WORK ORDER No. 9 FOR PROFESSIONAL SERVICES

TO:

Pevida Highway Designers, LLC 8600 NW 17 Street, Suite 160 Doral, Florida 33126 (786) 228-5666 DATE: July 22, 2020

The City of Doral authorizes the firm of Pevida Highway Designers, LLC to provide professional engineering services for the geotechnical services for Doral Central Park. Where Pevida Highway Designers, LLC is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act (CCNA) requirements and approved by the City Council in November 2017 through Resolution 17-202. The work should be performed in accordance with the contract provisions contained in the Continuing Professional Services Agreement between Pevida Highway Designers, LLC and the City of Doral dated February 16, 2018, and the attached Proposal dated June 5, 2020 submitted by your firm for the above referenced project.

SCOPE OF SERVICES AND SCEHDULE:

The scope of the project will be as described in the attached proposal from PHD dated June 5, 2020. The scope includes the geotechnical engineering for Doral Central Park. The schedule requires the work to be performed within 8 weeks from NTP. All limitations of time set forth in this Work Order are of the essence. The performance of services associated with this Work Order will be executed on a time and materials basis with a not to exceed amount of \$126,494.50.

You are required by the Continuing Service Agreement to begin work subsequent to the execution of this Work Order, or as directed otherwise. If you fail to begin work subsequent to the execution of this Work Order, the City of Doral will be entitled to disqualify the Proposal and revoke the award.

Work Order incorporates the terms and conditions set forth in the Continuing Services Agreement dated February 16, 2018 between the parties as though fully set forth herein. In the event that any terms or conditions of this Work Order conflict with the Continuing Services Agreement, the provisions of this specific Work Order shall prevail and apply.

This Work Order is not binding until the City of Doral agrees and approves this Work Order.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and date first above written, in three (3) counterparts, each of which shall, without proof or accounting for the other counterpart be deemed an original Contract.

CONSULTANT: Pevida Highway Designers, LLC WITNESSES: SEAL:

BY:

NAME: 100 (200 des Perida 200 d

NAME: Walkvido Pevida 2. DR

OWNER: City of Doral AUTHENTICATION:

BY:

NAME: Albert P. Childress

TITLE: City Manager

BY: Counie Diaz

TITLE: City Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE SOLE USE OF THE CITY OF DORAL:

BY:

NAME: Luis Figueredo, ESQ TITLE: City Attorney

RESOLUTION No. 20-124

A RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF DORAL, FLORIDA, APPROVING A WORK ORDER BETWEEN THE CITY OF DORAL AND PEVIDA HIGHWAY DESIGNERS FOR THE PROVISION OF GEOTECHNICAL ENGINEERING SERVICES FOR DORAL CENTRAL PARK IN AN AMOUNT NOT TO EXCEED \$126,494.50; RECOGNIZING THAT PEVIDA HIGHWAY DESIGNERS IS A CITY OF DORAL PRE-QUALIFIED VENDOR; AUTHORIZING THE CITY MANAGER TO EXECUTE THE WORK ORDER AND EXPEND BUDGETED FUNDS ON BEHALF OF THE CITY; PROVIDING FOR IMPLEMENTATION AND PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, in response to Request for Qualification (RFQ) #2020-05 for "Architecture and Engineering services for Doral Central Park" (the "Project"), the City received five (5) bids by the February 28, 2020 deadline with only four (4) teams meeting the required criteria; and

WHEREAS, at the May 2020 Council meeting the City Council authorized the City Manager to commence negotiations for Request for Qualifications (RFQ) #2020-05 with Bermello and Ajamil via Resolution 20-65; and

WHEREAS, the City Manager negotiated with Bermello and Ajamil (B&A) and at the June 2020 Council Meeting the Mayor and the City Council Members authorized the City Manager to execute the negotiated contract; and

WHEREAS, B&A requested, and the City agreed to allow certain Optional Services in the approved Contract, with Geotechnical Engineering being one of these services; and

WHEREAS, the City is electing not to exercise this Optional Service through the B&A contract and instead utilize the City's General Engineering Consultant (GEC) pool

in an effort to provide these services at a reduced fee and timeframe by using a firm that has historical data and has already performed geotechnical engineering services at Doral Central Park; and

WHEREAS, the PWD requested a proposal from Pevida Highway Designers for the provision of geotechnical engineering services for Doral Central Park; and

WHEREAS, Pevida Highway Designers is a prequalified provider of professional engineering services selected in accordance with Consultant Competitive Negotiation Act (CCNA) requirements and approved by the City Council in December 2017; and

WHEREAS, Pevida Highway Designers submitted a proposal in an amount not to exceed \$126,494.50; and

WHEREAS, Staff respectfully requests that the Mayor and the City Council Members approve the Work Order with Pevida Highway Designers; and

WHEREAS, the PWD respectfully requests authorization from the Mayor and the City Council Members to authorize the City Manager to expend available funds in the Park Bond Fund, Account No. 303.90005.500650.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DORAL AS FOLLOWS:

<u>Section 1.</u> <u>Recitals.</u> The above recitals are confirmed, adopted, and incorporated herein and made part hereof by this reference.

Res. No. 20-124 Page **3** of **4**

<u>Section 2.</u> <u>Approval.</u> The Work Order between the City of Doral and Pevida Highway Designers for the provision of geotechnical engineering services for Doral Central Park; in an amount not to exceed \$126,494.50, a copy which is attached hereto as Exhibit "A", is hereby approved.

Section 3. Authorization. The City Manager is authorized to execute the Work

Order and expend budgeted funds on behalf of the City in furtherance hereof.

<u>Section 4.</u> <u>Implementation.</u> The City Manager and the City Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and the provisions of this Resolution.

<u>Section 5.</u> <u>Effective Date.</u> This Resolution shall take effect immediately upon adoption.

Res. No. 20-124 Page **4** of **4**

The foregoing Resolution was offered by Councilmember Mariaca who moved its adoption.

The motion was seconded by Councilmember Cabral and upon being put to a vote, the vote was as follows:

Mayor Juan Carlos Bermudez	Yes
Vice Mayor Christi Fraga	Yes
Councilwoman Digna Cabral	Yes
Councilman Pete Cabrera	Yes
Councilwoman Claudia Mariaca	Yes

PASSED AND ADOPTED this 22 day of July, 2020.

JUAN CARLOS BERMUDEZ, MAYOR

ATTEST:

CONNIE DIAZ, MMC

CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY FOR THE USE AND RELIANCE OF THE CITY OF DORAL ONLY:

LUIS FIGUEREDO, ESQ.

CITY ATTORNEY

EXHIBIT "A"

WORK ORDER No. 9 FOR PROFESSIONAL SERVICES

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CONSULTA	ANT: Pevida Highway Designers, L	LC	WITNESSES:	SEAL:
BY: NAME: TITLE:		1. 2.		
OWNER:	City of Doral		AUTHENTICATION	I:
BY:		BY:		
NAME:	Albert P. Childress	NAME:	Connie Diaz	
TITLE:	City Manager	TITLE:	City Clerk	
APPROVEI	O AS TO FORM AND LEGAL SUI	FFICIENCY FOR TH	HE SOLE USE OF THE	CITY OF DORAL:
BY:				
NAME:	Luis Figueredo, ESQ.			
TITLE:	City Attorney			



8600 NW 17TH ST., SUITE 160 DORAL, FL 33126 OFFICE (786) 228-5666 FAX (786) 558-2030 WWW.PEVIDAHIGHWAYDESIGNERS.COM

June 18, 2020

Eugene Collings-Bonfill, P.E., P.S.M, CFM, PMP – Assistant Director/Chief of Engineer City of Doral 8401 NW 53 Terrace Doral, FL 33166

Subject:

Geotechnical Proposal Doral Central Park Improvements

Dear Mr. Collings,

Pevida Highway Designers, LLC is pleased to submit this cost proposal to provide Geotechnical services and design management required for the above referenced subject.

SCOPE OF SERVICES:

The services to be provided shall include a summary of the proposed field exploration (soil borings and drainage tests including the proposed test depths). Standard Penetration Test (SPT) borings will be performed with a truck-mounted rig using mud rotary wash drilling procedures. Also, we plan to perform some of the borings using a barge due to the proposed wetland boardwalk design been over the water. Samples of the in-place materials will be recovered with a standard split barrel driven with a 140-pound hammer falling 30 inches (the Standard Penetration Test in accordance with ASTM D1586). Also, bulk samples of existing soils will be collected from proposed pavement areas and tested in the laboratory for Limerock Bearing Ratio (LBR) for aid in the pavement design. Percolation tests will be performed in accordance with SFWMD "Constant Head Open Hole", See Table 1 attached for complete scope of services

FEE SUMMARY

The total cost of the work will be \$126,494.50 which includes both Geotechnical Exploration and 10% management costs. Estimated hours are broken down in the attachments.

We appreciate the opportunity to submit our proposal. Please contact me if you have any questions.

Regards,

Pevida Highway Designers, LLC

Walfrido J. Pevida, PE

Project Manager



7950 NW 64th Street Miami, FL 33166 phone: 305.471.7725 fax: 305.593.1915 intertek.com/building psiusa.com

June 5, 2020

Pevida Highway Designers (PHD) 8600 NW 17th Street, Suite 160 Doral, Florida 33126

Attention:

Mr. Allan Sequeira, P.E.

Re:

Proposal for Geotechnical Services

Doral Central Park - 3000 NW 87th Avenue City of Doral, Miami-Dade County, Florida

PSI Proposal No.: 0397-1531

Dear Mr. Sequeira:

Professional Service Industries, Inc. (PSI) is pleased to submit this proposal to provide geotechnical engineering services for the above referenced project. Included herein is our understanding of the project, a scope of services and a detailed fee breakdown to complete this project. PSI is very experienced with the subsurface conditions at this site as it has previously (2018) performed a subsurface exploration for the proposed 'Doral Aquatic Facility'. The results of the subsurface exploration and geotechnical evaluation and recommendations were provided in PSI Report No. 0397-1106 dated February 27, 2018.

PROJECT INFORMATION

PSI understands that the current project will consist of the recreational development of the existing Doral Central Park located at 3000 NW 87th Avenue in the City of Doral, Miami-Dade County, Florida. **Table 1** of this proposal provides a summary of the proposed developments/project components based on our review of the 'Doral Central Park Final Master Plan' (dated 11/6/2019) and other information provided by the project designers. PSI previously performed a subsurface exploration and geotechnical engineering report for the proposed aquatic facility at Doral Central Park. We have reviewed the existing soil boring data (i.e. location, number of borings, boring depth) and many of the previously performed borings for the aquatic center match the current design. Therefore, many of these borings will be 're-used' as noted in **Table 1** of this proposal. The existing and proposed boring locations are presented in **Figure 2** of the **Attachment**.

Should any of the information noted in this proposal be inconsistent, PSI requests that you contact us immediately to allow us to make any necessary modifications to this proposal, if necessary.

SCOPE OF SERVICES

Field Exploration - Structures & Pavement Areas

Table 1 of this proposal provides a summary of the proposed field exploration (soil borings and drainage tests including the proposed test depths) based on our knowledge/experience of the subsurface conditions at this site. Standard Penetration Test (SPT) borings will be performed with a truck-mounted rig using mud rotary wash drilling procedures. Also, we plan to perform some of the borings using a barge due to the proposed wetland boardwalk design been over the water. Samples of the in-place materials will be recovered with a standard split barrel driven with a 140-pound hammer falling 30 inches (the Standard Penetration Test in accordance with ASTM D1586). Also, bulk samples of existing soils will be collected from proposed pavement areas and tested in the laboratory for Limerock Bearing Ratio (LBR) for aid in the pavement design.



Doral Central Park

City of Doral, Florida PSI Proposal No. 0397-1531

Field Exploration - Drainage

Percolation tests will be performed in accordance with SFWMD "Constant Head Open Hole" method for determining Hydraulic Conductivity value (k). Also, Double Ring Infiltration Tests (DRI) will be performed in general accordance with ASTM D3385. See **Table 1** below.

Upon completion of our field work, the boreholes will be grout sealed, the surface patched and the site generally cleaned.

Table 1 – Summary of Proposed Project Development & Proposed and Existing Field Exploration

	Proposed Project Component/Final Master Plan Legend Figure 2 of the Attachment for Existing and Proposed Boring Locations)	Proposed Number of SPT Borings	Proposed Boring Depth ft.	Total Boring Footage ft.	¹ Percolation Test or DRI
Existing Borings	Existing PSI Borings to be Re-used - (# borings; name) Competition Pool (3; B-6 to B-8), Leisure Pool (3; B-12 to B-14), Training Pool (2; B-9 & B-10), Aquatic Center and Other Structures/Pool Decks/Equipment (4; B-4, B-5, B-11, B-15), Surface Parking Lot (3; B-1 to B-3)	15 (Existing)	25 to 40 (Existing)	•	_
	70,000 sf Indoor Recreation Center	8	50	400	
	Dedicated Drop-Off Plaza	2	6 (1) & 15 (1)	21	1 Perc.
	Surface Parking Lot (Re-use Existing Borings)	7	6 (4) & 15 (3)	69	3 Perc.
	Competition Pool (Re-use Existing Borings)	1	30	30	-
	5. Park Maintenance/Storage Building	2	20	40	-
	Sloping Event Lawn	4	10	40	1 DRI
	7. Amphitheater Stage	3	40	120	-
	Aquatics Facility (Re-use Existing Borings)	2	25	50	-
	Leisure Pool & Deck (Re-use Existing Borings)	-	-	-	-
	10. Competition Pool Deck (Re-use Existing Borings)	1	30	30	-
	11 & 16. Skate Spot and Pump Track & Learn-to-Bike Loop	6	10	60	-
	12. Sensory Playscape	2	15	30	=
	13. Wetland Boardwalk Trail (Over Water)	3	75	225	-
S	14. Lake-Front Sand Volleyball	2	10	20	-
ing	15. Playground/Playscape	2	15	30	1 DRI
Bor	17. Basketball Courts	5	10	50	-
ě	18 & 19. Tennis Courts & Small Tot-Lot	6	10	60	-
Ř	20. Lake-Front Promenade	6	50	300	-
Sec	21. Cultural Plaza w/ Sculptural Play Piece	3	10	30	-
Proposed/New Borings	22. Primary Vehicular Entrance	4	6	24	2
P	23. Existing Water Storage (Not Required)	-	-	-	-
	24. Perimeter Roads w/ On-Street Parking	13	6 (11) & 15 (2)	96	2 Perc.
	25. Canoe/Kayak/Paddle Boat Launch (Included in 20 & 27)	-	-	-	-
	26. Natural Area w/Nature Trails	3	6	18	-
	27. Nature Pavilion	2	20	40	-
	28. Restroom Building	2	20	40	-
	29. Small Picnic Shelter	18	10	180	-
	30. Large Picnic Shelter	5	10	50	-
	31 & 33. Main Events/Sports Lawn & Bike and Exercise Loop	9	10 (6) & 15 (3)	105	3 Perc. & 1 DRI
	32. Lake-Front Trail	8	10	80	-
	34. Community Garden	2	10	20	-
	35. Overflow Turf Parking Area	3	6 (2) & 15 (1)	27	1 Perc.
	36. Youth Softball/Baseball Diamonds	3	10 (1) & 15 (2)	40	2 Perc. & 1 DRI
	TOTAL (PROPOSED/NEW)	137	-	2,325	-

¹ Percolation Test to 15' deep in accordance with SFWMD procedures; DRI = Double Ring Infiltration Test.

Public Utility Clearance

Underground utility clearance will be required prior to commencing the drilling of the borings. Therefore, PSI will contact "Sunshine 811" to obtain underground public utility clearance. We assume that any private underground utilities existing in the exploratory area will be identified to us by the City of Doral.



City of Doral, Florida PSI Proposal No. 0397-1531

Geotechnical Engineering and Reporting

A geotechnical engineer will review the soil samples and representative samples will be tested for physical properties such as gradation, moisture content and organic content, and corrosion series (pH, resistivity, sulfates, chlorides). Using the results of the field exploration and laboratory test results, we will provide geotechnical recommendations for foundation design/related construction. The results of our work will be transmitted in a report which will specifically contain the following information:

- 1. A plan of the site showing the location of the soil borings and drainage tests.
- 2. Logs of the exploratory borings including the results of the SPT sampling.
- 3. Identification of foundation systems which lend themselves to the site conditions and proposed developments.
- 4. Recommendations for shallow and/or deep foundation systems, as needed for the different project components.
- 5. Allowable soil bearing capacity and pile capacities (axial and lateral), and criteria for construction of floor systems and modulus of subgrade reaction.
- 6. Lake Front bulkhead wall recommendations.
- 7. Geotechnical design soil parameters.
- 8. A forecast of foundation settlements.
- 9. Requirements for site preparation and construction recommendations.
- 10. Results of the percolation tests (hydraulic conductivity value "k") and DRI (soil infiltration rates).
- 11. Pavement design recommendations and LBR value of existing soils.

SCHEDULE AND FEES

Our study can begin one-day after we receive authorization to proceed. We will start drilling after underground utilities have been located and identified, which may take 3-4 workdays. The field drilling should be completed within 5 weeks. The written report of the subsurface exploration and engineering evaluation will be available within 3 weeks following the field demobilization. We estimate that our study will be completed within 8 weeks from your notice to proceed. Based on our understanding of the project requirements, the geotechnical services fee described in this proposal (lump sum fee) is:

• \$114,995.00 (This fee includes re-using many of the soil boring data from the PSI previously performed subsurface exploration as previously stated in this proposal).

A fee breakdown is included in Figure 1 of the Attachment.

PSI appreciates your consideration of our firm for this project. If you have any questions or if you require additional information, please do not hesitate to contact us.

Sincerely,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Certificate of Authorization No: 3684

Juan D. Villegas, P.E.

Senior Engineer

Attachment:

Figure 1: Fee Breakdown

Figure 2: Proposed Boring Location Plan

Camilo Monroy, E.I. Project Manage



ATTACHMENT

Figure 1: Fee Breakdown

Figure 2: Proposed Boring Location Plan





FIGURE 1: FEE BREAKDOWN DORAL CENTRAL PARK IMPROVEMENTS 3000 NW 87TH AVENUE, MIAMI-DADE COUNTY, FLORIDA PSI PROPOSAL No.: 0397-1531

Date: 6/5/2020

DESCRIPTION	<u>UNIT</u>	# OF UNITS	UNIT RATE	TOTAL
1A. Field Exploration (Mobilization of Equipment)				
Mobilization of Truck Mounted Drill Rig	Each	3.0	\$350.00	\$1,050.00
Mobilization of Barge	Each	1.0	\$5,200.00	\$5,200.00
Barge Daily Rental	Day	4.0	\$1,900.00	\$7,600.00
		Subtotal 1	Α	\$13,850.00
1B. Field Exploration (Drilling and Testing)				
Borings Standard Penetration per ASTM D-1586 w/Casing (Land Borings)	Per Foot	2100.0	\$18.00	\$37,800.00
Borings Standard Penetration per ASTM D-1586 w/Casing (Water Borings)	Per Foot	225.0	\$28.00	\$6,300.00
Closing Holes with Grout	Per Foot	2325.0	\$4.00	\$9,300.00
Percolation Tests - Open Hole Method (SFWMD)	Per Test	12.0	\$350.00	\$4,200.00
Double Ring Infiltration Test per ASTM D-3385	Per Test	4.0	\$425.00	\$1,700.00
		Subtotal 1	В	\$59,300.00
2. Laboratory Testing				
Moisture Content	Per Test	70.0	\$10.00	\$700.00
Grain Size Distribution per AASHTO T-27 (Sieve Analysis Only)	Per Test	30.0	\$50.00	\$1,500.00
Organic Content	Per Test	20.0	\$30.00	\$600.00
Material Finer than 200 Sieve per ASTM C-117	Per Test	30.0	\$30.00	\$900.00
Resistivity Test in Accordance with California Method 643-7	Per Test	4.0	\$130.00	\$520.00
Limerock Bearing Ratio (LBR) - FM 5-515	Per Test	4.0	\$300.00	\$1,200.00
		Subtotal	2	\$5,420.00
3. Engineering and Technical Services				
Chief Engineer	Per Hour	15.0	\$165.00	\$2,475.00
Senior Engineer	Per Hour	50.0	\$145.00	\$7,250.00
Project Engineer	Per Hour	75.0	\$120.00	\$9,000.00
Staff Engineer	Per Hour	100.0	\$90.00	\$9,000.00
Engineering Technician	Per Hour	70.0	\$65.00	\$4,550.00
C.A.D Operator	Per Hour	50.0	\$75.00	\$3,750.00
Clerical/Administrative	Per Hour	10.0	\$40.00	\$400.00
Subtotal 3				\$36,425.00

TOTAL PROJECT FEE (Tasks 1A, 1B, 2, and 3) \$114,995.00







