



Stantec Consulting Services Inc.  
901 Ponce de Leon Boulevard, Suite 900, Coral Gables FL 33134-3070

March 5, 2015

City of Key West  
3140 Flagler Avenue  
Key West, Florida 33040

**Attention: Karen Olson, Deputy Director, Port & Marine Services**

**Reference: New Floating Docks at Sailfish Pier, Garrison Bight Marina**

Dear Ms. Olson,

We are pleased to present this proposal of professional engineering, surveying and environmental services for your consideration.

**Scope of Project:**

The proposed improvements consist of a new floating dock, approximately 200 feet in length, to replace an existing concrete pier with new finger piers (if feasible). The proposed facility is located west of Marlin Pier off of Palm Avenue Causeway. The floating dock facility will be similar to that completed at the Tarpon Pier, and will include a 12' wide aluminum framed pier, ADA compliant ramp connecting at the same location as existing pier. It is the intent to re-use all existing utility features above the pier including power/phone/cable pedestals, water/sewer pedestals, electrical cabinet, and if possible the existing electrical G-cable. These elements were recently replaced. New utility lines will be provided including HDPE piping for water, sewer and fire protection. No upland improvements are included; existing utility connections and sanitary pump-out will remain. Some concrete mooring piles were recently installed and may be re-used if feasible. All new piles will be epoxy coated steel. Our scope also includes a boat relocation plan to be coordinated with the City. Most of the boats are large 2-story vessels.

The City shall provide submerged lands ownership/easement documentation. No lighting or landscaping is included in our scope. The City would like Bid documents ready in October 2015 with construction expected to begin in January 2016.

**Scope of Services:**

**Design and Permitting Phase:**

Specific purpose survey of the project area, including bathymetric survey. Engineering design of floating dock system including, structural, electrical, domestic/fire water and sanitary sewer. The floating dock system will be designed for 120 mph wind/wave loads fully occupied, and 150 mph partially occupied. Preparation of construction documents, specifications and construction cost estimates. Our scope includes two (3) SPT borings (see attached). Environmental permitting and coordination (FDEP, USACE, FKNMS, FWC) including an update of the benthic survey. Project Contractor will be required to secure all local building permits.

**Bid Phase:**

Prepare bid package including general and supplemental conditions (to be provided by City in electronic format), standard specifications, and bid form. Attend pre-bid meeting with potential contractors, answer bidder questions, prepare addendums if necessary, and review of submitted bids. These services will be provided only to the extent requested by the City.



Construction Phase:

Attend preconstruction meeting, answer Contractor’s RFIs, attend weekly meeting via phone conference, develop and maintain submittal register, review shop drawings, periodic site observation visits (bi-monthly at a minimum; for each visit we will prepare a written observation report with photos), review construction progress, final inspection and project certification. Our scope also includes closing all environmental permits. These services will be provided only to the extent requested by the City.

Terms and Conditions:

All terms and conditions shall be per our Agreement for General Engineering Services (dated 11/7/12) and all fees shall be as follows:

Design & Permitting Phase (Lump Sum) .....	\$71,009
Bid Phase (Hourly not to exceed) .....	\$6,802
Construction Phase (Hourly not to exceed) .....	\$43,419
Reimbursable (Allowance) .....	\$7,500

**Total \$128,730**

Environmental permit fees will be paid by Stantec and reimbursed under the allowance phase noted above. Any required compensatory fee required for environmental sensitive items, such as coral relocations, is unknown at this time and can be billed to the allowance phase as required. We are ready to begin working on this assignment upon your authorization to proceed. If acceptable to you, we will accept a signed copy of this form as your written authorization to proceed with the assignment.

Thank you,

**Stantec Consulting Services Inc.**

Sean Compel, PE, LEED AP  
Associate  
Tel: 305-445-2900  
Fax: 305-445-0869  
sean.compel@stantec.com

City of Key West  
Approved by:

\_\_\_\_\_

\_\_\_\_\_ Date

**FEE WORKSHEET**

**DATE:** 5-Mar-15  
**PROJECT:** Floating Docks at Sailfish Pier

**Design & Permitting Phase Services:**

Task	Prin.	Prjt Mngr	Prjt Engr	Sr. Tech.	Tech	Clerical
Field review -site conditions	2	8	8			2
Coordination with survey, geotech, & environmental		12	12	6	8	4
Horizontal & vertical layout of pier/piles		12	12	8	8	
Structural design of steel piles	2	14	18	4	4	
Electrical Design & plans	2	6	12	4	4	
Water, Sewer, fire protection plans	2	6	12	4	4	4
Plan view/sections/details - pier/piles	2	4	12	14	20	2
Plan view/sections/details - electrical	2	4	12	14	20	2
Plan view/sections/details - water/sewer/fire	2	4	12	14	20	2
Specifications	2	4	8			12
Cost Estimates	2	6	6	4	4	
Boat Relocation and layout Plan		2	2	2	6	
Sub-Total Hours	18	82	126	74	98	28
Billing Rate	185	140	135	85	77.5	58
Labor Cost	\$3,330	\$11,480	\$17,010	\$6,290	\$7,595	\$1,624
<b>Labor Sub-Total</b>						<b>\$47,329</b>
Survey Sub-consultant (Fl. Keys Land Surveying)						\$3,590
Geotechnical Sub-consultant (Nutting)						\$8,090
Environmental Sub-consultant (Terramar)						\$12,000
<b>Design &amp; Permitting Phase Sub-Total</b>						<b>\$71,009</b>

**Bid Phase Services (Hourly not to Exceed):**

Task	Prin.	Prjt Mngr	Prjt Engr	Sr. Tech.	Tech	Clerical
Prepare Bid package (front end & bid form)	2	4	10			8
Attend Prebid meeting		8				
Answer bidder questions		4	4			2
Prepare addendums		4				4
Review of bids submitted	2	4				
Sub-Total Hours	4	24	14	0	0	14
Billing Rate	185	140	135	85	77.5	58
Labor Cost	\$740	\$3,360	\$1,890	\$0	\$0	\$812
<b>Bid Phase Sub-Total</b>						<b>\$6,802</b>

**Construction Phase Services (Hourly not ot Exceed):**

Task	Prin.	Prjt Mngr	Prjt Engr	Sr. Tech.	Tech	Clerical
Attend Preconstruction meeting		8				
Attend via phone weekly meetings		24				
Answer contractor RFIs	2	8	16			4
Review shop drawings / submittal register	2	14	18			12
Review payment requisitions and recommend payment	2	12	6			2
Periodic Site Observations (incl reports)	8	60	65			24
Final Inspection & certification	8	8				2
Environmental Permit Close-out	2	4	20			4
Sub-Total Hours	24	138	125	0	0	48
Billing Rate	185	140	135	85	77.5	58
Labor Cost	\$4,440	\$19,320	\$16,875	\$0	\$0	\$2,784
<b>Construction Phase Sub-Total</b>						<b>\$43,419</b>

Reimbursables \$7,500

**Grand Total \$128,730**



# FLORIDA KEYS LAND SURVEYING

19960 OVERSEAS HIGHWAY, SUGARLOAF KEY, FL 33042

PHONE: (305) 394-3690

EMAIL : [FKLSEmail@gmail.com](mailto:FKLSEmail@gmail.com)

[www.floridakeyslandsurveying.net](http://www.floridakeyslandsurveying.net)

## SURVEY WORK ORDER

February 13, 2015

**RE:** Sailfish Pier, Garrison Bight, Key West, FL

Stantec

C/O Sean Compel

305-445-2900 ext. 2230

Sean.compel@stantec.com

**SCOPE OF WORK: Specific Purpose Survey including topographic data and bathymetric data, illustrating current site conditions at the existing Sailfish Pier**

**1) FIELDWORK - 3 Days of a 1-3 Man Total Station Field Crew @ 950.00 Day = \$2,850.00**

- Limited, site topo and location of existing site improvements, including but not limited to concrete, curbing, asphalt, above ground visible utilities, etc., of an approximate 40x40 area upland of the existing pier.
- Locate the existing pier, including but not limited to the utility pods on the said pier as.
- Locate the exiting mooring pilings on either side of the pier.
- Bathymetric data immediately adjacent the existing pier as well as in the vicinity of each existing mooring piling off the pier and approximately 15 feet beyond the said existing mooring pilings.
- Bathymetric data to extend approximately 30 beyond the end of the existing pier.
- Horizontal coordinates will be referenced to grid north, based on the 2011 Adjustment of the North American Datum of 1983 (NAD 83/90), of the Florida State Plane Coordinate System (Transverse Mercator Projection), East Zone.
- Elevations will be in feet and based on the National Geodetic Vertical Datum of 1929 (NGVD 1929).

**2) AUTOCAD DRAFTING – 8 Hours @ \$80.00 Hour = \$640.00**

- Calculate and draft all field data into a deliverable Survey.

**3) PROFESIONAL SURVEY AND MAPPER – 1 HOUR @ \$100.00 HOUR = \$100.00**

- Review and Certification of Deliverables.

### **TOTAL SURVEY COST & TERMS:**

\$3,590.00 due upon completion

Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_  
PRINT NAME SIGNATURE

Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_  
PRINT NAME SIGNATURE

February 18, 2015

Ms. Heather Anesta, SE, PE, MS, LEED AP  
Structural Engineer, Associate  
Stantec  
901 Ponce de Leon Boulevard, Suite 900  
Coral Gables FL 33134-3070  
Phone: (786) 437-6253 ext 2315  
Cell: (561) 866-2992  
Email: heather.anesta@stantec.com

Re: Proposal/Agreement for a Geotechnical Exploration  
Sailfish Pier  
Approx. 500 ft north of Intersection of Palm Ave and N Roosevelt Blvd.  
Key West, Florida

Dear Ms. Anesta:

Nutting Engineers of Florida, Inc. (NE) is pleased to present this proposal/agreement for performing geotechnical engineering services at the referenced project.

Per your email on February 17, 2015, we understand that plans call for the demolition and replacement of an existing pier near the intersection of Palm Ave and N Roosevelt Blvd in Key West, Florida. We have been requested to provide the soil parameters and lateral capacities of piles to be used in design of the new pier structure.

Based on your request for proposal, and our understanding of the project, we propose the following scope of work and fee schedule.

#### **SCOPE OF WORK**

We will perform two (2) Standard Penetration Test (SPT) borings on land adjacent to the proposed dock in accordance with ASTM D-1586 specifications to a depth of 40 feet. We note that the test borings will not be terminated in very loose or deleterious material, and therefore, the depth of the test borings may change depending on the conditions encountered during the field work.

At the completion of the field work, the soil samples will be returned to our laboratory. We will provide an engineering report including a description of our findings. In order to provide information concerning the engineering properties of the soils, it is anticipated that tests may be performed to determine natural water content, organic content, and sieve analysis on representative soil samples collected from the field. The engineering report will include graphic logs of the test borings and a test

boring location plan. We assume the site is accessible to truck mounted drilling equipment and that underground utilities will be cleared by others prior to our performing the field work.

## **FEE SCHEDULE**

The above-indicated scope of work will be performed for an estimated cost of \$8,090.00 based on the following rates and quantities:

Site visit, boring layout and depth to water measurements to be performed by P.E.	\$1,500.00
Per diem-P.E.	\$400.00
Mobilization of drill crew	\$1,200.00
Per diem-drill crew	\$400.00
SPT borings (Two landside borings to 40 feet)	\$2,000.00
Soil classification/lab analysis	\$300.00
Report preparation by P.E.	\$2,000.00
Review by Principal P.E.	\$250.00
Administrative	\$40.00

We can begin this work within approximately two to three days of receiving written authorization. The field work should take approximately one day to complete. The geotechnical report should be available within approximately one week after the field work is complete.

NE has been offering geotechnical engineering, environmental sciences, materials testing, and structural inspection services for 44 years in South Florida during which time we have worked on many similar projects. Our commitment to practical, cost effective solutions supported by responsive client services distinguishes our firm and enables us to solve your most demanding technical challenges. Another value added component NE brings to your project is our staff of approximately fifty experienced professionals including engineering geologists, geotechnical engineers, environmental specialists, field personnel who are certified and have been trained to provide a wide range of consulting services, and our dedicated administrative staff.

Our laboratory is checked annually by the Construction Materials Engineering Council (CMEC) and the American Association of State Highway & Transportation Officials (AASHTO) and is certified to perform geotechnical engineering and materials testing services for the Florida Department of Transportation (FDOT). Note that we carry one million dollars professional liability and one million dollars general liability insurance.

Thank you for providing us the opportunity to present this proposal/agreement. We look forward to working with you on this and future projects.

Respectfully submitted,  
**NUTTING ENGINEERS OF FLORIDA, INC.**

Paul C. Catledge, P.E. #68448  
Senior Engineer

Reports and invoices will be addressed to the client as listed below unless other instructions are provided in writing with this executed proposal. The undersigned, as an authorized representative of the entity listed below, approves this proposal and agrees to be bound by the terms and conditions contained in this proposal. We note that our terms are net thirty days. Any invoices over thirty days will be assessed a 1 1/2 percent service charge. If you are a first time client, we request that the fee for these services be paid at the time of report completion. Once your account is established, we will bill you on an invoice basis.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL: \_\_\_\_\_

**Specific Terms and Conditions**

For the purpose of this project, the addressee of this proposal will be known as the Client. The client is expected to furnish NUTTING ENGINEERS OF FLORIDA, INC. ("NE"), with accurate information including sketch of survey and/or site plan, construction drawings/specifications as appropriate, details of proposed construction including the proposed structural system and loads or existing construction problem information and site accessibility information as appropriate. Other information requirements may be detailed in the enclosed proposal. IF ANY CONDITIONS CHANGE such as building layout, loading, project specifications/design or unusual site conditions are observed, NE should be notified immediately in writing about the changed condition for possible review and comment.

**Delivery** - Scheduled upon receipt of written authorization to proceed and deposit unless other arrangements are agreed to in writing. Additional report copies can be provided for a nominal fee to the Client. NE will exercise appropriate measures to ensure project completion within a reasonable time frame subject to existing workloads. However, NE will not be held responsible for unavailability of necessary project data and site access within the time frame agreed upon for the investigation. Project delivery may be delayed if the ENTIRE signed proposal and deposit are not received in a timely manner. The ENTIRE signed quotation should be returned along with the requested project information. This unsigned proposal is valid for 60 days.

**Payment** - No deposit required with signed agreement. Balance due upon delivery of report. Interest at the rate of 18% per annum from 30 days after date of invoice to date payment is received will be added to all amounts not paid within 30 days after date of invoice. In the event that any law limiting the amount of interest or other charges permitted to be collected is interpreted so that this charge violates such law for any reason, the interest charge is hereby reduced to the extent necessary to eliminate such violation. All attorney fees and expenses associated with collection of past due invoices will be paid by Client.

**General Terms and Conditions**

**Insurance** - NE maintains Workers' Compensation and Employer's Liability Insurance in conformance with state law. In addition, we maintain Comprehensive General Liability Insurance and Automobile Liability Insurance with bodily injury limits of \$1,000,000.00 and property damage limits of \$1,000,000.00. A certificate of insurance can be supplied evidencing such coverage which contains a clause providing that fifteen days written notice be given prior to cancellation.

**Right-of-Entry** - Unless otherwise agreed, Client will furnish right-of-entry on the property for NE to make the planned borings, surveys, and/or explorations. NE will not be responsible for removing fences, earth berms, vegetation or other obstructions for purposes of our investigation. NE will take reasonable precautions to minimize damage to the property caused by its equipment and sampling procedures, but the cost of restoration or damage which may

Terramar Environmental Services, Inc.

1241 Crane Boulevard

Sugarloaf Key, Florida 33042

(305) 393-4200 FAX (305) 745-1192

[terramar@bellsouth.net](mailto:terramar@bellsouth.net)

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February 13, 2015

Sean Compel

Stantec

901 Ponce de Leon Blvd., Suite 900

Coral Gables, Florida 33134

Dear Mr. Compel:

Please accept this proposal for design assistance and permitting services for the City of Key West, Sailfish Pier project. The project involves design and permitting of the replacement of the Sailfish Pier in Garrison Bight. The proposed scope of services includes the following:

- Assist Stantec in developing a design that meets environmental permitting criteria
- Conduct a benthic resource assessment including coral assessment suitable for regulatory permitting
- Prepare ERP application and supporting environmental documentation using Project Plans prepared by Stantec
- Coordinate with regulatory agencies (FDEP, USACE, FKNMS, FWC) to maintain progress on the permit application, resolve any environmental issues

The following budget was prepared based on our expectation of the amount of effort required to complete the project.

Item	Activity	Unit Rate	Units	Total Cost
Senior Environmental Scientist	Project coordination with Stantec and City of Key West, plans review, submerged lands ownership	\$125.00	12	\$1,500.00
Senior Environmental Scientist	Conduct benthic survey and environmental documents including Section 7 and UMAM	\$125.00	48	\$6,000.00
Senior Environmental Scientist	ERP Application preparation and submittal	\$125.00	12	\$1,500.00
Senior Environmental Scientist	Post-application coordination thru permit issuance, site visits, meetings, emails, calls	\$125.00	24	\$3,000.00
TOTAL			48	\$12,000.00



Thank you for the opportunity to submit a proposal for this project, and we look forward to working with you on this project.

Sincerely,

*Phil Frank*

Philip A. Frank  
Vice President