



Continuing Contracts for Geotechnical Engineering Services

E-RFP # 20230089

PRESENTED to:

The City of Port St. Lucie

PRESENTED by:

Tierra South Florida, Inc. d/b/a TSFGEO



September 29, 2023



Main Office
2765 Vista Parkway, Suite H-10
West Palm Beach, Florida 33411
Phone: (561)-687-8536

Miami-Dade County Office
16250 NW 59th Avenue, Suite 207
Miami Lakes, Florida 33014
Phone: (305)-557-0708

Hillsborough County Office
6011 Benjamin Road, Suite 106
Tampa, Florida 33634
Phone: (813)-993-0093

REQUEST FOR STATEMENTS OF QUALIFICATIONS:

CONTINUING CONTRACTS FOR GEOTECHNICAL SERVICES

E-RFP # 20230089

PRESENTED TO:

CITY OF PORT ST. LUCIE



PRESENTED BY:



Tierra South Florida, Inc. dba TSFGeo

2765 Vista Parkway, Suite 10
West Palm Beach, Florida 33411
Phone: (561) 687-8536
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October 2, 2023

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TAB 1. FIRMS QUALIFICATIONS

September 29, 2023

City of Port St. Lucie Purchasing Division

RE: **Letter of Transmittal in Response to RFP-20230089
Geotechnical Services**

Dear Selection Committee:

Tierra South Florida, Inc. (TSFGeo) is pleased to submit this proposal in response to the City of Port St. Lucie's (City) Request for Proposals, RFP Number: 2023061, for Continuing Geotechnical Services. TSFGeo is confident we can meet and exceed your expectations. We are committed to providing you and your staff with the highest level of professional support available and to exceeding your expectations.

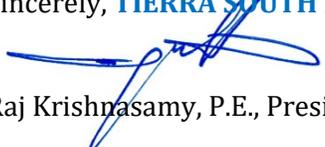
Our team has the qualified, available, and proven individuals to ensure the City's projects are completed to the highest standards. The scope of services associated with this contract is well suited to TSFGeo capabilities. Our staff of over 49 includes principal engineers with more than 36 years of experience in geotechnical engineering, construction, laboratory, and field materials testing and inspection services; 20+ field/laboratory technicians/inspectors, as well as drillers and clerical/support staff. We feature Masters' Degree level or higher educational background amongst the majority of our Registered Professional Engineers and maintain licenses in the State of Florida. Prominent project experience on annual contracts include, Palm Beach County, Martin County, Miami-Dade County, Broward County, Town of Jupiter, Florida Department of Transportation District 4 & 6, United States Army Corp of Engineers, and other agencies. We are, therefore, extremely familiar with the unique demands of providing professional engineering services to municipalities on task order based contracts. We have a proven record of successfully responding to the demands of task-order based contracts and have effectively achieved rapid implementation of similar types of projects.

Our expertise covers a wide range of geotechnical engineering, material testing, and inspection services relating to new and existing structures, site improvements, building additions, remodeling / renovations, storm water, utilities, transit structures, roadway, and remediation/repair projects. Along with our expertise, our team brings local knowledge and experience. As a Project Manager, I bring over 36 years of experience managing similar types of continuing, task-order based contracts for public agencies. Our staff has the commitment and availability to successfully fulfill this contract and is also willing and able to work nights, holidays, and weekends as necessary. **We are available 24 hours a day, 7 days a week, and 365 days a year.** Our firm has the staff availability to effectively respond to multiple, varied and often simultaneous task authorizations. Regardless of the number of authorizations, complexity, or size, TSFGeo has consistently delivered ALL projects on or ahead of schedule.

TSFGeo is more than a geotechnical engineering, construction materials testing and inspection firm, we are a consultant. We believe in getting the job done right the first time. It is our philosophy to earn credibility with our clients on each project. We strive to develop long-term relationships with our clients on each project we complete. Our staff consists of professionals whose dedication to serving our clients is second to none. TSFGeo believes in a team approach with our clients. We believe our clients' concerns are our concerns, and every effort will be made to foster this relationship. Finally, our goal is to be an extension of your staff.

With our personnel and resources, we are extremely capable of meeting all the desired services, schedule, and budget requirements for **Continuing Geotechnical Services** in response to RFP-20230081. You can reach us by phone, (561) 687-8536, or via email at Raj@tsfgeo.com. We look forward to the opportunity to work with The City on this contract.

Sincerely, **TIERRA SOUTH FLORIDA, INC.**


Raj Krishnasamy, P.E., President

OVERVIEW OF FIRM

Tierra South Florida, Inc. (TSFGeo) is a full-service consulting geotechnical engineering, construction materials testing and inspections engineering firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and MicroStation plan sheets, laboratory soils testing, and construction engineering inspection services. Our services also include threshold/special inspections and roofing inspection services. TSFGeo was incorporated in the State of Florida in 2003. Our professional team is committed to providing quality, responsive service, establishing a reputation for sound approaches and professional competence in a wide range of technically demanding areas. TSFGeo is a certified Disadvantaged Business Enterprise (DBE) with the Florida Department of Transportation. Our main office is in West Palm Beach, Florida with branch offices in Miami Lakes and Tampa, Florida.

West Palm Beach Main Office & FDOT/CMEC/USACE Laboratory Project/Contract Manager: Raj, Krishnasamy, PE

2765 Vista Parkway, Suite 10
West Palm Beach, FL 33411
Phone: (561) 687-8536
Email: Raj@Tsfgeo.com



US Army Corps
of Engineers®



SERVICES

Geotechnical Engineering: TSFGeo provides a complete range of geotechnical engineering services. Our organization helps define the construction and long-term performance risks associated with subsurface conditions. TSFGeo will evaluate and then develop recommendations regarding both existing structures and new construction. Whether buildings, airport facilities, transportation systems, landfills, dams, or other civil and private projects, our engineers have the experience and expertise to handle the most technically demanding projects. TSFGeo owns a large, diverse fleet of 8 drill rigs with automatic hammers (truck-mounted, track-mounted, rotary, tripod, ATV, barge/overwater) capable of drilling in challenging conditions including remote, soft, marshy, over-water, difficult access, or environmentally sensitive areas. We also employ MOT (Maintenance of Traffic) certified staff to safely perform drilling services in high traffic areas. ***TSFGeo's geotechnical services include:***

- Laboratory testing and analysis
- Subsurface exploration
- Site preparation recommendations
- Soil reinforcement
- Expert witness testimony
- Value engineering
- Pavement evaluations and design
- Deep and shallow foundation analysis/design
- Slope stability analysis
- Corridor studies
- Sinkhole studies
- Unknown foundation studies

Construction Materials Testing: TSFGeo offers Quality Control, Materials Testing, and Inspection services applicable to the governmental, construction and manufacturing industries. During construction, monitoring and quality control services will cover every phase of construction and all materials used. TSFGeo owns and operates two fully equipped in-house soils, concrete, aggregate, and asphalt testing laboratories certified by Construction Materials Engineering Council (CMEC). Both TSFGeo labs follow American Society for Testing and Materials (ASTM) and American Association of State Highway and Transportation Officials (AASHTO) standards, and our West Palm Beach laboratory is also validated by Florida Department of Transportation (FDOT) and the United States Army Corp of Engineers (USACE). Our field and laboratory technicians hold industry-recognized certifications (ACI/CTQP/PCI/FPCA) for aggregates, asphalt, concrete, and earthwork testing as well as drilled shaft, augercast pile, and pile driving installation monitoring. ***TSFGeo's construction materials testing, and inspection services include:***

- Soils/aggregates/concrete/masonry/asphalt
- Concrete testing and placement observation
- Asphalt paving monitoring
- MSE wall installation monitoring
- Drilled shaft installation monitoring
- Earthwork testing and observations
- Masonry, grout, and mortar sampling/testing
- Asphalt plant observations and monitoring
- Pre-stressed yard observations
- Pile driving installation monitoring

Building Inspection: TSFGeo also provides building inspection services to public and private clients; our services include:

- Threshold/special inspections
- Roof installation observations
- Welding inspections
- Floor flatness testing
- Fire proofing testing
- Pre-stressed inspections
- Non-destructive testing
- Torque testing and inspections
- Concrete monitoring and inspections
- Ultrasonic testing
- Bolt inspections
- X-Ray testing

CAPABILITIES AND EXPERIENCE. TSFGeo's principals have served as geotechnical engineering consultants to a large variety of clients, both public and private. These clients include architects, engineers, contractors, developers, utilities, institutions, schools, military, municipalities, and private enterprise covering commercial and residential entities. Each year TSFGeo completes approximately 350+ projects throughout Florida. These projects range from large, multiple-year duration projects to small, short term projects. Approximately 70% of these projects are for public agencies. Our collective project experience is broad-based covering: buildings, highways, bridges, utilities, communication towers, dams and levees, airport construction, pavement design of municipal airports, sinkhole remediation, ground improvement projects, water supply projects, landfills, slope stabilities analyses, and distressed structure/foundation studies.

RESOURCES

TSFGeo is unique in the vast array of resources we provide our clients. Resources available to serve this contract include:

- ❖ Main office and CMEC/FDOT/USACE laboratory in West Palm Beach
- ❖ Branch office and CMEC laboratory in Miami-Dade County & Tampa
- ❖ 49+ employees, who are professional registered geotechnical, construction inspection and threshold inspectors, drillers, field and laboratory technicians, and support personnel.
- ❖ State of Florida Registered Professional Engineers with over 140 years of combined experience, considered experts in all aspects of geotechnical engineering including design of deep and shallow foundations, slope stability, roadway soil survey, and ground improvement technique.
- ❖ Large, diverse fleet of drill rigs as well as barge equipment.
- ❖ In-house soils and concrete laboratory inspected and certified by CMEC and validated by Florida Department of Transportation (FDOT) and United States Army Corp of Engineers (USACE).
- ❖ Trained, experienced and certified personnel and laboratory equipment capable of:
 - Meeting ASTM requirements for proctor, moisture/density, nuclear density, consolidation, and sieve analysis, as well as boring logs, soil property tests and LBR tests.
 - Meeting established American Society of Testing and Material (ASTM) requirements for slump tests, air tests and concrete compressions tests.
 - Performing soil testing services (Density testing, laboratory Proctor, Limerock Bearing Ratio (LBR), California Bearing Ratio (CBR), Sieve Analysis, etc.)
 - Providing field exploration services for Structures
 - Providing field exploration services for roadway (auger profile borings, permeability tests, pavement cores, pavement condition survey, etc.)
 - Performing laboratory services (Limerock Bearing Ratio, moisture content test, Atterberg limit, grain size distribution, etc.)
 - Performing concrete and asphalt inspection and testing services
 - Performing structural concrete sampling and testing.
- ❖ In-house equipment to meet all soils, construction materials sampling and analysis needs.
- ❖ Specializing in educational facilities, airport construction, municipal and international airports, pavement design and evaluation of residential, commercial, wastewater treatment facilities, sports arenas, landfills, roadways, and land reclamation located throughout the southern and eastern regions of the United States.

TSGeo currently provides geotechnical engineering, materials testing and inspection services through continuing contracts to numerous public entities, including FDOT, USACE, SFWMD, and dozens of municipalities. ***We are therefore extremely familiar with the practices, procedures, and processes of Local Government.*** Over 70% of our daily workload is based on continuing contracts. Throughout TSGeo's experience as the prime consultant for task-based continuing contracts, TSGeo implements proven strategies to respond to the demands and unknown scheduling that are unique to these contracts. We are committed to exceeding your expectations and will always plan for enough capacity to meet your project needs, both anticipated and unanticipated.

Our continuing contract experience and successful retentions of those contracts proves TSGeo's ability to respond quickly to work orders and provide quality service. ***TSGeo's prominent continuing contract experience as a prime consultant includes:***

- FDOT District 4 Districtwide Geotechnical & Pavement Services Contract
- USACE Indefinite Delivery Contract For Geotechnical Core Drilling And Laboratory Testing Within The Florida Boundaries Of The Jacksonville District, Puerto Rico, U.S. Virgin islands, and the Caribbean area
- St. Lucie County School District: Continuing Contracts for Geotechnical & Materials Testing Services
- Indian River County: Geotechnical Engineering Services
- Sarasota County: Professional Services for Construction Testing and Geotechnical Services
- South Florida Water Management District: Geotechnical Engineering and Testing Services
- City of Boca Raton: Geotechnical Engineering and Laboratory Testing Services
- Town of Jupiter Utilities: Geotechnical Engineering and Construction Materials Testing Consulting
- City of West Palm Beach: General Engineering Services – Geotechnical Analysis
- City of Palm Beach Gardens: Continuing Contracts for Professional Services for Geotechnical Analysis
- City of Lake Worth: Geotechnical Engineering
- Solid Waste Authority: Misc. Geotechnical Engineering and Construction Materials Testing Services
- Palm Beach State College: Geotechnical Engineering Services Annual Contract
- School District of Palm Beach County: Geotechnical Engineering and Construction Materials Testing
- School District of Palm Beach County: Threshold Inspection Services
- Broward County: Qualified Vendors List for Professional Consultant Services (Geotechnical Engineering)
- City of Sunrise: Geotechnical and Engineering Testing Services
- City of Miramar: Architectural and Engineering Consulting Services Construction Testing and Inspections
- City of Ft. Lauderdale: Professional Services Library, Foundations, Soils and Material Testing
- City of North Lauderdale: Geotechnical Engineering Services Annual Contract
- City of Oakland Park: Continuing Professional Architectural and Engineering Services
- City of Dania Beach: Geotechnical Engineering Services Annual Contract
- City of Pembroke Pines: Architectural, Engineering, Surveying and Mapping Professional Service Providers
- City of Lauderdale Lakes: Professional Services Library for Geotechnical Engineering Services
- Miami-Dade County: Equitable Distribution Program for Geotechnical and Material Testing Services
- City of Miami Beach: Geotechnical and Laboratory Testing Services
- Miami Dade College: Geotechnical Services Annual Contract
- School Board of Brevard County: Continuing Contract for Geotechnical and Material Testing Services
- School Board of Martin County: Construction Materials Testing and Building Threshold Inspections

PROJECTED AVAILABILITY & CURRENT/ANNUAL WORKLOAD

Each year TSFGEO completes approximately 400+ projects throughout South Florida. These projects range from large, multiple-year duration projects to small, short-term projects. All the work performed is completed by our local staff in our main office located in West Palm Beach, Florida.

TSFGEO has structured its staff and capabilities to provide maximum flexibility to meet our client’s scheduling requirements. Our typical backlog is made up of many short duration assignments. Even long-term contracts are of indefinite quantity type and thus, actual workload is dependent upon the release of individual work orders. We are fully capable and committed to The City and the contract’s needs. TSFGEO is confident of meeting all project schedules. TSFGEO maintains strict internal timelines to ensure all work is completed in a timely manner. We are committed to staying on schedule throughout the duration of each assignment. All projects and task orders are initiated within 24 hours of authorization to proceed. By initiating tasks within the first 24 hours, TSFGEO avoids a backlog of work waiting to be completed and, therefore, maintains the capacity and flexibility for all incoming assignments to be completed on schedule. Mr. Krishnasamy will work closely with The City to anticipate staffing commitments and ensure that the required staff is committed to the projects, maintaining the same personnel for each of the individual task orders whenever possible.

RECENT WORKLOAD

TSFGEO prides itself on maintaining a local, available, and responsive team. Each month TSFGEO’s workload consists of contracted work, anticipated work, and unanticipated work. TSFGEO is confident of meeting the project schedules. We are committed to exceeding your expectations and will always plan for enough capacity to meet your project needs, both anticipated and unanticipated. Our staff has the commitment and availability to successfully fulfill this contract and is also willing and able to work nights, holidays, and week-ends as necessary. Our firm has the staff availability to effectively respond to multiple, varied and often simultaneous task authorizations. *Regardless of the number of authorizations, complexity, or size, TSFGEO has consistently delivered ALL projects on or ahead of schedule.*

Year	Contracted Projects	On Schedule	Completed	On-Going
2023 (1/1 - 9/25)	323	100%	80%	20%

TSFGEO also maintains one of the largest in-house fleets of drill rigs in South Florida as well as a full array of equipment necessary to meet the City’s needs and project schedule requirements. Our drill rigs vary in type (barge equipment, 4x4 trucks and track mounted rigs, skid rig and tripod rigs), which enables us to select equipment to suit differing site conditions and to mobilize resources quickly to project sites. In addition, our standard response time for the most common testing activities is 24 hours, provided at least 24 hours’ notice is given by fax, email, or phone. Specific tasks may require additional preparation time prior to mobilizing to the site. If needed, TSFGEO can respond to last minute/same day requests within 4 hours of contacting our office. We have the resources necessary to ensure that key personnel are readily available to devote a significant portion of their time to fulfilling this contract. TSFGEO’s team members will be available and responsive to the needs of The City throughout the duration of the contract.

*Due to our extensive experience working with public agencies, we are familiar with the design criteria and standards for various agencies, in particular, the practices of the State of Florida Department of Transportation, Indian River County Public Works Department, the State of Florida Department of Health, the State of Florida Department of Environmental Protection and the South Florida Water Management District as well as applicable building codes. **TSFGeo is also familiar with the standards, practices, requirements, and applicable ordinances of St. Lucie County and the City of Port St. Lucie.***

On the following pages, please find TSFGeo's SF330 including similar project experience with references. **All projects were completed on-time and within or below budget;** and all services performed are in general accordance with State, County and City codes and regulations.

Abbreviations in the following sections as follows:

GEO – Geotechnical Engineering	USDA - United States Department of Agriculture
CMTS – Construction Material Testing Services	FDOT – Florida Dept. of Transportation
INSP – Inspection Services	NRCS -Natural Resources Conservation Services
SPT - Standard Penetration Test	USCS - Unified Soil Classification System
BHP – Borehole Permeability Test	SCS – Soil Conservation Services
DRIT – Double Ring Infiltration Test	USGS - United States Geological Survey
IPD - In-Place Density	ASTM – American Society for Testing & Materials
LBR – Limerock Bearing Ratio	AASHTO – American Association of State Highway & Transportation Office
SFWMD – South Florida Water Management District	MPO - Metropolitan Planning Organization
PBC – Palm Beach County	

On the following pages, please find TSFGeo's SF330:

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

**Continuing Geotechnical (GEO) Services
City of Port St. Lucie, Florida**

2. PUBLIC NOTICE DATE
September 1, 2023

3. SOLICITATION OR
PROJECT NUMBER
#20230089

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Raj Krishnasamy, P.E., President/ Principal Engineer

5. NAME OF FIRM

TIERRA SOUTH FLORIDA, Inc. dba TSFGeo

6. TELEPHONE NUMBER
(561) 687-8536

7. FAX NUMBER
(561) 687-8570

8. E-MAIL ADDRESS
Raj@tsfgeo.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	I-V PARTNER	SUBCON-TRACTOR			
a.	X			 <input type="checkbox"/> CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Geotechnical Engineering Services and Materials Testing Services
b.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

Organizational Chart



**Contract Manager / Principal Engineer
 & QA/QC Officer**

Raj Krishnasamy, P.E., President

Geotechnical Engineering Services

Kumar Vedula, P.E., Principal Engineer
 N. Manoharan, Ph.D., Senior Specialist
 Harmon Bennett, P.E., Principal Engineer
 Amy Guisinger, P.E., Principal Engineer
 Sean Tromans, E.I., Staff Engineer
 Esvard Janvier, Project Engineer
 Jose Oliva, Field Supervisor and
 CADD/Microstation Manager

CTOP

Pile Driving Inspections

Stephen Hey

Geotechnical Field Staff

3 Drill Crews with Senior Drillers (20+
 Years of Experience) and Assistant
 Drillers
 Danny Reeves, Utility Coordinator

**Construction Materials, Construction Engineering Inspection,
 and Laboratory Testing Services**

Morgan Dickinson, P.E., S.I., Principal Material Engineer
 Harmon Bennett, P.E., Principal Engineer, CEI Services
 Wilson Gonzalez, Director of Operations
 Stephen Hey, Field Supervisor/Estimating
 Juan Manuel Rosa, West Palm Beach Laboratory Manager
 Robert Tolan, Miami Laboratory Manager
 Omar Castro, Laboratory Assistant

15 ACI/CTOP Certified Laboratory and Field

Inspectors/Technicians

ACI Concrete Field-Testing Technician Grade I: 6 Technicians
 CTQP Concrete Field-Testing Technician Level 1: 4 Technicians
 CTQP Asphalt Paving Level 1: 2 Technicians / Level 2: 1 Technician
 CTQP Asphalt Plant Level 1: 3 Technicians / Level 2: 1 Technician
 CTQP Earthwork Construction Level 1: 5 Technicians /
 Level 2: 1 Technician
 Nuclear Density Gauge: 10 Technicians
 CTQP Pile Driving: 2 Inspectors
 CTQP Drilled Shaft: 3 Inspectors
 CTQP Final Estimates Level 1: 1 Technician / Level 2: 1 Technician

Administrative and Clerical Support

7 Employees including Accounting, Data
 Entry, Office Management, Marketing, etc.

Building & Threshold/Special Inspections

Morgan Dickinson, P.E., S.I.
 Enrique Xavier Burbano, B.N.
 Raimundo Perez, B.N.
 OJ Viamonte

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Raj Krishnasamy, P.E.	13. ROLE IN THIS CONTRACT Contract/Project Manager / QA/QC	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 31

15. FIRM NAME AND LOCATION *(City and State)*

TIERRA SOUTH FLORIDA, INC. dba TSFGEO, West Palm Beach, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*

BS Civil Engineering, Christian Brothers University, 1987
MS Civil Engineering, University of Memphis, 1996

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*

Professional Engineer, Florida No. 53567

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

American Society of Highway Engineers, Past President, Florida Engineering Society, Past Treasurer
Geotechnical Material Engineering Council, Past Chairman

Mr. Raj Krishnasamy, P.E. will serve as Project Manager, the single Point of Contact for the City and QA/QC Officer. He is a Florida-registered Professional Engineer with 36 years of professional experience and a Master of Science in Geotechnical Engineering. As President and Principal Engineer of Tierra South Florida, Inc. (TSFGEO), Mr. Krishnasamy oversees all geotechnical engineering, construction materials testing, and inspection services operations. His experience is highlighted by over 7,500 public and private projects, design-build projects totaling \$2 billion in construction costs, and numerous prominent projects. Mr. Krishnasamy has extensive experience as Project Manager and QA/QC Officer for continuing contracts providing geotechnical engineering, laboratory services, and construction material testing. He serves as Project Manager for continuing contracts with over 20 Florida public agencies with a history of repeatedly retaining those contracts through successful, cost-effective, and prompt execution of each task order. Mr. Krishnasamy's daily involvement with the in-house and field operations of the construction and geotechnical services departments provides him the "hands-on" experience and knowledge of current construction codes and construction practices throughout the State of Florida. Mr. Krishnasamy and his highly experienced team focus on providing the client with a consistently accurate, cost-effective quality product that is delivered on time and within budget.



19. RELEVANT PROJECTS

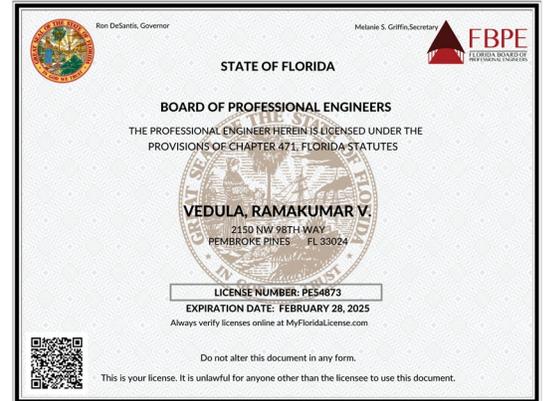
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Shoppes at the Heart of Tradition, Port St. Lucie, Florida	2021	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal in Charge of the Geotechnical Engineering Study for The Shoppes at the Heart of Tradition in Port St. Lucie, Florida. The project site is located at on the SW corner of SW Discovery Way and SW Village Parkway and was vacant and void of vegetation. The construction includes single story structures, including grocery, retail shoppes, restaurants, bank, and office buildings. The purpose of this study was to explore the subsurface conditions at the site to enable an evaluation of an acceptable foundation for the proposed construction. Provided a geotechnical engineering report that briefly outlined the testing procedures, a summary of available project information, a description of the site and subsurface conditions, and geotechnical recommendations regarding Foundation soil preparation requirements; Foundation recommendations; pavement design, and comments regarding factors that may impact construction and performance of the proposed construction. ✓ Completed on time ✓ Within budget		
b.	Design Services for Port St. Lucie Blvd., from Paar Dr. to Darwin Blvd., St. Lucie County, Florida	2022	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering Services for the roadway reconstruction project which included widening the existing Port St. Lucie Blvd., reconstruction the existing bridge over East-84 canal, construction of new ponds, closed drainage systems, lighting and landscape and mast arm signalization installations at six intersections. The purpose of the study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the potential roadway improvements and mast arm structure installations and obtain information on the existing subsurface conditions at the project site to assist in the design and preparation of construction plans for the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, pile selection, downdrag, pile group settlements, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, excavations, subsurface conditions, permanent cut and fill slopes, excavations, groundwater control, on-site soil suitability, pavement design and construction considerations. ✓ Completed on time ✓ Within budget		

c.	(1) TITLE AND LOCATION <i>(City and State)</i> St Lucie Blvd from South of Becker Road to South of Paar Drive, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Krishnasamy was the Principal in Charge of the Geotechnical Engineering Services for St. Lucie Blvd located in St. Lucie County, Florida. The project consisted of roadway improvements from south of Becker Road to south of Paar Drive. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans for the construction. The purpose of this study was to provide geotechnical input to the design team to assist in the design and construction of the roadway improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding permanent cut and fill slopes, excavations, groundwater control, pavement design considerations, on-site soil suitability along with vibration and settlement monitoring and pre and post construction survey. ✓ Completed on time ✓ Within budget	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION <i>(City and State)</i> SR-9/I-95 from N. of Gatlin Blvd. to S. of St. Lucie West Blvd., St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Krishnasamy was the principal in charge of the geotechnical engineering study for 2.967 miles of roadway improvements along SR-9/I-95 in St. Lucie County, Florida. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans. Provided a Roadway Soil Survey report which included evaluations and recommendations regarding excavations, groundwater control, pavement design considerations, on-site soil suitability, monitoring existing structures, pavement cores and permanent cut and fill slopes. ✓ Completed on time ✓ Within budget	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Healthcare Center at Tradition, Port St. Lucie, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Krishnasamy was the Principal in Charge for the geotechnical exploration for the proposed Healthcare Center at Tradition in Port Saint Lucie, Florida. The proposed Healthcare Center will include three-story buildings on vacant land which will encompass an area of about 34,350 square feet and a new parking lot/driveway. The purpose of the study was to explore the subsurface conditions at the site to enable an evaluation of acceptable foundation systems for the proposed construction. Provided geotechnical recommendations regarding foundation soil preparation requirements; foundation types, depths, allowable bearing capacities, and an estimate of potential settlement; Pavement Design Recommendations; and comments regarding factors that may impact construction and performance of the proposed construction. ✓ Completed on time ✓ Within budget	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

<p>12. NAME Kumar Vedula, P.E.</p>	<p>13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer</p>	<p>14. YEARS EXPERIENCE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">a. TOTAL 27</td> <td style="width:50%;">b. WITH CURRENT FIRM 18</td> </tr> </table>		a. TOTAL 27	b. WITH CURRENT FIRM 18
a. TOTAL 27	b. WITH CURRENT FIRM 18				
<p>15. FIRM NAME AND LOCATION <i>(City and State)</i> TIERRA SOUTH FLORIDA, INC. dba TSFGEO, West Palm Beach, Florida</p>					
<p>16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Engineering, Andhra University, India, 1992 MS Civil Engineering, University of Memphis, 1995</p>		<p>17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer, Florida No. 54873</p>			
<p>18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Society of Civil Engineers, Past President</p> <p>Kumar Vedula, P.E. will serve as Principal Geotechnical Engineer. Mr. Vedula is a Florida-registered Professional Engineer with 27 years of geotechnical and construction materials testing experience. He specializes in geotechnical projects involving foundation design, slope stability analysis, WEAP analysis and interpreting PDA reports, excavation support, and construction inspection. Additional experience includes foundation inspections (shallow and deep foundations), soil modification (dynamic compaction, stone columns), preloading, excavations, backfilling, and post construction monitoring. Mr. Vedula has served as a principal inspector on numerous surcharging and settlement evaluations of organic laden soils assignments. His project experience includes over 20 high rise buildings, as well as foundation engineering for bridges, roadways, utilities, schools, and government facilities.</p>					
<p>19. RELEVANT PROJECTS</p>					
a.	<p>(1) TITLE AND LOCATION <i>(City and State)</i> Design Services for Port St. Lucie Blvd., from Paar Dr. to Darwin Blvd., St. Lucie County, Florida</p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2022</td> <td style="width:50%;">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>		PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>
	PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Principal Geotechnical Engineer for the Geotechnical Engineering Services for the roadway reconstruction project which included widening the existing Port St. Lucie Blvd., reconstruction the existing bridge over East-84 canal, construction of new ponds, closed drainage systems, lighting and landscape and mast arm signalization installations at six intersections. The purpose of the study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the potential roadway improvements and mast arm structure installations and obtain information on the existing subsurface conditions at the project site to assist in the design and preparation of construction plans for the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, pile selection, downdrag, pile group settlements, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, excavations, subsurface conditions, permanent cut and fill slopes, excavations, groundwater control, on-site soil suitability, pavement design and construction considerations. ✓ Completed on time ✓ Within budget</p>					
b.	<p>(1) TITLE AND LOCATION <i>(City and State)</i> Intersection Lighting Retrofit Improvements, St. Lucie County, Florida</p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2022</td> <td style="width:50%;">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>		PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>
	PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the senior geotechnical engineer for the Geotechnical Engineering Services for the project which consisted of lighting improvements at the intersection of SR 615 at Delaware Avenue. The purpose of this study was to provide geotechnical input to the design team to assist in the design and construction of the light pole foundations. Provided a geotechnical engineering report which included evaluations and recommendations regarding soil parameters for cylindrical foundation design and construction considerations regarding lighting. ✓ Completed on time ✓ Within budget</p>					
c.	<p>(1) TITLE AND LOCATION <i>(City and State)</i> Resurfacing SR 5/ US-1 from S. of Port Saint Lucie Blvd. to NE Riomar Dr, St. Lucie County, Florida</p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2019</td> <td style="width:50%;">CONSTRUCTION <i>(If applicable)</i></td> </tr> </table>		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i>			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Principal Engineer for the Geotechnical Engineering Services for the project which consisted of the installation of traffic signal mast arms and light poles at Tiffany Ave., Spanish Lakes Rd., and Prima Vista Blvd. intersections (one mast arm at each intersection) and an extension of an existing double box culvert. The study was performed to explore the subsurface conditions at the structure locations and provide geotechnical recommendations to guide the design. The purpose of this study was to provide geotechnical input to the design team to assist in the foundation design. Provided a geotechnical engineering report which included evaluations and recommendations regarding the traffic signal mast arms, construction considerations and light pole foundations, monitor existing structures, soil parameters for cylindrical foundation and spread footing design. ✓ Completed on time ✓ Within budget</p>					

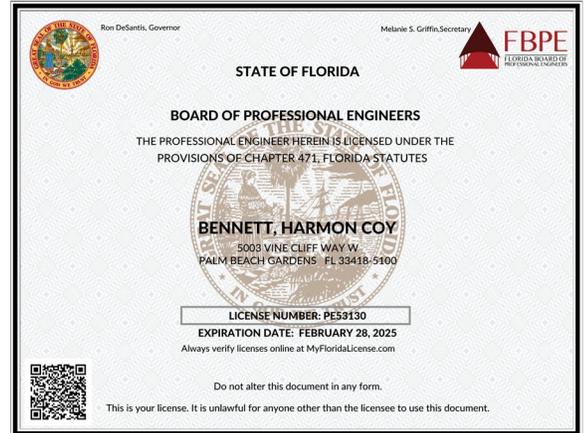


d.	(1) TITLE AND LOCATION (<i>City and State</i>) St Lucie Blvd from South of Becker Road to South of Paar Drive, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2021	CONSTRUCTION (<i>If applicable</i>)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Vedula was the Senior Geotechnical Engineer for the Geotechnical Engineering Services for St. Lucie Blvd located in St. Lucie County, Florida. The project consisted of roadway improvements from south of Becker Road to south of Paar Drive. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans for the construction. The purpose of this study was to provide geotechnical input to the design team to assist in the design and construction of the roadway improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding permanent cut and fill slopes, excavations, groundwater control, pavement design considerations, on-site soil suitability along with vibration and settlement monitoring and pre and post construction survey. ✓ Completed on time ✓ Within budget	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Peacock Road Culvert Replacement, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (<i>If applicable</i>)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Vedula was the Principal Engineer for the Geotechnical Engineering Services for the Peacock Road Culvert Replacement located in St. Lucie County, Florida. The project consisted of a replacement of the existing dual 72" Corrugated Metal Pipe (CMP) culverts with either a similar pipe section to the existing design or a single metal arch pipe. The drainage path crossed a single-lane unimproved roadway. The purpose of this study was to provide geotechnical input to the design team to assist in evaluation of the potential culvert replacement. Provided a geotechnical engineering report which included evaluations and recommendations regarding culvert replacement. ✓ Completed on time ✓ Within budget	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

<p>12. NAME Harmon Bennett, P.E.</p>	<p>13. ROLE IN THIS CONTRACT Principal Geotechnical Engineer</p>	<p>14. YEARS EXPERIENCE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">a. TOTAL 31</td> <td style="width:50%; text-align: center;">b. WITH CURRENT FIRM 5</td> </tr> </table>		a. TOTAL 31	b. WITH CURRENT FIRM 5
a. TOTAL 31	b. WITH CURRENT FIRM 5				
<p>15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC. dba TSFGEO, West Palm Beach, Florida</p>					
<p>16. EDUCATION (DEGREE AND SPECIALIZATION) BSCE, Geotechnical (Cum Laude), University of Southern Florida, 1994 AS, Engineering Preparation, Hillsborough Community College, 1992 AS, Munitions Systems Technology, Community College of the Air Force, 1990</p>		<p>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida No. 53130</p>			
<p>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Tin# B53032365; CTQP QC Manager; CTQP Final Estimates Level 1 and 2 Mr. Harmon Bennett, P.E. is a Florida registered Professional Engineer with over 31 years of experience. He has completed numerous projects for the FDOT as Geotechnical Engineer in the areas of roadway and bridge foundation investigations, asphalt coring and evaluation programs and design studies. Additionally, He has completed numerous geotechnical investigation and materials testing service projects for private clients, to include multi-story structures, distribution centers, hotels, large-scale retail, hospitals, and others. He also served as the Contract Project Manager for multiple FDOT District 1 District-wide Materials Testing Contract and District 7 District-wide CEI Contracts, coordinating contract management, testing, and personnel utilization. He has completed numerous Construction Engineering & Inspection (CEI) Projects for State Agencies. Harmon holds a current Florida Engineer's License as well as an inactive Florida General Contractor License. He is experienced in nearly all forms of construction for Commercial and Transportation related projects, including multi-story structures, large scale commercial, roadways, bridges, walls, foundations, etc. Mr. Bennett is also a Certified CTQP Training Instructor for Earthwork 1, Earthwork 2, Pile Driving, and Drilled Shaft, with more than 25 courses (internal and external) being provided to the construction industry inspection staff.</p>					
<p>19. RELEVANT PROJECTS</p>					
a.	<p>(1) TITLE AND LOCATION (City and State) Design Services for Port St. Lucie Blvd., from Paar Dr. to Darwin Blvd., St. Lucie County, Florida</p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2022</td> <td style="width:50%;">CONSTRUCTION (If applicable) N/A</td> </tr> </table>		PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A			
<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bennett was the Principal Engineer for the Geotechnical Engineering Services for the roadway reconstruction project which included widening the existing Port St. Lucie Blvd., reconstruction the existing bridge over East-84 canal, construction of new ponds, closed drainage systems, lighting and landscape and mast arm signalization installations at six intersections. The purpose of the study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the potential roadway improvements and mast arm structure installations and obtain information on the existing subsurface conditions at the project site to assist in the design and preparation of construction plans for the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, pile selection, downdrag, pile group settlements, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, excavations, subsurface conditions, permanent cut and fill slopes, excavations, groundwater control, on-site soil suitability, pavement design and construction considerations. ✓ Completed on time ✓ Within budget</p>					
b.	<p>(1) TITLE AND LOCATION (City and State) Shoppes at the Heart of Tradition Port St. Lucie, FL</p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">PROFESSIONAL SERVICES 2021</td> <td style="width:50%;">CONSTRUCTION (If applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)
	PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)			
<p>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bennett was the Principal Engineer for the Geotechnical Engineering Services for the project which is located on the SW corner of SW Discovery Way and SW Village Parkway and was vacant and void of vegetation. The construction includes single story structures, including grocery, retail shoppes, restaurants, bank, and office buildings. The purpose of this study was to explore the subsurface conditions at the site to enable an evaluation of an acceptable foundation for the proposed construction. Provided a geotechnical engineering report that briefly outlined the testing procedures, a summary of available project information, a description of the site and subsurface conditions, and geotechnical recommendations regarding Foundation soil preparation requirements; Foundation recommendations; pavement design, and comments regarding factors that may impact construction and performance of the proposed construction. ✓ Completed on time ✓ Within budget</p>					



	(1) TITLE AND LOCATION <i>(City and State)</i> SR-A1A North Bridge Over ICWW, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bennett was the Principal Engineer for Geotechnical Engineering Services for the SR A1A North Bridge over ICWW located in St. Lucie County, Florida. The project included construction of a replacement bridge over ICWW, a new bridge, an observation deck, widening and reconstruction of US-1 and Old Dixie Highway, installation of MSE, bulkhead, park lane and gravity walls, observation deck ramp training walls, critical temporary sheet pile walls, and installation of overhead signs and traffic signal mast arms. The purpose of the study was to provide Geotechnical input to the design team to assist in the foundation design of overhead signs and traffic signal mast arms; design and preparation of construction plans for the roadway improvements; and preparation for the retaining walls. Provided geotechnical engineering report which included evaluations and recommendations regarding foundation design for overhead signs and traffic signals, soil parameters to use in the design of the wall, organic soils, permanent cut and fill slopes, excavations and groundwater control, pavement design considerations, on-site soil suitability, external stability analyses, overall stability, and estimated settlement, MSE, bulkhead, gravity and park lane walls, critical temporary walls, observation deck ramp retaining walls, monitoring of existing structures and construction considerations. ✓ Completed on time ✓ Within budget		
	(1) TITLE AND LOCATION <i>(City and State)</i> SR-9/I-95 from N. of Gatlin Blvd. to S. of St. Lucie West Blvd., St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2020	CONSTRUCTION <i>(If applicable)</i>
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bennett was the Principal Engineer for the Geotechnical Engineering Services for 2.967 miles of roadway improvements along SR-9/I-95 in St. Lucie County, Florida. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans. Provided a Roadway Soil Survey report which included evaluations and recommendations regarding excavations, groundwater control, pavement design considerations, on-site soil suitability, monitoring existing structures, pavement cores and permanent cut and fill slopes. ✓ Completed on time ✓ Within budget		
	(1) TITLE AND LOCATION <i>(City and State)</i> Peacock Road Culvert Replacement, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION <i>(If applicable)</i>
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Bennett was the Principal Engineer for Geotechnical Engineering Services for the Peacock Road Culvert Replacement located in St. Lucie County, Florida. The project consisted of a replacement of the existing dual 72" Corrugated Metal Pipe (CMP) culverts with either a similar pipe section to the existing design or a single metal arch pipe. The drainage path crossed a single-lane unimproved roadway. The purpose of this study was to provide geotechnical input to the design team to assist in evaluation of the potential culvert replacement. Provided a geotechnical engineering report which included evaluations and recommendations regarding culvert replacement. ✓ Completed on time ✓ Within budget		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME N. Manoharan, Ph.D.		13. ROLE IN THIS CONTRACT Senior Specialist		14. YEARS EXPERIENCE	
				a. TOTAL 26	b. WITH CURRENT FIRM 19
15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC. dba TSFGEO, West Palm Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) Doctorate of Philosophy in Geotechnical Eng., 1996 Master of Technology in Geotechnical Eng., 1988 Bachelor of Engineering in Civil Engineering, 1985			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Publications: "Soils and Foundation" Training provided by NHI of FHWA (2003); "Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes" provided by NHI of FHWA (2005); "Ground Improvement Methods" Training provided by NHI of FHWA (2006)					
N. Manoharan, Ph.D., will serve as Senior Specialist. Dr. Manoharan has more than 26 years of experience in providing geotechnical services to projects of diversified complexity focusing primarily on transportation projects. His experience includes soil investigation, foundation designs, piling works, ground improvement works, slope stability analysis, MSE walls and earth works. He is extremely knowledgeable regarding the analysis and evaluation of field and laboratory data, performing in-situ soil testing, in-place permeability testing and geophysical explorations. He has performed studies including monitoring vibrations of structures during construction and evaluating bearing capacity and settlements for different types of shallow and deep foundation systems. In addition, he has provided evaluation of embankment design of retaining walls, sheet piling systems, slope stability analysis of conventional and reinforced embankments, and evaluation of drilled shaft, driven pile, Augercast pile, and pile static load tests. He has successfully completed over 150 FDOT projects, principally in Districts 4, 6, and Florida's Turnpike Enterprise.					
19. RELEVANT PROJECTS					
	(1) TITLE AND LOCATION (City and State) Design Services for Port St. Lucie Blvd., from Paar Dr. to Darwin Blvd., St. Lucie County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Dr. Manoharan was the Senior Specialist for the Geotechnical Engineering Services for the roadway reconstruction project which included widening the existing Port St. Lucie Blvd., reconstruction the existing bridge over East-84 canal, construction of new ponds, closed drainage systems, lighting and landscape and mast arm signalization installations at six intersections. The purpose of the study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the potential roadway improvements and mast arm structure installations and obtain information on the existing subsurface conditions at the project site to assist in the design and preparation of construction plans for the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, pile selection, downdrag, pile group settlements, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, excavations, subsurface conditions, permanent cut and fill slopes, excavations, groundwater control, on-site soil suitability, pavement design and construction considerations. ✓ Completed on time ✓ Within budget				
	(1) TITLE AND LOCATION (City and State) SR-9/I-95 from N. of Gatlin Blvd. to S. of St. Lucie West Blvd., St. Lucie County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2020	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Dr. Manoharan was the senior specialist for the Geotechnical Engineering Services for 2.967 miles of roadway improvements along SR-9/I-95 in St. Lucie County, Florida. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans. Provided a Roadway Soil Survey report which included evaluations and recommendations regarding excavations, groundwater control, pavement design considerations, on-site soil suitability, monitoring existing structures, pavement cores and permanent cut and fill slopes. ✓ Completed on time ✓ Within budget				
	(1) TITLE AND LOCATION (City and State) St Lucie Blvd from South of Becker Road to South of Paar Drive, St. Lucie County, Florida			(2) YEAR COMPLETED	
				PROFESSIONAL SERVICES 2021	CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Dr. Manoharan was the senior specialist for the Geotechnical Engineering Services for the project which consisted of roadway improvements on St. Lucie Blvd. from south of Becker Road to south of Paar Drive. The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans for the construction. The purpose of this study was to provide geotechnical input to the design team to assist in the design and construction of the roadway improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding permanent cut and fill slopes, excavations, groundwater control, pavement design considerations, on-site soil suitability along with vibration and settlement monitoring and pre and post construction survey. ✓ Completed on time ✓ Within budget				

	(1) TITLE AND LOCATION <i>(City and State)</i> Replacement of Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Dr. Manoharan was the senior specialist for the Geotechnical Engineering Services for the replacement of Old Dixie Highway Bridge located in St. Lucie County, Florida. The project consisted of the replacement of the existing Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail with a new 5 span bridge with a span length of approximately 47 feet along with milling and resurfacing. The purpose of the geotechnical study was to provide geotechnical input to the design team for design and preparation of construction plans. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven concrete pile axial capacity, FB-Multiplier soil parameters, pile installation, load test program and monitor existing structures. ✓ Completed on time ✓ Within budget		
	(1) TITLE AND LOCATION <i>(City and State)</i> Indrio Road/ SR 614 from I-95 to Emerson Avenue/ SR 607, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Dr. Manoharan was the Senior Specialist for the geotechnical engineering services for the reconstruction of Indrio Road located in St. Lucie County, Florida. The project consisted of widening the existing roadway, changes to the roadway alignment, mast arm installations at the intersection with I-95 ramps, Johnston Road and Emerson Avenue and replacement of an existing box culvert located just east of the I-95 interchange. A geotechnical study was performed to explore the subsurface conditions within the general vicinity of the bridge location in order to identify the general subsurface stratigraphy and provide geotechnical recommendations to guide design and construction. The purpose of this study was to provide geotechnical input to the design team to assist in evaluation of the merits of the roadway reconstruction and widening. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, pile lateral load analysis, concrete pile installation, test pile program, permanent cut and fill slopes, excavations, groundwater control, pavement design considerations, on-site soil suitability, mast arm foundation design and drilled shaft construction. ✓ Completed on time ✓ Within budget		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Morgan Dickinson, P.E., S.I.	13. ROLE IN THIS CONTRACT Principal Engineer / Special Inspector	14. YEARS EXPERIENCE	
		a. TOTAL 45	b. WITH CURRENT FIRM 2

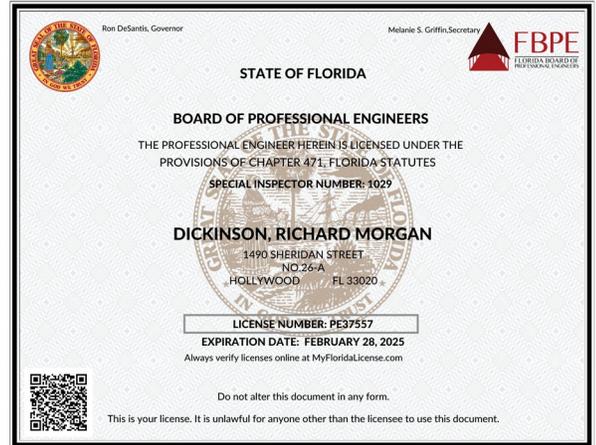
15. FIRM NAME AND LOCATION *(City and State)*
TIERRA SOUTH FLORIDA, INC. dba TSFGEO, West Palm Beach, Florida

16. EDUCATION *(DEGREE AND SPECIALIZATION)*
 Master of Science in Geotechnical Engineering, Northwestern University, 1980
 Bachelor of Science in Civil Engineering, University of Colorado, 1978
 PhD Candidate in Structural Engineering, Florida International University, studies ongoing

17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
 Professional Engineer, Florida No. 37557
 Special (Threshold) Engineer: Florida, 1029

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 American Society of Civil Engineers (ASCE); Florida Engineering Society (FES); National Society of Professional Engineers (NSPE); FDOT CTQP Quality Control Manager; Advanced Maintenance of Traffic (MOT)

Mr. Dickinson has 45 years of experience in construction material testing, construction engineering and inspection, engineering management, geotechnical engineering, and threshold building inspections throughout South Florida. He has extensive experience in geotechnical engineering services for roadways, bridges, retaining walls, high-rise structures, earthen dams, and impoundments, airports (both landside and airside), runways, and taxiways. Including subsurface investigations, shallow and deep foundation analyses, slope stability, seepage analyses and pavement design. Mr. Dickinson serves as a Project Manager providing QA and QC services on a variety of projects in both the private and public sectors. He has managed contractors' QC programs and has represented owners, providing QA, verification, and threshold inspection services. Mr. Dickinson has also been responsible for supervising and reporting all the materials testing activities on various projects as per Florida Department of Transportation (FDOT) FDOT Contractor Quality Control (CQC) procedures, attended project meetings, and served as a liaison between contractors and the FDOT regarding testing and inspections. In addition, he has managed FDOT contracts as both a prime and sub-consultant, is a Threshold Special Inspector in Florida, and maintains an active Professional Engineer license in both Florida and Colorado. He is committed to completing projects on time and within budget, with a proven record of flexible scheduling through night/weekend shifts and 24-hour shifts as needed.



19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	C-25 Canal Bank Repair Project R2, St. Lucie County, Florida		2023
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Dickinson served as the Principal Engineer for the Construction Materials Testing for the project which consisted of repairs to the north bank along Canal C-25 which included restoring line and grade which required fill placement and compaction. Sampling and Laboratory testing included in-place-density tests and standard or modified proctors, sample fill material, LBR tests, organic content tests and sieve analysis. ✓ Completed on time ✓ Within budget		
b.	Peterson Road over Canal 29 Bridge, Fort Pierce, Florida		2021
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Dickinson served as the Principal Engineer for Construction Materials Testing Services for the project which consisted of a new bridge with 3 spans with approach slab. Sampling and Laboratory testing included modified proctors, concrete testing, soils testing and sample pick-up. ✓ Completed on time ✓ Within budget		
c.	Treasure Coast International Airport, St. Lucie County, Florida		2022
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Dickinson served as the Principal Engineer for QA/ Construction Materials Testing and Inspection Services for the project which consisted of the rehabilitation of Runway 14-32. Sampling and Laboratory testing included density tests and asphalt plant inspections along with LBR tests, gradation tests, proctor tests and Atterberg limit tests. ✓ Completed on time ✓ Within budget		

	(1) TITLE AND LOCATION <i>(City and State)</i> Harbour Cay Phase 2, Fort Pierce, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2023
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Dickinson served as the Principal Engineer for Construction Materials Testing Services for the project which consisted of the construction of a main building and two storage buildings along with parking lots, sidewalks, and curbs. Sampling and Laboratory testing included in-place-density tests, tested compressive strength concrete cylinders, conducted slump and temperature testing on concrete, molded compressive strength test cylinders and prisms and modified proctor tests along with LBR tests, sieve analysis and organic content tests. ✓ Completed on time ✓ Within budget		
	(1) TITLE AND LOCATION <i>(City and State)</i> North Indian River County Water & Sewer Phase 2, Indian River County, Florida.	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2022
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Dickinson was the Principal Materials Engineer for the Construction Materials Testing services for the water and sewer main replacement project. Mr. Dickinson was available to review reports, handle project coordination and attend meetings as necessary. ✓ Completed on time ✓ Within budget		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jose Oliva		13. ROLE IN THIS CONTRACT Geotechnical Project Coordinator, CADD/GIS/MicroStation		14. YEARS EXPERIENCE	
				a. TOTAL 26	b. WITH CURRENT FIRM 21
15. FIRM NAME AND LOCATION <i>(City and State)</i> TIERRA SOUTH FLORIDA, INC. dba TSFGeo, West Palm Beach, Florida					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS in Geophysical Engineering, 1992 NorthTech Institute, AutoCAD I, II and III, 2001			17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Oliva has 25 years of experience supervising field crew and CADD. As Senior CADD Manager and Field Supervisor, Mr. Oliva has planned and coordinated over 2,500 utilities, transportation, residential and commercial projects. Mr. Oliva is responsible for supervising fieldwork and all CADD/MicroStation activities used to develop and generate plans and profiles. Mr. Oliva's responsibilities include attending project kick-off meetings, boring layouts, or coordination with SUE team member if SUE responsible for layout, safety training, planning mobilization of drilling equipment as well as manpower, and overseeing CADD/MicroStation technicians for geotechnical projects. He also maintains a database of related information in GIS. Mr. Oliva is a licensed Well Water Contractor. He is also MOT certified.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> Design Services for Port St. Lucie Blvd., from Paar Dr. to Darwin Blvd., St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i>	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Oliva was the Supervisor for the field coordination of Geotechnical Engineering Services for the roadway reconstruction project for Port St. Lucie Blvd. from Paar Dr. to Darwin Blvd. The project included widening the existing Port St. Lucie Blvd., reconstruction the existing bridge over East-84 canal, construction of new ponds, closed drainage systems, lighting and landscape and mast arm signalization installations at six intersections. TSFGeo's field study included collecting soil samples and performing pile capacity analyses. Mr. Oliva was responsible for supervising the drill crew, safety procedures and utility clearance coordination. He was also responsible for CADD/Microstation. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> SR-5/US-1 from North of Virginia Ave to North of Ave O, St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i>	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Oliva was the Supervisor for the field coordination for the Geotechnical Engineering Services for SR-5/US-1 from North of Virginia Ave to North of Ave O located in St. Lucie County, Florida. The project consisted of new light pole structures along with milling and resurfacing. TSFGeo's field study included obtaining asphalt pavement cores from the existing roadway within the project limits; measured rut, cross slope, and base layer thickness at the pavement core locations; measured layer thickness of the obtained pavement cores. Mr. Oliva was responsible for supervising the drill crew, boring layout, safety procedures and utility clearance coordination. He was also responsible for CADD/Microstation for the project. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> Healthcare Center at Tradition, Port St. Lucie, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(If applicable)</i>	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Oliva was the Supervisor for the field coordination for the proposed Healthcare Center at Tradition in Port Saint Lucie, Florida. The proposed Healthcare Center will include three-story buildings and a new parking lot/driveway. Field work included Standard Penetration Test (SPT) borings, auger borings, and Borehole permeability (BHP) tests. Mr. Oliva was responsible for supervising the drill crew, boring layout, safety procedures and utility clearance coordination. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> I-95 / State Road 9 Widening, from Indrio Road to the St. Lucie/Indian River County Line, St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Oliva was the Supervisor for the field coordination for the geotechnical engineering study for the reconstruction of the ramps at SR-70 and SR-68 interchanges, the design and construction of additional inside lanes in each direction along I-95, signalization upgrades for the new ramp at Okeechobee Rd. and Orange Ave., upgrading existing highway lighting and resurfacing/widening of SR-70 and SR-68. Mr. Oliva was responsible for supervising the drill crew, safety procedures and utility clearance coordination. He was also responsible for CADD/Microstation for the project. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		

	(1) TITLE AND LOCATION <i>(City and State)</i> SR-9 / I-95 Bridge Deck Replacement over CR-709 and FEC R/R and over Ten Mile Creek, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i>
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Oliva was the Supervisor for the field coordination for the geotechnical engineering services for the project which is to replace the bridge decks for the SR 9/I-95 bridges over CR-709 & FEC R/R and over Ten Mile Creek. Mr. Oliva was responsible for supervising the drill crew, safety procedures and utility clearance coordination. He was also responsible for CADD/Microstation for the project. ✓ Completed on time ✓ Within budget		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen Hey		13. ROLE IN THIS CONTRACT Construction Materials Testing and Inspection Project Manager		14. YEARS EXPERIENCE	
				a. TOTAL 8	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION (City and State) TIERRA SOUTH FLORIDA, INC. dba TSFGeo, West Palm Beach, Florida					
16. EDUCATION (DEGREE AND SPECIALIZATION) BS in Civil Engineering, Florida Atlantic University, May, 2015			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) TIN # H00079590		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) CTQP Pile Driving Inspection Mr. Hey has over 8 years of experience providing construction services. He is responsible for coordinating the field technicians, and for the planning and coordination of a wide variety of projects, including transportation, residential and commercial works. His responsibilities include estimating, administrative control, site management and generation of daily progress reports. Mr. Hey is also an experienced and certified CTQP certified Pile Driving & Drilled Shaft Inspector experienced with FDOT, Port Everglades, Fort Lauderdale-Hollywood International Airport, and several other municipalities. Stephen's experience also includes monitoring and interpreting data for static load testing on augercast piles; monitoring installation of vibro-floatation and Vibro-replacement; and oversees seismic monitoring (Vibration monitoring). Stephen is also the construction services estimator for residential, municipal and FDOT projects for TSFGeo.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) C-25 Canal Bank Repair Project R2, St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) 2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Hey was the Project Coordinator for the Construction Materials Testing Services for the project which consisted of repairs to the north bank along Canal C-25 which included restoring line and grade which required fill placement and compaction. Sampling and Laboratory testing included in-place-density tests and standard or modified proctors, sample fill material, LBR tests, organic content tests and sieve analysis. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) FPL 500 kV Rebuild Project, St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) 2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Hey served as a Certified Technician for the Construction Material Testing Services for the FPL 500 kV Rebuild project which included the installation of 640 drilled shafts. Mr. Hey performed drilled shaft inspections. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination, and attended meetings as necessary. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Treasure Coast International Airport, St. Lucie County, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) 2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Hey was the Project Coordinator for the QA/ Construction Materials Testing and Inspection Services for the project which consisted of the rehabilitation of Runway 14-32. Sampling and Laboratory testing included density tests and asphalt plant inspections along with LBR tests, gradation tests, proctor tests and Atterberg limit tests. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Indian River County Landfill, Vero Beach, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) 2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Hey was the Project Coordinator for the Construction Materials Testing Services for the project which consisted of protective sand testing and laboratory testing. Performed proctor tests, permeability tests, organic content tests, sieve analysis on granular fill material and provided a technician to retrieve and split samples. A TSFGeo Senior Engineer was available to review reports, handle project coordination and attend meetings as necessary. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Peterson Road over Canal 29 Bridge, Fort Pierce, Florida		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable) 2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Mr. Hey was the Project Coordinator for Construction Materials Testing Services for Peterson Road over Canal 29 Bridge project which included a new bridge with 3 spans with approach slab. Sampling and Laboratory Testing included modified proctors, concrete testing, soils testing and sample pick-up. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination and attended meetings as necessary. ✓ Completed on time ✓ Within budget		<input checked="" type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Wilson Gonzalez	13. ROLE IN THIS CONTRACT Director of Operations for Construction Services	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 15

15. FIRM NAME AND LOCATION *(City and State)*
TIERRA SOUTH FLORIDA, INC. dba TSFGeo, West Palm Beach, Florida

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Escuela Colombiana De Ingenieria, B.S., Civil Engineering, 2002	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>
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18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
TIN # G52488174; CTQP Asphalt Plant - Level I, CTQP QC Manager

Mr. Gonzalez has over 20 years of experience providing construction services. He serves as the Director of Operations for Construction Services /QC Manager. He is a certified CTQP QC Manager. He supervises the field technicians, reviews reports for accuracy and daily billing, and communicates effectively with Contractor personnel. Mr. Gonzalez is responsible for the scheduling and logistics of all field personnel and equipment. His daily responsibilities include administrative control, site management and generation of progress reports.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> Eagle Dr. and Kestor Dr. Culvert Replacement, Port St. Lucie, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2018
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gonzalez was the Construction Material Testing project coordinator for culvert replacements on Eagle Dr and Kestor Dr located in Port St. Lucie, Florida. Sampling and Laboratory testing included in-place density tests, modified proctors and LBR tests. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination, and attended meetings as necessary. His responsibilities included the daily management of inspectors and laboratory services. ✓ Completed on time ✓ Within budget		

b.	(1) TITLE AND LOCATION <i>(City and State)</i> FPL 500 kV Rebuild Project, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2020
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gonzalez was the Construction Material Testing project coordinator for the project which included the installation of 640 drilled shafts. The shafts are 6' in diameter and have a depth of 30' to 35'. Sampling and Laboratory Testing included Compressive Strength Concrete Cylinders for Drilled Shaft Foundations. TSFGeo provided a QA/QC Plan; CTQP Senior Engineering Technicians to perform Drilled Shaft Inspections and concrete testing; and a Senior Engineer for project review, meeting attendance, and project coordination. His responsibilities included scheduling inspectors, QC Management duties, and administrative control. ✓ Completed on time ✓ Within budget		

c.	(1) TITLE AND LOCATION <i>(City and State)</i> C-25 Canal Bank Repair Project R2, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2023
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gonzalez was the Construction Material Testing services Manager for the project which consisted of repairs to the north bank along Canal C-25 which included restoring line and grade which required fill placement and compaction. Sampling and Laboratory testing included in-place-density tests and standard or modified proctors, sample fill material, LBR tests, organic content tests and sieve analysis. His responsibilities included scheduling inspectors, QC Management duties, and administrative control. ✓ Completed on time ✓ Within budget		

d.	(1) TITLE AND LOCATION <i>(City and State)</i> King's Highway & Indrio Road, St. Lucie County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2019
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gonzalez was the Construction Material Testing project coordinator for the QC services for the project which included improvements to Kings Highway at the intersection of Indrio Road. Kings Highway was expanded to a four-lane divided highway with designated buffered bicycle lanes and pedestrian facilities. Indrio Road was improved immediately West and East of the intersection with dual thru lanes to accept the traffic turning movements off Kings Highway. The intersections of Indrio Road at the Lakewood Park Elementary School had designated left and right turning movements. For pedestrians, the project included the construction of a 12-foot wide shared use path along the west side of Kings Highway from the intersection south and along Indrio Road from the intersection west past the Lakewood Park Elementary School to Seminole Road. A six-foot wide sidewalk was constructed. His responsibilities included scheduling inspectors, QC Management duties, and administrative control. ✓ Completed on time ✓ Within budget		



	(1) TITLE AND LOCATION <i>(City and State)</i> Port St. Lucie Walmart Traffic Signal, Port St. Lucie, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i> 2016
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Gonzalez was the Construction Material Testing project coordinator for the project which included a new mast arm traffic signal. Sampling and Laboratory testing included Concrete cylinders for compressive strength. TSFGEO technicians conducted slump, air content, and temperature testing on concrete and Molded compressive strength test cylinders. TSFGEO also provided a CTQP certified Drilled shaft Inspector and CTQP certified Concrete Field Inspector. Field logs were provided in FDOT format. A TSFGEO Senior Engineer provided review of daily reports, handled project coordination, and attended meetings as necessary. Mr. Gonzalez's responsibilities included the daily management of inspectors and laboratory services. ✓ <i>Completed on time</i> ✓ <i>Within budget</i>		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1		
21. TITLE AND LOCATION (City and State) Port St. Lucie Blvd. from South of Becker Road to South of Paar Drive, St. Lucie County, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2022</td> <td>CONSTRUCTION (If applicable)</td> </tr> </table>	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)
PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable)			
23. PROJECT OWNER'S INFORMATION				
a. PROJECT OWNER FDOT D4 c/o RJ Behar	b. POINT OF CONTACT NAME Mr. Bob Behar, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (954) 680-7771		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>TSFGeo provided geotechnical engineering services for the project which is to reconstruct Port St. Lucie Blvd. from South of Becker Road to South of Paar Drive from 2-lanes rural section to 4-lanes urban curb and gutter section with shared use path on both sides of the roadway; Reconstruct the existing bridge over East-84 canal; and Install a closed drainage system and new signalized intersection (mast arms) at SW Gig Place. Other improvements include signing and pavement marking, lighting and landscape. The project length is 1.119 miles. The purpose of this study was to provide geotechnical (i.e. soils and ground water) input to the design team to assist in the design and construction of the proposed roadway and bridge improvements.</p> <p>The study was performed to obtain information on the existing subsurface conditions along the project alignment to assist in the design and preparation of construction plans for the proposed construction.</p> <p>Reviewed readily available published geological, topographic and soils information obtained from the from the "Soil Survey of St. Lucie County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS), and USGS Maps.</p> <p>For the roadway, TSFGeo performed a geotechnical exploration along the project corridor which included Standard Penetration Test (SPT) borings. Classified soil samples in the laboratory using the AASHTO Soil Classification System and performed laboratory testing to establish the soil properties and verify the classification. The laboratory testing included grain size analysis, moisture content and organic content tests. Obtained samples for Resilient Modulus testing and provided to the State Materials Laboratory. Provided summary test results for the project. A Roadway Soil Survey report was provided that included Engineering Evaluations and Recommendations regarding Permanent Cut and Fill Slopes; Excavations; Groundwater Control; Pavement Design Considerations; On-Site Soil Suitability; and Vibration and Settlement Monitoring and Pre & Post Construction Survey.</p> <p>For the bridge, TSFGeo collected soil samples and performed laboratory tests to provide soil parameters for scour analysis and performed pile capacity analyses; A Geotechnical Services Report for the Bridge was provided and included Engineering Evaluations and recommendations regarding Pile Selection; Driven Pile Axial Capacity; Downdrag Evaluation; Pile/Pile Group Settlement Evaluation; Scour Resistance; Lateral Stability and Soil Parameters; Concrete Pile Installation; Test Pile Program; Construction Considerations; and Excavations.</p> <p>✓ <i>Completed on time</i> ✓ <i>Within budget</i></p>				

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME a. Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION (City and State) West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2				
21. TITLE AND LOCATION (City and State) SR 9/I-95 Bridge Deck Replacements over CR-709 & FEC R/R and over Ten Mile Creek, St. Lucie County, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td>2016</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2016	
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>					
2016						
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER FDOT D4 c/o Stantec	b. POINT OF CONTACT NAME Mr. Mohit Soni, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 535-5100				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>Provided geotechnical engineering services for the project which is to replace the bridge decks for the SR 9/I-95 bridges over CR-709 & FEC R/R and over Ten Mile Creek in St. Lucie County, Florida. The purpose of the study was to provide geotechnical (i.e. soils and groundwater) input to the design team to assist in evaluation of the merits of the potential crossovers. The study was performed to obtain information on the existing subsurface conditions at the crossover locations to assist in the design and preparation of construction plans for the proposed construction.</p> <p>Field work included auger borings. Reviewed readily available published topographic and soils information obtained from the "Soil Survey of St. Lucie County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS) Maps. Classified soil samples using the AASHTO Soil Classification System and performed laboratory testing to establish the soil properties which included grain size analysis, moisture content and organic determination, Atterberg Limit tests and corrosion tests.</p> <p>Provided geotechnical evaluations and recommendations regarding subsurface conditions, permanent cut and fill slopes, excavations, groundwater control, and on-site soil suitability.</p> <p>✓ <i>Completed on time</i> ✓ <i>Within budget</i></p>						

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGEO	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">3</p>				
21. TITLE AND LOCATION (City and State) Peacock Road Culvert Replacement, St. Lucie County, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION <i>(If applicable)</i></td> </tr> <tr> <td style="text-align: center;">2018</td> <td></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>	2018	
PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>					
2018						
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER St. Lucie County c/o WGI	b. POINT OF CONTACT NAME Mr. Jerome Saval, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (561) 687-2220				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i> <p>TSFGeo provided Geotechnical Engineering Services for the Peacock Road Culvert Replacement. The project consisted of replacing the existing dual 72" Corrugated Metal Pipe (CMP) culverts with either a similar pipe section to the existing design or a single metal arch pipe. The drainage path crosses a single-lane unimproved roadway. The project is located on Peacock Road, approximately 2.1 miles south of SR 70 in St. Lucie County, Florida.</p> <p>The purpose of this study was to provide Geotechnical (i.e. soils and groundwater) input to the design team to assist in evaluation of the potential culvert replacement.</p> <p>TSFGeo's geotechnical field study included SPT borings; measured groundwater levels at the time of drilling; visually classified and stratified the samples in the laboratory using the ASTM USCS and conducted environmental corrosion test.</p> <p>Provided a geotechnical engineering report including geotechnical engineering evaluations and recommendations regarding the culvert replacement.</p> <p>✓ Completed on time ✓ Within budget</p>						

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 4
21. TITLE AND LOCATION (City and State) Replacement of Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail, St. Lucie County, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2022 CONSTRUCTION (If applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT D4 c/o Kisinger Campo & Assoc.	b. POINT OF CONTACT NAME Ms. Deborah Hernández-Cedeño, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER (813) 538.1855
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>TSFGeo provided Geotechnical Engineering Services for the bridge replacement of Old Dixie Highway Bridge located in St. Lucie County, Florida. The project consisted of the replacement of the existing Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail with a new 5 span bridge with a span length of approximately 47 feet along with milling and resurfacing. The purpose of the geotechnical study was to provide geotechnical input to the design team for design and preparation of construction plans.</p> <p>TSFGeo's field services included SPT borings and performed pile capacity analyses.</p> <p>Provided a geotechnical engineering report which included evaluations and recommendations regarding driven concrete pile axial capacity, FB-Multiplier soil parameters, pile installation, load test program and monitor existing structures.</p> <p>✓ <i>Completed on time</i> ✓ <i>Within budget</i></p>		

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION (City and State) West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 5				
21. TITLE AND LOCATION (City and State) Kings Highway and Indrio Road, St. Lucie County, Florida		22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td>2019</td> <td>2019</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2019	2019
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2019	2019					
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER FDOT c/o Dickerson	b. POINT OF CONTACT NAME Ms. Cindy Cheatham	c. POINT OF CONTACT TELEPHONE NUMBER (772) 429-4446				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>TSFGeo provided QC Inspection Services for the intersection improvement project at King's Highway & Indrio Road located in St. Lucie County, Florida. Kings Highway was expanded to a four-lane divided highway with designated buffered bicycle lanes and pedestrian facilities. Indrio Road was improved immediately West and East of the intersection with dual thru lanes to accept the traffic turning movements off Kings Highway. The intersections of Indrio Road at the Lakewood Park Elementary School had designated left and right turning movements. For pedestrians, the project included the construction of a 12-foot wide shared use path along the west side of Kings Highway from the intersection south and along Indrio Road from the intersection west past the Lakewood Park Elementary School to Seminole Road. A six-foot wide sidewalk was constructed.</p> <p>TSFGeo services included laboratory testing, soils, and concrete sampling/testing, and reporting. Sampling and Laboratory Testing included modified proctor values and LBR tests on subgrade and base materials; tested compressive strength concrete cylinders.</p> <p>TSFGeo technicians performed in-place density testing on slabs, subgrade, and base materials; conducted slump, and temperature testing on concrete; and molded compressive strength tests cylinders. TSFGeo provided a CTQP Senior Engineering Technician to perform drilled shaft inspections. A Principal Engineer was readily available for review of daily reports, handle project coordination and attend meetings as necessary. TSFGeo also provided MAC Data Entry, a QC Manager, a QC Plan and upkept an on-site Density Log Book.</p> <p>✓ <i>Completed on time</i> ✓ <i>Within budget</i></p>						

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION (City and State) West Palm Beach, Florida	(3) ROLE Construction Material Testing / QC Inspection Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 6
21. TITLE AND LOCATION <i>(City and State)</i> SR A1A North Bridge over ICWW, St. Lucie County, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT D4 c/o Hardesty & Hanover	b. POINT OF CONTACT NAME Mr. Mike Sileno, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER 954.368.6402
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>TSGGeo provided geotechnical engineering services for the design phase of the project which consists of replacing the existing SR A1A North Bridge over the ICWW in St. Lucie County and the widening and reconstruction of US-1 and Old Dixie Highway. The purpose of the study was to provide Geotechnical (i.e. soils and groundwater) input to the design team to assist in evaluation of the merits of the potential roadway improvements. The study was performed to obtain information on the existing subsurface conditions at the project site to assist in the design and preparation of construction plans for the improvements.</p> <p>Geotechnical field study included auger borings. Reviewed readily available published topographic and soils information obtained from the "Soil Survey of St. Lucie County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS), and USGS Maps. Classified soil samples using the AASHTO Soil Classification System; Performed laboratory testing to establish the soil properties which included grain size analysis, and moisture content and organic determination tests; Incorporated the geotechnical data obtained in PD&E Study for this project into this report, which included 6 field exfiltration tests and obtained Resilient Modulus soil samples for delivery to FDOT State Materials Office (SMO) for testing.</p> <p>Provided geotechnical evaluations and recommendations regarding subsurface conditions encountered, Recommendations on Plastic and Organic Soils; Permanent Cut and Fill Slopes; Excavations; Groundwater Control; Resilient Modulus Test Results for Pavement Design; Pavement Design Considerations; On-Site Soil Suitability; and Construction Considerations.</p> <p>Additionally, TSGGeo performed a preliminary geotechnical evaluation for MSE Walls under consideration at the proposed bridge approaches. The anticipated permanent MSE wall height (from the top of leveling pad) will be about 38 feet. A temporary MSE wall, which will be left in place (i.e. buried under a permanent wall), will be required at the east end of the bridge for phase construction. The anticipated height of this wall will be about 36 feet above existing grade. The purpose of the preliminary evaluation was to provide preliminary geotechnical input to support preliminary wall design and preparation plans for Initial Engineering Submittal.</p> <p>Scope of services included review of existing geotechnical data from the preliminary bridge borings performed during the PD&E Study. Reviewed readily available published topographic and soils information obtained from the "Soil Survey of St. Lucie County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Services (NRCS), and USGS Maps. Performed preliminary external stability analysis for MSE walls to check whether wall geometry/spacing will be adequate to accommodate the MSE wall soil reinforcement lengths. Prepared geotechnical report which summarizes the preliminary geotechnical evaluations for the proposed walls.</p> <p>✓ Completed on time ✓ Within budget</p>		

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSGGeo	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 7
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21. TITLE AND LOCATION <i>(City and State)</i> C-25 Canal Bank Repair Project, St. Lucie County, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2023	CONSTRUCTION <i>(If applicable)</i> 2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER SFWMD c/o Ardurra	b. POINT OF CONTACT NAME Ms. Ann Springston Shires	c. POINT OF CONTACT TELEPHONE NUMBER (225) 303-4019
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TSFGeo provided Construction Material Testing services for the project which consisted of repairing the north bank along Canal C-25 from S99 to west of Kings Highway in St. Lucie County. Repairs consisted of restoring line and grade, which required fill placement and compaction. Some of the berms were 20 ft. tall. Additional work included construction of HDPE culverts and placement of rip-rap. The project extended for a length of 4.32 miles.

Sampling and Laboratory Testing included sampling fill material and returning to TSFGeo's laboratory for testing. Performed Standard or Modified Proctor (ASTM D-698 or D-1557) tests on the samples to determine maximum dry density and optimum moisture content of the material. TSFGeo technicians performed In-Place-Density (ASTM D-1556) testing on embankment and pipeline fill as required. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination, and attended meetings as necessary.

✓ *Completed on time* ✓ *Within budget*

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Construction Material Testing Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION <i>(City and State)</i> Towns Utility On-Call Contract Town of Jupiter, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES On-going CONSTRUCTION <i>(If applicable)</i> On-Going
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Town of Jupiter	b. POINT OF CONTACT NAME Ms. Amanda Barnes, P.E., Assistant Director of Utilities	c. POINT OF CONTACT TELEPHONE NUMBER (561) 747-5634
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(Include scope, size, and cost)</i>		
<p>TSFGeo has been providing geotechnical engineering, material testing and inspection services on an as-needed basis for the Town since 2012 to assist the Town's Utilities and Engineering & Public Works Dept. with its implementation of their capital programs and operating and maintenance projects.</p> <p>As part of TSFGeo's Professional Geotechnical Engineering and Materials Testing Services continuing contract, TSFGeo is currently providing on-call emergency testing services for the Town. These services are provided within 2-3 hours of the emergency call. These services include but are not limited to:</p> <ul style="list-style-type: none"> ✓ Utility Backfill and roadway crossings requiring immediate repair ✓ Providing inspectors for concrete, soils, and laboratory testing services ✓ Emergency repair work ✓ Inspectors provided within 2-3 hours of call ✓ Results provided immediately in the field and emailed within 24-hours 		
		

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Geotechnical Engineering and Material Testing Services
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 9
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21. TITLE AND LOCATION <i>(City and State)</i> Shoppes at the Heart of Tradition Port St. Lucie, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If applicable)</i> 2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER PEBB Enterprises	b. POINT OF CONTACT NAME Mr. Jason Sher	c. POINT OF CONTACT TELEPHONE NUMBER (561) 716-6476
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

TSFGeo performed a Geotechnical Engineering Study for The Shoppes at the Heart of Tradition in Port St. Lucie, Florida. The project site was located on the SW corner of SW Discovery Way and SW Village Parkway and was vacant and void of vegetation. The construction included single story structures, which consisted of grocery, retail shoppes, restaurants, bank, and office buildings. The purpose of this study was to explore the subsurface conditions at the site to enable an evaluation of an acceptable foundation for the proposed construction.

TSFGeo's field investigation for the structures consisted of Standard Penetration Test (SPT) borings. Representative soil samples collected from the borings were classified and stratified in general accordance with the Unified Soil Classification System. The laboratory tests performed included natural moisture content and grain size analysis.

Provided a geotechnical engineering report that briefly outlined the testing procedures, a summary of available project information, a description of the site and subsurface conditions, and geotechnical recommendations regarding foundation soil preparation requirements, foundations, pavement design, and comments regarding factors that may impact construction and performance of the construction.

✓ Completed on time ✓ Within budget

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) Resurfacing SR 5/ US-1 from S. of Port Saint Lucie Boulevard to NE Rio Mar Drive, Saint Lucie County, Florida		22. YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable)
23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER FDOT D4 c/o Volkert	b. POINT OF CONTACT NAME Mr. Tyler Wallum, PE, Project Manager	c. POINT OF CONTACT TELEPHONE NUMBER (321) 274-4762
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) <p>TSFGeo performed a Geotechnical Engineering Study for the Resurfacing of SR5 / US-1 from South of Port Saint Lucie Boulevard to Northeast Riomar Drive located in Saint Lucie County. The project consists of installation of traffic signal mast arms at Tiffany Avenue, Spanish Lakes Road, and Prime Vista Boulevard intersections (one mast arm at each intersection) and an extension of an existing double box culvert approximately at Station 85+00 (extension on right/ East side). The purpose of this study was to provide geotechnical input to the design team to assist in the foundation design. The study was performed to explore the subsurface conditions at the structure locations and provide geotechnical recommendations to guide the design.</p> <p>TSFGeo's geotechnical engineering services included SPT borings and Visually classified and stratified the samples in the laboratory using the Unified Soil Classification System (USCS). Laboratory testing was conducted.</p> <p>Provided a geotechnical engineering report including geotechnical recommendations regarding traffic signal mast arms, box culverts, construction considerations and monitoring existing structures.</p> <p>✓ Completed on time ✓ Within budget</p>		

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Tierra South Florida, Inc. dba TSFGeo	(2) FIRM LOCATION (City and State) West Palm Beach, Florida	(3) ROLE Geotechnical Engineering Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)										
		1	2	3	4	5	6	7	8	9	10	
Raj Krishnasamy, P.E.	Contract/Project Manager / QA/QC	X	X	X	X	X	X	X	X	X	X	X
Morgan Dickinson, P.E., S.I.	Principal Engineer / Threshold Inspector							X	X			
Kumar Vedula, P.E.	Principal Geotechnical Engineer	X	X	X	X		X		X	X	X	
Harmon Bennett, P.E.	Principal Geotechnical Engineer	X		X	X				X	X		
N. Manoharan, Ph.D.	Senior Specialist	X	X		X		X					X
Jose Oliva	Field Supervisor (Geo), CADD / GIS / Microstation	X	X	X	X		X		X	X	X	
Wilson Gonzalez	Director of Operations for Construction Services					X		X	X			
Stephen Hey	Construction Materials Testing and Inspection Project Manager					X		X	X			

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Port St. Lucie Blvd. from Paar Dr. to Darwin Blvd., St. Lucie County, Florida	6	SR A1A North Bridge over ICWW, St. Lucie County, Florida
2	SR 9/I-95 Bridge Deck Replacements over CR-709 & FEC R/R and over Ten Mile Creek, St. Lucie County, Florida	7	C-25 Canal Bank Repair Project, St. Lucie County, Florida
3	Peacock Road Culvert Replacement, St. Lucie County, Florida	8	Towns Utility On-Call Contract Town of Jupiter, Florida
4	Replacement of Old Dixie Highway Bridge over Taylor Creek and the East Coast Greenway Trail, St. Lucie County, Florida	9	Shoppes at the Heart of Tradition Port St. Lucie, FL
5	Kings Highway and Indrio Road, St. Lucie County, Florida	10	Resurfacing SR 5/ US-1 from S. of Port Saint Lucie Boulevard to NE Rio Mar Drive, Saint Lucie County, Florida

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Company Profile

Tierra South Florida, Inc. d/b/a TSFGEO is a full-service consulting geotechnical engineering, construction materials testing and inspections firm with capabilities to provide test borings, engineering analyses and reports, AutoCAD and Microstation plan sheets, laboratory soils testing, and construction materials testing. TSFGEO's services also include threshold/special inspections and roofing inspection services.

The geotechnical and materials engineering services provide clients with a comprehensive range of siting, planning, design, construction, and quality control disciplines required for major construction projects.

Mr. Raj Krishnasamy, P.E. qualifies as a minority by Federal Guidelines. Mr. Krishnasamy is a licensed Engineer with more than 36 years of experience in geotechnical, material engineering and inspection services. TSFGEO is a certified **Disadvantaged Business Enterprise (DBE)** with the *Florida Department of Transportation (FDOT)* and a certified **Small Business Enterprise (SBE)** with the *SFWMD and Pinellas County*. Our main office is in West Palm Beach, Florida with branch offices in Miami Lakes, Tampa and Orlando, Florida.

Geotechnical Engineering

TSFGEO provides a complete range of geotechnical engineering services. These services include site assessments, planning, field and laboratory investigations, design specifications and recommendations, quality control, instrumentation, and performance studies. TSFGEO will evaluate and then develop recommendations regarding both existing structures and new construction. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. TSFGEO's primary market is minority businesses set aside by City, County, State and Federal agencies.

Construction Materials Engineering and Testing

TSFGEO offers materials engineering, testing and inspection services applicable to the governmental, construction and manufacturing industries. During construction, monitoring and quality control services will cover every phase of construction and all materials used. TSFGEO's field and laboratory technicians hold industry-recognized certifications (ACI/CTQP/PCI/FPCA) for aggregates, asphalt, concrete, and earthwork testing as well as the drilled shaft, augercast pile, and pile driving monitoring.

Laboratory Facilities

TSFGEO owns and operates three fully equipped in-house soil, concrete, aggregate, and asphalt testing laboratories certified by Construction Materials Engineering Council (CMEC). TSFGEO labs follow the American Society for Testing and Materials (ASTM) and American Association of State Highway and Transportation Officials (AASHTO) standards, and our West Palm Beach laboratory is also validated by FDOT and the United States Army Corp of Engineers (USACE). These laboratories provide specialized testing services associated with geotechnical engineering, and construction materials to better meet the needs of their clients. TSFGEO's laboratory facilities are designed and operated to provide fast, reliable information to ensure the meeting of clients' needs. The trained and certified laboratory staff will routinely perform physical properties testing of soil, rock, concrete, steel, asphalt, and composite building materials. These testing services are performed in support of all project phases, including site investigations and assessments, design, and construction.

Corporate and Project Management Philosophy

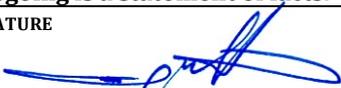
The TSFGEO organization is committed to minimizing corporate administrative control which allows both branch management and specific technical teams to take correct and timely actions to meet the objectives of their clients. Employees stress quality, and responsive services in which they will take a great deal of pride. Client satisfaction with the quality of TSFGEO's work, past and future, will result in a large percentage of work being performed for repeat clients.

Interaction with Regulatory Agencies

TSFGEO has an excellent working relationship with FDOT as well as SFWMD. When working within the right of way of these agencies, TSFGEO will submit an application for the request of a work permit and obtain the proper authorization prior to proceeding with work. TSFGEO will then follow up with a meeting to explain the scope in detail and notify the agency at completion.

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

September 28, 2023

33. NAME AND TITLE

Raj Krishnasamy, P.E., President/Principal Engineer

Company Licenses

**State of Florida
Department of State**

I certify from the records of this office that TIERRA SOUTH FLORIDA, INC. is a corporation organized under the laws of the State of Florida, filed on October 7, 2003, effective October 17, 2003.

The document number of this corporation is P03000110144.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on January 4, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Fourth day of January, 2023*



[Signature]
Secretary of State

Tracking Number: 0811460418CC
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

State of Florida

Department of State

I certify from the records of this office that TSFGEO is a Fictitious Name registered with the Department of State on November 12, 2020.

The Registration Number of this Fictitious Name is G20000145386.

I further certify that said Fictitious Name Registration is active.

I further certify that this office began filing Fictitious Name Registrations on January 1, 1991, pursuant to Section 865.09, Florida Statutes.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this the
Thirteenth day of November, 2020*



[Signature]
Laurel M. Lee
Secretary of State

CR2022 (01-11)

State of Florida



Board of Professional Engineers

Attests that
Tierra South Florida, Inc.

Has satisfied the requirements of Section 471.023, Florida Statutes. In recognition thereof, the Board of Professional Engineers hereby authorizes this firm to offer engineering services in the State of Florida in accordance with Chapter 471, Florida Statutes, and the rules of the Board.



CERTIFICATE OF
AUTHORIZATION NO. **28073**
FEMC-CA -022809-108-I

*Witness the Seal of the Board and the Signature
of the Board's duly authorized Chair*

this 13 day of APR, 2023
[Signature]
CHAIR

Lab Certifications

Tierra South Florida, Inc.

2765 Vista Parkway, H10
West Palm Beach, FL 33411
United States

AGGREGATE
ASTM Methods: C1077, C117, C127, C128, C131, C136, C566, C702, E329
AASHTO Methods: R76, T11, T255, T27, T84, T85, T96

CONCRETE
ASTM Methods: C1064, C1077, C1231, C138, C143, C1611, C1621, C172, C173, C1758, C231, C31, C39, C42, C496, C511, C78, E329
AASHTO Methods: M201, R100, R60, T119, T121, T152, T196, T198, T22, T24, T309, T345, T347, T97

FIRE PROOFING
ASTM Methods: E605, E736

HOT MIX ASPHALT
ASTM Methods: D2041, D2726, D3666, D5444, D6307, D6926, D6927
AASHTO Methods: R68, T166, T209, T245, T30, T308

MASONRY
ASTM Methods: C1019, C1093, C511, C780 - Annex A6
AASHTO Methods: R64

SOIL
ASTM Methods: D1140, D1556, D1557, D1883, D2216, D2487, D2488, D3740, D421, D4318, D4944, D6938, D698, D7028
AASHTO Methods: R58, T180, T191, T193, T217, T265, T267, T310, T88, T89, T90, T99
State Methods: FM 1 T099, FM 1 T180, FM 5 514, FM 5 515, FM 5 550, FM 5 551, FM 5 552, FM 5 553
Other Methods: TSF-BB

AASHTO R18 Accredited

David A. Savage
David A. Savage
Director of Accreditation

Christopher J. Robinson
Christopher J. Robinson, P.E.
President

This is to certify that this laboratory has been accredited for technical competence and found to meet the requirements for performing the test methods listed above for the inspection and testing of construction materials. The current scope of accreditation can be obtained by viewing the CMEC Directory of Accredited Laboratories (www.cmec.org)

Accreditation Date: 4/27/2023 Reinspection Date: 3/5/2024 Expiration Date: 6/3/2024 Accreditation ID: 1007138

**USACE CERTIFICATE
OF
LABORATORY VALIDATION**

Tierra South Florida, Inc.
2765 Vista Parkway, Suite 10
West Palm Beach, FL, United States
Morgan Dickinson
(561) 687-8536

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:
05 JAN 2023 AT 13:00 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 12/14/2024

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erd.cren.mil>

Chad A. Girtrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

- Concrete - C 39 - Compressive Strength of Cylindrical Specimens
- Concrete - C 42 - Drilled Cores and Sawed Beams
- Concrete - C 78 - Flexural Strength by Third Point Loading
- Concrete - C 143 - Slump
- Concrete - C 172 - Sampling
- Concrete - C 173 - Air Content by Volumetric ***required if C231 not performed***
- Concrete - C 470 - Molds for Forming Concrete Test Cylinders Vertically
- Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
- Concrete - C 1040 - Density of Concrete by Nuclear Method
- Concrete - C 1064 - Temperature of Concrete
- Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
- Concrete - C 1231 - Unbonded Caps

AGGREGATE

Aggregate - C 29 - Unit Weight and Voids in Aggregate
Aggregate - C 40 - Organic Impurities
Aggregate - D 75 - Sampling
Aggregate - C 117 - Material Finer than 75 µm (No. 200) Sieve
Aggregate - C 127 - Specific Gravity & Absorption in Coarse Aggregate
Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 136 - Sieve Analysis of Aggregates
Aggregate - C 566 - Total Moisture Content
Aggregate - C 702 - Reducing Samples to Testing Size
Aggregate - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)

SOILS

- Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
- Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
- Soils - D 698 - Compaction Characteristics by Standard Effort
- Soils - D 684 - Specific Gravity of Soils
- Soils - D 1140 - Material Finer than 75 µm (No. 200) Sieve
- Soils - D 1556 - Density & Unit Weight by Sand Cone
- Soils - D 1557 - Compaction Characteristics by Modified Effort
- Soils - D 1885 - CA Bearing Ratio (CBR)
- Soils - D 2166 - Unconfined Compressive Strength
- Soils - D 2168 - Calibration of Laboratory Mechanical-Rammer Soil Compactors
- Soils - D 2216 - Water Content
- Soils - D 2487 - Classification of Soils
- Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
- Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
- Soils - D 3740 - Soil and Rock Testing Standards (Quality Standard)
- Soils - D 4220 - Preserving & Transporting Samples
- Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
- Soils - D 4643 - Determination of Water Content of Soil by Microwave Oven
- Soils - D 4944 - Field Moisture Content of Soil by Calcium Carbide Gas Pressure Tester
- Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method
- Soils - D 7928 - Fine Grain Distribution with Hydrometer

BITUMINOUS

Bituminous - D 2041 - Theoretical Maximum Specific Gravity & Density (Rice)
Bituminous - D 2726 - Bulk Specific Gravity and Density
Bituminous - D 2950 - Density of Bituminous Concrete in Place by Nuclear Methods
Bituminous - D 3203 - Percent Air Voids
Bituminous - D 3665 - Random Sampling of Construction Materials
Bituminous - D 3666 - Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
Bituminous - D 5444 - Mechanical Size Analysis of Extracted Aggregate
Bituminous - D 6307 - Asphalt Content of Hot-Mix Asphalt by Ignition Method
Bituminous - D 6926 - Preparation of Bituminous Specimens using Marshall
Bituminous - D 6927 - Marshall Stability and Flow of Bituminous Mixtures

CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field

ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

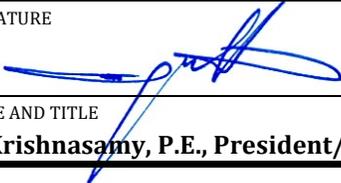
20230089

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Tierra South Florida, Inc. d/b/a TSFGeo				3. YEAR ESTABLISHED 2003		4. UNIQUE ENTITY IDENTIFIER YXJCLPM6WJ84	
2b. STREET 2765 Vista Parkway, Suite 10				5. OWNERSHIP a. TYPE Corporation			
2c. CITY West Palm Beach		2d. STATE FL	2e. ZIP CODE 33411				
6a. POINT OF CONTACT NAME AND TITLE Raj Krishnasamy, P.E., President/Principal Engineer				7. NAME OF FIRM (If block 2a is a branch office) N/A			
6b. TELEPHONE NUMBER (561) 687-8536		6c. E-MAIL ADDRESS Raj@TSFGeo.com		8a. FORMER FIRM NAME(S) (If any) N/A		8b. YR. ESTABLISHED N/A	8c. UNIQUE ENTITY IDENTIFIER N/A
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRANCH				
2	Administrative	6	6	S05	Soils and Geologic Studies; Foundations	6	
8	CADD Technician	2	2	T02	Testing and Inspection Services	6	
27	Foundation/Geotechnical Eng	7	7				
58	Technician/Analyst	27	27				
15	Construction Inspector	5	5				
16	Construction Manager	2	2				
Total		49	49				
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
a. Federal Work		6		1. Less than \$100,000.		6. \$2 million to less than \$5 million	
b. Non-Federal Work		6		2. \$100,000 to less than \$250,000		7. \$5 million to less than \$10 million	
c. Total Work		7		3. \$250,000 to less than \$500,000		8. \$10 million to less than \$25 million	
				4. \$500,000 to less than \$1 million		9. \$25 million to less than \$50 million	
				5. \$1 million to less than \$2 million		10. \$50 million or greater	

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE September 28, 2023
c. NAME AND TITLE Raj Krishnasamy, P.E., President/Principal Engineer	

TAB 2. METHODOLOGY/APPROACH

Throughout our experience with other continuing contracts, we have successfully utilized a project approach which we propose for this contract. Each project will have different milestones and deliverables. However, these items will be discussed, and timetables set at the initial scope meeting. Our representatives will meet those due dates and deadlines. Our proposed project approaches for geotechnical engineering and construction materials testing services are listed below:

Geotechnical Project Approach

- ✓ Task Order
- ✓ Review Site Plan with County / USGS Map / USC Soil Survey / Aerial Photos
Identify possible unsuitable soils, illegal dumping, and other potential areas of concern/interest.
- ✓ Site Visit / Reconnaissance
Determine site accessibility, if site clearing is necessary, presence of overhead power lines for vertical clearance, and MOT needs
- ✓ Submit Proposal Based on Scope of Services
- ✓ Upon approval
*Inform Project Manager – Work Schedule
Utility Clearance / Meet Maintenance / GPR*
- ✓ Inform Project Manager
Work Schedule
- ✓ Issue preliminary findings
- ✓ Prepare report - includes Soil Management Plan
Review by Senior Author QA/QC
- ✓ Issue Final Report with Invoice



Construction Material Testing Project Approach

TSFGEO works with contractors daily to complete as-needed services. Our approach centers on our philosophy to protect your interests, and it ensures that all work performed flows smoothly throughout the duration of the project. We believe that maintaining clear communication provides efficient and responsive service, which then leads to projects consistently being completed on time and within budget.

At the beginning of each testing project, TSFGEO schedules a preconstruction meeting with the contractor to introduce our personnel assigned to the project. TSFGEO also addresses the scope of work, scheduling, cost saving strategies, and our standard 24-hour response times. For each task order, Contractors call our office to schedule work to be performed. We ask for 24 hours' notice; however, TSFGEO makes every effort to accommodate last minute requests as well. All work is performed as discussed in the preconstruction meeting.

TSFGEO has utilized this approach in our interactions with Contractors over the past ten years. Our approach has resulted in projects being consistently completed on time and within budget. It has also created excellent working relationships with many local contractors. Below please find our Construction Materials Testing Project Approach:

- ✓ Request for services with issue of Purchase Order
- ✓ Pre-Construction Meeting
Review scope, schedule, and report distribution
- ✓ Testing requested by Owner / Contractor
- ✓ Work Order issued to Field Technician
*Arrive on site, sign in (if required)
Perform task, sign out (if required)*

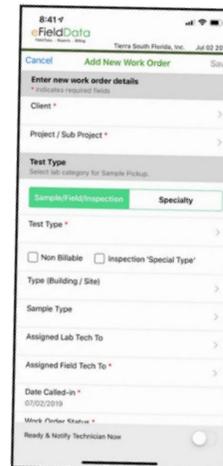
- ✓ Prepare report and review QA/QC
Smartphone reporting system (E-Field Data)
Immediate results notification
- ✓ Invoice monthly, backup reports provided *(if required)*

This system has proven successful as it ensures promptness, satisfaction and steady communication between the client and our staff. At each step of the way our staff keeps in mind the client's complete satisfaction, cost savings to the client, and timeliness.

E-FIELD DATA

TSFGeo utilizes a smartphone reporting system called E-Field Data. With this system, TSFGeo's field technicians create an electronic draft report on site which is immediately transmitted to TSFGeo's Project Manager as well as Owner representatives for same day reporting. All draft reports will then be checked by the TSFGeo Project Manager and QA/QC officer. Following QA/QC, the reports for the specific project are billed daily and mailed or emailed weekly to all specified parties. Some benefits of E-Field Data include:

- ✓ Same day reporting
- ✓ Immediate results from the field
- ✓ Faster failed results notification
- ✓ Improved efficiency
- ✓ Reduced errors
- ✓ Incorporates our commitment to sustainability



FAST TRACK/EXPEDITED PROJECTS

TSFGeo's standard response time for most common testing activities is 24 hours with notice via email, fax or phone call. These testing activities include but are not limited to: Proctor tests, field density tests (soil and asphalt), LBR tests, soil conductivity/resistivity tests, organic content tests, concrete cylinders, grout prisms/mortar cubes, concrete coring, and asphalt coring. Specific tasks may require additional preparation time prior to mobilizing to the site. If needed, TSFGeo can respond to last minute/same day requests within 4 hours of contacting our office. ***We have technicians on job sites throughout South Florida who can respond to same day testing needs.***

Please note that should a Contractor forget to schedule testing, TSFGeo provides the following solutions to minimize the impact on the project schedule:

- Concrete: TSFGeo performs concrete cores or non-destructive testing, such as Windsor probe testing.
- Density: TSFGeo tests by (1) potholing or (2) excavating and retesting.

WILLINGNESS TO MEET TIME AND BUDGET

TSFGeo is fully capable and committed to meeting all the City's time and budget requirements. We pride ourselves on having a local, available, and responsive team. Our staff has a long history of successfully handling task order based contracts. We have the resources necessary to ensure that key personnel are readily available to devote a significant portion of their time fulfilling the County's contract. Based on this experience, ***TSFGeo fully anticipates satisfying The City's time and budget requirements.*** TSFGeo will be providing all services in-house and does not anticipate needing to utilize subconsultants.

INTERNAL QUALITY ASSURANCE AND QUALITY CONTROL MECHANISMS

TSFGeo maintains a strict quality assurance and quality control system to ensure employee performance, accurate recommendations/testing results and consistency. TSFGeo applies this system throughout all our activities. Specifically related to this contract are the following areas:

- Extensive training and signatory qualifications for Professional Staff
- Adherence to a detailed QC Manual for both laboratory and geotechnical work
- Yearly proficiency testing, inspection, and review by FDOT and CMEC

COMMITMENT TO BUDGET AND COST-EFFECTIVE SOLUTIONS

TSFGeo is committed to approaching each project from a cost savings perspective without sacrificing quality or sound design. Below please find a listing of projects where TSFGeo utilized innovative and cost saving approaches in the past:

3R Improvement Project for SR. A1A from North Sheridan Street to SR5/US1, Broward County, Florida: This project was for a length of two miles and located near the Intracoastal Waterway in the urban area. Due to the presence of organic soils to a depth of about twelve feet below grade, the existing pavement was severely stressed. Removal of the unsuitable organic soil and replacement with suitable fill material to improve the roadway would have involved construction of temporary sheetpile cofferdam, dewatering in excavation and disposal of temporary organic soils. TSFGeo performed a geotechnical investigation and evaluation for the roadway construction. As an alternative, we proposed an innovative approach, instead of removal and replacement, stabilization of organic soil with geofabric was proposed. **The estimated cost saving was about \$4 million. The construction time was reduced by six months** and noise/vibration issues associated with the sheetpile installation were also reduced.

Palm Beach County Operations Center, West Palm Beach, Florida: Due to a loose soil condition, a pile foundation system was initially proposed by an engineering firm to support the new six-story Palm Beach County Operations Center. During the peer review performed by our professional staff, we proposed to support the building on shallow foundation with deep soil compaction using vibro-probes. This approach eliminated the need to install approximately 500 augercast piles, resulting in a **savings of about \$2 million and a signification reduction in construction time**. It also abolished the need to import associated construction materials (steel and cement).

Improvement of SW 14th Street between SW MLK Boulevard and SW Ave. G, Belle Glade, Florida: This roadway and drainage improvement project was for a length of approximately one mile in Belle Glade, Florida. Organic soils were encountered to a depth of 8 to 10 feet below grade. As an alternative to removal and replacement of the existing organic soils, we proposed to stabilize the roadway with geofabric reinforcement. **Estimated cost savings with this alternative was estimated to be about \$1.5 million.**

Additionally, TSFGeo performs a site reconnaissance and reviews existing foundation/soils data at the beginning of each job to minimize unforeseen circumstances/issues which may impact the design and overall project budget.

Below please find an example of one of these circumstances:



Design-Build Rehabilitation of West Bridge and Bear Cut Bridge on Rickenbacker Causeway, Miami-Dade County, FL

Unknown Bridge Foundation: When an existing bridge has an unknown foundation (including type, length, and pile capacity of existing piles), upfront evaluation and exploration is often necessary. This information provides the design team with critical information. For instance, for a bridge replacement, this information determines how close the new bridge can be built without encountering any problems or effecting the existing bridge (which is especially necessary when the existing bridge is continuing to be used during construction). TSF's past Unknown Foundation Study experience includes: Design-Build Rehabilitation of West Bridge and Bear Cut Bridge on Rickenbacker Causeway, Miami-Dade County, FL; SR-80/Southern Boulevard Bascule Bridge, Palm Beach County, FL; Andrews Avenue over C-13 Canal Bridge, NE 23 Avenue over Rio Giraldo Canal, NE 26th Terrace over Rio De Sota, Laguna Terrace over Diane River, West Lake Drive over Estelle River, West Lake Drive over Diane River, West Lake Drive over Lucille River, Johnson Street over C-10 Canal, and Kings Highway over Belcher Canal, Broward County, FL.

EQUIPMENT

IN-HOUSE DRILLING CAPABILITIES

TSFGeo's in-house drilling capability features numerous in-house drill rigs. Our drill rigs were selected based on size and access capability. They allow us to provide a wide range of drilling capabilities for our clients.

Our Simco 2400 SK-1 multipurpose rig was selected for its ability to perform shallow SPT/auger borings and pavement coring for all geotechnical projects. The Simco 2400 has the capability of performing SPT/auger borings to depths up to 30 feet.

The Diedrich D-50, 2 CME 45C, CME 55 and Mobile B-57 Truck Mounted drill rigs are the industry standard for engineering and drilling firms. These drill rigs can perform all geotechnical projects using a variety of drilling methods and tools. The rigs are mounted on a Ford F-700, F-650 and International four-wheel drive truck, which can navigate the most demanding type of project sites. The CME 55 is mounted on an International four-wheel drive truck.



The CME 550 Mudbug and Diedrich D-25 Track rigs can perform Standard Test Borings (SPT) for depths up to 150 feet. This rig allows access on projects where site conditions consist of soft or wet surface conditions. This rig can also be utilized in areas with up to 18 inches of standing water.

The CME 550 Mudbug and Diedrich D-25 Track rigs can perform Standard Test Borings (SPT) for depths up to 150 feet. This rig allows access on projects where site conditions consist of soft or wet surface conditions. This rig can also be utilized in areas with up to 18 inches of standing water.



Additionally, we have tri-pod mounted and trailer mounted drilling equipment to be utilized in difficult access areas with limited clearance.

TSFGeo also has a pontoon boat for shallow water sampling and a barge for waterway/large bodies of water.

IN-HOUSE LABORATORY

Our laboratories follow American Society for Testing and Materials (ASTM) and American Association of Highway and Transportation (AASHTO) standards, is certified by Construction Material Engineering Council, Inc. (CMEC), as well as validated by the Florida Department of Transportation (FDOT) and the United States Army Corp of Engineers (USACE). TSFGeo's trained and certified laboratory staff routinely performs physical properties testing of soil, rock, concrete, steel, asphalt, and composite building materials. These testing services are performed in support of all project phases, including site investigations and assessments, design, and construction. Our firm currently holds technical certifications to perform geotechnical engineering and construction materials testing services with FDOT, Palm Beach County, Miami-Dade County, as well as other agencies.

CONCRETE EQUIPMENT

Our lab is fully equipped with the following resources for concrete testing:

- 2 Concrete Compression Machines
- 2 Capping Plates
- 1 Melting Pot for Capping Compound
- 4 Beam Molds
- 6 2" Cube Molds
- 1 Sample Trimmer
- 1 Swiss Hammer/2 TypeN/1 TypeL
- 1 Temperature/Humidity Controlled Curing Room
Capacity 400 Concrete Cylinders
- 2 Flow Cone for Grout
- 3 Rollmeter Type Air-Meters
- 10 Slump Cones
- 10 Cylinder Transporters
- 1 Flow Table Mortar Testing
- 1 16" Radial Table Saw Cutting Concrete Specimen



Curing Room

In addition to our laboratory equipment, our field technicians are assigned the following equipment:

Slump cone, plate, rod, wheelbarrow, thermometer, air meter and cylinder molds.

ASPHALT EQUIPMENT

Our lab is fully equipped with the following resources for asphalt testing:

- Muffle Furnace
- Thermolyne NCAT Asphalt Content Tester
- Extruder
- Specific Gravity Soak Tank
- Marshall Load Cell
- Marshall Hammer
- Rice Test Equipment

Miscellaneous Equipment

- Floor Flatness Equipment (Allan Face)
- Windsor Probe
- Rebar Locator
- Fire-Proofing
- Moisture Meter
- Point Thickness Tester
- Swiss Hammer



Marshall Load Cell



Rice Test Equipment



NCAT Oven

SOIL/AGGREGATE EQUIPMENT

Our lab is fully equipped with the following resources:

- 1 Automatic Ram-Proctor/LBR
- 12 CBR-LBR Molds
- 1 LBR/CBR Load Cell-Automated
- 2 LBR/CBR Soaking Tanks
- 12 4" Compaction Molds
- 12 6" Compaction Molds
- 2 1 Quart Mixer
- 1 Rock Crusher
- 4 Lbs. Scale, various readings
- 3 Ohaus Sensitive .01 Electronic Scale
- 1 Liquid Limit Device Manual
- 1 Oven 0-275°C
- 1 Soil Grinder
- 1 Organic Burner - Furnace
- 2 Hand Proctor Hammers
- 2 Sieve Shakers
- 6 Gilson Testing Screens
- 3 Sample Splitters 1", 3/4", 3/8"
- 1 Shrinkage Limit Device
- 1 Electrical Liquid Limit Device
- 1 Hydrometer Equipment
- 12 Troxler Density/Moisture Gauges
- 100 Tares
- 1 Plastic Limit Equipment
- 2 100 ML Graduated Cylinder
- 2 150°C Mercury Thermometers
- 1 PH Meter
- 1 UCS Load Cell
- 1 LA Abrasion Machine
- 1 Permeability Permeameter – Falling Head
- 1 Carbonate Content Device
- 1 Consolidmeter
- 2 Triaxial Cell



LBR Soaking Tank



Permeability Permeameter



SPT Soil Samples

In addition to our laboratory equipment, our field technicians are assigned the following equipment:

Pound scales, gram scales, sand cone density equipment, sleeve density equipment, calibrated dial hand Penetrometer with 1 extension, bucket augers with 3 extensions, 1 Speedy moisture kit, 1 Standard Proctor Hammer with 1/30 and 1/13.33 ft.³ compaction mold, Turbidity Meter, Cone Penetrometer, Resistivity equipment, and Vibration Monitoring equipment.



Field Load Test

TAB 3. Certified Minority Business Enterprise

TSGGeo is a certified *Disadvantaged Business Enterprise* with the FDOT.


Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

STEPHANIE C. KOPELOUSOS
SECRETARY

October 1, 2009

Certified Mail – Return Receipt Requested

Tierra South of Florida, Inc.
Mr. Raj Krishnasamy, P.E.
2765 Vista Parkway, Suite 9
West Palm Beach FL 33411

ANNIVERSARY DATE – Annually on September 30

Dear Mr. Krishnasamy:

The Florida Department of Transportation [FDOT] is pleased to announce that your firm is certified under the **Florida Unified Certification Program [UCP]** as a **Disadvantaged Business Enterprise [DBE]** in accordance with Part 49 Section 26, Code of Federal Regulations.

DBE certification is continuing, but is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the **Anniversary Date**. You must submit the annual **AFFIDAVIT FOR CONTINUING ELIGIBILITY** no later than the **Anniversary Date**. Failure to do so will result in immediate action to remove certification.

Only those firms listed in the UCP DBE Directory, are certified by Florida UCP Members. **Prime contractors and consultants should verify your firm's DBE certification status, and identify the work area(s) for which the firm is DBE eligible, through this Directory.**

Your firm will be listed in Florida's UCP DBE Directory which can be accessed via the internet, at <http://www.bipincwebapps.com/biznetflorida/> or through The Department's website at www.dot.state.fl.us/equalopportunityoffice, then select "DBE Directory."

DBE certification is **NOT** a guarantee of work, but enables the firm to compete for, and perform, contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-
If, at any time, there is a material change, you **must advise this office, by sworn affidavit and supporting documents, within thirty (30) days**. Changes

include, but are not limited to, ownership, officers, Directors, management, key personnel, scope of work performed, daily operations, on-going business relationships with other firms or individuals, or the physical location of your firm. After our review you should receive instructions as to how you should proceed, if necessary. Failure to do so will be deemed a failure, on your part, to cooperate, and will result in immediate action to Remove DBE certification.

Your firm is eligible to compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, and may earn DBE credit for work performed in the following areas:

NAICS:	FDOT Specialty Code & Description
541330	943-Geotechnical Engineering Services
541380	944-Laboratory Testing Services

All other concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our Fax number is (850) 414-4879

Sincerely,

John Goodeman
DBE Certification Manager

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TAB 4. Additional Required Proposal Submittal Forms

- ✓ Consultant's General Information Work Sheet
- ✓ Cone of Silence Form
- ✓ Consultant's Code of Ethics
- ✓ E-Verify Form
- ✓ Non-Collusion Affidavit
- ✓ Drug-Free Workplace Form
- ✓ Vendor Certification Regarding Scrutinized Companies Form
- ✓ Truth in Negotiation Form

CONSULTANT'S GENERAL INFORMATION WORK SHEET

E-RFP #20230089

It is understood and agreed that the following information is to be used by the City to determine the qualifications of prospective Consultant to perform the work required. The Consultant waives any claim against the City that might arise with respect to any decision concerning the qualifications of the Consultant.

The undersigned attests to the truth and accuracy of all statements made on this questionnaire. Also, the undersigned hereby authorizes any public official, Engineer, Surety, bank, material or equipment manufacturer, or distributor, or any person, firm or corporation to furnish the City any pertinent information requested by the City deemed necessary to verify the information on this questionnaire.

Dated at 2765 Vista Parkway, Suite 10, WPB, FL 33411, this 29th day of Sept., 2023
(Location)

Name of Organization/Consultant: Tierra South Florida, Inc. dba TSFGeo

By: Raj Krishnasamy, PE, President
Name and Title

1. Corporation, Partnership, Joint Venture, Individual or other? Corporation

2. Firm's name and main office address, telephone, and fax numbers

Name: Tierra South Florida, Inc. dba TSFGeo

Address: 2765 Vista Parkway, Suite 10

West Palm Beach, FL 33411

Telephone Number: 561-687-8536

Fax Number: 561-687-8570

3. Contact person: Raj Krishnasamy, PE Email: Raj@Tsfgeo.com

4. Firm's previous names (if any). _____

5. **ADDENDUM ACKNOWLEDGMENT** - Bidder acknowledges that the following addenda have been received and are included in its proposal/bid:

Addendum Number	Date Issued	Addendum Number	Date Issued
1	9/14/2023		
2	9/14/2023		

6. List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10 %) interest:

None

(N/A is not an acceptable answer - insert lines if needed)

7. List any judgments from lawsuits in the last five (5) years:

None

(N/A is not an acceptable answer - insert lines if needed)

8. List any criminal violations and/or convictions of the Proposer and/or any of its principals:

None

(N/A is not an acceptable answer - insert lines if needed)



A handwritten signature in blue ink, consisting of several overlapping loops and strokes, positioned above the signature line.

Signature

Raj Krishnasamy, PE

President

Title

NOTICE TO ALL PROPOSERS

To ensure fair consideration is given for all Proposers, it must be clearly understood that upon release of the proposal and during the proposal process, firms and their employees of related companies as well as paid or unpaid personnel acting on their behalf shall not contact or participate in any type of contact with City employees, department heads or elected officials, up to and including the Mayor and City Council. The "Cone of Silence" is in effect for this solicitation from the date the solicitation is advertised on DemandStar, until the time an award decision has been approved by City Council and fully executed by all parties. Information about the Cone of Silence can be found under the City of Port St. Lucie Ordinance 20-15, Section 35.13. Contact with anyone other than the Issuing Officer may result in the vendor being disqualified. All contact must be coordinated through Ms. Robyn Holder, Issuing Officer, for the procurement of these services.

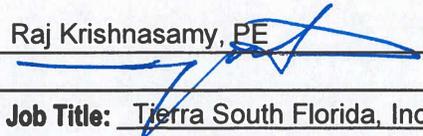
All questions regarding this Solicitation are to be submitted in writing to Robyn Holder, Procurement Manager with the Procurement Management Department via e-mail rholder@cityofpsl.com, or by phone 772-344-4293. Please reference the Solicitation number on all correspondence to the City.

All questions, comments and requests for clarification must reference the Solicitation number on all correspondence to the City. Any oral communications shall be considered unofficial and non-binding.

Only written responses to written communication shall be considered official and binding upon the City. The City reserves the right, at its sole discretion, to determine appropriate and adequate responses to the written comments, questions, and requests for clarification.

***NOTE:** All addendums and/or any other correspondence before bid close date (general information, question and responses) to this solicitation will be made available exclusively through the DemandStar's Website for retrieval. All notice of intent to award documentation will be published on the City Clerk's Website. Proposers are solely responsible for frequently checking these websites for updates to this solicitation.

I understand and shall fully comply with all requirements of City of Port. St. Lucie Ordinance 20-15, Section 35.13.

Typed Name: Raj Krishnasamy, PE
Signed: 
Company and Job Title: Tierra South Florida, Inc. / President
Date: 9/29/2023



"A City for All Ages"

CONSULTANT'S CODE OF ETHICS

The City of Port St Lucie ("City), through its Procurement Management Department ("Procurement Management Department") is committed to a procurement process that fosters fair and open competition, is conducted under the highest ethical standards and enjoys the complete confidence of the public. To achieve these purposes, Procurement Management Department requires each vendor who seeks to do business with the City to subscribe to this Consultant's Code of Ethics.

- ◆ A Consultant's bid or proposal will be competitive, consistent and appropriate to the bid documents.
- ◆ A Consultant will not discuss or consult with other Vendors intending to bid on the same contract or similar City contract for the purpose of limiting competition. A Vendor will not make any attempt to induce any individual or entity to submit or not submit a bid or proposal.
- ◆ Consultant will not disclose the terms of its bids or proposal, directly or indirectly, to any other competing Vendor prior to the bid or proposal closing date.
- ◆ Consultant will completely perform any contract awarded to it at the contracted price pursuant to the terms set forth in the contract.
- ◆ Consultant will submit timely, accurate and appropriate invoices for goods and/or services actually performed under the contract.
- ◆ Consultant will not offer or give any gift, item or service of value, directly or indirectly, to a City employee, City official, employee family member or other vendor contracted by the City.
- ◆ Consultant will not cause, influence or attempt to cause or influence, any City employee or City Official, which might tend to impair his/her objectivity or independence of judgment; or to use, or attempt to use, his/her official position to secure any unwarranted privileges or advantages for that Vendor or for any other person.
- ◆ Consultant will disclose to the City any direct or indirect personal interests a City employee or City official holds as it relates to a Vendor contracted by the City.
- ◆ Consultant must comply with all applicable laws, codes or regulations of the countries, states and localities in which they operate. This includes, but is not limited to, laws and regulations relating to environmental, occupational health and safety, and labor practices. In addition, Consultant

must require their suppliers (including temporary labor agencies) to do the same. Consultant must conform their practices to any published standards for their industry. Compliance with laws, regulations and practices include, but are not limited to the following:

- Obtaining and maintaining all required environmental permits. Further, Consultant will endeavor to minimize natural resource consumption through conservation, recycling and substitution methods.
- Providing workers with a safe working environment, which includes identifying and evaluating workplace risks and establishing processes for which employee can report health and safety incidents, as well as providing adequate safety training.
- Providing workers with an environment free of discrimination, harassment and abuse, which includes establishing a written antidiscrimination and anti-bullying/harassment policy, as well as clearly noticed policies pertaining to forced labor, child labor, wage and hours, and freedom of association.

Name of Organization/Proposer Tierra South Florida, Inc.

Signature 

Printed Name and Title Raj Krishnasamy, PE, President

Date 9/29/2023

DISCLAIMER: This Code of Ethics is intended as a reference and procedural guide to Consultants. The information it contains should not be interpreted to supersede any law or regulation, nor does it supersede the applicable Consultant contract. In the case of any discrepancies between it and the law, regulation(s) and/or Consultant contract, the law, regulatory provision(s) and/or vendor contract shall prevail.

E-Verify Form

Contractor acknowledges and agrees to the following:

1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

E-Verify Company Identification Number 318532

Date of Authorization 4/12/2010

Name of Contractor Tierra South Florida, Inc.

Name of Project Continuing Contracts for Geotechnical Services

Solicitation Number (If Applicable) 20230089

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on Sept., 29, 2023 in West Palm Beach (city), FL (state).



 Signature of Authorized Officer

Raj Krishnasamy, PE, President

 Printed Name and Title of Authorized Officer or Agent

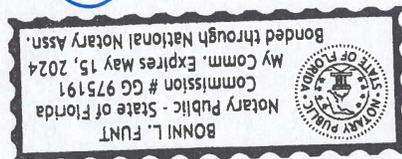
SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 29th DAY OF September, 2023.

NOTARY PUBLIC State of Florida

My Commission Expires: 5/15/2024





NON-COLLUSION AFFIDAVIT

State of Florida

County of Palm Beach }

Raj Krishnasamy, PE, being first duly sworn, disposes and says that:

(Name/s)

1. They are President of Tierra South Florida, Inc. the Proposer that
(Title) (Name of Company)

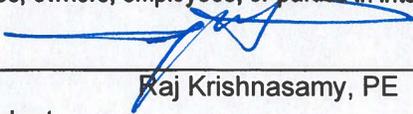
has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed)  _____
Raj Krishnasamy, PE

(Title) President

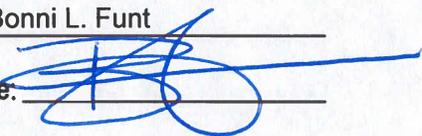
STATE OF FLORIDA }
COUNTY OF ST. LUCIE} SS:

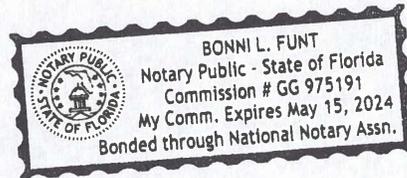
The foregoing instrument was acknowledged before me this (Date) 9/29/2023

by: Raj Krishnasamy, PE who is personally known to me ~~or who has produced~~
~~_____ as identification~~ and who did (did not) take an oath.

Commission No. GG 975191

Notary Print: Bonni L. Funt

Notary Signature: 



DRUG-FREE WORKPLACE FORM

The undersigned Contractor in accordance with Florida Statute 287.087 hereby certifies that
Tierra South Florida, Inc. does:
(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 Florida Statutes or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.



Bidder's Signature Raj Krishnasamy, PE

9/29/2023

Date:

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES' LISTS

Vendor Name: Tierra South Florida, Inc.
Vendor FEIN: 20-0282450
Authorized Representative's Name: Raj Krishnasamy, PE
Authorized Representative's Title: President
Address: 2765 Vista Parkway, Suite 10
City, State and Zip Code: West Palm Beach, FL 33411
Phone Number: 561-687-8536
Email Address: bfunt@tsfgeo.com

Sections 287.135 and 215.473, Florida Statutes, prohibit Florida municipalities from contracting with companies, for goods or services over \$1,000,000 that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or to engage in any Business operations with Cuba or Syria. Sections 287.135 and 215.4725 also prohibit Florida municipalities from contracting with companies, for goods or services in any amount that are on the list of Scrutinized Companies that Boycott Israel.

The list of "Scrutinized Companies" is created pursuant to Section 215.473, Florida Statutes. A copy of the current list of "Scrutinized Companies" can be found at the following link: <https://www.sbafila.com/fsb/FundsWeManage/FRSPensionPlan/GlobalGovernanceMandates/QuarterlyReports.aspx>

As the person authorized to sign on behalf of the Respondent Vendor, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List; or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; is not participating in a boycott of Israel; and does not have any business operations with Cuba or Syria. I understand that pursuant to Sections 287.135 and 215.473, Florida Statutes, the submission of a false certification may subject the Respondent Vendor to civil penalties, attorney's fees, and/or costs.

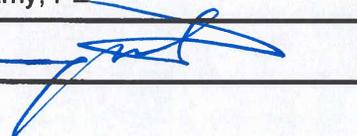
I understand and agree that the City may immediately terminate any contract resulting from this solicitation upon written notice if the company referenced above are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) for any contract for goods or services in any amount of monies, it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars (\$1,000,000) or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

Authorized Signature

Raj Krishnasamy, PE

Print Name

Signature



TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT

STATE OF FLORIDA §
COUNTY OF ST. LUCIE §

Before me, the undersigned authority, personally appeared affiant Raj Krishnasamy, PE, who being first duly sworn, deposes and says:

1. That the undersigned firm is furnishing this Truth in Negotiation Certificate pursuant to Section 287.055(5)(a) of the Florida Statutes for the undersigned firm to receive an agreement for professional services with the City of Port St. Lucie, St. Lucie County, Florida.

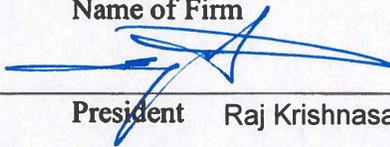
2. That the undersigned firm is a corporation which engages in furnishing professional engineering services and is entering into an agreement with the City of Port St. Lucie, St. Lucie County, Florida to provide professional services for a project known as Continuing Contract for, Contract # 20230089.
Geotechnical Services

3. That the undersigned firm has furnished the City of Port St. Lucie, St. Lucie County, Florida a detailed analysis of the cost of the professional services required for the project.

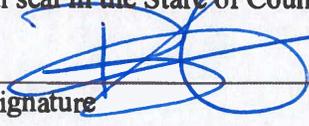
4. That the wage rate information and other factual unit cost, which the undersigned firm furnished, were accurate, complete and current at the time the undersigned firm and the City of Port St. Lucie entered into the agreement for professional services on the project.

5. That the agreement which the undersigned firm and the City of Port St. Lucie entered into on this job contained a provision that the original agreement price and any additions thereto shall be adjusted to include any significant sums by which the City of Port St. Lucie determines the agreement price was increased due to inaccurate, incomplete or non-current wage rates or other factual unit cost and that all such agreement adjustments shall be made within one (1) year following the end of the agreement.

FURTHER AFFIANT SAYETH NAUGHT

Tierra South Florida, Inc.
Name of Firm

By: President Raj Krishnasamy, PE

The foregoing instrument was acknowledged before me by Raj Krishnasamy, PE
~~who has produced~~ ~~as identification~~ or is personally known to me.
WITNESS my hand and official seal in the State of County last aforesaid this 29th day of
September, 20 23.
(SEAL)


Signature
Bonni L. Funt
Notary Name (typed or printed)
Director of Business Development
Title or Rank

