

City of Cape Coral
Del Prado N. and Averill Boulevard Traffic Signal and Roadway Improvement Design
Contract #: RPW2230MM

THIS CONTRACT is made this 21ST day of November, 2022 by and between the CITY OF CAPE CORAL, FLORIDA, hereinafter called "CITY", and KISINGER CAMPO & ASSOCIATES, CORP doing business as a corporation, located at One Tampa Center, 201 N Franklin Street, Ste 400, Tampa, FL. 33602, hereinafter called "CONTRACTOR".

WITNESSETH: For and in consideration of the payments and agreements mentioned hereinafter:

1. The CONTRACTOR will commence and provide signalization design and roadway improvement and plans for the Del Prado N. Blvd at Averill Blvd Intersection in accordance with the Contract Documents.
2. The CONTRACTOR will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the completion of the project described in the Contract Documents.
3. The CONTRACTOR will commence work as required by the CONTRACT DOCUMENTS as stipulated in the written NOTICE TO PROCEED and will complete the same within one hundred eighty (180) calendar days from and including the date of commencement unless the period for completion is extended otherwise by the CONTRACT DOCUMENTS.
4. The CONTRACTOR agrees to perform all the WORK described in the CONTRACT DOCUMENTS for a total sum of **\$92,415.00** said amount being the Total Bid Amount as listed on the CONTRACTOR'S Official Bid Proposal Form for this project, specifically Exhibit A hereto and made a part hereof.
5. This agreement may be terminated by the CITY for its convenience upon thirty (30) days prior written notice to the CONTRACTOR. In the event of termination, the CONTRACTOR shall be paid as compensation in full for work performed to the day of such termination, an amount prorated in accordance with the work substantially performed under this agreement. Such amount shall be paid by the CITY after inspection of the work to determine the extent of performance under this agreement, whether completed or in progress.
6. The Term "Contract Documents" shall include this Contract, addenda, Contractor's Bid except when it conflicts with any other contractual provision, the Notice to Proceed, the Bonds, the Bid Package prepared and issued by the CITY, the General Conditions, the Specifications and Drawings, any Special Conditions, together with all Written Amendments, Change Orders, Work Change Directives or Field Orders. In the event of conflict between any provision of any other document referenced herein as part of the contract and this agreement, the terms of this agreement shall control.
7. **Assignment:** This agreement may not be assigned except with the written consent of the CITY, and if so assigned, shall extend and be binding upon the successors and assigns of the CONTRACTOR.
8. **Disclosure:** The CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONTRACTOR to solicit or secure this agreement and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the CONTRACTOR, any fee, commission, percentage, gift, or other compensation contingent upon or resulting from the award or making of the agreement.
9. **Administration of Agreement:** The Public Works Director or his representative shall administer this agreement for the CITY.
10. **Governing Law:** The validity, construction and effect of this Contract shall be governed by the laws of the State of Florida. All claim and/or dispute resolution under this Agreement, whether by mediation, arbitration, litigation, or other method of dispute resolution, shall take place in Lee County, Florida. More specifically, any litigation between the parties to this Agreement shall be conducted in the Twentieth Judicial Circuit, in and for Lee County, Florida. In the event of any litigation arising out of this Contract,

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each party shall be responsible to pay for its own reasonable costs and attorney's fees.

11. **Amendments:** No Amendments or variation of the terms or conditions of this agreement shall be valid unless in writing and signed by the parties.
12. **Payment Procedures:** CITY shall make payment and Contractor(s) shall be in receipt of all sums properly invoiced within thirty (30) days of the CITY's receipt of such invoice unless, within a fifteen (15) day period, CITY notifies Contractor(s) in writing of its objection to the amount of such invoice, together with CITY's determination of the proper amount of such invoice. CITY shall pay any undisputed portion of such invoice within such thirty (30) day period.

If CITY shall give such notice to the Contractor(s) within such fifteen (15) day period, such dispute over the proper amount of such invoice shall be resolved, and after final resolution of such dispute, CITY shall promptly pay the Contractor(s) the amount so determined, less any amounts previously paid by CITY with respect to such invoice. In the event it is determined that CITY has overpaid such invoice, the Contractor(s) shall promptly refund to the CITY the amount of such overpayment.

13. **Contractor's Representations:** In order to induce CITY to enter into the Agreement CONTRACTOR makes the following representations:

CONTRACTOR has been familiarized with the Contract Documents and the nature and extent of the work required to be performed, locality, local conditions, and Federal, State, and Local laws, ordinances, rules and regulations that in any manner may affect costs, progress or performance of the work.

CONTRACTOR has made or caused to be made examinations, investigations and tests and studies as deemed necessary for the performance of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract, and no additional examinations, investigations, tests, reports or similar data are or will be required by CONTRACTOR for such purposes.

CONTRACTOR has correlated the results of all such observations, examinations, investigations, tests, reports and data with the terms and conditions of the Contract Documents.

CONTRACTOR has given CITY written notice of all conflicts, errors or discrepancies that have been discovered in the CONTRACT DOCUMENTS and the written resolution thereof by CITY is acceptable to CONTRACTOR.

14. **Indemnity:** The CONTRACTOR shall indemnify and hold harmless the CITY, its officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR and any persons employed or utilized by CONTRACTOR in the performance of this Contract.
15. **Other Provisions:** The CITY reserves unto itself sole authority to execute and authorize the issuance of change order(s), directives, or other documents to the CONTRACTOR which impact on or change the contract time or price. These actions by the CITY will be taken after due consideration of the recommendations and analysis of the ENGINEER. This provision supersedes any other contradictory provisions within the Contract Documents.
16. **Invalid Provision:** The invalidity or unenforceability of any particular provision of this agreement shall not affect the other provisions hereof, and the agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

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17. **Record Keeping:** The awarded bidder shall maintain auditable records concerning the procurement adequate to account for all receipts and expenditures, and to document compliance with the specifications. These records shall be kept in accordance with generally accepted accounting principles, and the City of Cape Coral reserves the right to determine the record-keeping method in the event of non-conformity. If a Public Construction Bond is required records shall be maintained for ten (10) years, after final payment has been made and shall be readily available to City personnel with reasonable notice, and to other persons in accordance with the Florida Public Disclosure Statutes.

Records of the Contractor's personnel, sub-consultants, and the costs pertaining to the Project shall be kept in accordance with generally accepted accounting practices.

Contractor shall keep full and detailed accounts and financial records pertaining to the provision of services for the City. Prior to commencing work, Contractor shall review with and obtain the City's approval of the accounting procedures and records to be utilized by the Contractor on the Project. Contractor shall preserve the aforementioned Project records for a period of ten (10) years after final payment, or for such longer period as may be required by law.

18. **Public Record:** Pursuant to Florida Statute §287.058 (1) (c), this contract may be unilaterally cancelled by the City if the Consultant, refuses to allow public access to all documents, papers, letters, or other material made or received by the Consultant in conjunction with this contract, unless the records are exempt from disclosure.
19. **Public Construction Bond (if applicable):** Any Contractor entering into a contract for the construction of a public building or public work, or for any repairs upon a building or public work shall, before commencing work, execute, deliver to the City of Cape Coral, and record in the public records of Lee County, Florida, a public construction bond issued by a surety authorized to do business in the State of Florida. The amount of the bond shall be 100% of contract amount.
20. **Insurance:** Unless otherwise specified, Contractor shall, at its own expense, carry and maintain the following minimum insurance coverage, as well as any insurance required by law.
- a. **Workers' Compensation:** Submitting firm shall have Workers Compensation Insurance covering all employees meeting Statutory Limits in compliance with the applicable state and federal laws. The policy must include Employer's Liability with a minimum limit of \$1,000,000.00 for each accident.
- b. **Comprehensive General Liability:** Shall have minimum limits of \$1,000,000 per occurrence, combined Single Limit for Bodily Injury Liability and Property Damage Liability. This shall include Premises and/or Operations, Independent Contractors and Products and/or Completed Operations, Broad Form Property Damage, and a Contractual Liability Endorsement.
- c. **Commercial Auto Liability:** Shall have minimum limits of \$1,000,000 per occurrence. Combined Single Limit for Bodily Injury and Property Damage Liability. This shall include Owned Vehicles, Hired and Non-Owned Vehicles, and Employees' Non-Ownership.
- d. **Certificate of Insurance:** The City of Cape Coral is to be specifically included as an additional insured on the General Liability policy and the contract number (BPW2210MM) shall be listed under the comments section. This does not pertain to Workers' Compensation.

In the event the insurance coverage expires prior to the completion of the project, a renewal certificate shall be issued thirty (30) days prior to said expiration date.

The policy shall provide a 30-day notification clause in the event of cancellation or modification to the policy.

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Unless otherwise specified, it shall be the responsibility of the contractor to ensure that all subcontractors comply with the same insurance requirements spelled out above.

All certificates of insurance must be on file with and approved by the City of Cape Coral before the commencement of any work activities

21. **Guarantee:** The Contractor shall warrant all materials furnished and work performed for a period of one year from the date of written acceptance by the City or by the date on the substantial completion letter. The making and acceptance of final payment shall not waive any claim for faulty work appearing after final payment or for failure to adhere strictly to the Construction Documents. If any part of the project is guaranteed for a longer period, such longer period shall prevail. Except as otherwise specified, all work shall be guaranteed by the Contractor against defects resulting from the use of inferior materials, equipment or workmanship for one year from the date of final completion and acceptance by the City.
22. **Annual Appropriation Contingency:** Pursuant to Florida Statute §166.241, the City's performance and obligation to pay under this Contract is contingent upon an annual appropriation by the City Council. This Contract is not a commitment of future appropriations. Authorization for continuation and completion of work and any associated payments may be rescinded, with proper notice, at the discretion of the City if the City Council reduces or eliminates appropriations.
23. **Immigration Affidavit Certification and E-Verify Validation:**
As a condition precedent to entering into this AGREEMENT, and in compliance with The Immigration and Nationality Act (INA); 8 U.S.C. Section 1324a(e) Section 274A(e) and Florida Statute Section §448.095, Contractor or Consultant and their subcontractors shall register with and use the E-Verify system to verify work authorization status of all employees hired after January 1, 2021. The Employment Eligibility Verification System (E-Verify), is operated by the Department of Homeland Security in partnership with the Social Security Administration.

The following conditions must be met by all Contractors, Consultants and Subcontractors:

- a. Contractor or Consultant shall require each of its subcontractors to provide them with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. Contractor, Consultant or Bidder shall maintain a copy of the subcontractor's affidavit as part of and pursuant to the records retention requirements of this AGREEMENT.
- b. The CITY, Contractor, Consultant, Bidder or any subcontractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated The Immigration and Nationality Act (INA) contained in 8 U.S.C. Section 1324 a(e) Section 274A(e) Section §448.09(1), Florida Statute or the provisions of this section shall terminate the contract with the person or entity.
- c. The CITY, upon good faith belief that a subcontractor knowingly violated the provisions of this section, but Contractor or Consultant otherwise complied, shall promptly notify Contractor or Consultant and they shall immediately terminate the contract with the subcontractor.
- d. A contract terminated under the provisions of this section is not a breach of contract and may not be considered such. Any contract termination under the provisions of this section may be challenged pursuant to Section §448.095(2)(d), Florida Statute. Contractor or Consultant acknowledges that upon termination of this AGREEMENT by the CITY for a violation of this section by Contractor or Consultant, that the Contractor or Consultant may not be awarded a public contract for at least one (1) year. Contractor or Consultant further acknowledges that Contractor or Consultant is liable for any additional costs incurred by the CITY as a result of termination of any contract for a violation of this section.


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- e. **Subcontracts:** Contractor, Consultant or subcontractor shall insert in any subcontracts the clauses set forth in this section, including this subsection, requiring the subcontractors to include these clauses in any lower tier subcontracts. Contractor or Consultant shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in this section.
24. **Unauthorized Aliens:** The employment of unauthorized aliens by any Contractor is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the Contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of any contract resulting from this ITB. This applies to any sub-contractors used by the Contractor aswell.
25. **Scrutinized Companies List:** Pursuant to 287.135 Florida Statute, s. 215.4725 and s. 215.473, companies contracting with public agencies are prohibited from contracting for good or services over one million (\$1,000,000) dollars that appear on the Scrutinized Companies List.
26. **Electronic Signatures:** The parties acknowledge and agree that this Agreement may be executed by electronic signature, which shall be considered as an original signature for all purposes and shall have the same force and effect as an original signature. Without limitation, "electronic signature" shall include faxed version of an original signature or electronically scanned and transmitted versions (e.g. via pdf) of an original signature.
27. **Counterparts:** This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together will constitute one and the same instrument.
28. **Entire Agreement:** This Contract constitutes the entire and exclusive agreement between the parties and supersedes any and all prior communications, discussions, negotiations, understandings, or agreements, whether written or verbal.

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IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed, by their duly authorized officials this Contract in one counterpart which shall be deemed an original on the date last signed as below written.

ATTEST:

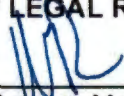
Signature: 
Typed Name: Kimberly Bruns, CMC
Title: City Clerk

CITY:

CITY OF CAPE CORAL, FLORIDA

Signature: 
Typed Name: Roberto Hernandez
Title: City Manager
Date: 11/21/2022

CITY LEGAL REVIEW:

 11/9/2022
For Dolores Menendez Date
City Attorney

CONTRACTOR:

KISINGER CAMPO & ASSOCIATES, CORP.


Signature: 
Print Name: Paul G. Foley, P.E.
Title: CEO / President
Date: November 21, 2022

EXHIBIT A



November 3, 2022

Mr. Mark Milkovich
City of Cape Coral
1015 Cultural Park Blvd
Cape Coral, FL 33990

Re: Contract: RPW2230MM
Traffic Signal and Roadway Improvement Design at the Del Prado Blvd at Averill Blvd Intersection

FW: SAC Ranking of RPW2230MM: Traffic Signal and Roadway Improvement Design

Dear Mr. Milkovich:

Kisinger Campo and Associates Corp. (KCA) is pleased to submit this proposal to provide signalization design and roadway improvement and plans for the Del Prado Blvd at Averill Blvd intersection. This work will be performed pursuant to the Professional Engineering Services CONTRACT NO. RPW2230MM between the City of Cape Coral, Florida (the "CITY"), and Kisinger Campo & Associates (the "CONSULTANT").

1. Purpose of Contract

The purpose of this document is to describe the scope of work (PROJECT) and responsibilities of the CONSULTANT and CITY in connection with professional services for design of the proposed signal design.

2. Project Description

Due to a Signal Warrant Analysis (SWA) performed in 2020 warranting new signalization at the intersection of Del Prado Blvd at Averill Blvd, the CITY has decided to install a traffic signal at the referenced intersection meeting current FDOT standards. The new mast-arm signalization will consist of one dual-arm mast-arm and one single-arm mast-arm, vehicular detection, and pedestrian features at three corners of this T-intersection. The project also includes roadway elements including the milling and resurfacing of the eastbound approach along Averill Blvd. to repurpose the existing asphalt width for dual left-turn lanes and one right turn-lane. As part of the CITY's Major Road Resurfacing Plan, it is understood that Del Prado Boulevard will be milled and resurfaced by the CITY prior to the installation of new pavement markings within the intersection. The project will also include the addition of ADA compliant ramps for a proposed new crosswalk across Del Prado Boulevard with modifications to existing sidewalk and/or replacement of existing sections out of compliance with ADA criteria.

3. Scope of Work

Task I – Project Management and Coordination

KCA will conduct a project kickoff meeting with the CITY to identify elements to include within the Signalization design. Under this task we propose to coordinate with key stakeholders. All coordination meetings will include the development of agendas and minutes. KCA will develop Monthly one-page status reports on this project to keep the CITY informed of progress on the project and its schedule.

Task II – Land Survey / ROW

Through a sub-consultant service (Echezabal & Associates), the CONSULTANT shall furnish field survey required to complete the project. The limits of the survey will include from Right-of-Way to Right-of-Way along all approaches. The CONSULTANT shall prepare all maps and surveys in accordance with the requirements of the current edition of CITY Survey Procedures Manual.

Tasks include the following:

1. Establish the road right-of-way lines within the Project Area (location will be approximate and based on found right-of-way and subdivision monumentation), show easements that are included on the recorded subdivision plat (and those provided by client).
2. Locate above ground and visible features within the Project Area such as edge of roadways, yellow paint centerlines or near edge of median, driveways, sidewalks, sanitary manholes (rim elevation only), utility services, traffic signal equipment (poles, controllers, pull boxes etc.), street lights, utility poles, fire hydrants, valves, catch basins and other drainage structures (grate and rim elevations only) and trees (greater than 6" trunk diameter).
3. Elevations will be obtained at the following locations: edge of pavement, back of sidewalk, mast arm pole location, pavement at bullnose and yellow paint centerlines or near edge of median. Maximum spacing for cross sections will be 50 feet.
4. Re-establish historic alignments for Averill Blvd. and Del Prado Blvd. N.

Task III – Utilities Coordination

Through a sub-consultant service (CW3 Engineering), the CONSULTANT shall contact and provide information to utility providers that own or maintain facilities within and adjacent to the project area, all utility conflicts are to be addressed by UAO's. Activities include:

- Contact Sunshine 811 to identify UAO's within the corridor
- Prepare contact letters to all affected utility owners, beginning with the design survey for markups by the respective utility owners.
- Conduct Field Visit and meet with UAO in field as necessary.
- Collect and Review Plans and Data from UAO's.
- Review and Coordinate Utility Markups provided by UAO's.
- Existing utility facilities requiring relocation will be designed by the utility owner. Utility relocation plans are not included in this scope of services.

Task IV - Subsurface Utility Engineering (SUE)

Through a sub-consultant service (Echezabal & Associates), the CONSULTANT shall provide subsurface utility engineering (SUE) services consisting of investigations of the areas of the proposed two (2) mast arm drilled shaft foundations as described:

1. Coordinate Sunshine 811 and utility locates to include supplemental calls to each locator to expedite the field marking of each subsurface utility as required by law.
2. Expose any subsurface utilities found within conflict with proposed pole foundation(s) using an X cut in a 5" circular area by using non-destructive vacuum excavation methods to a depth of 7' and air probe to 10' at said proposed pole location(s) indicated on plan sheet(s) provided or marked in the field.

3. Confirm/determine the vertical and horizontal position any utilities found and record the information.

Task V - Geotechnical Investigation

Through a sub-consultant service (AREHNA, Inc.), the CONSULTANT shall provide geotechnical services including field and laboratory testing and classification of soils for the design of the mast arm foundation. Specific services will include:

- Identification of the existing groundwater levels and estimated normal seasonal high groundwater fluctuations.
- General location and description of potentially deleterious materials encountered in the borings which may have an impact on the proposed construction.
- General geotechnical recommendations for the proposed construction.
- Recommended design soil parameters for the mast arm foundations (assumed to be drilled shafts).

The following services will be performed:

- Site reconnaissance and stake boring locations.
- Obtain appropriate drilling permit to perform the requested services (obtaining this permit may require 2 or more weeks to complete).
- Perform a total of 2 Standard Penetration Test (SPT) borings to a depth of 30 feet at the project site. Samples will be collected, and Standard Penetration Test resistances measured continuously for the top ten feet and at approximate intervals of five feet, thereafter. Grout for backfill of the boreholes.
- Bulk sample collection within 1 to 2 feet of the surface for corrosivity lab testing.
- Visually classify and stratify soil samples in the laboratory using the Unified Soil Classification System and conduct a laboratory testing program.
- Report the results of the field exploration and engineering analysis. The results of the subsurface exploration will be presented in a written report signed and sealed by a professional engineer specializing in geotechnical engineering.

Task VI – Roadway Improvement Plans

The CONSULTANT will prepare the roadway improvement design plan sheets in conformance with the City of Cape Coral and Lee County Engineering Design Standards and Florida Department of Transportation's (FDOT) Standards for Road and Bridge Construction.

The plans will be at a minimum scale of 1" = 40' for horizontal dimensions. Roadway improvement plan sheets will be included in the component Signalization Plan Set and submitted at the 60% and 100% design stages. The plans set will include but not limited to the following:

- General Notes and Construction Details
- Roadway Plan Sheet (One Sheet)
 - Depict proposed improvements related to the installation/replacement of new curb and gutter, sidewalk, ADA compliant ramp, and limits of milling and resurfacing.

- Include surveyed data of existing topography
 - Include provisions for silt fence and inlet protection
- Tabulation of Quantities Sheet – Including FDOT and/or Lee County Traffic Pay Item Numbers, Descriptions, Units of Measure, and Total Quantities required.

Traffic control notes with reference to FDOT Standard Plans Index 102-600 Series will be included within the General Notes sheet contained within Task IV. Detailed traffic control plans are not included in this scope of services.

Task VII - Signalization Analysis and Plans

The CONSULTANT will prepare the traffic signal design plans in conformance with the latest version of the City of Cape Coral Engineering Design Standards, Lee County Department of Transportation Plan Specifications for Traffic Signal and Street Lighting, and Florida Department of Transportation (FDOT) Standard Plans.

The CONSULTANT shall design one dual-arm mast arm on the SE corner and one single arm mast arm on the NW corner of the intersection of Del Prado Boulevard N at Averill Boulevard. LED signal heads with retroreflective yellow borders, LED illuminated overhead street name signs, count-down pedestrian signal heads, and ADA compliant pedestrian features will be provided as needed.

- Signing and pavement marking Analysis and Design

The CONSULTANT shall provide the signing and pavement marking design necessary along each approach of the intersection including signal ahead signs, stop bars, high emphasis crosswalks, and striping and messages for the new southbound left-turn lane along Averill Boulevard.

- Lighting Analysis Design

Through the CITY, the CONSULTANT shall coordinate with Lee County Electric Cooperative (LCEC) to install two light fixtures attached to stand alone poles along the eastbound and southbound approaches of the intersection with LED fixtures.

The CONSULTANT shall analyze and document Signalization Analysis Tasks in accordance with applicable manuals, guidelines, standards, handbooks, procedures, and current design memorandums. The tasks shall include:

1. Field Reviews – The CONSULTANT shall collect information from the CITY and conduct a field review with CITY staff. The review should include, but is not limited to, the following:
 - Existing available power source
2. Traffic Data Analysis – The CONSULTANT shall determine signal operation plan, intersection geometry, local signal timings, pre-emption phasing & timings, forecasting traffic, and intersection analysis run.
3. Reference and Master Signalization Design File – The CONSULTANT shall prepare the Signalization Design file to include all necessary design elements and all associated reference files.
4. Reference and Master Interconnect Communication Design File – The CONSULTANT shall prepare the Interconnect Communication Design file to include all necessary design elements and all associated reference files.

5. Overhead Street Name Sign Design – The CONSULTANT shall design Signal Mounted Overhead Street Name signs.
6. Pole Elevation Analysis – The CONSULTANT shall determine the required elevations for the signal pole foundations.
7. Traffic Signal Operation Report – The CONSULTANT shall develop a traffic signal operation report in accordance with the CITY's requirements for new or modified signals.
8. Other Signalization Analysis – The CONSULTANT shall complete additional analysis to assist the OWNER with determining construction costs and letting the project out to bid. This shall include the following tasks:
 - Quantities – Tabulate quantities for all signalization and signing equipment and materials.
 - Cost Estimate – Estimate costs for construction of all signalization and signing equipment and materials.

Task VIII - Mast Arm/Foundation Analysis And Design

The CONSULTANT shall be responsible for coordination of all geotechnical related fieldwork activities previously noted. The CONSULTANT shall design two standard mast arm assemblies to accommodate the proposed signals and sign panels as needed. The specific tasks for design of the mast arm assemblies include preparing structural calculations in accordance with FDOT standard procedures. The structural engineer will prepare design calculations using the current version of FDOT's Mast Arm MathCAD application. The current FDOT wind speed criteria for Lee County shall also be used. The CONSULTANT shall include in the plans the Standard Mast Arm Assemblies Data Table Plan Sheet.

PLANS PRODUCTION

The CONSULTANT will prepare traffic signal design plans in general conformance with FDOT standard plans layout. The plans will be 11" x 17" (Half-sized), with appropriate sheet minimum scale of 1" = 40' for horizontal dimensions. The plan set will include:

- Key Sheet – including Project Name and Location, Index of Sheets, Standards and Specifications Statement, Engineer of Record Name, Appropriate CITY Staff recognition Index of Sheets, Utility Service Providers List, Project Contact List.
- Notes Sheet (s)– Including General Notes and Specific Notes required to fully inform the contractor and inspectors of specific requirements pertinent to the construction and operation of the proposed traffic signal.
- Tabulation of Quantities Sheet
- Plan Layout Sheet(s) – Including layout of traffic signal equipment including traffic signal supports, pedestrian signals and peripherals, pavement marking modifications (if required), vehicle detection assignment chart, traffic signal timing plan chart, traffic and pedestrian signal details, overhead street name signs, traffic signal controller cabinet location, and conduit and pull boxes.
- Mast Arm Pole Schedule – Including Signal Head and Sign Placement Data, Foundation Elevation, Mast Arm Attachment Elevation, and Station/Offset Information for each proposed Mast Arm Pole
- Mast Arm Assemblies Design Table (FDOT Standard) – Including Mast Arm Structures Data in accordance with standard FDOT criteria
- Guide Signs Worksheet – Including Sign Size, Letter Size and Spacing, and graphic representation of each proposed Overhead Street Name Sign

- Detail Sheets – Additional Detail Sheets may be required for specific items, which will be provided as needed. The CONSULTANT anticipates a maximum of three Detail Sheets

The traffic signal design plans will be suitable for construction by a qualified traffic signal contractor. Plans will be submitted in two phases:

1. 60% Design Development:

This includes 60% level plans and programming, site planning, schematic design and any needed coordination with CITY staff and design elements traffic signal and overall roadway improvements. This also includes detailed plans for all traffic signal components, all structural, mechanical, electrical and utility designs to be reviewed and accepted by CITY staff.

2. 100% Construction Documents:

This includes 100% plans, a complete review of the design elements, specifications, and all other documents required for construction of the project to be submitted in electronic form and hard copy

Task IX - Post Design Services

The CONSULTANT will prepare an Opinion of Probable Construction Cost (OPCC) for the traffic signal per the final approved plans. The OPCC will be based upon historical FDOT Unit Price history for Area 10, which the CITY is within, and other known factors at the time of preparation of the OPCC. The OPCC will be suitable for planning purposes but will not provide any guarantee of maximum or expected price for the actual construction of the traffic signal.

The CONSULTANT will assist the CITY by reviewing contractor bids for completeness. Bids will be checked against the plans and verified. The CONSULTANT will prepare a spread sheet style report with a tabulation of all bids received, with a comparison of unit prices for each item, as well as the complete and total bid price. The CONSULTANT will provide a summary report, including notation of any discrepancies in pricing, or apparent irregularities based upon the CONSULTANT's experience in these matters. The CONSULTANT may be tasked with additional assistance that include but not limited to reference checks and available and aggregate bonding capacity.

The CONSULTANT shall assist the CITY with post-design services as follows:

1. Shop drawing review and approval. This includes review of all shop drawings.
2. Construction Requests For Information (RFIs) for construction of the new sign structures.

Task X - Optional Services Task - Construction Engineering Inspection (CEI)

The CONSULTANT shall assist the CITY with additional Construction Engineering Inspection/Observation (CEI) services as follows. These services will under Optional Services under a separate fee.

1. Turn over all daily reports during the project to the CITY at the conclusion of the project. No weekly/monthly summaries will be provided. Reports will include the FDOT Drill Shaft Logs and concrete placement reports;

2. Full time inspection during construction by a qualified Senior Inspector meeting all FDOT requirements as required based on scheduled work activities;
3. Periodic field visits by the EOR CEI as needed to resolve RFIs or other project issues;
4. Completion of daily inspection reports with associated photos, truck tickets, material verification, provided to the CITY on a weekly basis if requested or at the conclusion of the project.

4. SCHEDULE

Tasks I through IX- Upon execution of this contract amendment, the CONSULTANT shall coordinate with the sub-consultants and the CITY and begin the signal design. The CONSULTANT shall submit the 45% signalization plans within 45 calendars days from contract execution. The CONSULTANT shall submit the 60% signalization plans to the CITY Traffic Operations Group for review and approval of the mast arm locations within 90 calendar days from contract execution. Upon CITY review and approval of the mast arm locations, Survey, SUE and Geotechnical services will be completed as needed and the signalization plans will be finalized within 180 calendar days from contract execution. Construction duration is expected to be 360 days.

Deliverables for this project shall include the following:

- Plan Sheets size 11'x17' in PDF format
- CAD and Record drawings
- Construction Engineer Estimate

COMPENSATION

Services for Tasks I-IX will be compensated by the CITY for a total of \$92,415.00 per the attached Fee sheet.

TOTAL BASE FEE BY TASK

Task I	Project Management and Coordination	\$ 7,080.19
Task II	Land Survey / ROW & Task IV – Subsurface Utilities Engineering (SUE)	\$ 12,000.00
Task III	Utilities Coordination	\$ 4,725.00
Task V	Geotechnical Investigation	\$ 7,295.00
Task VI	Roadway Improvement Plans	\$ 12,442.64
Task VII	Signing & Pavement Markings, Signalization, and Lighting	\$ 38,810.39
Task VIII	Mast Arm/Foundation Analysis and Design	\$ 5,061.78
Task IX	Post-design Services	\$ 5,000.00
Task X	Construction Engineering Inspection – optional services under a separate fee	
TOTAL ALL FEES		\$92,415.00

We are ready to commence work on this project immediately and look forward to beginning our working relationship with the City of Cape Coral. If you have any questions, please contact me at (813) 871-5331 or at fabdalla@kcaeng.com.

Sincerely,

Fathy Abdalla, Ph.D., PE, PTOE
Project Manager

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

WORK EFFORT AND COST - PRIME CONSULTANT

Traffic Signal and Roadway Improvement Design
City of Cape Coral Public Works
Del Prado Boulevard at Averitt Boulevard Signal

Consultant Name: KCA
City City of Cape Coral
KCA Project No.: 001-202238

Date: 11/3/2022
Estimator: Fathy Abdalla

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager	Senior Engineer	Engineer	Engineer Intern	Senior Designer	Staff Classification 6	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
3. Project General and Project Common Tasks	34	9	10	15	0	0	0	0	0	0	0	0	0	34	\$7,080.19	\$208.24
4. Roadway Analysis	55	6	6	17	11	15	0	0	0	0	0	0	0	55	\$9,126.74	\$165.94
5. Roadway Plans	20	2	3	3	6	8	0	0	0	0	0	0	0	20	\$3,315.90	\$165.80
9. Structures - Misc, Tasks, Draw, Non-Tech.	6	0	1	2	1	2	0	0	0	0	0	0	0	6	\$938.70	\$156.45
18. Structures - Miscellaneous	28	1	4	5	9	7	0	0	0	0	0	0	0	28	\$4,123.08	\$148.58
19. Signing & Pavement Marking Analysis	19	1	2	7	4	5	0	0	0	0	0	0	0	19	\$3,018.39	\$158.88
20. Signing & Pavement Marking Plans	15	1	2	3	5	4	0	0	0	0	0	0	0	15	\$2,409.82	\$160.65
21. Signalization Analysis	119	6	12	42	24	35	0	0	0	0	0	0	0	119	\$18,789.14	\$157.72
22. Signalization Plans	59	3	9	12	17	18	0	0	0	0	0	0	0	59	\$9,448.14	\$160.14
23. Lighting Analysis	25	1	3	9	5	7	0	0	0	0	0	0	0	25	\$3,857.09	\$158.28
24. Lighting Plans	8	0	1	2	2	3	0	0	0	0	0	0	0	8	\$1,207.71	\$150.96
91. Post Design Services	28	4	6	6	6	6	0	0	0	0	0	0	0	28	\$5,000.00	\$179.43
Total Staff Hours	414	34	59	123	90	108	0	0	0	0	0	0	0	386		
Total Staff Cost		\$9,324.84	\$13,626.05	\$18,879.27	\$12,352.50	\$14,212.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$68,395.00	\$177.19

SALARY RELATED COSTS:	Check =	\$68,395.00
OVERHEAD:	0%	\$0.00
OPERATING MARGIN:	0%	\$0.00
FCCM (Facilities Capital Cost Mon	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
SUBTOTAL ESTIMATED FEE:		\$68,395.00
Subconsult CW3 for Utilities		\$4,725.00
Subconsult Echazabal & Associates for Survey and SUE		\$12,000.00
Geotechnical Field and Lab Te AREHNA, Inc.		\$7,295.00
SUBTOTAL ESTIMATED FEE:		\$92,415.00
GRAND TOTAL ESTIMATED FEE:		\$92,415.00

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Traffic Signal/Roadway Improvement Design
 County: Cape Coral
 FPN: RPW2230MM
 FAP No.: 1/0/1900

Consultant Name: CW3 Engineering, Inc.
 Consultant No.:
 Date: 8/22/2022
 Estimator: C. Wright, III

Staff Classification	Total Staff Hours From "SH Summary"	Principal	Project Manager	Sr. Degn Engr (PE)	Degn Engr (PE)	Degn Engr (EI)	CAD Designer	CAD Technician	Engineering Intern	Field Inspector	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$225.00	\$180.00	\$165.00	\$145.00	\$135.00	\$135.00	\$115.00	\$75.00	\$115.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	4	2	0	0	0	2	0	0	0	0	0	0	0	4	\$720	\$180.00
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	27	4	0	0	0	23	0	0	0	0	0	0	0	27	\$4,005	\$148.33
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	31	6	0	0	0	25	0	0	0	0	0	0	0	31		
Total Staff Cost		\$1,350.00	\$0.00	\$0.00	\$0.00	\$3,375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,725.00	\$152.42

Survey Field Days by Subconsultant
 4 - Person Crew:

Notes:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.

2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

1) UTILITY COORDINATION

This task will include contacting and providing information to utility providers that own or maintain facilities within and adjacent to the project area, all utility conflicts are to be addressed by UAO's. Activities include:

- Contact Sunshine \$11 to identify UAO's within the corridor
- Prepare contact letters to all affected utility owners, beginning with the design survey for markups by the respective utility owners.
- Conduct a Utility Kickoff Meeting, prepare agenda and meeting minutes.
- Conduct Field Visit and meet with UAO in field (up to 1 time total).
- Collect and Review Plans and Data from UAO's.
- Conduct a Utility Design Meeting, if necessary.
- Review and Coordinate Utility Markups provided by UAO's.
- Existing utility facilities requiring relocation will be designed by the utility owner. Utility relocation plans are not included in this scope of services.

SALARY RELATED COSTS:					
OVERHEAD:		0%			\$0.00
OPERATING MARGIN:		0%			\$0.00
FCCM (Facilities Capital Cost Money):		0.00%			\$0.00
EXPENSES:		0.00%			\$0.00
Survey (Field - if by Prime)	0	4-person crew days @	\$	-	/ day
SUBTOTAL ESTIMATED FEE:					\$4,725.00
Subconsultant: Enter Name Sub 1					\$0.00
Subconsultant: Sub 2					\$0.00
Subconsultant: Sub 3					\$0.00
Subconsultant: Sub 4					\$0.00
Subconsultant: Sub 5					\$0.00
Subconsultant: Sub 6					\$0.00
Subconsultant: Sub 7					\$0.00
Subconsultant: Sub 8					\$0.00
Subconsultant: Sub 9					\$0.00
Subconsultant: Sub 10					\$0.00
Subconsultant: Sub 11					\$0.00
Subconsultant: Sub 12					\$0.00
SUBTOTAL ESTIMATED FEE:					\$4,725.00
Geotechnical Field and Lab Testing					\$0.00
SUBTOTAL ESTIMATED FEE:					\$4,725.00
Optional Services					\$0.00
GRAND TOTAL ESTIMATED FEE:					\$4,725.00



ECHEZABAL & ASSOCIATES, INC.

Surveying & Mapping

108 W. Country Club Drive
2430 Estancia Blvd., Suite 202
1609 S. S.R. 15-A, Suite 7

Tampa, FL 33612
Clearwater, FL 33761
Deland, FL 32720

Phone: 813-933-2505
Phone: 727-796-8740
Phone: 386-736-1030

July 21, 2022

Dr. Fathy Abdalla, Ph.D., PE, PTOE
Traffic Engineering and Planning Department Manager
KCA
201 N. Franklin St., Suite 400
Tampa, FL 33602

RE: The City of Cape Coral / T.W.O. Averill Blvd. @ Del Prado Blvd. N.

Dr. Abdalla,

Thank you for the opportunity to submit a proposal for the above referenced project. As per your email dated July 15, 2022, a request for a Survey and SUE services proposal, and with the exhibits contained therein, we acknowledge and understand the scope of services and below is the fee schedule and services we will provide:

Design Survey Services

1. Survey limits are 200 ft. along Averill Blvd. and 400 ft. along Del Prado Blvd. N., from Right of Way to Right of Way.
2. Re-establish historic alignments for Averill Blvd. and Del Prado Blvd. N.
3. Re-establish Vertical Control and set TBM's within limits.
4. Establish and locate roadways Rights of Way and property corners.
5. Obtain Topography of all above ground features.
6. Obtain Rim and Invert information on Storm system.
7. Obtain Rim and Invert information on Wastewater structures.

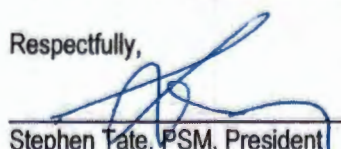
SUE Services

1. SUE Designation and test holes Excavation at two (2) mast arm locations.

Total Not to Exceed fee: \$ 12,000.00. Billing rates are attached.

If you have any questions or concerns, please, do not hesitate to give me a call or email.

Respectfully,


Stephen Tate, PSM, President
Chief Surveyor
Ph: 813-933-2505
E: state@echezabal.com



ECHEZABAL & ASSOCIATES, INC.

Surveying & Mapping

108 W. Country Club Drive
2430 Estancia Blvd., Suite 202
1609 S. S.R. 15-A, Suite 7

Tampa, FL 33612
Clearwater, FL 33761
Deland, FL 32720

Phone: 813-933-2505
Phone: 727-796-8740
Phone: 386-736-1030

Survey & SUE Current Rates 7/20/2022

	Chief Surveyor	Party Chief	SUE Tech 1	SUE Tech 3	Surveyor	Survey Rod	Survey Instrument	Survey/SUE Analyst 3
Raw Rate	\$67.00	\$29.00	\$16.50	\$24.00	\$44.50	\$16.00	\$21.10	\$37.00
Overhead	1.8863							
OM	0.305							
FCCM	0.00504							
Direct Exp.	0.206							
Multiplier	3.40234							
Loaded Hourly Rate	\$227.96	\$98.67	\$56.14	\$81.66	\$151.40	\$54.44	\$71.79	\$125.89

Survey Field Crew

		3 Person	4 Person
SUR Party Chief		\$98.67	\$98.67
SUR Instrument Person		\$71.79	\$71.79
SUR Rod Person		\$54.44	\$54.44
SUR Rod Person			\$54.44
	Loaded Hourly	\$224.90	\$279.34
8	Hours/Day	\$1,799.20	\$2,234.72

SUE Field Crews

		2-Person	3-Person
SUR Party Chief		\$98.67	\$98.67
SUR SUE Tech 3		\$81.66	\$81.66
SUR SUE Tech 1			\$81.66
	Loaded Hourly	\$180.33	\$261.99
8	Hours/Day	\$1,442.64	\$2,095.92

July 20, 2022

Fathy Abdalla Ph.D., PE, PTOE
Kisinger Campo & Associates
201 N. Franklin St., Suite 400
Tampa, Florida 33602

Via Email: FAbdalla@kcaeng.com

Subject: **Proposal for Geotechnical Engineering Services**
 Averill Blvd. & Del Prado Blvd. N. Mast Arms
 Averill Blvd. & Del Prado Blvd. N.
 Cape Coral, Florida
 AREHNA B.Prop-22-153

AREHNA Engineering, Inc. is pleased to present this proposal to provide geotechnical engineering services for the referenced project. This proposal summarizes our understanding of the project, presents our scope of services, and provides a proposed Not-To-Exceed (NTE) fee and schedule.

Project Description

The project site is located at the intersection of Averill Blvd. and Del Prado Blvd. N. in Cape Coral, Florida. The project includes two new mast arm structures.

Based on recent aerial images, the site appears the proposed mast arm locations will not require traffic lane closures to complete. Overhead utilities may require a slight offset (a few feet from the proposed mast arm foundation locations) to complete the borings. A drilling permit will be required to complete the field work. This proposal assumes that no traffic lane closures will be required to complete the field work.

Scope of Services

The purpose of our geotechnical study is to obtain information on the general subsurface soil conditions at the project site. The subsurface materials encountered will then be evaluated with respect to the available project characteristics. In this regard, engineering assessments for the following items will be formulated:

- Identification of the existing groundwater levels and estimated normal seasonal high groundwater fluctuations.
- General location and description of potentially deleterious materials encountered in the borings which may have an impact on the proposed construction.
- General geotechnical recommendations for the proposed construction.
- Recommended design soil parameters for the mast arm foundations (assumed to be drilled shafts).

The following services will be performed:

- Site reconnaissance and stake boring locations.
- Request 48-hour utility location services from Sunshine811.
- Obtain appropriate drilling permit to perform the requested services (obtaining this permit may require 2 or more weeks to complete).
- Perform a total of 2 Standard Penetration Test (SPT) borings to a depth of 30 feet at the project site. Samples will be collected, and Standard Penetration Test resistances measured continuously for the top ten feet and at approximate intervals of five feet, thereafter. Grout for backfill of the boreholes.
- Bulk sample collection within 1 to 2 feet of the surface for corrosivity lab testing.
- Visually classify and stratify soil samples in the laboratory using the Unified Soil Classification System and conduct a laboratory testing program.
- Report the results of the field exploration and engineering analysis. The results of the subsurface exploration will be presented in a written report signed and sealed by a professional engineer specializing in geotechnical engineering.

Schedule

We can perform the field work approximately four to five weeks from receiving the notice to proceed. During this time, the permit application will be submitted, the boring locations will be staked/marked and utility locates request will be submitted to Sunshine811. The field work should require approximately one day to complete, weather and access permitting. Our signed and sealed report should be available within three weeks after completion of the field work. Preliminary data may be provided prior to report completion, upon request.

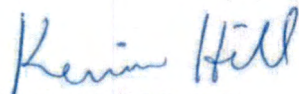
We assume that all work will be completed on or outside the shoulder with no maintenance of traffic or lane closures.

Service Fee

We propose to complete our geotechnical engineering services for a NTE fee of \$7,295. Please note that samples will be retained for 90 days after the date of the report and then disposed, unless other arrangements have been made.

We appreciate the opportunity to support you on this project. If you have any questions regarding this proposal, please do not hesitate to contact us at 813.944.3464.

Sincerely,
AREHNA Engineering, Inc.



Kevin M. Hill, P.E., PMP
Senior Geotechnical Engineer

Attachments: Staff Hour Estimate
 Fee Estimate



Fee Estimate

Proposal No.	Proposal Date
B.Prop-22-153	7/19/2022

PREPARED BY	PREPARED FOR
KH	KCA

SCOPE SUMMARY			
Item	Quantity	Depth (ft)	Total
SPT Borings (5ft Intervals)	2	30	60

A. ENGINEERING SERVICES		QUANTITY	UNIT TYPE	UNIT PRICE	SUBTOTAL
Sr. Project Manager		2	Hour	\$ 210.00	\$ 420.00
Senior Engineer 1		4	Hour	\$ 180.00	\$ 720.00
Project Engineer 1		6	Hour	\$ 125.00	\$ 750.00
Engineer 2		16	Hour	\$ 98.00	\$ 1,568.00
Sr. CAD Designer		6	Hour	\$ 90.00	\$ 540.00
Sr. Eng. Technician		4	Hour	\$ 75.00	\$ 300.00
Senior Clerical		2	Hour	\$ 60.00	\$ 120.00
		TOTAL ENGINEERING SERVICES		\$	4,418.00
B. FIELD SERVICES		QUANTITY	UNIT TYPE	UNIT PRICE	TOTAL COST
418 Geo Drill Crew Support Vehicle		1	Day	\$ 175.00	\$ 175.00
440 Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft		60	LF	\$ 6.00	\$ 360.00
478 Geo SPT Truck/Mud Bug 0-50 Ft		80	LF	\$ 14.75	\$ 865.00
514 Geo Truck/Mud Bug Mobil		1	Each	\$ 600.00	\$ 600.00
		TOTAL FIELD SERVICES		\$	2,020.00
C. LABORATORY SERVICES		QUANTITY	UNIT TYPE	UNIT PRICE	TOTAL COST
805 Soils Corrosion Series FM 5-550 through 5-553		2	Test	\$ 230.00	\$ 460.00
812 Soils Materials Finer than 200 Sieve FM 1-T011		4	Test	\$ 50.00	\$ 200.00
817 Soils Moisture Content Laboratory AASHTO T265		5	Test	\$ 16.00	\$ 80.00
819 Soils Organic Content Ignition FM 1 T-267		1	Test	\$ 47.00	\$ 47.00
826 Soils Plastic Limit & Plasticity Index AASHTO T90		1	Test	\$ 70.00	\$ 70.00
		TOTAL LABORATORY SERVICES		\$	857.00

For specific questions regarding this proposal, please contact:
Kevin Hill

Estimate Total \$ 7,295.00

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Averill Blvd. & Del Prado Blvd. N. Mast Arms
 County: Lee
 FPN:
 FAP No.:

Consultant Name: AREHNA Engineering, Inc.
 Consultant No.: B.Prop-22-153
 Date: 7/20/2022
 Estimator: Kevin Hill

Staff Classification	Total Staff Hours From "SH Summary Firm"	Sr. Project Manager	Senior Engineer 1	Project Engineer 1	Engineer 2	Sr. CAD Designer	Sr. Eng. Technician	Senior Clerical	0	0	0	0	0	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$210.00	\$180.00	\$125.00	\$98.00	\$90.00	\$75.00	\$60.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00			
35. Geotechnical	40	2	4	6	16	6	4	2	0	0	0	0	0	40	\$4,418	\$110.45
Total Staff Hours	40	2	4	6	16	6	4	2	0	0	0	0	0	40		
Total Staff Cost		\$420.00	\$720.00	\$750.00	\$1,568.00	\$540.00	\$300.00	\$120.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$4,418.00	\$110.45

Notes:

1. This sheet to be used by Subconsultant to calculate its fee.

Check = \$4,418.00									
SALARY RELATED COSTS:									\$4,418.00
OVERHEAD:			0%						\$0.00
OPERATING MARGIN:			0%						\$0.00
FCCM (Facilities Capital Cost Money):			0.00%						\$0.00
EXPENSES:			0.00%						\$0.00
SUBTOTAL ESTIMATED FEE:									\$4,418.00
Survey (Field)	0	4-person crew	\$	-	/ day				\$0.00
Geotechnical Field and Lab Testing									\$2,877.00
SUBTOTAL ESTIMATED FEE:									\$7,295.00
Optional Services									\$0.00
GRAND TOTAL ESTIMATED FEE:									\$7,295.00