



# VILLAGE OF KEY BISCAYNE

## MEMORANDUM

*Village Council*

**Michael W. Davey, Mayor**

**Allison McCormick, Vice Mayor**

**Luis Lauredo**

**Edward London**

**Brett Moss**

**Katie Petros**

**Ignacio J. Segurola**

**DATE:** January 15<sup>th</sup>, 2019  
**TO:** Honorable Mayor and Council Members  
**FROM:** Andrea Agha, Village Manager *AAA*  
**RE:** Signalization Upgrades Plan

### RECOMMENDATION

Approve a work order with Corradino Group, Inc. ("Consultant"), pursuant to the competitively awarded continuing professional engineering services contract to provide for the design and preparation of Signalization Upgrade Plans. Total costs for the Signalization Upgrades project is approximately \$235,000, which is funded by an approximate \$70,000 reimbursement from Miami-Dade County and a \$165,000.00 grant from Florida Department of Transportation (FDOT). Funding needed for the new design plans will initially come from Village Manager's Contingency fund in the amount of \$41,367.20 and ultimately funded in the Capital Improvement Plan (CIP) once adopted in the second quarter of FY19.

### BACKGROUND

On December 12<sup>th</sup>, 2017, the Village Council approved construction for adaptive signalization technology signals on five Crandon Boulevard intersections. Econolite Corporation was designated by Miami-Dade County to be the approved vendor to incorporate the new system. The Village of Key Biscayne in an effort to expedite the process agreed through Joint Participation Agreement (JPA) to provide funding for this project. As part of the JPA, Miami-Dade County agreed to reimburse the Village of Key Biscayne in the amount of \$70,058.96. In addition, the Village sought and received a \$165,000.00 grant from FDOT to assist in off-setting total costs.

The Village applied for the required permits from Miami-Dade County to install the adaptive signalization technology. As part of the permitting process, Miami-Dade County required additional as built designed plans of each intersection. The request to use previous permitting provided to Econolite for intersections outside our jurisdiction was denied. It should also be noted that other municipalities have been required to produce as built drawings for comparable adaptive signalization projects.

Once permitted, Econolite, which has already purchased hardware for the entire project will be allowed to immediately commence work. Although it is difficult to define a timeline for completion, the grant dollars provided by the State of Florida will expire December 2019, if not utilized. The use of adaptive signalization technology intersections will provide for more efficient and effective movement in and out of the Village of Key Biscayne.

Reviewed by Ms. Haydee Sera from Weiss Serota Helfman Cole & Bierman as to form and legal sufficiency.

**RESOLUTION NO. 2019-\_\_\_\_\_**

**A RESOLUTION OF THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AUTHORIZING THE VILLAGE MANAGER TO ISSUE A WORK ORDER TO THE CORRADINO GROUP, INC. FOR AS-BUILT PLANS FOR THE VILLAGE'S TRAFFIC SIGNALIZATION PROJECT; AND PROVIDING FOR AN EFFECTIVE DATE**

**WHEREAS**, the Village of Key Biscayne ("Village") issued Request for Qualifications No. 2016-02-09 ("RFQ") for continuing professional engineering services; and

**WHEREAS**, pursuant to the RFQ, the Village Council selected the Corradino Group, Inc. (the "Consultant") as one of the consultants to provide continuing professional services relating to general civil engineering, transportation planning and engineering, environmental engineering, and landscape architecture, and authorized the Village Manager to execute an agreement with the Consultant; and

**WHEREAS**, Consultant has provided a proposal, attached as Exhibit "A," (the "Proposal") to provide signalization analysis and as-built plans for the Village's traffic signalization project (the "Project"); and

**WHEREAS**, the Village Council desires to authorize the Village Manager to issue a work order for the Project consistent with the Proposal and the professional services agreement entered into between the Village and Consultant; and

**WHEREAS**, the Village Council finds that this Resolution is in the best interest and welfare of the residents of the Village.

**NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA AS FOLLOWS:**

**Section 1.**     **Recitals.** That each of the above-stated recitals are hereby adopted, confirmed, and incorporated herein.

**Section 2.**     **Authorization.** That the Village Manager is hereby authorized to issue a work order to Consultant for the Project that is consistent with the Proposal in an amount not to exceed \$42,000.00.

**Section 3.**     **Effective Date.** That this Resolution shall be effective immediately upon adoption.

PASSED and ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

ATTEST:

\_\_\_\_\_  
MICHAEL W. DAVEY, MAYOR

\_\_\_\_\_  
JENNIFER MEDINA, CMC  
VILLAGE CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

\_\_\_\_\_  
VILLAGE ATTORNEY

# EXHIBIT "A"

## THE CORRADINO GROUP, INC.

CORRADINO

ENGINEERS • PLANNERS • PROGRAM MANAGERS • ENVIRONMENTAL SCIENTISTS

December 4, 2018

Charles R. Press  
Police Chief  
Village of Key Biscayne  
Public Works Department  
88 West McIntyre Street  
Key Biscayne, FL 33149

**Re: Crandon Boulevard Plans for Signalization Upgrades**

Dear Chief Press,

### I. GENERAL

The general objective for the Consultant is to provide all project management and professional engineering services required for the design and preparation of Signalization Upgrade Plans which consist of the following (refer to Exhibit I):

1. Ocean Drive (Asset 3545) - Four (4) new VDCs proposed to replace the 4 existing ones and one blueTOAD to be added to the upright for the mast arm on the SE corner
2. W. McIntyre (Asset 3834)
  - a. Mast arm on the NE corner – One (1) new VDC is proposed (structural analysis required)
  - b. Mast arm on SW corner – Two (2) VDCs to replace the 2 existing (Econolite will revise drawings from the currently 3 proposed to only 2)
  - c. Mast arm on SE corner – One (1) proposed VDC replacing the existing one
3. Sonesta Drive (Asset 6316) – Four (4) VDCs proposed to replace the 4 existing ones
4. Key Colony (Asset 4578)- The exiting Wavetronix will remain, only a controller will be installed
5. West Wood Drive (Asset 5038) - Four (4) VDCs proposed to replace the 4 existing ones

Elements of work shall include Signalization analysis, Signalization Plans and Structural Analysis. Permitting with Miami-Dade County, Department of Transportation and Public Works Traffic Signals and Signs Division is not included as part of this contract and will be conducted by Econolite. All plans and design documents are to be prepared with Standard English values in accordance with all applicable engineering manuals and guidelines.

The Work detailed in this Proposal can be completed within ten (10) weeks from your notice to proceed (please refer to Section III for a submittal schedule) for a total fee of \$41,367.20

### SCOPE OF WORK

#### Project Activity 3: General

##### **Task No. 3.6 Prime Consultant Project Manager Meetings**

Includes all efforts required for Project Manager coordination meetings and field review.

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TEL 800.887.5551 • 305.594.0735  
FAX 305.594.0755  
WWW.CORRADINO.COM

**Project Activity 18: Structures -Miscellaneous (RE1)**

Conduct structural analysis (By Botas Engineering, Inc.) of the existing mast arm at the NE corner of W. McIntyre Street with Crandon Boulevard with the addition of the proposed Econolite Video Camera. As no as-builts are available, it will be considered that the existing mast arm complies with the Miami Dade County mast arm standards.

**Project Activity 21: Signalization Analysis**

**Task No. 21.5 Reference and Master Design File**

Includes all efforts required per intersection for establishing the signal master design file

**Task No. 21.10 Quantities**

Includes all work required to determine the quantities for each signalized intersection

**Task No. 21.11 Cost Estimate**

Includes preparing an Engineers Estimate and updating as necessary

**Task No. 21.14 Field Reviews**

Includes 1 field review for 5 intersections, includes travel time

**Project Activity 22: Signalization Plans**

**Task No. 22.1 Key Sheet**

Includes time to develop key sheet

**Task No. 22.3 Tabulation of Quantities**

Includes time to place pay item numbers, descriptions, quantities and totals

**Task No. 22.4 General Notes/Pay Item Notes**

Includes time to place provide general notes and pay item notes

**Task No. 22.5 Plan Sheet**

Includes all efforts required to create the signalization sheets.

**Task No. 22.9 Special Details**

Includes time to create special details

**II. ADDITIONAL SERVICES**

Additional Services, Permitting, Permitting Fees and Post Design Services are not part of this contract.

**III. SCHEDULE OF WORK – TIME OF PERFORMANCE**

Consultant shall submit the Deliverables and perform the Work as depicted in the tables below (Additional pages may be added as needed)

<b>SCHEDULE OF DELIVERABLES</b>			
<b>Task, Sub-task, or Activity ID #</b>	<b>Major Task, Sub-Task, Activity, or Deliverable</b>	<b>Duration (specify weeks or calendar days)</b>	<b>Delivery Date* (cumulative weeks or calendar days)</b>
1	Phase I Submittal -90% Plans	6 weeks**	NTP + 6 weeks
2	Phase 2 Submittal – Final Plans & Final Permitting	4 weeks***	NTP + 10 weeks (pending on timely response from MDC Traffic & Signals Division)

RE1	Structural Analysis/Report	1 week	NTP +1 week
<p>* An updated schedule, indicating actual delivery dates, based on the above durations, will be provided to the Village upon receipt of the NTP and will be submitted to the Village of Key Biscayne.</p> <p>**Includes time for coordination with Miami-Dade County Public Works Traffic Signals and Signs Division</p> <p>***May vary based on review delays from Village as well as by the Miami-Dade County Public Works Department Traffic Signals and Signs Division.</p>			

**IV. SUB-CONSULTANTS**

The below listed Sub-Consultants will assist in the performance of the Work.

Sub-Consultant Name	Specialty or Expertise
Botas Engineering, Inc.	Structures

**V. COMPENSATION**

Consultant shall perform the Work detailed in this Proposal for a Total fee of \$41,367.20. The Village shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount. Said fee shall be negotiated with the Village as Additional Services (refer to Section II).

SUMMARY OF COMPENSATION			
Task or Activity ID #	Major Task Name and/or Activity Description	Fee Amount	Fee Basis
1	Phase I Submittal – 90% Plans	\$30,814.56	Lump Sum
2	Final Submittal – 100% Contract Plans	\$ 7,703.64	Lump Sum
<b>Subtotal – Professional Fees</b>		<b>\$38,518.20</b>	<b>Lump Sum</b>
RE1	Structures (upon completion)	\$2,849.00	Lump Sum
<b>TOTAL</b>		<b>\$41,367.20</b>	

\*Note: Compensation should match the Task, Activities, and/or Deliverables identified.

**VI. PROJECT MANAGER**

CONSULTANT'S Project Manager for this Work Order assignment will be Cecilia Villoria, P.E.

Submitted by:

Reviewed and approval in concept recommended by:

\_\_\_\_\_  
 Joseph M. Corradino, AICP  
 President  
 The Corradino Group, Inc.

\_\_\_\_\_  
 Charles R. Press  
 Police Chief  
 Village of Key Biscayne

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