

**Stantec Consulting Services Inc.**

901 Ponce de Leon Blvd. Suite 900

Coral Gables, FL 33134

**Consultant Project Proposal – Additional Services Geotechnical Services**

February 27, 2020

Dear Mr. Acosta:

Stantec Consulting Services Inc. ("Consultant") proposes to provide the additional services identified below for the project entitled Design Services for NW 59<sup>th</sup> Avenue Extension pursuant to the Professional Service Agreement (PSA) provided by Town of Miami Lakes ("Town") for Design services No. 2019-27, dated 11/15/2019.

**I. General**

During the initial contract negotiations with the Town for design services, it was determined at that time that no borings in the canal would be performed. Borings within the canal water were excluded from Basic Services as noted in Section B2.06 of the PSA. The Consultant met with South Florida Water Management District (SFWMD) on 1/31/2020 and it was discussed that the District will require access across the bridge on each side of the Canal. The access over the bridge cannot occur right against the bank due to sloping, therefore a wider bridge span is required. In order to avoid a higher bridge profile which would further impact private properties, including Opa-Locka Airport, it was agreed by all parties that shorter spans and thinner bridge decking would benefit the project. Given these constraints, the Consultant is proposing borings in the canal in accordance with Section B3, Additional Services.

**II. Scope of Work**

**Task 1 – Geotechnical Investigation in the Canal**

Two (2) SPT borings for the proposed bridge, each to a depth of 100 feet in the canal. The SPT borings require extra SPT samples to follow FDOT procedures. We will require a permit to allow us to work in the canal and a ramp access to launch the barge.

The work requires access to the site to be provided by the Town of Miami Lakes, Miami-Opa-Locka Executive Airport (OPF) and SFWMD.

The scope of services includes for the bridge, evaluation of a deep foundation system; probably driven piles.

HRES can perform the 100-ft. borings in the canal in three (3) days. Detailed proposal is attached to this work order.

**III. Subconsultants**

The following Subconsultants will assist in the performance of the Services under the Agreement.

Subconsultant's Name	Specialty of Expertise
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HR Engineering Services, Inc.	Geotechnical Engineering
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#### IV. Schedule of Work – Time for Performance

Consultant will submit the deliverable and perform the Services as stated in the table below:

Schedule of Deliverables			
Task, Sub-Task or Activity ID #	Major Task, Sub-Task Activity, or Deliverable	Duration (specify weeks or calendar days)	Delivery (cumulative weeks or calendar days)
Task 1	Geotechnical Investigation	2 weeks	NTP*+2 weeks

\*Please note that NTP is dependent upon permit authorizations from both SFWMD and Miami-Opa-Locka Executive Airport (OPF) to perform this work.

#### V. Compensation

Consultant shall perform the Work detailed in this Proposal for a total not to exceed twenty-four thousand eight hundred and ninety-eight dollars (\$24,898.00). The Consultant will be paid based on a fixed fee basis. The Town shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount unless approved in a supplemental Work Order. The fee may include an allowance for Reimbursable Expenses required in connection with the Work, in an amount not to exceed that stated in the table below. Reimbursable Expenses will be used and compensated for in accordance with the Agreement and must conform to the limitations of Florida Statutes § 112.061.

The following is a summary of the method and amount of compensation to be paid for each Task or Activity as identified in Section IV above.

Schedule of Compensation			
Task, Sub-Task or Activity ID #	Major Task, Sub-Task Activity, or Deliverable	Fee Amount	Fee Basis
Task 1	Geotechnical Investigation	\$24,898	fixed fee
	<i>TOTAL</i>	\$24,898	

#### VI. Exclusions from Basic Services

The following services are not included in the Basic Services to be performed under this Work Order:

- a) Subsurface Utility Excavation.

#### VII. Town Furnished Documents & Data

- a) N/A

**VIII. Additional Services**

The Town may include an allowance account under the approved Work Order for Additional Services that may be requested by the Town, which will be used at the sole discretion of the Town.

**Stantec Consulting Services Inc.**

  
\_\_\_\_\_  
Signature

Sean Compel, Principal  
\_\_\_\_\_  
Name/Title

2/27/2020  
\_\_\_\_\_  
Date

**Town of Miami Lakes**

Dept. Approval: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name/Title

Procurement: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Procurement Manager

Town Manager: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Town Manager

Work Order No.: \_\_\_\_\_  
(Assigned by the Town upon approval, if applicable)

**PRICE PROPOSAL FOR GEOTECHNICAL SERVICES - WATER BORINGS FOR BRIDGE**

**NW 59th AVENUE EXTENSION IN THE TOWN OF MIAMI LAKES, FLORIDA**

**MIAMI-DADE COUNTY, FLORIDA**

**RFQ 2019-27**

**HRES PROJECT No.: HR19-1513R**

**FEBRUARY 24, 2020 (REVISED)**

***We propose the following field exploration:***

1. Two (2) SPT borings for the proposed bridge, each to a depth of 100 feet in the canal. The SPT borings require extra SPT samples to follow FDOT procedures. *We will require a permit to allow us to work in the canal and a ramp access to launch the barge.*

*The work requires access to the site to be provided by the Town of Miami Lakes and the canal owner.*

Summary. The scope of services includes: for the bridge, evaluation of a deep foundation system; probably driven piles.

- HRES can perform the 100-ft. borings in the canal in 3 days.

	UNITS	# OF UNITS	UNIT RATE	TOTAL \$
=====	=====	=====	=====	=====

**1. FIELD EXPLORATION: 2 SPT BORINGS TO 100 FEET IN THE CANAL**

1.1b) Geo SPT Truck/Mud Bug 0-50 ft. water: Bridge: 2 SPT borings x 35 feet=70 feet Assuming 15 feet of water)	feet	70	\$19.70	\$1,379.00
1.2b) Geo SPT Truck/Mud Bug 50-100 ft. water: Bridge: 2 SPT borings x 50 feet=100 feet	feet	100	\$22.65	\$2,265.00
1.3b) Geo Temp Casing 3":Temporary casing 0-50 ft. water: Bridge: 100 feet	feet	100	\$12.35	\$1,235.00
1.4b) Geo Temp Casing 3":Temporary casing 50-100 ft. water: Bridge: 100 feet	feet	100	\$13.90	\$1,390.00
1.5b) Geo Extra SPT: 0-50 ft.: Bridge: 2 SPT borings x 6 samples-water=12 samples	each	12	\$45.00	\$540.00
1.6b) Geo Extra SPT: 50-100 ft.: Bridge: 2 SPT borings x 10 samples-water=20 samples	each	20	\$48.00	\$960.00
1.9b) Geo Grout Borehole 0-50 ft. - water: Bridge: 70 feet (assuming 15 feet of water)	feet	70	\$6.70	\$469.00
1.10b) Geo Grout Borehole 5-100 ft.: Bridge-water: 100 feet	feet	100	\$8.00	\$800.00
1.11) Mobilize small barge -2 mobilization/demobilization	each	1	\$6,000.00	\$6,000.00
1.12) Mobilize small boat -2 mobilization/demobilization	each	1.5	\$450.00	\$675.00
1.13) Small barge daily rental -3 days	day	3	\$1,500.00	\$4,500.00
<b>Sub-Total</b>				<b>\$20,213.00</b>
<b>TOTAL FOR FIELD INVESTIGATION</b>				<b>\$20,213.00</b>

**NW 59th AVENUE EXTENSION IN THE TOWN OF MIAMI LAKES, FLORIDA**

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**FEBRUARY 24, 2020 (REVISED)**

**2. LABORATORY TESTING (2 BOREHOLES)**

2.1) Full Grain Size Analysis including -200 wash	each	2	\$60.00	\$120.00
2.2) Fines Content Determination	each	2	\$40.00	\$80.00
2.3) Organic Content Test	each	2	\$40.00	\$80.00
2.4) Corrosion Series	each	0	\$135.00	\$0.00

**TOTAL FOR LABORATORY TESTING**

**\$280.00**

**3. ENGINEERING AND TECHNICAL SERVICES**

3.1) Senior Engineer	hour	5	\$155.00	\$775.00
3.2) Geotechnical Engineer	hour	14	\$125.00	\$1,750.00
3.3) Staff Geotechnical Engineer	hour	8	\$110.00	\$880.00
3.4) CADD/Computer Technician	hour	9	\$100.00	\$900.00
3.5) Senior Engineering Technician (Boring Layout, Utility Clearance)	hour	1	\$100.00	\$100.00

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**TOTAL ENGINEERING SERVICES**

**\$4,405.00**

**TOTAL GEOTECHNICAL FEES**

**\$24,898.00**