

WORK ORDER NUMBER 2

CONSTRUCTION OF EMERGENCY BEACH ACCESS AT ROUND ISLAND PARK

This Work Order Number 2018008-2 is entered into as of this ____ day of _____, 2018, pursuant to that certain Continuing Consulting Engineering Services Agreement for Professional Services entered into as of this 17th day of April, 2018 (collectively referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Coastal Waterways Design and Engineering, LLC. ("Consultant").

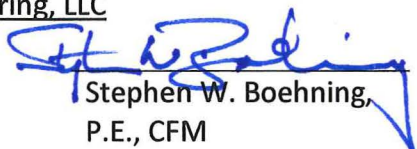
The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:

Coastal Waterways Design and Engineering, LLC

By:


Stephen W. Boehning,
P.E., CFM

Title:

President/Principal
Coastal Engineer

Date:

12/7/2018

**BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY:**

By:

Bob Solari, Chairman

BCC Approved Date:

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By:

Deputy Clerk

Approved:

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency:

William K. DeBraul, Deputy County Attorney



Exhibit A

601 21st Street
Suite 300
Vero Beach, Florida 32960
Ph: (772) 473-4099
www.coastalwde.com

December 4, 2018

Kendra Cope.
Division of Natural Resources
Indian River County Public Works
1801 27th Street
Vero Beach, Florida 32960

RE: Indian River County Coastal Construction Control Line (CCCL) Permitting, Design and Construction Administration Services for Beach Access at Round Island Park to meet Health, Safety, and Security Objectives

Dear Ms. Cope:

Indian River County seeks to provide security and emergency response access, a fire safety break, and a heavy construction equipment access in south county within the vicinity of Round Island beach Park. The specific location of the access will consider impacts to the environment and to the use of the park both during construction and when the access is actively used for the intended planned purposes. This proposal is to design and seek state and local permits for a south county beach access to meet the health, safety, and security objectives as identified by the County.

As requested, attached is the Coastal Waterways proposed scope of services for professional coastal engineering and environmental services to be provided by Coastal Waterways Design & Engineering LLC (COASTAL WATERWAYS) for Indian River County (COUNTY) for Construction Control Line (CCCL) Permitting, Design and Construction Administration Services for Beach Access at Round Island Park to meet Health, Safety, and Security Objectives:

Task 1a – FDEP CCCL Permit and Indian River County Pre-application Conference and Conceptual Design: COASTAL WATERWAYS will conduct by telephone a pre-application meeting with the Department of Environmental Protection (DEP) staff and conduct a pre-application meeting with Indian River County Community Development staff to discuss the conceptual plan for beach access. COASTAL WATERWAYS will prepare conceptual design drawings to use during the discussions of the project with FDEP and County staff. COASTAL WATERWAYS shall prepare minutes of the pre-application conferences.

COASTAL WATERWAYS will obtain beach profile data from Indian River County and the Florida Department of Environmental Protection (FDEP). This will form the basis for the COASTAL WATERWAYS conceptual design that will be utilized in preparation of the permit sketches.

COASTAL WATERWAYS will prepare a conceptual design to restore and revegetate the dune consistent with existing FDEP and Indian River County rules and codes. COASTAL WATERWAYS will prepare a plan drawing, a cross-sectional drawing, and an opinion of probable initial construction costs. COASTAL WATERWAYS will meet with the COUNTY to present the conceptual design. At this meeting, the COUNTY will approve the conceptual design or identify a conceptual design to be the basis of preliminary and final design.

Task 1b – Survey: A topographic survey of the existing conditions is required by the County and the DEP.

COASTAL WATERWAYS will obtain a topographic survey of the beach and dune that meets the DEP requirements and provides a basis for the cross-section design template for permitting and construction documents.

COASTAL WATERWAYS will perform a topographic survey of the Project area including establishment of a baseline. The survey will; define park features including parking, buildings, amenities (i.e., existing playground), define the upland and seaward extent of dune vegetation; identify the top of dune, toe of dune, and crest width of the dune. The survey will consist of at least one beach profile as required by FDEP permit Rules, including elevations recorded at least every 25 feet on center and at any break in slope. The profiles shall extend from the approximate landward toe of dune, or approximately 20 feet landward of the seaward dune crest, to the zero contour line. Plan view and cross-sectional drawings of the survey results will be prepared by COASTAL WATERWAYS which shall serve as the basis of design and permitting for the Project. COASTAL WATERWAYS shall subcontract a portion of this work to Oceanside Solutions LLC, a registered surveyor.

Task 2 – Preliminary and Final Design: COASTAL WATERWAYS will prepare preliminary and final design drawings for the proposed project that will consist of a approximate 25-foot wide access for emergency and heavy equipment access to the beach. For each phase, COASTAL WATERWAYS will provide an opinion of probable costs and meet with the COUNTY to review the design. Final design shall include signed and sealed construction plans and specifications suitable for bidding and construction of the project.

COASTAL WATERWAYS will prepare a preliminary design to be submitted with the permit application and subsequently used to prepare 24" x 36" construction

drawings for bidding purposes. The preliminary design will utilize the conceptual design sketches and will be updated with information from the pre-application meeting and our meeting with the COUNTY. Also, the preliminary design will use information from the survey performed under a separate task of this proposal, if necessary.

Final design drawing updates will be completed after receipt of the permit, as necessary, and shall include signed and sealed construction plans and specifications. For each phase, COASTAL WATERWAYS will provide an updated opinion of probable costs and meet with the COUNTY to review the design.

Task 3a - DEP Permit Application: Based on the results of the pre-application conference with FDEP staff and on the preliminary design, COASTAL WATERWAYS will prepare a formal application for a FDEP permit for dune restoration. To fulfill DEP requirements, the COUNTY will provide to COASTAL WATERWAYS:

- 1) a copy of the Warranty Deed for the project property;
- 2) a signed "Certificate of Owner's Authorization"; and
- 3) the required FDEP permit application fee.

Task 3b – Indian River County Community Development Administrative Approval Application: COASTAL WATERWAYS will complete an Indian River County Administrative Approval Application and submit Community Development Department for permit approval. Coastal Waterways will seek a waiver of the \$200 Application Fee. Coastal Waterways shall complete the Administrative Approval Application Form including Ten (10) Copies of the Plan, Project Description Letter, One (1) aerial of site with project overlaid showing surrounding 200 feet, One (1) Copy of the Owner's Deed, Letter of Authorization from Property Owner if owner is not applicant, Completed Tree Removal Permit Application, Completed Land Clearing Permit Application. Coastal Waterways shall provide a Revegetation plan and a Gopher tortoise survey/plan as prepared by Coastal Waterways subconsultants.

The Indian River County Dune Vegetation Alteration Application shall include a survey of the site, including a plan view, Aerial photograph, detailed description of the proposed re-vegetation and maintenance plan, including vegetation species, planting schedule, and maintenance schedule. The gopher tortoise survey shall be conducted by a Coastal Waterways subconsultant having a valid license as a FFWCC authorized gopher tortoise agent.

Task 3c – Florida Department of Transportation (FDOT) Permit Application for Driveway/Connection: COASTAL WATERWAYS will complete and submit an FDOT Driveway/Connection Permit Application on behalf of the County to authorize use of the proposed potential driveway to be located north of the existing

park entrance. COASTAL WATERWAYS shall provide FDOT approved design details and cost estimate for work in the state road ROW along State Road A-1-A.

Task 3d - DEP Permit and County Approval Processing: COASTAL WATERWAYS will represent the project before DEP and County permit review staff towards obtaining permits for the work consistent with the design approved by the COUNTY in Task 2. COASTAL WATERWAYS will contact FDEP and County staff to address staff questions and concerns and to expedite their review and processing of the permit application. COASTAL WATERWAYS will confer with the COUNTY as to (a) interpretation of FDEP and County rules and regulations, and (b) responses to any FDEP and County staff requests for additional information. COASTAL WATERWAYS will provide written responses to DEP and County staff to address staff requests for additional information. COASTAL WATERWAYS will represent the project before FDEP and County staff toward securing approval of permits for the project.

Additional surveys, studies or analysis not identified may be required by the agencies. These surveys/studies/analysis are beyond the scope of this work. Upon request by the FDEP for additional surveys/studies/analysis, COASTAL WATERWAYS will submit a separate proposal requesting the COUNTY's authorization for these additional services.

Task 4 - Construction Administration Services: COASTAL WATERWAYS will assist the COUNTY with answers to potential bidders questions and assist the COUNTY with issuance of one (1) addendum if necessary. COASTAL WATERWAYS will assist the COUNTY Representative in bidding and negotiating a construction agreement.

COASTAL WATERWAYS will conduct an on-site pre-construction meeting with the COUNTY Representative and the selected contractor. COASTAL WATERWAYS will review shop drawings and up to two (2) change orders if necessary. COASTAL WATERWAYS will make up to five (5) daily site observation, additional daily site observations will be negotiated at our hourly rates if deemed necessary. Daily site observations shall include identifying that the Contractor is performing the scope of work in accordance with the plans, specifications and permits. In addition, COASTAL WATERWAYS will make a final site observation and submit a certification to the regulatory agencies to identify conformance of the project to the specifications, plans and permit.

Deliverables:

- Task 1a - FDEP/County Pre-app Conference and Conceptual Design:** meeting minutes
- Task 1b - Survey:** signed and sealed survey
- Task 2 - Preliminary and Final Design:** signed and sealed plans and technical specifications
- Task 3a - DEP Permit Application:** completed permit application
- Task 3b - County Community Development Application:** completed permit application, vegetation plan and tree removal permit application, gopher tortoise survey, completed land clearing application
- Task 3c - FDOT Permit Application:** completed permit application
- Task 3d - DEP Permit and County Approval Processing:** RAI responses
- Task 4 - Construction Administration Services:** site observation reports

General Terms: The COUNTY will provide all application fees, publishing fees, and additional surveys and testing reports required by the FDEP and any associated agencies. Additional surveys, studies or analyses may be required by the agencies. These surveys, studies, or analyses are beyond the scope of this work but may be provided by COASTAL WATERWAYS under separate authorization.

Schedule:

- Task 1a - FDEP/County Pre-app Conference and Conceptual Design:** completed within 4 weeks of the County's Notice to Proceed.
- Task 1b - Survey:** Completed within 3 weeks of completion Task 1a services
- Task 2 - Preliminary and Final Design:** (Preliminary Design) shall be completed within 4 weeks of completion of Task 1b services.
- Task 3a - DEP Permit Application:** completed within 2 weeks of completion of Task 2 (Preliminary Design) services.
- Task 3b - County Community Development Application:** completed within 2 weeks of completion of Task 2 (Preliminary Design) services.
- Task 3c - FDOT Permit Application:** completed within 2 weeks of completion of Task 2 (Preliminary Design) services.
- Task 3d - DEP Permit and County Approval Processing:** dependent upon DEP and County review timing
- Task 4 - Construction Administration Services:** dependent upon County contract bidding and negotiation timing


Fee:

- The total fee for the work described in Task 1 through Task 4 above is \$37,250.00
- Task 1a - FDEP/County Pre-app Conference and Conceptual Design:** \$4,000
 - Task 1b - Survey:** \$5,000
 - Task 2 - Preliminary and Final Design:** \$6,600
 - Task 3a - DEP Permit Application:** \$4,000

- Task 3b - County Community Development Application: \$6,000**
- Task 3c - FDOT Permit Application: \$900**
- Task 3d - DEP Permit and County Approval Processing: \$5,500**
- Task 4 - Construction Administration Services: \$5,250**

If you have any questions regarding this matter, please contact Steve Boehning at (772) 473-4099.

Sincerely,
COASTAL WATERWAYS


Stephen W. Boehning, P.E., CFM
President / Principal Coastal Engineer

Kendra Cope
Division of Natural Resources
Indian River County Public Works

Date

Exhibit D

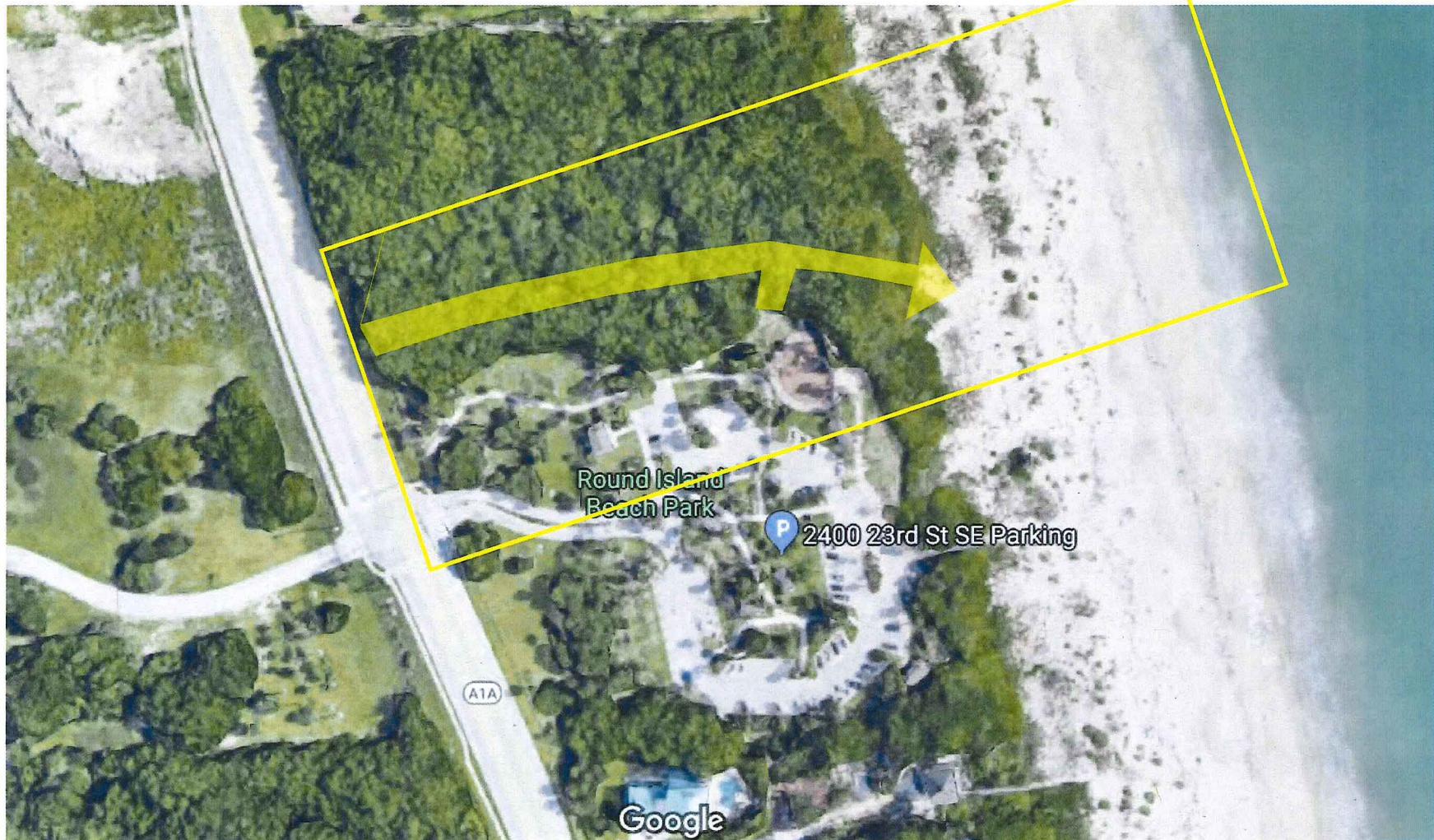


Figure 1. Indian River County Round Island Beach Park – Emergency and Heavy Equipment Access
Proposed Approximate Survey Limits and Potential Beach Access Location