

**RESOLUTION NO. 2019- 2630**

**A RESOLUTION OF THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA APPROVING WORK AUTHORIZATION NO. 127 WITH CALVIN GIORDANO & ASSOCIATES, INC. FOR ENGINEERING SERVICES RELATED TO THE PREPARATION OF A STORMWATER MASTER PLAN FOR THE TOWN; AUTHORIZING THE TOWN MANAGER TO EXECUTE THE WORK AUTHORIZATION; AUTHORIZING THE TOWN MANAGER AND TOWN OFFICIALS TO IMPLEMENT THE TERMS AND CONDITIONS OF THE WORK AUTHORIZATION; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, pursuant to Section 287.055, Florida Statutes (“Consultants’ Competitive Negotiation Act), the Town of Surfside (“Town”) entered into a Continuing Professional Services Agreement (the “Agreement”) with Calvin Giordano & Associates, Inc. (“Consultant”) for professional general architectural, engineering, and surveying and mapping services on October 6, 2014; and

**WHEREAS**, in accordance with the provisions of the Agreement, Consultant and the Town have agreed to enter into the Work Authorization No. 127 (“Work Authorization”) attached hereto as Exhibit “A”, authorizing the Consultant to provide professional engineering services in connection with the preparation of a Stormwater Master Plan for the Town, including evaluation of the Town’s stormwater management practices, existing drainage facilities, future projects and funding, address priority flooding and water quality concerns, and regulatory policies (“Services”); and

**WHEREAS**, the Work Authorization attached as Exhibit “A” provides for a scope of services detailing the Services to be provided by Consultant, as well as compensation for the Services in the amount of \$175,980.03; and

**WHEREAS**, Consultant has agreed to provide the Services described in the Work

Authorization to be entered into with the Town; and

**WHEREAS,** the Town Commission finds that approval of the Work Authorization between Consultant and the Town is in the best interest of the Town.

**NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA, AS FOLLOWS:**

**Section 1. Recitals.** The above recitals are true and correct and incorporated into this Resolution by this reference.

**Section 2. Approval of Work Authorization.** The Work Authorization of the Consultant to provide the Services attached hereto as Exhibit “A,” as acceptable to the Town Manager and approved as to form and legality by the Town Attorney, is approved. The Town Manager is authorized to execute the Work Authorization attached hereto as Exhibit “A” on behalf of the Town.

**Section 3. Authorization of Town Officials.** The Town Manager and/or his designee are authorized to take all actions necessary to implement the terms and conditions of the Work Authorization.

**Section 4. Effective Date.** This Resolution shall take effect immediately upon adoption.

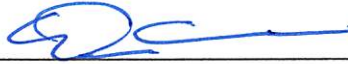
PASSED AND ADOPTED this 10th day of October, 2019.

Motion By: Commissioner Karukin

Second By: Vice Mayor Gielchinsky


**FINAL VOTE ON ADOPTION**

Commissioner Barry Cohen	<u>Yes</u>
Commissioner Michael Karukin	<u>Yes</u>
Commissioner Tina Paul	<u>Yes</u>
Vice Mayor Daniel Gielchinsky	<u>Yes</u>
Mayor Daniel Dietch	<u>Yes</u>



\_\_\_\_\_  
Daniel Dietch, Mayor

Attest:



\_\_\_\_\_  
Sandra Novoa, MMC  
Town Clerk

Approved as to Form and Legal Sufficiency:



\_\_\_\_\_  
Weiss Serota Helfman Cole & Bierman, P.L.  
Town Attorney



**Calvin, Giordano & Associates, Inc.**  
EXCEPTIONAL SOLUTIONS™

September 24, 2019

Mr. Guillermo Olmedillo  
Town Manager  
**TOWN OF SURFSIDE**

9293 Harding Avenue  
Surfside, FL 33154

**RE: Work Authorization No. 127**  
**Town of Surfside Stormwater Master Plan**  
**CGA Proposal No. 19-3122**

Dear Mr. Olmedillo,

Enclosed for your review and approval is Work Authorization No. 127 for Town of Surfside Stormwater Master Plan.

The Scope of Services to be furnished under this Work Authorization includes Civil Engineering as detailed in the attached Work Authorization.

The Basis of Compensation is hourly based upon the established rates pursuant to the Professional Services Agreement between the Town and CGA, plus reimbursables, for a total not to exceed \$175,980.03.

Sincerely,

**CALVIN, GIORDANO & ASSOCIATES, INC.**

Chris Giordano  
Vice President

Building Code Services  
Civil Engineering / Roadway & Highway Design  
Coastal Engineering  
Code Compliance  
Construction Engineering & Inspection (CEI)  
Construction Services  
Data Technologies & Development  
Electrical Engineering  
Engineering  
Environmental Services  
Facilities Management  
Geographic Information Systems (GIS)  
Governmental Services  
Landscape Architecture Planning  
Project Management  
Redevelopment & Urban Design  
Surveying & Mapping  
Traffic Engineering  
Transportation Planning  
Water / Utilities Engineering  
Website Development

1800 Eller Drive  
Suite 600  
Fort Lauderdale, FL  
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954.921.8807 fax

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

**TOWN OF SURFSIDE**  
**Stormwater Master Plan**

**PROJECT DESCRIPTION**

**1. SCOPE OF SERVICES**

We are pleased to submit this proposal for Professional Engineering Services for the above referenced project. These services will be provided in accordance with terms under the approved work authorization. CGA will prepare the Town's Stormwater Master Plan in order to evaluate its stormwater management practices, existing drainage facilities, future projects and funding, and regulatory policies. The updated Stormwater Master Plan will include recently completed construction projects and will address priority flooding and water quality concerns.

**I. Professional Engineering Services**

**A. Civil Engineering**

**1. Task 1: Data Collection and Evaluation**

- CGA will obtain data from the Town of Surfside, South Florida Water Management District, Miami-Dade County and other available sources. The data will include existing reports, studies, GIS information, LiDAR topography, land use, USGS soils information, stormwater structure inventory, stormwater models, water quality data, permits, repetitive property loss information, floodplain management plan, etc.
- CGA will prepare applicable Base Maps, background maps, limited topographic maps, etc. as necessary.
- ~~Specific purpose survey, GPS survey, and site visits will be performed to verify existing storm drainage systems, Seawall elevation, waterways, and canals where necessary.~~
- CGA will review and evaluate the content of the previous Stormwater Reports, Drainage Studies that were prepared for the Town.
- CGA will review previously completed project documents.

- CGA will review as-built plans of stormwater management projects, other utility projects and existing survey information.

## **2. Task 2: H&H Model and Existing Conditions Evaluation**

- Based on collected data and information, CGA will update the hydrologic and hydraulic (H&H) model which was originally developed with ICPR modeling.
- H&H model will be updated to reflect improvements implemented in the past decade as well as further refinement for missing infrastructure and software update.
- CGA will check, verify and calibrate the H&H model and model results based on limited available data of known flood conditions.
- CGA will evaluate the Town's primary stormwater management system based on 5-yr, 1-hour; 5-yr, 24-hour; 10-yr, 24-hour; 25-yr, 72-hour; and 100-yr, 72-hour design storm events.
- CGA will locate and prioritize flooding problem areas within the Town based on adopted Level of Service (LOS) criteria.
- CGA will perform alternative improvements modeling with the goal of improving existing flood conditions, reducing flood damage and improving Level of Service.
- Sea level rise is a growing concern for South Florida. Unified Southeast Florida Sea Level Rise Projection as developed by Southeast Florida Climate Change Compact Work Group indicates 1 foot rise can occur within next 25 to 55 years horizon. Sea level rise of 2 feet can occur within next 45 to 100 years horizon. Sea level rise of 3 feet can occur within next 60 to 135 years horizon. CGA will analyze the Storm Water Model based on these estimated sea level rises and determine the impacts on the Town and its stormwater management systems. CGA intends to develop inundation maps for the Town for predicted sea level rise with or without concurrent rainfall events. Based on the model results, CGA will recommend potential improvements. Potential improvements to eliminate negative impacts of sea level rise may include use of backflow prevention devices, or converting gravity outfalls into pump systems.

## **3. Task 3: Water Quality Evaluation**

- CGA will perform a water quality evaluation as part of the Stormwater Master Plan. CGA will evaluate the applicable water quality data for the Town available from Miami-Dade DRER.

- CGA will identify best management practices (BMP) for Town's primary storm water management system.

**4. Task 4: Evaluation for Alternative Improvements and Recommendations**

- CGA will prepare conceptual design exhibits, location sketches, and cost estimates for alternative drainage improvements.

**5. Task 5: Funding Evaluation for Stormwater Management Projects**

- CGA will review and evaluate alternate potential funding resources, grant and loan opportunities.
- Actual grant applications preparation and submittal are not included in the scope and will need to be addressed by future projects.

**6. Task 6: Regulatory Framework Evaluation**

- CGA will review updated regulatory requirements by SFWMD, FDEP, US EPA, DRER, and NPDES MS4 Permit.
- CGA will evaluate the impacts of such regulatory changes on the Town's Stormwater Management System.

**7. Task 7: Project Deliverables**

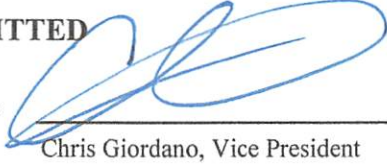
- CGA will document the findings of all tasks in Report Format including applicable Maps, Exhibits, Tables, and Appendices. Draft report will be forwarded to the Town for review and comment.
  - CGA will provide two hard copies of the approved Stormwater Master Plan – Final Report in binders.
  - CGA will provide one thumb drive with a PDF copy of the approved Stormwater Master Plan.
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- CGA will provide one thumb drive with Hydrologic and Hydraulic model.
  - CGA will provide one thumb drive containing GIS Stormwater Data in Standard Geodatabase format.

**2. BASIS OF COMPENSATION:**

Hourly rates with an estimated fee of \$167,600.03 plus reimbursables at \$8,380.00 with a total not to exceed amount of \$175,980.03. Payments to be made monthly.

**3. SUBMITTED**

Submitted by:



Chris Giordano, Vice President

Date:

9/24/19

**4. APPROVAL**

Approved by:

Guillermo Olmedillo, Town Manager

Date:



**TOWN OF SURFSIDE  
WORK AUTHORIZATION ESTIMATE DATE**

**WORK AUTHORIZATION NO.** 127  
**PROJECT NAME** Town of Surfside Stormwater Master Plan  
CGA Proposal No. 19-3122  
**DESCRIPTION** Stormwater Master Plan

<b>TITLE</b>	<b>RATE</b>	<b>HOURS/UNITS</b>	<b>COST</b>
Clerical	\$83.57	70	\$5,849.90
Director Engineering V	\$179.11	28	\$5,015.08
Eng Sr CADD Tech Manager	\$119.41	245	\$29,255.45
Project Engineer III	\$143.28	265	\$37,969.20
Project Manager IV	\$155.23	480	\$74,510.40
Limited Surveying for Task #1	\$15,000.00	1	\$15,000.00
			<b>\$167,600.03</b>

<b>SUB-CONSULTANTS</b>	<b>COST</b>

**LABOR SUBTOTAL** \$167,600.03  
**REIMBURSABLE SUBTOTAL** \$8,380.00  
**TOTAL** \$175,980.03

Reviewed by: \_\_\_\_\_  
Guillermo Olmedillo, Town Manager