

SPECIFIC AUTHORIZATION NO. 1

HISTORIC DOWNTOWN FORT PIERCE RETROFIT TRAIL - SUNTRAIL

PROFESSIONAL SERVICES

SCOPE OF SERVICES

Pursuant to the continuing agreement related to “RFQ No. 2019-027 – Engineering Services” (hereinafter referred to as “AGREEMENT” between The City of Fort Pierce (hereinafter referred to as “CITY”) and Marlin Engineering, Inc. (hereinafter referred to as “ENGINEER”) dated the 4th day of August 2020, CITY authorizes the ENGINEER to provide professional services as detailed herein.

The CITY desires professional services related to the Historic Downtown Retrofit Trail – SUN Trail, hereinafter referred to as the “Project”.

Section 1 - Scope of Work and Schedule of Services

ENGINEER will provide the following services in accordance with this AUTHORIZATION:

Professional consultant services are required for the preparation of engineering plans and specification package to support the design and bidding of trail construction from Georgia Avenue to N. Causeway Drive. The proposed services and scope of work are more particularly described in Exhibit “A”, which is attached hereto and incorporated by reference herein.

Section 2 - Deliverables

ENGINEER shall provide the following deliverables to the CITY as list below and described in Exhibit “A”, which is attached hereto and incorporated by reference herein:

Pre-Design Services – Geotech. & Survey	8 Weeks from NTP
30% Design Plans	14 Weeks from NTP
60% Design Plans	32 Weeks from NTP
90% Design Plans	44 Weeks from NTP
100% Design Plans	56 Weeks from NTP

Section 3 - Method and Amount of Compensation

CITY will compensate ENGINEER for services under this AUTHORIZATION in accordance with the payment method as set forth in Exhibit “A”, which is attached hereto and incorporated by reference herein.

The budget (or fee) for the services is not to exceed: \$282,019.21

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PROFESSIONAL SERVICES

Section 4 - CITY's Responsibilities

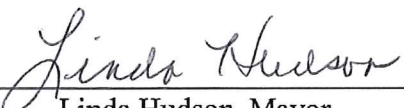
CITY hereby designates the City Engineer or his designee as CITY's representative for matters related to this AUTHORIZATION.

Section 5 - Other Provisions

All applicable portions of the AGREEMENT not specifically modified herein shall remain in full force and effect and are incorporated by reference herein.

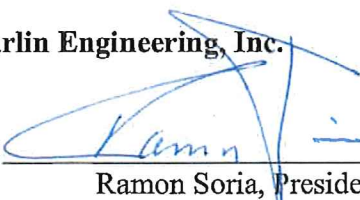
IN WITNESS WHEREOF, this AUTHORIZATION has been fully executed on behalf of the ENGINEER by its duly authorized officer, and the CITY has caused the same to be duly executed in its name and in its behalf, effective as of the date herein above written.

CITY OF FORT PIERCE, FLORIDA:

By: 
Linda Hudson, Mayor

Date: 9/24/2021

Marlin Engineering, Inc.

By: 
Ramon Soria, President

Date: 8/25/2021

APPROVED AS TO FORM & CORRECTNESS:

By: 
Tanya Earley, Interim City Attorney

Date: 9/24/2021

May 24, 2021
Jack Andrews, P.E.
City of Fort Pierce
City Engineer
Engineering Department
100 North US 1
Fort Pierce, FL 34950

Re: Engineering Services – The Historic Downtown Fort Pierce Retrofit Trail_SUNTRAIL

Dear Mr. Andrews:

Marlin Engineering, Inc. proposes to provide the services identified below pursuant to the Professional Services Agreement provided by the City of Fort Pierce for Professional Engineering Services RFQ 2019-027.

I. Project Description

The project will consist of providing a set of contract documents including plans, specifications, supporting engineering analysis and calculations to construct a 8 to 14-foot-wide multi-use paved trail through the Historic Downtown Ft Pierce at the following locations (See attached map) Approx. Total 5030 ft, 0.95 miles

- The first segment starts on 3rd St from Georgia Ave to Citrus Avenue (approx. 1950 ft)
- The second segment starts at the intersection of AE Backus Ave and North 2nd St, to connect the existing Riverwalk path within Veterans Memorial Park, and continues under the Seaway Dr bridge and then west back towards Indian River Drive, and then north towards Ave H. (approx. 4065 ft) – Riverwalk Alternative
- The third segment is along Ave H/Fisherman’s Wharf from Indian River Drive to Old Dixie Hwy. (approx. 475 ft)

II. Scope of Work

Task 1 – Pre-Design Services, Geotechnical and Survey Services (see attached proposal for additional details)

- a) Pre-Design Services for geotechnical services will obtain one asphalt pavement coring at each of the following five locations;
- 3rd Street from Georgia Avenue to Citrus Avenue
 - Backus Avenue from North 2nd Street to Indian River Drive
 - North Side of the Seaway Dr. Bridge (WB) adjacent to the parking lot and the existing path
 - Indian River Drive from Seaway Drive Bridge to Avenue H/Fisherman’s Wharf
 - Avenue H from Indian River Drive to SR 5

The scope of services will include;

1. Field Exploration and a Laboratory Testing Program
 2. Traffic Control
 3. Signed and Sealed Memorandum to the City of Fort Pierce
- b) Pre-Design Services for survey services will include a topographic survey, DTM, and a drainage survey.



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1. Reconnaissance, Field Work and Support
2. Office Support
3. Signed and Sealed Survey Drawings in CADD (Microstation or AutoCad).

Task 2 - General Tasks – Public Involvement Support for selected alternative, Stakeholder Engagement and Miscellaneous tasks.

- a) Prepare a PowerPoint presentation and attend up to 3 agency meetings (City of Fort Pierce, St. Lucie County, St. Lucie County TPO)
- b) Prepare materials for one Public Meeting. Materials include Exhibits, Sign-In Sheet, Comment Form, and Fact Sheet for one meeting.
- c) Attendance and Follow-up for one meeting.
- d) Technical and Non-Technical Project Manager Meetings.
- e) Contract Maintenance and Project Documentation

Task 3 – Plans Production

- a) The Marlin Team will prepare a complete contract set of plans based on the Historic Downtown Fort Pierce Retrofit SUN Trail Final Feasibility Study. The plans shall be prepared for submittal and review to the all-affected agencies (including City of Fort Pierce) at 30%, 60%, 90% and 100% phase submittals and will follow all relevant shared-use path guidance.

Analysis shall include;

1. Typical Section
2. Pavement Design
3. Horizontal/Vertical Master Design File
4. Signage and Pavement Marking Reference and Master Design File
5. Traffic Control
6. Quantities
7. Engineering Cost Estimate at 30%, 60%, 90% and 100% phase submittals.

The plan component shall include;

1. Key Sheet
2. Summary of Pay Items
3. Paving, Grading & Drainage General Notes
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- b) Utility Coordination – Provide utility coordination with all affected utilities and obtain utility clear letters and/or utility relocation schedules in order to provide proper direction to the contractor.
- c) Drainage and Permitting – Conduct one drainage field review. Prepare calculations to satisfy water quality/quantity requirements and modify existing drainage permit with SFWMD.
- d) Quality Control and Peer Review – Perform quality control and peer review of contract documents.
- e) Specification and Bid Package Preparation – Prepare specifications and bid documents as required by the City of Fort Pierce.

Task 4 – Post Design Services (108 hours)

- a) Attend pre-construction meeting. Assume four (4) hours for attendance at the pre-construction meeting. (4 hours)
- b) Provide written responses and/or revisions to all requests for information (RFIs). Assist with the review and technical evaluation of Contractor’s request for change orders, and claims, and provide recommendations and cost evaluations to the City. Assume two (2) hours for responses to two (2) requests for information (RFI’s) per month. (48 hours – Estimated 12-month construction duration)
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III. Subconsultants

The below listed subconsultants will assist in the performance of the Work.

Subconsultant Name	Specialty or Expertise
Radise International	Geotechnical Engineering

IV. Schedule of Work – Time of Performance

The anticipated length of service for Tasks 1 – 4 shall be (48) weeks commencing after the Notice to Proceed. Consultant shall submit the Deliverables and perform the Work as depicted in the table below. Task 4 schedule shall be determined based on the bid dates and construction award period.

SCHEDULE OF DELIVERABLES			
Task or Activity ID#	Major Task, Sub-Task, Activity, or Deliverables	Duration	Delivery Date
1	Pre-Design Services – Geotechnical & Survey Services	8 weeks	+8 weeks
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	Review by the City	4 weeks	+48 weeks
	100% Plans – QC/General Tasks	8 weeks	+56 weeks
4	Post Design Services	TBD	

Deliverables: At the completion of each task, Marlin will provide to the City all files associated with each deliverable to include drawings files in CAD and PDF formats.

V. Compensation

Consultant shall perform the work detailed in this Proposal for a Total fee of \$ 299,520.71. The City shall not be liable for any fee, cost, expense or reimbursable expense or other compensation beyond this amount unless approved in a supplemental work order. Invoicing will be monthly after NTP.

SUMMARY OF COMPENSATION			
Task or Activity	Task Name and/or Activity Description	Fee Amount	Fee Basis
1	Pre-Design Services – Geotechnical & Survey Services	\$ 33,542.50	Not to Exceed
2	General Tasks	\$ 56,425.35	Lump Sum
3	Plans Production	\$ 192,051.36	Lump Sum
4	Post Design Services	\$ 17,501.50	Not to Exceed
	Total	\$299,520.71	

Not Included

VI. Exclusions from Basic Services

The following services are excluded from this scope of services:

- a) Traffic Analysis - (MARLIN) not responsible for County review and approval
- b) Environmental studies and permitting
- c) Coordination and Preparation of the MMOA

VII. Additional Services

Additional services and unforeseen circumstances beyond established scope shall be negotiated in good faith and at the sole discretion of the City.

VIII. City Furnished Documents & Data

The following information or documents are to be provided by the City, if available:

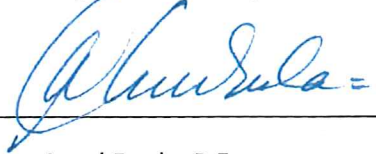
- As-built information including geotechnical information



- Any available existing studies pertaining to this project.

IX. Project Manager

Consultant's Project Manager for this Project will be Aysel Freda, P.E.

Submitted by:  _____

Aysel Freda, P.E.
Marlin Engineering

Reviewed and approval in concept recommended by:

Department Director

Procurement Manager

City Manager

Figure 1: Project Location Map



ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: City of Fort Pierce Historic Trail
 County: St. Lucie

Consultant Name: MARLIN Engineering
 Consultant No.:

Date: 5/24/2021
 Estimator: Ayob Fieda, PE

Staff Classification	Total Staff Hours From Summary - SH	Project Manager	Sr Design Eng	Project Eng	CADD Tech	Utility Coordinator	Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
Task 2. Project General and Project Common Tasks	353	35	106	106	71	0	35	0	0	0	0	0	0	353	\$66,425.35	\$159.85
3a. Roadway Analysis	596	55	119	238	184	0	0	0	0	0	0	0	0	596	\$93,303.45	\$156.55
3b. Roadway Plans	309	30	93	93	93	0	0	0	0	0	0	0	0	309	\$49,617.30	\$160.57
3c. Drainage Analysis	40	8	16	16	0	0	0	0	0	0	0	0	0	40	\$7,740.56	\$193.51
3d. Utilities	142	0	0	0	0	99	43	0	0	0	0	0	0	142	\$18,810.80	\$132.47
3e. Signing & Pavement Marking Analysis	111	11	11	44	45	0	0	0	0	0	0	0	0	111	\$16,200.77	\$145.95
3f. Signing & Pavement Marking Plans	44	4	4	18	18	0	0	0	0	0	0	0	0	44	\$6,378.48	\$144.97
Task 4- Post Design	108	10	11	65	22	0	0	0	0	0	0	0	0	108	\$17,501.50	\$162.05
Total Staff Hours	1,703	153	360	580	433	99	78	0	0	0	0	0	0	1,703	\$265,978.21	\$156.18
Total Staff Cost		\$34,206.21	\$72,540.00	\$98,890.00	\$38,710.20	\$15,345.00	\$6,286.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$265,978.21	\$156.18

Check = \$265,978.21

SALARY RELATED COSTS:	
SUBTOTAL ESTIMATED FEE:	\$265,978.21
Subconsultant: MARLIN Survey	\$26,100.00
Subconsultant: Radise International	\$7,442.50
SUBTOTAL ESTIMATED FEE:	\$299,520.71
Optional Services	\$0.00
GRAND TOTAL ESTIMATED FEE:	\$299,520.71

The City of Fort Pierce
Historic Downtown SUN TRAIL

Description	Proj. Mgr.	Proj. Svyr	CADD Tech	Survey Tech	2 Person Crew	Clerical \$60.00	Total
Research & calc base map	175	155	100	110	135	60	
Research H/V Control; Check Traverse & Bench run			24				\$2,400.00
Traverse & Bench run			16				\$1,600.00
Locate improvements (Edge of Pavement to R/W line)			8		40		\$5,400.00
Draft survey & prepare DTM		4	40	24			\$9,440.00
							\$7,260.00
Subtotal:							
Total:							\$26,100.00

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April 22, 2021

Marlin Engineering
10415 Riverside Drive, Suite 101
Palm Beach Gardens, FL 33410

Attention: Jose Santiago, PE
Phone: 305-477-7575
Email: jsantiago@marlinengineering.com

**Ref: Proposal for Geotechnical Engineering Services
City of Fort Pierce Historic Trail
St. Lucie County, Florida**

Dear Mr. Santiago,

RADISE International, L.C. (RADISE) is pleased to submit this proposal to provide geotechnical engineering services for the above referenced project. We understand that the City of Fort Pierce has retained Marlin Engineering for the design of a shared use path/trail through the downtown area. This proposal presents our proposed scope of work, and establishes our schedule and fee for performing the work.

GEOTECHNICAL SCOPE OF WORK

We understand that our geotechnical scope of work will involve the following tasks:

1. Visit the site to field stake the planned boring and test locations, and observe the existing site conditions.
2. Contact Sunshine 811 to request field location and clearance of underground utilities in the areas of the borings as per Florida Statutes.
3. Mobilize truck-mounted drilling rig and crew to the project site and perform the following:
 - Four (4) Standard Penetration Test (SPT) borings to a depth of 10 feet.
 - One (1) Auger boring to a depth of up to 10 feet, as allowed by the water table.
4. Following the completion of the drilling operations, the borehole will be backfilled with grout.
5. Visually classify the collected soil samples in the field, with subsequent laboratory confirmation/QC verification of classifications using the Unified Soil Classification System (USCS) in general accordance with the visual-manual method of ASTM D 2488.
6. Assign laboratory testing of selected soil samples for index property determinations limited to moisture content, full sieve analysis, fines content, and organic content tests to assist in classifying the soils for engineering purposes (ASTM 2487).
7. Perform a geotechnical analysis and prepare a geotechnical engineering report.



 561.841.0103

 4152 W. Blue Heron Blvd. Suite 1114,
Riviera Beach, FL 33404

 www.RADISE.com

We have assumed that our work will be performed within the right-of-way, but not within the roadways, therefore a Temporary Traffic Control Plan will not be needed. In any case, cones and signs will be used during our field exploration for safety purposes.

SCHEDULE/DELIVERABLES

Upon receiving written authorization to proceed, we will commence with field marking of the boring locations and preparation of the utility locate request. Mobilization for the drilling operations will occur soon after Sunshine 811 clearance of boring locations is received from the contacted utilities. These two upfront activities are expected to require no more than 2 weeks to complete.

The specified field drilling work is expected to require 1 day to complete. Laboratory visual classification of the soils and report preparation will require about 4 weeks to complete following completion of field work. We expect to provide the final report signed and sealed by a registered professional engineer within 7 weeks of notice to proceed; however, accelerations of this schedule may be facilitated if needed.

COMPENSATION

Based upon our understanding of the project and interpretation of your requirements, we propose to perform the scope of work outlined previously for a Not-To-Exceed fee of **\$7,442.50** as detailed in the Fee Breakdown on Attachment A.

CLOSING

RADISE appreciates the opportunity to submit this proposal, and look forward to the opportunity of working with you. If you have any questions or would like to discuss the details of this proposal, please do not hesitate to give us a call at (561) 841-0103.

Sincerely,

RADISE International, LC



Andrew Nixon, P.E.
Operations Manager

Attachments: A – Geotechnical Fee Estimate



**ATTACHMENT A: FEE BREAKDOWN
 GEOTECHNICAL ENGINEERING SERVICES
 City of Fort Pierce Historic Trail
 St. Lucie County, Florida**

	Qty	Unit	Unit Price	Total
1.0 FIELD EXPLORATION				
1.1 <u>Field Marking & Utility Locate/Clearance Coordination</u>				
1.1.1 Project Engineer	8	Hour	\$ 125.00	\$ 1,000.00
1.2 <u>Maintenance of Traffic</u>				
1.2.1 Traffic Control (Signs & Cones) - Est. 1 day to complete drilling	1	Day	\$ 150.00	\$ 150.00
1.3 <u>Subsurface Exploraton</u>				
1.3.1 Mobilize Equipment-Drill Rig (Truck)	1	Trip	\$ 325.00	\$ 325.00
1.3.2 SPT Borings (4 to 10')	40	LF	\$ 16.00	\$ 640.00
1.3.3 Auger Borings (1 to 10')	10	LF	\$ 12.00	\$ 120.00
1.3.4 Grout Seal Boreholes	2.5	Hour	\$ 135.00	\$ 337.50
		TOTAL FIELD WORK	\$	2,572.50
2.0 LABORATORY SERVICES				
2.1 Visual Soil Classification (Project Engineer)	2	Hour	\$ 125.00	\$ 250.00
2.2 Natural Moisture Test	5	Test	\$ 20.00	\$ 100.00
2.3 Fines Content Determination	5	Test	\$ 50.00	\$ 250.00
2.4 Organic Content Determination	5	Test	\$ 38.00	\$ 190.00
		TOTAL LABORATORY SERVICES	\$	790.00
3.0 PROFESSIONAL SERVICES				
3.1 Senior Engineer	4	Hour	\$ 150.00	\$ 600.00
3.2 Project Engineer	24	Hour	\$ 125.00	\$ 3,000.00
3.3 CADD Operator/Technician	8	Hour	\$ 60.00	\$ 480.00
		TOTAL PROFESSIONAL SERVICES	\$	4,080.00
			TOTAL AMOUNT	\$ 7,442.50

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PROFESSIONAL SERVICES

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CITY OF FORT PIERCE, FLORIDA:

By: Linda Hudson
Linda Hudson, Mayor

Date: 9/24/2021

Marlin Engineering, Inc.

By: Ramon Soria
Ramon Soria, President

Date: 8/25/2021

APPROVED AS TO FORM & CORRECTNESS:

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Tanya Earley, Interim City Attorney

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Jack Andrews, P.E.
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SUMMARY OF COMPENSATION			
Task or Activity	Task Name and/or Activity Description	Fee Amount	Fee Basis
1	Pre-Design Services – Geotechnical & Survey Services	\$ 33,542.50	Not to Exceed
2	General Tasks	\$ 56,425.35	Lump Sum
3	Plans Production	\$ 192,051.36	Lump Sum
4	Post Design Services	\$ 17,501.50	Not to Exceed
	Total	\$299,520.71	

Not Included

VI. Exclusions from Basic Services

The following services are excluded from this scope of services:

- a) Traffic Analysis - (MARLIN) not responsible for County review and approval
- b) Environmental studies and permitting
- c) Coordination and Preparation of the MMOA

VII. Additional Services

Additional services and unforeseen circumstances beyond established scope shall be negotiated in good faith and at the sole discretion of the City.

VIII. City Furnished Documents & Data

The following information or documents are to be provided by the City, if available:

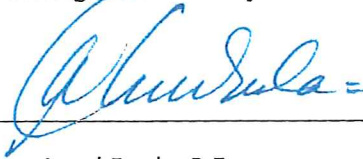
- As-built information including geotechnical information



- Any available existing studies pertaining to this project.

IX. Project Manager

Consultant's Project Manager for this Project will be Aysel Freda, P.E.

Submitted by: 
Aysel Freda, P.E.
Marlin Engineering

Reviewed and approval in concept recommended by:

Department Director

Procurement Manager

City Manager

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: City of Fort Pierce Historic Trail
 County: St. Lucie

Consultant Name: MARLIN Engineering
 Consultant No.: 5/24/2021

FAP No.:
 Date: 5/24/2021
 Estimator: **Avceel Fredd, PE**

Staff Classification	Total Staff Hours From "SH" Summary -	Project Manager	Sr Design Eng	Project Eng	CADD Tech	Utility Coordinator	Clerical	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Task 2. Project General and Project Common Tasks	353	35	106	106	71	0	35	0	0	0	0	0	0	353	\$56,425.35	\$159.85
3a. Roadway Analysis	596	55	119	238	184	0	0	0	0	0	0	0	0	596	\$83,303.45	\$136.55
3b. Roadway Plans	309	30	93	93	93	0	0	0	0	0	0	0	0	309	\$49,617.30	\$160.57
3c. Drainage Analysis	40	8	16	16	0	0	0	0	0	0	0	0	0	40	\$7,740.56	\$193.51
3d. Utilities	142	0	0	0	0	99	43	0	0	0	0	0	0	142	\$18,810.80	\$132.47
3e. Signing & Pavement Marking Analysis	111	11	11	44	45	0	0	0	0	0	0	0	0	111	\$16,200.77	\$145.95
3f. Signing & Pavement Marking Plans	44	4	4	18	18	0	0	0	0	0	0	0	0	44	\$6,378.48	\$144.97
Task 4. Post Design	108	10	11	65	22	0	0	0	0	0	0	0	0	108	\$17,501.50	\$162.05
Total Staff Hours	1,703	153	360	590	433	99	78	0	0	0	0	0	0	1,703	\$265,978.21	\$156.18
Total Staff Cost		\$34,206.21	\$72,540.00	\$98,890.00	\$38,710.20	\$15,345.00	\$5,266.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$265,978.21	

Check = \$265,978.21

SALARY RELATED COSTS:	
SUBTOTAL ESTIMATED FEE:	\$265,978.21
Subconsultant: MARLIN Survey	\$26,100.00
Subconsultant: Radise International	\$7,442.50
SUBTOTAL ESTIMATED FEE:	\$299,520.71
Optional Services	\$0.00
GRAND TOTAL ESTIMATED FEE:	\$299,520.71

The City of Fort Pierce
Historic Downtown SUN TRAIL

Description	Proj. Mgr.	Proj. Svyr	CADD Tech	Survey Tech	2 Person Crew	Clerical \$60.00	Total
	175	155	100	110	135	60	
Research & calc base map			24				\$2,400.00
Research H/V Control; Check Traverse & Bench run			16				\$1,600.00
Traverse & Bench run					40		\$5,400.00
Locate improvements (Edge of Pavement to R/W line)			8		64		\$9,440.00
Draft survey & prepare DTM		4	40	24			\$7,260.00
Subtotal:							
Total:							\$26,100.00

0	4	88	24	104	0
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April 22, 2021

Marlin Engineering
10415 Riverside Drive, Suite 101
Palm Beach Gardens, FL 33410

Attention: Jose Santiago, PE
Phone: 305-477-7575
Email: jsantiago@marlinengineering.com

**Ref: Proposal for Geotechnical Engineering Services
City of Fort Pierce Historic Trail
St. Lucie County, Florida**

Dear Mr. Santiago,

RADISE International, L.C. (RADISE) is pleased to submit this proposal to provide geotechnical engineering services for the above referenced project. We understand that the City of Fort Pierce has retained Marlin Engineering for the design of a shared use path/trail through the downtown area. This proposal presents our proposed scope of work, and establishes our schedule and fee for performing the work.

GEOTECHNICAL SCOPE OF WORK

We understand that our geotechnical scope of work will involve the following tasks:

1. Visit the site to field stake the planned boring and test locations, and observe the existing site conditions.
2. Contact Sunshine 811 to request field location and clearance of underground utilities in the areas of the borings as per Florida Statutes.
3. Mobilize truck-mounted drilling rig and crew to the project site and perform the following:
 - Four (4) Standard Penetration Test (SPT) borings to a depth of 10 feet.
 - One (1) Auger boring to a depth of up to 10 feet, as allowed by the water table.
4. Following the completion of the drilling operations, the borehole will be backfilled with grout.
5. Visually classify the collected soil samples in the field, with subsequent laboratory confirmation/QC verification of classifications using the Unified Soil Classification System (USCS) in general accordance with the visual-manual method of ASTM D 2488.
6. Assign laboratory testing of selected soil samples for index property determinations limited to moisture content, full sieve analysis, fines content, and organic content tests to assist in classifying the soils for engineering purposes (ASTM 2487).
7. Perform a geotechnical analysis and prepare a geotechnical engineering report.



561.841.0103



4152 W. Blue Heron Blvd. Suite 1114,
Riviera Beach, FL 33404



www.RADISE.com

We have assumed that our work will be performed within the right-of-way, but not within the roadways, therefore a Temporary Traffic Control Plan will not be needed. In any case, cones and signs will be used during our field exploration for safety purposes.

SCHEDULE/DELIVERABLES

Upon receiving written authorization to proceed, we will commence with field marking of the boring locations and preparation of the utility locate request. Mobilization for the drilling operations will occur soon after Sunshine 811 clearance of boring locations is received from the contacted utilities. These two upfront activities are expected to require no more than 2 weeks to complete.

The specified field drilling work is expected to require 1 day to complete. Laboratory visual classification of the soils and report preparation will require about 4 weeks to complete following completion of field work. We expect to provide the final report signed and sealed by a registered professional engineer within 7 weeks of notice to proceed; however, accelerations of this schedule may be facilitated if needed.

COMPENSATION

Based upon our understanding of the project and interpretation of your requirements, we propose to perform the scope of work outlined previously for a Not-To-Exceed fee of **\$7,442.50** as detailed in the Fee Breakdown on Attachment A.

CLOSING

RADISE appreciates the opportunity to submit this proposal, and look forward to the opportunity of working with you. If you have any questions or would like to discuss the details of this proposal, please do not hesitate to give us a call at (561) 841-0103.

Sincerely,

RADISE International, LC



Andrew Nixon, P.E.
Operations Manager

Attachments: A – Geotechnical Fee Estimate



**ATTACHMENT A: FEE BREAKDOWN
 GEOTECHNICAL ENGINEERING SERVICES
 City of Fort Pierce Historic Trail
 St. Lucie County, Florida**

	Qty	Unit	Unit Price	Total
1.0 FIELD EXPLORATION				
1.1 <u>Field Marking & Utility Locate/Clearance Coordination</u>				
1.1.1 Project Engineer	8	Hour	\$ 125.00	\$ 1,000.00
1.2 <u>Maintenance of Traffic</u>				
1.2.1 Traffic Control (Signs & Cones) - Est. 1 day to complete drilling	1	Day	\$ 150.00	\$ 150.00
1.3 <u>Subsurface Exploraton</u>				
1.3.1 Mobilize Equipment-Drill Rig (Truck)	1	Trip	\$ 325.00	\$ 325.00
1.3.2 SPT Borings (4 to 10')	40	LF	\$ 16.00	\$ 640.00
1.3.3 Auger Borings (1 to 10')	10	LF	\$ 12.00	\$ 120.00
1.3.4 Grout Seal Boreholes	2.5	Hour	\$ 135.00	\$ 337.50
		TOTAL FIELD WORK	\$	2,572.50
2.0 LABORATORY SERVICES				
2.1 Visual Soil Classification (Project Engineer)	2	Hour	\$ 125.00	\$ 250.00
2.2 Natural Moisture Test	5	Test	\$ 20.00	\$ 100.00
2.3 Fines Content Determination	5	Test	\$ 50.00	\$ 250.00
2.4 Organic Content Determination	5	Test	\$ 38.00	\$ 190.00
		TOTAL LABORATORY SERVICES	\$	790.00
3.0 PROFESSIONAL SERVICES				
3.1 Senior Engineer	4	Hour	\$ 150.00	\$ 600.00
3.2 Project Engineer	24	Hour	\$ 125.00	\$ 3,000.00
3.3 CADD Operator/Technician	8	Hour	\$ 60.00	\$ 480.00
		TOTAL PROFESSIONAL SERVICES	\$	4,080.00
		TOTAL AMOUNT		\$ 7,442.50