



Morgan & Eklund, Inc.
 4909 US Highway 1
 Vero Beach, Florida 32967

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November 16, 2020
 (Revised December 2, 2020)

Indian River County
 Public Works Coastal Division
 Attn: Mr. Eric Charest, Natural Resources Manager
 1801 27th Street
 Vero Beach, FL 32960

**RE: 2021 Summer Semi-Annual Indian River County Coastal Monitoring Survey;
 Onshore/Offshore Profiles along FDEP Range Lines R-15 to R-119 together with
 Sector 7 Intermediate Project Lines**

Dear Eric:

Morgan & Eklund, Inc. (M&E) 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-15 through R-119 together with the intermediate lines for Sector 7, a total of 124 beach profile lines. All data collected will be in accordance with the FDEP-approved Physical Monitoring Plan. M&E will provide the County with beach profile data in ASCII file format together with AutoCAD drawings signed by the surveyor. We will also provide FDEP submittal package. The survey will be performed in July/August 2021 with drawings and reports completed in September 2021.

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

I. Sector 3, Phase 1 (R-15 to R-45, 31 Onshore/Offshore Profile Lines)

Chief Surveyor 3 hours @ \$135/hr.....	\$	405.00
Senior Project Manager 17 hours @ \$95/hr.....	\$	1,615.00
Hydrographic Lead Surveyor 16 hours @ \$85/hr.....	\$	1,360.00

Survey Technician (Boat)		
16 hours @ \$55/hr.....	\$	880.00
Three Man Survey Crew		
55 hours @ \$135/hr.....	\$	7,425.00
26' Parker Survey Boat		
2 days @ \$600/day.....	\$	1,200.00
Motion Compensator		
2 days @ \$200/day.....	\$	400.00
Digital Fathometer		
2 days @ \$85/day.....	\$	170.00
Hypack Navigation Software & Computer		
2 days @ \$50/day.....	\$	100.00
Trimble RTK		
5.5 days @ \$450/day.....	\$	2,475.00
Beach UTV		
5.5 days @ \$75/day.....	\$	412.50
Senior Survey Computer Technician		
20 hours @ \$85/hr.....	\$	1,700.00
Total I.....	\$	18,142.50

II. Sector 3, Phase 2 (R-46 to R-60, 15 Onshore/Offshore Profile Lines)

Chief Surveyor		
1 hour @ \$135/hr.....	\$	135.00
Senior Project Manager		
7 hours @ \$95/hr.....	\$	665.00
Hydrographic Lead Surveyor		
8 hours @ \$85/hr.....	\$	680.00
Survey Technician (Boat)		
8 hours @ \$55/hr.....	\$	440.00
Three Man Survey Crew		
26 hours @ \$135/hr.....	\$	3,510.00
26' Parker Survey Boat		
.5 day @ \$600/day.....	\$	300.00
Motion Compensator		
.5 day @ \$200/day.....	\$	100.00

Digital Fathometer .5 day @ \$85/day	\$	42.50
Hypack Navigation Software & Computer .5 day @ \$50/day	\$	25.00
Trimble RTK 2.5 days @ \$450/day.....	\$	1,125.00
Beach UTV 2.5 days @ \$75/day.....	\$	187.50
Senior Survey Computer Technician 10 hours @ \$85/hr.....	\$	850.00
Total II	\$	8,060.00

III. Sector 5 (R-65 to R-91, 27 Onshore/Offshore Lines)

Chief Surveyor 2.5 hours @ \$135/hr.....	\$	337.50
Senior Project Manager 12 hours @ \$95/hr.....	\$	1,140.00
Hydrographic Lead Surveyor 10 hours @ \$85/hr.....	\$	850.00
Survey Technician (Boat) 10 hours @ \$55/hr.....	\$	550.00
Three Man Survey Crew 51 hours @ \$135/hr.....	\$	6,885.00
26' Parker Survey Boat 1.5 days @ \$600/day.....	\$	900.00
Motion Compensator 1.5 days @ \$200/day.....	\$	300.00
Digital Fathometer 1.5 days @ \$85/day.....	\$	127.50
Hypack Navigation Software & Computer 1.5 days @ \$50/day.....	\$	75.00
Trimble RTK 5 days @ \$450/day.....	\$	2,250.00
Beach UTV 5 days @ \$75/day.....	\$	375.00

Senior Survey Computer Technician	
15 hours @ \$85/hr.....	\$ 1,275.00
Total III.....	\$ 15,065.00

IV. Sector 7 (R-97 to R-108 together with R-99.5, 100.5, 101.25, 101.5, 101.75, 102.25, 102.5, 102.75, 103.25, 103.5, 103.75, 104.25, 104.5, 104.75, 105.25, 105.5, 105.75, 106.5 and 107.5, 31 Lines)

Chief Surveyor	
3 hours @ \$135/hr.....	\$ 405.00
Senior Project Manager	
17 hours @ \$95/hr.....	\$ 1,615.00
Hydrographic Lead Surveyor	
16 hours @ \$85/hr.....	\$ 1,360.00
Survey Technician (Boat)	
16 hours @ \$55/hr.....	\$ 880.00
Three Man Survey Crew	
55 hours @ \$135/hr.....	\$ 7,425.00
26' Parker Survey Boat	
2 days @ \$600/day.....	\$ 1,200.00
Motion Compensator	
2 days @ \$200/day.....	\$ 400.00
Digital Fathometer	
2 days @ \$85/day.....	\$ 170.00
Hypack Navigation Software & Computer	
2 days @ \$50/day.....	\$ 100.00
Trimble RTK	
5.5 days @ \$450/day.....	\$ 2,475.00
Beach UTV	
5.5 days @ \$75/day.....	\$ 412.50
Senior Survey Computer Technician	
20 hours @ \$85/hr.....	\$ 1,700.00
Total IV	\$ 18,142.50

V. Countywide (R-61 to R-64, R-92 to R-96, and R-109 to R-119, 20 Onshore/Offshore Lines)

Chief Surveyor	
2 hours @ \$135/hr.....	\$ 270.00

Senior Project Manager 9.5 hours @ \$95/hr.....	\$	902.50
Hydrographic Lead Surveyor 9 hours @ \$85/hr.....	\$	765.00
Survey Technician (Boat) 9 hours @ \$55/hr.....	\$	495.00
Three Man Survey Crew 40 hours @ \$135/hr.....	\$	5,400.00
26' Parker Survey Boat 1 day @ \$600/day	\$	600.00
Motion Compensator 1 day @ \$200/day	\$	200.00
Digital Fathometer 1 day @ \$85/day	\$	85.00
Hypack Navigation Software & Computer 1 day @ \$50/day	\$	50.00
Trimble RTK 3.5 days @ \$450/day.....	\$	1,575.00
Beach UTV 3.5 days @ \$75/day.....	\$	262.50
Senior Survey Computer Technician 14 hours @ \$85/hr.....	\$	<u>1,190.00</u>
Total V.....	\$	11,795.00
TOTAL COST I-V	\$	71,205.00

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

Sincerely,
David W. Coggin
Digitally signed by David W. Coggin
 DN: cn=David W. Coggin, o=Morgan and Eklund Inc, ou
 email=dcoggin@morganeklund.com, c=US
 Date: 2020.12.02 11:12:04 -0500
 David W. Coggin, PSM
 Vice President

DWC:dmc

Billing: project will be invoiced monthly based on percentage completed