may terminate the

- covered contract and all monies due or to become due under the covered contract may be retained by the city. The city may also pursue any and all other remedies at law or in equity for any breach.
- (4) If the city manager or his designee determines that a contractor has set up or used its contracting entity for the purpose of evading the requirements of this section, the city may terminate the covered contract.
- (d) Enforcement. If the contractor fails to comply with the provisions of this section:
  - (1) The failure to comply may be deemed to be a material breach of the covered contract; or
  - (2) The city may terminate the covered contract; or
  - (3) Monies due or to become due under the covered contract may be retained by the city until compliance is achieved; or
  - (4) The city may also pursue any and all other remedies at law or in equity for any breach;
  - (5) Failure to comply with this section may also subject contractor to the procedures set forth in Division 5 of this article, entitled "Debarment of contractors from city work."
  - (e) Exceptions and waivers.

The provisions of this section shall not apply where:

- (1) The contractor does not provide benefits to employees' spouses.
- (2) The contractor is a religious organization, association, society or any non-profit charitable or educational institution or organization operated, supervised or controlled by or in conjunction with a religious organization, association or society.
- (3) The contractor is a governmental entity.
- (4) The sale or lease of city property.
- (5) The provision of this section would violate grant requirement, the laws, rules or regulations of federal or state law (for example, the acquisition services procured pursuant to Chapter 287.055, Florida Statutes known as the "Consultants' Competitive Negotiation Act").
- (6) Provided that the contractor does not discriminate in the provision of benefits, a contractor may also comply with this section by providing an employee with the cash equivalent of such benefits, if the city manager or his/her designee determines that either:
  - a. The contractor has made a reasonable yet unsuccessful effort to provide equal benefits. The contractor shall provide the city manager or his/her designee with sufficient proof of such inability to provide such benefit or benefits which shall include the measures taken to provide such benefits or benefits and the cash equivalent proposed, along with its certificate of compliance, as is required under this section.
- (7) The city commission waives compliance of this section in the best interest of the city, including but not limited to the following circumstances:
  - a. The covered contract is necessary to respond to an emergency. b.

- Where only one bid response is received.
- c. Where more than one bid response is received, but the bids demonstrate that none of the bidders can comply with the requirements of this section.
- (f) City's authority to cancel contract. Nothing in this section shall be construed to limit the city's authority to cancel or terminate a contract, deny or withdraw approval to perform a subcontract or provide supplies, issue a non-responsibility finding, issue a non-responsiveness finding, deny a person or entity prequalification, or otherwise deny a person or entity city business.
- (g) Timing of application. This section shall be applicable only to covered contracts awarded pursuant to bids which are after the date when this section becomes effective.

BISCENGI

#### Client#: 25366

### ACORD.

### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/15/2018

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

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

PRODUCER	CONTACT Nicole Larsen						
Greyling Ins. Brokerage/EPIC	PHONE (A/C, No, Ext): 770-552-4225 FAX (A/C, No): 866-5	50-4082					
3780 Mansell Road, Suite 370	E-MAIL ADDRESS: Nicole,Larsen@greyling.com						
Alpharetta, Georgia 30022	INSURER(S) AFFORDING COVERAGE	NAIC#					
	INSURER A: Travelers indemnity Co of CT	25682					
INSURED	INSURER B : Travelers Indemnity Company	25658					
Biscayne Engineering Company, Inc.	INSURER C : Beazley Insurance Company, Inc.	37540					
529 West Flagler Street	INSURER D:						
Miami, FL 33130	INSURER E:						
	INSURER F:						
COVERAGES CERTIFICATE NUMBER: 18-19	REVISION NUMBER:						
THIS IS TO CERTIEV THAT THE POLICIES OF INSURANCE LISTED BELOW HE	WE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLIC	Y PERIOD					

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

INSR LTR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	X COMMERCIAL GENERAL LIABILITY			6609D522661			EACH OCCURRENCE	\$1,000,000	
İ	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000	
							MED EXP (Any one person)	\$5,000	
					}		PERSONAL & ADV INJURY	\$1,000,000	
1	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$2,000,000	
	POLICY X PRO-						PRODUCTS - COMP/OP AGG	\$2,000,000	
	OTHER:							\$	
В	AUTOMOBILE LIABILITY			BA9D525534	01/01/2018	01/01/2019	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000	
	X ANY AUTO						BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$	
	X HIRED X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$	
								\$	
В	X UMBRELLA LIAB X OCCUR			CUP4195T085	01/01/2018	01/01/2019	EACH OCCURRENCE	\$4,000,000	
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$4,000,000	
	DED X RETENTION \$10,000							\$	
	WORKERS COMPENSATION						PER OTH- STATUTE ER		
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE						E.L. EACH ACCIDENT	\$	
	(Mandatory in NH)	N/A					E.L. DISEASE - EA EMPLOYEE	\$	
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	
С	Professional			V14835180501	01/01/2018	01/01/2019	Per Claim \$2,000,000		
	Liability						Aggregate \$3,000,000		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be atlached if more space is required)
City of Key West is named as an Additional Insured on the above referenced liability policies with the
exception of workers compensation & professional liability where required by written contract.
The above referenced liability policies with the exception of workers compensation and professional
liability are primary & non-contributory where required by written contract.

Waiver of Subrogation is applicable where required by written contract & allowed by law. (See Attached Descriptions)

CERTIFICATE HOLDER	CANCELLATION
City of Key West 1300 White Street Key West, FL 33040	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
,	AUTHORIZED REPRESENTATIVE

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	DESCRIPT	IONS (Co	ntinued fr	om Page 1	)			
Should any of the above described policies be cancelled by the issuing insurer before the expiration date thereof, we will endeavor to provide 30 days' written notice (except 10 days for nonpayment of premium) to the Certificate Holder.								
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•								
		,						
					٠			

### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

# BLANKET ADDITIONAL INSURED (ARCHITECTS, ENGINEERS AND SURVEYORS)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

 The following is added to SECTION II ~ WHO IS AN INSURED:

Any person or organization that you agree in a "written contract requiring insurance" to include as an additional insured on this Coverage Part, but:

- a. Only with respect to liability for "bodily injury", "property damage" or "personal injury"; and
- b. If, and only to the extent that, the injury or damage is caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the "written contract requiring insurance" applies, or in connection with premises owned by or rented to you.

The person or organization does not qualify as an additional insured:

- With respect to the independent acts or omissions of such person or organization; or
- d. For "bodily injury", "property damage" or "personal injury" for which such person or organization has assumed liability in a contract or agreement.

The insurance provided to such additional insured is limited as follows:

- e. This insurance does not apply on any basis to any person or organization for which coverage as an additional insured specifically is added by another endorsement to this Coverage Part.
- f. This insurance does not apply to the rendering of or failure to render any "professional services".
- g. In the event that the Limits of Insurance of the Coverage Part shown in the Declarations exceed the limits of liability required by the "written contract requiring insurance", the insurance provided to the additional insured shall be limited to the limits of liability required by that "written contract requiring insurance". This endorsement does not increase the limits of insurance described in Section III Limits Of Insurance.

- h. This insurance does not apply to "bodily injury" or "property damage" caused by "your work" and included in the "productscompleted operations hazard" unless the contract requiring insurance" "written specifically requires you to provide such coverage for that additional insured, and then the insurance provided to the additional insured applies only to such "bodily injury" or "property damage" that occurs before the end of the period of time for which the "written contract requiring insurance" requires you to provide such coverage or the end of the policy period, whichever is earlier.
- The following is added to Paragraph 4.a. of SECTION IV — COMMERCIAL GENERAL LIABILITY CONDITIONS:

The insurance provided to the additional insured is excess over any valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to the additional insured for a loss we cover. However, if you specifically agree in the "written contract requiring insurance" that this insurance provided to the additional insured under this Coverage Part must apply on a primary basis or a primary and non-contributory basis, this insurance is primary to other insurance available to the additional insured which covers that person or organizations as a named insured for such loss, and we will not share with the other insurance, provided that:

- (1) The "bodily injury" or "property damage" for which coverage is sought occurs; and
- (2) The "personal injury" for which coverage is sought arises out of an offense committed;

after you have signed that "written contract requiring insurance". But this insurance provided to the additional insured still is excess over valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to the additional insured when that person or organization is an additional insured under any other insurance.

We waive any right of recovery we may have against any person or organization because of payments we make for "bodily injury", "property damage" or "personal injury" arising out of "your work" performed by you, or on your behalf, done under a "written contract requiring insurance" with that person or organization. We waive this right only where you have agreed to do so as part of the "written contract requiring insurance" with such person or organization signed by you before, and in effect when, the "bodily injury" or "property damage" occurs, or the "personal injury" offense is committed.

4. The following definition is added to the DEFINITIONS Section:

"Written contract requiring insurance" means that part of any written contract under which you are required to include a person or organization as an additional insured on this Coverage Part, provided that the "bodily injury" and "property damage" occurs and the "personal injury" is caused by an offense committed:

- a. After you have signed that written contract;
- b. While that part of the written contract is in effect; and
- c. Before the end of the policy period.

# COMMON POLICY CONDITIONS

All Coverage Parts included in this policy are subject to the following conditions:

### A. Cancellation

- The first Named Insured shown in the Declarations may cancel this policy by mailing or delivering to us advance written notice of cancellation.
- We may cancel this policy or any Coverage Part by mailing or delivering to the first Named Insured written notice of cancellation at least:
  - a. 10 days before the effective date of cancellation if we cancel for nonpayment of premium; or
  - 30 days before the effective date of cancellation if we cancel for any other reason.
- We will mail or deliver our notice to the first Named Insured's last mailing address known to us,
- 4. Notice of cancellation will state the effective date of cancellation. If the policy is cancelled, that date will become the end of the policy period. If a Coverage Part is cancelled, that date will become the end of the policy period as respects that Coverage Part only.
- 5. If this policy or any Coverage Part is cancelled, we will send the first Named Insured any premium refund due. If we cancel, the refund will be pro rata. If the first Named Insured cancels, the refund may be less than pro rata. The cancellation will be effective even if we have not made or offered a refund.
- If notice is mailed, proof of mailing will be sufficient proof of notice.

#### B. Changes

This policy contains all the agreements between you and us concerning the insurance afforded. The first Named Insured shown in the Declarations is authorized to make changes in the terms of this policy with our consent. This policy's terms can be amended or walved only by endorsement issued by us as part of this policy.

#### C. Examination Of Your Books And Records

We may examine and audit your books and records as they relate to this policy at any time

during the policy period and up to three years afterward.

### D. Inspections And Surveys

- 1. We have the right to:
  - a. Make inspections and surveys at any time;
  - Give you reports on the conditions we find; and
  - c. Recommend changes.
- 2. We are not obligated to make any inspections, surveys, reports or recommendations and any such actions we do undertake relate only to insurability and the premiums to be charged. We do not make safety inspections. We do not undertake to perform the duty of any person or organization to provide for the health or safety of workers or the public. And we do not warrant that conditions:
  - a. Are safe or healthful; or
  - b. Comply with laws, regulations, codes or standards.
- Paragraphs 1. and 2. of this condition apply not only to us, but also to any rating, advisory, rate service or similar organization which makes insurance inspections, surveys, reports or recommendations.
- Paragraph 2. of this condition does not apply to any inspections, surveys, reports or recommendations we may make relative to certification, under state or municipal statutes, ordinances or regulations, of boilers, pressure vessels or elevators,

### E. Premiums

- The first Named Insured shown in the Declarations:
  - a. Is responsible for the payment of all premiums; and
  - b. Will be the payee for any return premiums we pay.
- We compute all premiums for this policy in accordance with our rules, rates, rating plans, premiums and minimum premiums. The premium shown in the Declarations was computed based on rates and rules in effect at





### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 3/14/2018

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

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

th	is certificate does not confer rights	to the	cert	ificate holder in lieu of su			).			
PRODUCER				CONTACT Risk Management Department						
Commercial Lines				PHONE (A/C, No, Ext): 866-443-8489 FAX (A/C, No): 800-889-0021						
USI Insurance Services National, Inc.				E-MAIL ADDRE		mp@trinet.co	om			
2601 South Bayshore Drive, Suite 1600				INSURER(S) AFFORDING COVERAGE					NAIC#	
Coconut Grove, FL 33133									43575	
INSU					INSURER B:					
	et HR III-A, Inc.				INSURE	RC:				
	Biscayne Engineering Company, Inc.				INSURE	RD:				
	Town Center Parkway				INSURE	RE:	,			
Вга	denton, FL 34202				INSURER F:					
				NUMBER: 12826661			<del></del>	REVISION NUMBER: S		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.									WHICH THIS	
INSR LTR	TYPE OF INSURANCE		SUBR WVD			POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
	COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE	S	
	CLAIMS-MADE OCCUR							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	
								MED EXP (Any one person)	\$	
								PERSONAL & ADV INJURY	s	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	
	POLICY PRO- LOC							PRODUCTS - COMP/OP AGG	s	
	OTHER:							00.100.155.00.101.51.11.07	S	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	i
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY HIRED NON-OWNED							BODILY INJURY (Per accident) PROPERTY DAMAGE	S	
	HIRED AUTOS ONLY AUTOS ONLY							(Per accident)	\$	
		<del> </del>	ļ						\$	
	UMBRELLA LIAB OCCUR						,	EACH OCCURRENCE	S	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$ WORKERS COMPENSATION	1				714 10047	7///20/4	X PER OTH-	S	
Α	AND EMPLOYERS' LIABILITY Y/N		Х	WLRC64417733		7/1/2017	7/1/2018			2,000,000
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A						E.L. EACH ACCIDENT	\$	2,000,000
	(Mandatory in NH) If yes, describe under		}					E.L. DISEASE - EA EMPLOYEE  E.L. DISEASE - POLICY LIMIT	S	2,000,000
	DÉSCRIPTION OF OPERATIONS below	<del> </del>						E.L. DISEASE - POLICY LIMIT	<u> </u>	
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  A Waiver of Subrogation applies in favor of certificate holder as required by written contract.  Workers' Compensation coverage is limited to worksite employees of Biscayne Engineering Company, Inc. through a co-employment agreement with TriNet HR III-A, Inc.										
CERTIFICATE HOLDER CANCELLATION										
UEF	RTIFICATE HOLDER				CANC	JELLA HUN				
City of Key West 1300 White Street Key West, FL 33040				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
					AUTHO	RIZED REPRESE		4 4		
							gearm	Brahm		



### THE CITY OF KEY WEST

Post Office Box 1409 Key West, FL 33041-1409 (305) 809-3883

### ADDENDUM NO. 1

### PROFESSIONAL SURVEYING SERVICES / RFQ # 18-002

March 20, 2018

This addendum is issued as supplemental information to the RFQ 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:

- 1. If we have any sub-consultants listed on our Team for this RFQ, are they required to completed any of the required Forms & Affidavits? NO
- 2. Can you please confirm if it is acceptable to have a title company as a sub-consultant/support to complete Title Searches. YES
- 3. Is proof of insurance required to be included in the submittal? NO, however, if firm cannot meet insurance requirements stated in the RFQ, proposed limits must be provided with Qualification submittal.
- 4. Should tabs/dividers be used, will they be counted towards the page count? NO
- 5. Are licenses and certifications included in the page count? NO

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

Biscayne Engineering Company, Inc.

Name of Business