



## *Board of County Commissioners*

**Administration - Building A**

**1801 27th Street**

**Vero Beach, Florida 32960**

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

### **Project:**

103rd Court - 88th Street and 89th Street  
Topographic Design Survey

### **WORK ORDER NO. 2 (Engineering/Surveying)**

FOR

PROFESSIONAL SERVICES AGREEMENT  
ANNUAL SURVEYING and MAPPING SERVICES

WITH

Carter Associates, Inc.

This Work Order No. 2 is in accordance with the existing AGREEMENT dated October 4<sup>th</sup>, 2016, between Carter Associates, Inc., (**SURVEYOR**) and Indian River County (**COUNTY**):

### **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 preparation of a topographic design survey for a portion of 103<sup>rd</sup> Court. The survey will begin at the intersection of 103<sup>rd</sup> Court and 88<sup>th</sup> Street and extend north along 103<sup>rd</sup> Court to the intersection of 103<sup>rd</sup> Court and 89<sup>th</sup> Street, being a portion of Vero Lake Estates Subdivision Unit H-3 (PB 6, Page 18), Section 28, Twp. 31 S, Rge. 38 E, Indian River County, FL.

### **SECTION II - SCOPE OF SERVICES**

As agreed upon between **SURVEYOR** and **COUNTY**, the **SURVEYOR** shall provide Professional 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 thirty (30) 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, Five (5) paper "hardcopy" signed and sealed drawing sets. Sheeted and model space (as applicable) AutoCAD drawing file in Civil 3D release 2017, 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, and related title; 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 design and analysis of the area, as defined. It shall contain all information necessary for a third party surveyor to independently recreate 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 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 \$3,945.00.

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 4<sup>th</sup>, 2016 through October 4<sup>th</sup>, 2018.

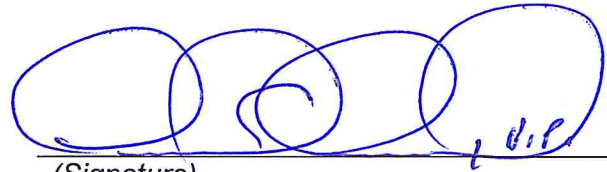
All invoicing shall include Work Order No. 2 (WO 2), itemize man-hours and materials expended to complete the scope of services. Payments shall be in accordance with the original Professional Surveying and Mapping/GIS Services Agreement with the **COUNTY** and as stated in Section II, III and IV hereon.

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**

**Carter Associates, Inc.**



\_\_\_\_\_  
*(Signature)*  
**Joseph E. Flescher, Chairman**

\_\_\_\_\_  
*(Signature)*  
**David E. Luethje, Vice President**

Approved by BCC \_\_\_\_\_

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

**Witnessed by:**

\_\_\_\_\_  
*Deputy Clerk*

\_\_\_\_\_  
*(Signature)*

Approved as to Form and Legal Sufficiency:

\_\_\_\_\_  
**Dylan Reingold, COUNTY Attorney**

\_\_\_\_\_  
*(Printed name)*

\_\_\_\_\_  
**Jason E. Brown, COUNTY Administrator**



# EXHIBIT "A"

## WORK ORDER NO. 2

### Indian River County Public Works Department Professional Surveying and Mapping Services Master Agreement for Annual Professional Surveying and Mapping Services

CARTER ASSOCIATES, INC.  
Consulting Engineers & Surveyors  
1708 21<sup>st</sup> Street  
Vero Beach, FL 32960  
772-562-4191  
772-562-7180 Fax

<b>CLIENT:</b> INDIAN RIVER COUNTY		<b>CAI JOB NO.:</b> <b>17-229S</b>
<b>BILLING ADDRESS:</b> Surveying and Mapping Department 1801 27th Street Vero Beach, Florida 32960		PHONE # (772) 226-1636 FAX # CELL #
<b>PROJECT LIMITS</b> Topographic / Route Survey of 103 <sup>rd</sup> Court between 88 <sup>th</sup> Street and 89 <sup>th</sup> Street – Vero Lake Estates Subdivision Unit H-3 (PB 6, Page 18), Section 28, T.31S., R.38E, Indian River County, Florida		<b>DATE ORDERED:</b> <b>January 30, 2017</b>
		<b>EST. COMPLETION DATE</b> <b>30 Days from NTP</b>
<b>ORDERED BY:</b> Jesse Roland, IRCU David Schryver, PSM	<b>TAKEN BY:</b> David E. Luethje, PSM	<b>COST:</b> <b>\$ 3,945.00 lump sum</b>
<b>LEGAL DESCRIPTION (Lot, Block, S/D/Sec-Twp-Rge):</b> Part of The Vero Lake Estates Subdivision Unit H-3 (PB 6, Page 18), Section 28-31-38, Indian River County, Florida		
<b>PROPERTY STREET ADDRESS :</b> 103 <sup>rd</sup> Court between 88th Street and 89th Street		
<b>SERVICES TO BE PERFORMED:</b>  <p style="text-align: center;"><b><u>See Sheet 2 - 3 for Scope, Completion, and Compensation</u></b></p>		

**PROPOSAL  
EXHIBIT "A"**

Continued

**WORK ORDER NO. 2**

**Indian River County Public Works Department Professional Surveying and Mapping  
Services Master Agreement for Annual Professional Surveying and Mapping Services**

CAI Job. No. **17-229S**  
IR County Work Order No. 2

**Project Limits:**

Approximately 700 feet +/- Topographic Route Survey of 103rd Court between 88th Street and 89th Street – Vero Lake Estates Subdivision Unit H-3 (PB 6, Page 18), Section 28, T.31S., R.38E, Indian River County, Florida.

**Project Scope:**

The SURVEYOR shall provide Professional Land Surveying services to include the following:

- 1.) Establish horizontal control based on Florida State Plane Coordinate System, East Zone, NAD 83/2011 and limited recovery of adjacent parcel corners; and establish vertical control network benchmarks along the subject corridor based on North American Vertical Datum of 1988 not to exceed 600 feet.
- 2.) Field observe and record vertical ground spot elevations within project corridor, 10' outside of approximate right way and all specific points (road pavement, inverts and bottom of structures, swales, etc.) and changes in contour within the subject corridor.
- 3.) Field observe and record all man-made above ground and natural features (over head electrical, valves, mail boxes, drive ways, culverts, utility risers, utility boxes, etc.
- 4.) Observe and record the existing limits of vegetation, if any, within the project limits of the subject corridor.
- 5.) The route survey to be tied into the record plats of the Vero Lake Estates Subdivision Unit H-3.

**Specific Notes:**

Method of horizontal and vertical observations by G.P.S., RTK [accuracy: horizontal 8mm+1ppm (RMS), vertical 15mm+1ppm (RMS)], North American Datum of 1983 / Adjustment of 2011, Florida State Plane Coordinates (East Zone-901) and North American Vertical Datum of 1988.

**Project Schedule:**

Work will commence on the receipt of the notice to proceed or approved work authorization.

**Completion and Final Deliverables:**

Five (5) paper "hardcopy" signed and sealed Topographic Route Survey Certificates and an AutoCAD drawing file with PDF formats will be provided. Field and office tasks will be completed in approximately thirty (30) days.



**Compensation:**

Payments shall be in accordance with the original Indian River County Public Works Department Professional Surveying and Mapping Services Master Agreement for Annual Professional Surveying and Mapping Services.

**I. Field and office tasks: horizontal and vertical control for the IRC Topographic Route Survey; Set vertical control points along the project route survey. Tie subdivision corners and project route to Florida State Plane Coordinate System (NAD 83/2011) and North American Vertical Datum of 1988.**

Surveyor  
1 hours @ \$150.00/hr.....\$ 150.00  
  
3-Man Survey Crew  
2 hours @ \$150.00/hr.....\$ 300.00  
  
Total I.....\$ 450.00

**II. Field observe and record vertical ground elevations and changes in contour within the subject corridor and 10 feet outside of approximate right of way. Field observe and record existing above ground man-made and natural features within the subject corridor, vegetation and well water point of entry into existing homes.**

Surveyor  
1 hours @ \$150.00/hr.....\$ 150.00  
  
Surveyor I  
1 hours @ \$140.00/hr .....\$ 140.00  
  
3-Man Survey Crew  
8 hours @ \$150.00/hr.....\$ 1,200.00  
  
Total II.....\$ 1,490.00

**III. Data reduction/drafting of Topographic Route Survey maps in AutoCAD format**

Surveyor I  
2 hours @ \$140.00/hr ..... \$ 280.00  
  
CAD/GIS Tech I  
16 hours @ \$105.00/hr.....\$ 1,680.00  
  
Administrative Staff  
1 hours @ \$45.00/hr.....\$ 45.00  
  
Total III.....\$ 2,005.00

TOTAL I – III.....\$ 3,945.00 Lump Sum Fee

**WORK ORDER NO. 2**

**Indian River County Public Works Department Professional Surveying and Mapping Services Master Agreement for Annual Professional Surveying and Mapping Services**

**FEE SCHEDULE**

**OFFICE:**

Surveyor (Principal)	\$150.00
Surveyor I	\$140.00
Surveyor II	\$120.00
Surveyor III (SIT)	\$110.00
CAD/GIS Tech I	\$105.00
CAD/GIS Tech II	\$ 90.00
CAD/GIS Tech III	\$ 85.00
CAD/GIS Tech IV	\$ 75.00
Administrative Staff	\$ 45.00

**FIELD:**

4 Man Survey Crew	\$175.00
3-Man Survey Crew	\$150.00
2-Man Survey Crew	\$135.00
1-Man Survey Crew	\$110.00

**SPECIALIZED EQUIPMENT:**

Leica HD P40 Scanner	\$175.00/Hour
Aluminum Boat	\$500.00/Day
All-Terrain Vehicle (ATV)/Trailer	\$250.00/Day
\$1,000.00/Week	

**ANTICIPATED REIMBURSABLE EXPENSES:**

Postage, Express Mail, etc.	Cost
Blueprints/Blackline (24" x 36")	\$2.00/Each
Color Prints (24"x36)	\$5.00/Each
Mileage	IRS Standard Rate
Mylar	\$7.00/Each
Photocopies:	
8.5" x 11"	15¢/Each
8.5" x 14"	25¢/Each
11" x 17"	35¢/Each
Concrete Monuments	\$20.00/Each
Rebar	\$ 2.50/Each
Laths	\$ 0.75/Each
Hubs	\$ 1.00/Each
<b>Sub-Consultants</b>	<b>Cost + 10%</b>