



Board of County Commissioners

Administration - Building A

1801 27th Street

Vero Beach, Florida 32960

Telephone: (772) 567-8000 FAX: 772-778-9391

Project:

2017 WINTER Countywide Beach Profile Monitoring Surveys

WORK ORDER NO. 2 (Hydrographic Surveying)

FOR

PROFESSIONAL SERVICES AGREEMENT

ANNUAL SURVEYING and MAPPING/GIS SERVICES

WITH

MORGAN AND EKLUND, INC

In accordance with Contract No. 1605 2016-2018

This Work Order No. 2 is in accordance with the existing AGREEMENT dated October 4, 2016 and as amended October 18, 2016, between Morgan and Eklund, Inc., (**SURVEYOR**) and Indian River County (**COUNTY**); This Work Order No. 2 amends the agreement as follows:

SECTION I – PROJECT LIMITS

This Work Order No. 2 is for the **SURVEYOR** to perform all related field and office Surveying and Mapping services in connection with the **2017 Countywide Beach Profile Monitoring Surveys (WINTER)**; Florida Department of Environmental Protection Reference Monuments R-20 – R-119.

SECTION II - SCOPE OF SERVICES

As agreed upon between **SURVEYOR** and **COUNTY**, the **SURVEYOR** shall provide Professional Land Surveying services to complete all tasks as outlined in this Work Order No. 2; specifically detailed in the attached proposal Exhibit A.

SECTION III – TIME FOR COMPLETION & DELIVERABLES/WORK PRODUCT

1. Project shall be completed as follows:

- a. 100% "Paper" review submittal (final review prior to request for final deliverables) shall be made within 90 calendar days of receipt of Notice to Proceed for review by County Staff prior to preparing the final submittal package.
- b. Time of FINAL project completion shall be within 10 calendar days of receipt of the County's review comments from the 100% "Paper Submittal".

2. **Deliverables** -The **SURVEYOR** shall provide the **COUNTY**:
- a. 100% Phase Submittal for **COUNTY** review and comment. All submittals shall include one (1) paper "hardcopy" along with AutoCad Files and an ASCII file for all survey points. **COUNTY** shall strive to provide review comments within 10 calendar days of the preliminary submittal.
 - b. FINAL Deliverables, one (1) paper "hardcopy" signed and sealed sets. Sheeted and model space (as applicable) AutoCad drawing file in release 2009 through Civil 3D 2013, PDF formats and an ASCII file for all survey points, all electronic files to be on CD.
 - c. Survey set/sheets shall include a cover sheet with location sketch, survey certifications, related title and project number, survey notes, legend and abbreviations and plan view sheets.
 - d. Work Product and digital versions are to be prepared and submitted so that the **COUNTY** or other consultants can readily use it for the design and analysis of the area, as defined. It shall contain all information necessary for third-party surveyor to independently recreate and/or utilize the survey work. It is acknowledged all final products become property of Indian River **COUNTY** and will be available for use by the public at large.
 - e. The **SURVEYOR'S** work product shall meet or exceed the minimum standards as defined by Sections II, III and IV or the **COUNTY** will not approve the **SURVEYOR'S** request for payment.

SECTION IV – COMPENSATION

The **COUNTY** agrees to pay, and the **SURVEYOR** agrees to accept, for the above described services rendered as identified in Sections I, II, and III of this Work Order No. 2, for a total lump sum fee of \$55,000.

All and/or any additional services not described hereon shall be pre-approved by the **COUNTY**. Approved additional services shall be invoiced at the rates disclosed in the approved fee schedule with the **SURVEYOR** for the contract year(s) of October 1, 2016 through September 30, 2018.

All invoicing shall include Work Order No. 2 (WO 2), Contract Number (1605). Payments shall be in accordance with the original Professional Surveying and Mapping Services Agreement, Contract No: 1605 with the **COUNTY** and as stated in Section II, III and IV hereon.

The AGREEMENT is hereby amended as specifically set forth herein. All remaining sections of the AGREEMENT shall remain in full force and effect, and are incorporated herein.

IN WITNESS WHEREOF the parties hereto have executed these presents this _____ day of _____ 2017.

**OWNER
BOARD OF COUNTY COMMISSIONERS
INDIAN RIVER COUNTY, FLORIDA**

Morgan and Eklund, Inc.

(Signature)
Joseph E. Flescher, Chairman

(Signature)
John R. Morgan, President
(Printed name and title)

Approved by BCC _____

**ATTEST:
Jeffrey R. Smith, Clerk of Court and
Comptroller**

Witnessed by:

(Seal) Deputy Clerk

(Signature)
**Debbie Carlyle -
Office Manager**

Approved:

Jason E, Brown, COUNTY Administrator

Approved as to Form and Legal Sufficiency:

**William K. DeBaal, Deputy COUNTY
Attorney**

EXHIBIT A



MORGAN & EKLUND, INC.
PROFESSIONAL SURVEY CONSULTANTS

December 7, 2016

Indian River County
Attn: Mr. James Gray, Jr.
Coastal Engineer
1801 – 27th Street, Building A
Vero Beach, Florida 32960

RE: Winter 2017 Indian River County Coastal Monitoring Survey; Onshore/Offshore Profiles along FDEP Range Lines R-20 to R-119 (100 Lines)

Dear James:

Morgan & Eklund, Inc. is pleased to provide you with the following proposal to furnish professional land and hydrographic survey services for the above referenced project.

Beach profiles will include R-20 through R-119, a total of 100 (one hundred) beach profile lines. All data collected will be in accordance with the FDEP-approved Physical Monitoring Plan. Morgan & Eklund, Inc. will provide the County with beach profile data in ASCII file format together with AutoCAD drawings signed by the surveyor. The survey will be performed during January/February 2017 with drawings and reports completed in April 2017.

Additionally, the landward occurrence of rock outcroppings will be identified along each profile line.

In accordance with the scope of work as discussed, I estimate our costs to be as follows:

I. Winter 2017 Sector 3 Beach and Dune Restoration Project Post Construction Monitoring Survey (R-30 to R-60)

31 Onshore/offshore
profile lines @ \$550/line.....\$17,050.00

II. Winter 2017 Sector 7 Post Construction Monitoring (R-97 to R-108)

12 Onshore/Offshore
profile lines @ \$550/line.....\$ 6,600.00

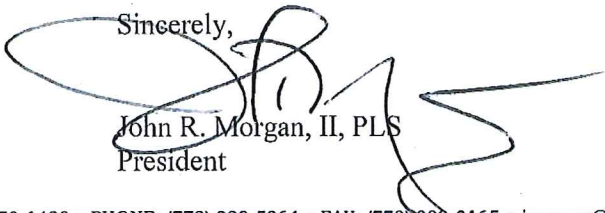
III. Winter 2017 Countywide Beach Monitoring (R-20 to R-29 together with R-61 to R-96 and R-109 to R-119)

57 onshore/offshore
profile lines @ \$550/line.....\$31,350.00

Total Cost I-III\$55,000.00

As always, Morgan & Eklund, Inc. is looking forward to working with you and Indian River County on this project.

Sincerely,


John R. Morgan, II, PLS
President

JRM:dmc