



Exhibit "A"
Scope of Services for
Fort Fraser Trail Extension
From SR 540 (Winter Lake Road) to Glendale Street
Professional Engineering Services for Roads and Drainage Contract
(Master Agreement #17-058)
CSA #17-058-3 (Modification 5)
9/11/2024

I. PURPOSE & BACKGROUND

The **COUNTY** has contracted with the **CONSULTANT** to design, permit, and post design for an extension to the Fort Fraser Trail. The **COUNTY** has requested that the **CONSULTANT** provide additional post-design services for the construction in the form of verification testing and pile monitoring.

This modification is proposed to add the new scope items to the contract. All other elements of the contract remain unchanged.

II. VERIFICATION TESTING

The **CONSULTANT** shall provide verification testing as defined in the attached scope and fee from Madrid Engineering Group, Inc.

III. PILE MONITORING

The **CONSULTANT** shall provide pile monitoring as defined in the attached scope and fee from Foundation & Geotechnical Engineering, LLC.

IV. DESIGN REQUIREMENTS AND PROVISIONS FOR WORK

Fee

The **CONSULTANT** agrees to provide these services for a not-to-exceed fee of \$9,918.80 for Madrid Engineering Group, Inc. and \$23,228.80 for Foundation & Geotechnical Engineering, LLC (\$33,147.60 total). This increases the total fee for the task assignment to \$661,447.08.

Schedule

Services shall be provided between the date of execution and the completion of construction.



September 10, 2024

Joe Baan
RK&K
(863) 333-4583
jbaan@rkk.com

**Ref: Fort Fraser Trail Extension CMT and Pile Monitoring
Lakeland, FL
Madrid Project No. 14270.01**

Dear Mr. Baan:

Madrid Engineering Group, Inc., dba Madrid CPWG, (Madrid) has been requested to provide an estimate for materials testing, inspection and pile monitoring services for the above referenced project. Madrid is an established firm with more than 30 years of experience providing innovative and cost-effective engineering solutions to Florida’s engineering and construction community. Some of Madrid’s clients include the Florida Department of Transportation (FDOT), the Southwest Florida Water Management District (SWFWMD), and the Florida Department of Environmental Protection (FDEP). **Madrid is also a Disadvantaged Business Enterprise (DBE) registered with the FDOT in accordance with Florida’s Unified Certification Program.**

Understanding of Project

Madrid is expected to provide CQC and materials testing services for the Fort Fraser trail extension from SR 540 to Glendale St. in Lakeland, Florida. Madrid will be required to perform necessary materials testing and inspections (field and lab) detailed herein during the proposed construction operations. Madrid understands that this project may require variable staffing levels throughout the construction process; therefore, it is Madrid’s intention to provide as much flexibility as possible to meet your needs. Pile Dynamic Testing (PDA) will be performed by others.

Minimum qualifications for the Madrid technician will be CTQP certified for Earthwork Construction as needed. **Rates do not include an overtime premium. Work hours in excess of 8 hrs per day will be charged an overtime premium rate equal to 1.5 times the standard rate.** A minimum of 2 hours per site visit will be required and inspectors will be billed on a portal-to-portal basis. A detailed scope of services including anticipated laboratory testing and man-hour breakdown is included below.

AT THE READY

2030 State Road 60 East, Bartow, FL 33830
P: 863.533.9007

Athletic Complex Design

Commercial Development

Construction Engineering and Inspection (CEI)

Construction Management

Environmental Services and Water Resources

Geotechnical Engineering

Landscape Architecture

Land Development

Materials Testing

Municipal Services

Parks and Recreation

Pavement Management

Planning

Power Services

Roadway Design

Stormwater Services

Sinkhole Services

Structural Engineering

Surveying and Mapping

Transportation Utilities



Scope of Services - Materials Testing and Inspection

The following services and personnel are anticipated (client will only be billed for services rendered):

<u>PROJECT PERSONNEL</u>	<u>QUANTITY</u>	<u>RATE</u>	<u>UNIT</u>	<u>COST</u>
Administrative Assistant	6	\$ 72.00	/HR	\$ 432.00
Field Inspector	32	\$ 76.00	/HR	\$ 2,432.00
Senior Field Inspector	10	\$ 95.00	/HR	\$ 950.00
Pile Driving Inspector	24	\$ 95.00	/HR	\$ 2,280.00
CEI Services Manager	2	\$ 157.00	/HR	\$ 314.00
Chief Engineer	2	\$ 225.00	/HR	\$ 450.00
Project Personnel				\$ 6,858.00

ADDITIONAL FIELD SERVICES

Support Truck	3	\$ 125.00	/Day	\$ 375.00
Additional Field Services				\$ 375.00

Madrid CPWG has a fully certified laboratory in Bartow, Florida which will expedite processing of all required laboratory services

LABORATORY TESTING SERVICES

Soils Limerock Bearing Ratio (LBR) FM 5-515	2	\$ 404.90	/EA	\$ 809.80
Soils Proctor Modified FM 1-T180 / ASTM D1557	2	\$ 146.60	/EA	\$ 293.20
Particle Size Analysis (AASHTO T88)	4	\$ 81.00	/EA	\$ 324.00
Soils Organic Content Ignition FM 1 T-267	4	\$ 49.20	/EA	\$ 196.80
Soils Carbonate Content ASTM D4373	2	\$ 88.20	/EA	\$ 176.40
Concrete Cylinder Curing and Breaking ASTM C39 (Set of 4)	6	\$ 147.60	/EA	\$ 885.60
Laboratory Testing				\$ 2,685.80

TOTAL ESTIMATE \$ 9,918.80

This proposal is valid for 90 days from the date estimated. Project will be billed on a unit rate basis from the specific tasks detailed above. It is noted that Madrid has no control over the contractor's schedule or productivity. The labor time estimated is based upon our understanding of the work and typical construction practice. No additional work shall be completed without the client's prior approval. Should any additional work be required, it will be billed at the unit rates listed above. Please reference Madrid project number **14270.01** in any future correspondence regarding this project. If this proposal meets your approval, please sign in the space provided for Authorization to Proceed or provide a Purchase/Task Order and email a copy to our office. Should you have any questions or comments, please feel free to contact us.

Madrid Engineering Group, Inc.


 John Delashaw
 for **Andy Acosta** CEI Services Manager

AUTHORIZATION TO PROCEED

 Signature Date



Foundation & Geotechnical Engineering, LLC
 608 Hitchcock St.
 Plant City, FL 33563

Project Proposal Date: 9-6-2024

Attention: Joseph Baan, P.E.

Client: RK&K
 Project Name: Fort Frasier Trail Extension from SR 540 to Glendale Street
 Project Location: Polk County, FL
 FPID: 440603-1
 FGE Project Number: 2455-D24-P

Scope: Review Pile Installation Plan; Attend pre-pile meeting; Pre-construction WEAP analysis to evaluate hammer suitability as needed; Drill and prepare all piles for PDA sensors to be attached; Perform 100% PDA testing for a total of fourteen 20-inch open ended pipe piles; Assume all pipes require at least one splice to complete their pile length; Assume the top and bottom section of the first pile at each bent will be instrumented with PDA; Assume 9 total PDA days may be required to install the piles; Prepare pile length letters and installation criteria letters as needed; Perform instrumented set checks to verify bearing capacity for acceptance; Perform CAPWAP analysis for at least one pile per driving event in each bent; Prepare Dynamic Testing Reports for 3 foundation units.

Labor			
Job Classification	Loaded Rate	Estimated Quantity	Estimated Cost
MAT Chief Engineer Home	\$207.41	20	\$4,148.20
MAT Senior Engineer Home	\$199.94	20	\$3,998.80
MAT Project Manager Home	\$183.02	20	\$3,660.40
MAT Engineer Home	\$131.44	20	\$2,628.80
MAT Senior Engineering Technician Home	\$94.17	20	\$1,883.40
MAT Engineering Technician Home	\$75.46	20	\$1,509.20
Sub-total			\$17,828.80

Loaded Billing Item				
Item Description	Unit of Measure	Unit Rate	Estimated Quantity	Estimated Cost
421-Geo Dynamic Pile Testing/Pile Driving Analysis	Day	\$600.00	9	\$5,400.00
Sub-total				\$5,400.00

Grand Total \$23,228.80

Proposal Prepared by: Tom Petty