

PINELLAS COUNTY GOVERNMENT IS COMMITTED TO PROGRESSIVE PUBLIC POLICY, SUPERIOR PUBLIC SERVICE, COURTEOUS PUBLIC CONTACT, JUDICIOUS EXERCISE OF AUTHORITY AND SOUND MANAGEMENT OF PUBLIC RESOURCES, TO MEET THE NEEDS AND CONCERNS OF OUR CITIZENS TODAY AND TOMORROW.



NON-CONTINUING PROFESSIONAL SERVICES AGREEMENT

**RFP TITLE: Relocate Airfield Electrical Vault at St. Pete-Clearwater International Airport -
Professional Engineering Services**

RFP CONTRACT NO. 189-0193-NC (SS)

NON-CONTINUING FIRM: AECOM Technical Services, Inc.

PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES SAMPLE AGREEMENT

TABLE OF CONTENTS

SECTION 1 INTENT OF AGREEMENT	3
SECTION 2 SCOPE OF PROJECT	4
2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS	4
2.2 PROJECT PHASES	4
2.3 CONSULTING RESPONSIBILITIES	4
2.4 GENERAL DESIGN CONDITIONS	5
2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS	5
SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT	5
3.1 SEE EXHIBIT A – SCOPE OF SERVICES	5
3.2 BIDDING PHASE	5
3.3 CONSTRUCTION PHASE	6
3.4 PROVISIONS RELATED TO ALL PHASES	7
3.5 PERMIT APPLICATIONS AND APPROVALS	8
3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES	8
SECTION 4 SERVICES TO BE FURNISHED BY THE COUNTY	8
SECTION 5 PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON	9
SECTION 6 PAYMENT GUIDELINES AND CATEGORY OF SERVICES	9
6.1 BASIC SERVICES	9
6.2 OPTIONAL SERVICES – Not Applicable	9
6.3 CONTINGENCY SERVICES	9
6.4 ADDITIONAL SERVICES	9
6.5 INVOICING	10
SECTION 7 COMPENSATION TO THE CONSULTANT	11
SECTION 8 PERFORMANCE SCHEDULE	11
SECTION 9 AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES	12
SECTION 10 FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES	12
SECTION 11 SATISFACTORY PERFORMANCE	12
SECTION 12 RESOLUTION OF DISAGREEMENTS	12
SECTION 13 CONSULTANT’S ACCOUNTING RECORDS	12
SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS	13
SECTION 15 INSURANCE COVERAGE AND INDEMNIFICATION	13
SECTION 16 EQUAL EMPLOYMENT OPPORTUNITY CLAUSE FOR CONTRACTS NOT SUBJECT TO EXECUTIVE ORDER 11246	13
SECTION 17 INDEPENDENT CONTRACTOR STATUS AND COMPLIANCE WITH THE IMMIGRATION REFORM AND CONTROL ACT OF 1986	13
SECTION 18 PROHIBITION AGAINST CONTINGENT FEE	14
SECTION 19 TRUTH IN NEGOTIATIONS	14
SECTION 20 SUCCESSORS AND ASSIGNS	14
SECTION 21 INTEREST ON JUDGMENTS	14
SECTION 22 TERMINATION OF AGREEMENT	14
SECTION 23 AGREEMENT TERM	15
SECTION 24 CONFLICT OF INTEREST	15
SECTION 25 ENTIRE AGREEMENT	15
SECTION 26 PUBLIC ENTITY CRIMES	15
SECTION 27 PUBLIC RECORDS	16
SECTION 28 CONTRACT PROVISIONS	16
SECTION 29 GOVERNING LAW AND AGREEMENT EXECUTION	17
ATTACHMENT A – FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS	

**SECTION 1
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR
RELOCATE AIRFIELD ELECTRICAL VAULT AT ST. PETE-CLEARWATER INTERNATIONAL
AIRPORT – PROFESSIONAL ENGINEERING SERVICES**

THIS AGREEMENT, entered into on the ____ day of ____, 2019, between PINELLAS COUNTY, a political subdivision of the State of Florida, hereinafter referred to as the COUNTY, represented by its Board of County Commissioners, and, AECOM Technical Services, Inc. with offices in Tampa, Florida hereinafter referred to as the CONSULTANT.

WITNESSETH, That:

WHEREAS, Pinellas County, herein referred to as the COUNTY, requires **PROFESSIONAL ENGINEERING SERVICES** associated with support to develop plans and specifications and perform all other professional engineering services as may be required during the construction of the relocation of the existing airfield electrical vault located at the St Pete-Clearwater International Airport, in Pinellas County, Florida

WHEREAS, the COUNTY desires the CONSULTANT provide PROFESSIONAL ENGINEERING SERVICES requisite to the development of the PROJECT; and

WHEREAS, the CONSULTANT has expressed the willingness and ability to provide the aforementioned Services; and

NOW THEREFORE, the COUNTY and the CONSULTANT, in consideration of the mutual covenants hereinafter set forth, agree as follows:

SECTION 2 SCOPE OF PROJECT

2.1 PROJECT DESCRIPTION AND PROFESSIONAL REQUIREMENTS

For the purposes of this Agreement the term PROJECT shall include all areas of proposed improvements, all areas that may reasonably be judged to have an impact on the PROJECT, and all PROJECT development phases and the services and activities attendant thereto. It is not the intent of this Agreement to identify the exact limits or details involved in providing satisfactorily completed PROJECT construction documents. The CONSULTANT shall provide the following professional services to prepare construction plans, specifications, and complete applications for and receive all federal, state, and local permits required for construction of the PROJECT. The PROJECT design shall be based on the following data:

All required permits shall be obtained by the engineering consultant. Plans shall be prepared in accordance with Civil 3D Pinellas County Requirements. Exhibit A, Scope of Services is attached.

a) Required Deliverables

- Civil 3D file (eTransmit) of construction plans and for each transmittal phase. The plans shall be provided electronically, plus two (2) paper prints signed and sealed by a Professional Engineer certified in the State of Florida.
- All technical specifications required for construction of project.

2.2 PROJECT PHASES

All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in Exhibit A.

2.3 CONSULTING RESPONSIBILITIES

- A. It is the intention of the COUNTY that the CONSULTANT is held accountable for its work, including checking and review of plans, and that submittals are complete.
- B. The CONSULTANT shall be responsible for the accuracy of the work and shall promptly correct its errors and omissions without additional compensation. Acceptance of the work by the COUNTY will not relieve the CONSULTANT of the responsibility for subsequent correction of any errors and the clarification of any ambiguities.
- C. The CONSULTANT represents that it has secured or will secure, at its own expense, all personnel necessary to complete this Agreement; none of whom shall be employees of or have any contractual relationship with the COUNTY. Primary liaison with the COUNTY will be through the CONSULTANT'S Project Manager. All of the services required hereunder will be performed by the CONSULTANT or under the CONSULTANT'S supervision, and all personnel engaged in the work shall be fully qualified and shall be authorized or permitted under law to perform such services.
- D. The CONSULTANT shall endorse all reports, calculations, contract plans, and survey data. Services shall be prepared under the direction of an engineer registered in the State of Florida and qualified in the required discipline. Products or services performed or checked shall be signed and sealed by the CONSULTANT'S Florida registered engineer.
- E. The CONSULTANT shall be responsible for the preparation of a PROJECT design schedule, prepared in Microsoft Project 2013 or later, which shows a breakdown of all tasks to be performed, and their relationship in achieving the completion of each phase of work. A bar chart schedule showing overall PROJECT time frames should also be prepared. These schedules must be submitted for COUNTY approval within ten (10) days of the initial PROJECT Notice to Proceed. These schedules will be used to verify CONSULTANT performance in relationship to Fees claimed and to allow the COUNTY'S Project Manager to monitor the CONSULTANT'S efforts. The CONSULTANT shall be responsible for any updates to these schedules and for documenting in writing to the COUNTY any major deviations in the actual versus estimated PROJECT time frames.

- F. The CONSULTANT shall respond, in writing, to all review comments made by the COUNTY, and shall incorporate appropriate design adjustments into the PROJECT, in a timely manner, resulting from the review exchange.

2.4 GENERAL DESIGN CONDITIONS

2.4.1 The CONSULTANT shall coordinate and solicit appropriate input, with the knowledge of the COUNTY.

2.4.2 All design data, plans, and drawings shall be delivered electronically and or on CD ROM formatted to .DXF or .DWG utilizing Civil 3D 2012 or later; as well as providing reproducible hard copies of plans and drawings. All specification and other documents shall be delivered electronically and or on a CD ROM, Microsoft Word & Excel format as required, as well as the reproducible hard copies.

2.4.3 One (1) original and nine (9) copies of all deliverables are required unless specific submittal requirements are specified elsewhere in this Agreement.

2.4.4 The CONSULTANT shall develop acceptable alternates to any and all design recommendations that may be declared unacceptable.

2.5 GOVERNING SPECIFICATIONS REGULATIONS AND PERTINENT DOCUMENTS

The PROJECT shall be designed by the CONSULTANT in accordance with applicable industry standards. The CONSULTANT shall be responsible for utilizing and maintaining current knowledge of any laws, ordinances, codes, rules, regulations, standards, guidelines, special conditions, specifications, or other mandates relevant to the PROJECT or the services to be performed.

SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT

3.1 SEE EXHIBIT A – SCOPE OF SERVICES.

3.2 BIDDING PHASE

The CONSULTANT shall prepare with the COUNTY'S assistance the necessary bidding information, bidding forms, the conditions of the contract, and the form of agreement between the COUNTY and the Contractor. The CONSULTANT also, shall bear the cost of two (2) complete sets of documents (plans and specifications), two (2) of which shall be signed and sealed by the CONSULTANT as original record sets for the PROJECT. Each sheet in the two (2) construction plans print sets shall be signed, sealed and dated. The title sheet only of the two (2) specifications sets shall be signed, sealed, and dated. Additionally, any required addenda shall be signed, sealed, and dated.

3.2.1 The CONSULTANT, following the COUNTY'S review of the Construction Documents and of the latest Statement of Probable Construction Cost, shall be available to assist the COUNTY in obtaining bids, and in preparing and awarding construction contracts for each bid package. The CONSULTANT shall assist conducting pre-bid conferences, and shall prepare a Bid Tabulation spreadsheet following receipt of bids.

3.2.2 If the Advertisement for bids has not commenced within sixty (60) days after the CONSULTANT submits the approved Construction Documents to the COUNTY, any fixed limit of Construction Cost established as a condition of this Agreement shall be adjusted to reflect any change in the general level of prices which may have occurred during that period of time in construction industry. The adjustment shall reflect changes between the date of submission of the Construction Documents to the COUNTY and the date on which the Advertisement for Bids occurred.

3.2.3 The CONSULTANT shall prepare any required addenda to construction plans and specifications on the PROJECT during the bidding phase affecting the CONSULTANT'S plans and specifications. The CONSULTANT shall also provide any addenda during the Construction Phase in sufficient quantity to distribute to all necessary parties as determined by the COUNTY. Addenda material shall be placed in envelopes by the CONSULTANT for mailing by the COUNTY. The CONSULTANT shall also furnish certified mail receipt material and prepare mailing labels. The COUNTY shall mail all addenda.

3.3 CONSTRUCTION PHASE

All contact and/or communication from the CONSULTANT to the Contractor shall be coordinated with the knowledge of the COUNTY.

A. Construction Consultation Services

1. Processing, review, approval and distribution of shop drawings, product data, samples and other submittals required by the Contract Documents.
2. Maintenance of master file of submittals with duplicate for COUNTY.
3. Construction Field Observation Services consisting of visits to the site as frequent as necessary, but not less than once every week, to become generally familiar with the progress and quality of the work and to determine in general if the work is proceeding in accordance with the Contract Documents and prepare related reports and communications. Provide written report of each visit. This field observation requirement shall include any sub-consultants at appropriate construction points.
4. Review for comment or approval any and all proposal requests, supplemental drawings and information and change orders.
5. Review for correctness Contractors pay requests for the COUNTY.
6. Prepare, reproduce and distribute supplemental drawings, specifications and interpretations in response to requests for clarification by the Contractor or the COUNTY as required by construction exigencies. Response to any request must be received by the COUNTY within twenty-four (24) hours of request, or the next available working day when the request is prior to a weekend or holiday.
7. Review, upon notice by the Contractor that work is ready for final inspection and acceptance.
8. Notify the COUNTY of any deficiencies found in follow-up reviews.
9. Evaluate all testing results and make recommendations to the COUNTY.
10. Assist in the establishment by the COUNTY of programs of operation and maintenance of the physical plant and equipment.
11. Arrange for and coordinate instructions on operations and maintenance of equipment in conjunction with manufacturer's representatives.
12. Prepare an operation and maintenance manual for the COUNTY'S use.
13. The CONSULTANT shall visit the project as necessary, but at a minimum of three (3) month, six (6) month and upon construction completion in order to certify that the permit conditions have been met satisfactorily. This shall not relieve the CONSULTANT of other needed visits to the project should specific issues arise.
14. Assistance in the training of the facility operation and maintenance personnel in proper operations, schedules, procedures and maintenance inventory.

15. Prepare as-built record drawings, based on information furnished by the Contractors including significant changes in the work made during construction. The CONSULTANT will provide one (1) set of signed and sealed prints and one (1) CADD disk of the as-built record construction documents.
16. Transmit certified as-built record drawings and general data, appropriately identified, to the COUNTY within thirty (30) days following completion of construction.
17. Consult with, and recommend solutions to, the COUNTY during the duration of warranties in connection with inadequate performance of materials, systems, and equipment under warranty.
18. Review facilities or equipment prior to expiration of warranty period(s) to ascertain adequacy of performance, materials, systems and equipment.
19. Document noted defects or deficiencies and assist the COUNTY in preparing instructions to the Contractor for correction of noted defects.
20. The Contractor shall provide the CONSULTANT with all the required project close out material for CONSULTANT'S use in the warranty period services.
21. The Contractor shall have prime responsibility in the warranty period for all services herein. The CONSULTANT shall assist, consult, observe review and document as noted.

3.4 PROVISIONS RELATED TO ALL PHASES

3.4.1 The CONSULTANT will investigate and confirm in writing to the COUNTY, to the best of the CONSULTANT'S knowledge, conformance with all applicable local public and utility regulations.

3.4.2 The CONSULTANT will coordinate work designed by various disciplines.

3.4.3 The CONSULTANT shall submit to the COUNTY design notes and computations to document the design conclusions reached during the development of the construction plans.

- a. Five (5) copies of the design notes and computations shall be submitted to the COUNTY with the design development review plans. When the plans are submitted for final review, the design notes and computations corrected for any COUNTY comments shall be resubmitted. At the PROJECT completion, a final set of the design notes and computations, properly endorsed by the CONSULTANT, shall be submitted with the record set of plans and tracings.
- b. The design notes and calculations shall include, but not be limited to, the following data:
 - 1) Design criteria used for the PROJECT.
 - 2) Roadway geometric calculations
 - 3) Structural calculations.
 - 4) Drainage calculations.
 - 5) Calculations as required by provisions of the Florida Energy Conservation Manual (Department of General Services), latest revision.
 - 6) Calculations showing probable cost comparisons of various alternatives considered.
 - 7) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
 - 8) Other PROJECT-related correspondences as appropriate.

3.4.4 Each set of plans for the PROJECT shall be accurate, legible, complete in design, suitable for bidding purposes and drawn to scales acceptable to the COUNTY. The completed plans shall be furnished on reproducible material and in a format, which is acceptable to the COUNTY.

3.4.5 The CONSULTANT shall make such reviews, visits, attend such meetings and conferences and make such contacts as are necessary for the proper preparation of plans and specifications for the PROJECT.

3.4.6 The COUNTY in no way obligates itself to check the CONSULTANT'S work and further is not responsible for maintaining project schedules.

3.4.7 Other CONSULTANT responsibilities shall be as listed below:

- a. Provide necessary sealed drawings to obtain building permits or any utility permit.
- b. Assist the COUNTY in Contractor claims and/or litigation.
- c. Review the Adequacy and completeness of documents submitted by the Contractor to protect the COUNTY against claims by suppliers or third parties.

3.4.8 The CONSULTANT must be familiar with the intent, thoroughness, safety factors and design assumptions of all structural calculations.

3.4.9 All work prepared and/or submitted shall be reviewed and checked by a CONSULTANT (Architect/Engineer) registered in Florida. All plans shall be signed and sealed by the Professional CONSULTANT in responsible charge.

3.5 PERMIT APPLICATIONS AND APPROVALS

3.5.1 The CONSULTANT shall prepare all permit applications, data and drawings required for submittal BY THE COUNTY for approval of local, state and federal agencies.

3.5.2 The CONSULTANT shall, at no additional cost to the COUNTY, make all reasonable and necessary construction plans revisions required to obtain the necessary permit approvals for construction of the PROJECT.

3.5.3 For the purpose of ensuring the timely approval of all permits necessary for the construction of the PROJECT, the CONSULTANT shall schedule the necessary contacts and liaison with all agencies having permit jurisdiction over the PROJECT, and shall furnish, on a timely basis, such plans, data and information as may be necessary to secure approval of the required permits.

3.6 COORDINATION WITH UTILITY SERVICES AND AFFECTED PUBLIC AGENCIES

3.6.1 The requirements of the various utility services shall be recognized and properly coordinated with the PROJECT design.

3.6.2 Drainage investigations and drainage design shall be coordinated with any city or drainage district that may be affected by or have an effect on the PROJECT.

SECTION 4 SERVICES TO BE FURNISHED BY THE COUNTY

4.1 The COUNTY shall provide the following for the CONSULTANT'S use and guidance:

- A. Copies of existing maps, existing aerial photographs, as-built construction plans and data pertinent to the PROJECT design, which the COUNTY may have in its possession.
- B. Reproducibles of the COUNTY Engineering Department Standard Drawings applicable to the PROJECT.
- C. Sample copies of the COUNTY standard contract documents and specifications.
- D. Preparation of legal (front-end) section of the specifications.

**SECTION 5
PRESENTATIONS, PUBLIC MEETINGS AND TECHNICAL LIAISON**

The following services shall be provided at no additional cost to the COUNTY:

5.1 Prior to the commencement of design activities, the COUNTY will conduct with the CONSULTANT a pre-design conference for the purpose of discussing issues relative to the PROJECT, plans preparation and submittal procedures and to convey to the CONSULTANT such items provided for under Section 4 as may be required and available at that time.

5.2 The CONSULTANT shall make presentations to the COUNTY'S Director of the Airport or designee as often as reasonably requested and at any point in the PROJECT development should issues arise which make additional presentations other than those listed elsewhere in this Agreement, in the COUNTY'S best interest.

5.3 The CONSULTANT shall participate in Monthly PROJECT Conferences with COUNTY staff personnel. The meetings will be scheduled by the COUNTY at a location provided by the COUNTY.

5.4 The CONSULTANT shall attend, as technical advisor to the COUNTY all meetings or hearings conducted by permitting agencies or public bodies in connection with any permit required for the construction of the PROJECT, and shall prepare all presentation aids, documents and data required in connection with such meetings or hearings, and at the discretion of the COUNTY, shall either plead the COUNTY'S case or provide engineering and technical assistance to the COUNTY in its pleading of the case.

5.5 The CONSULTANT shall keep accurate minutes of all meetings and distribute copies to all attending. These meetings shall be set up through the COUNTY and appropriate COUNTY staff shall attend.

**SECTION 6
PAYMENT GUIDELINES AND CATEGORY OF SERVICES**

6.1 BASIC SERVICES

The services described and provided for under Sections 2, 3 and Exhibit A shall constitute the Basic Services to be performed by the CONSULTANT under this Agreement.

6.2 OPTIONAL SERVICES – Not Applicable

Services noted in Exhibit A of this Agreement as "Optional" shall constitute the Optional Services to be performed by the CONSULTANT under this Agreement. Optional Services shall be rendered by the CONSULTANT only upon written authorization by the COUNTY'S Director of the Airport, or designee.

6.3 CONTINGENCY SERVICES

When authorized in writing by the COUNTY'S Director of the Airport or designee, the CONSULTANT shall furnish services resulting from unforeseen circumstances not anticipated under Basic Services due to minor changes in the PROJECT scope.

Compensation for any Contingency Services assignments shall be negotiated between the COUNTY and the CONSULTANT at the time the need for services becomes known.

6.4 ADDITIONAL SERVICES

When executed by the County Administrator or Board of County Commissioners as an amendment to this Agreement, the CONSULTANT shall provide such additional services as may become necessary because of changes in the Scope of PROJECT. Additional Services shall be classified as any change beyond the Contingency Services upset limit for compensation.

6.5 INVOICING

The CONSULTANT may submit invoices for fees earned on a monthly basis. Such invoicing shall be supported by a Progress Report showing the actual tasks performed and their relationship to the percentage of fee claimed for each phase. Billings within each phase of work shall be for the percentage of work effort completed to date for that phase. The COUNTY shall make payments to the CONSULTANT for work performed in accordance with the Local Government Prompt Payment Act, Section 218.70 et. seq., F.S.

The following services shall be considered reimbursable services and may be filled in full upon their completion and acceptance. The CONSULTANT shall provide copies of supporting receipts/invoices/billing documentation. Self-performed reimbursable work shall be reimbursed at the firm's standard hourly rates for all related services. A breakdown of man hours and billing rates shall be provided with each invoice. An hourly rate sheet is attached (Exhibit B).

- A. Contamination Assessments/Hazardous Material Analysis (if required).
- B. Payment of Permit Fees (if required).
- C. Printing and Binding Services.

Should an invoiced amount for fees earned appear to exceed the work effort believed to be completed, the COUNTY may, prior to processing of the invoice for payment, require the CONSULTANT to submit satisfactory evidence to support the invoice.

All progress reports shall be mailed to the attention of the designated Project Manager, Scott Yarley, PE, Clearwater, FL 33762.

SUPPLIER shall submit invoices for payment due as provided herein with such documentation as required by Pinellas County and all payments shall be made in accordance with the requirements of Section 218.70 et. seq, Florida Statutes, "The Local Government Prompt Payment Act." Invoices shall be submitted to the address below unless instructed otherwise on the purchase order, or if no purchase order, by the ordering department:

Finance Division Accounts Payable
Pinellas County Board of County Commissioners
P. O. Box 2438
Clearwater, FL 33757

Each invoice shall include, at a minimum, the Supplier's name, contact information and the standard purchase order number. The County may dispute any payments invoiced by SUPPLIER in accordance with the County's Dispute Resolution Process for Invoiced Payments, established in accordance with Section 218.76, Florida Statutes, and any such disputes shall be resolved in accordance with the County's Dispute Resolution Process.

Fees for contingent or additional services authorized shall be invoiced separately, and shall be due and payable in full upon the presentation of satisfactory evidence that the corresponding services have been performed.

SECTION 7 COMPENSATION TO THE CONSULTANT

7.1 For the BASIC SERVICES provided for in this Agreement, as defined in Section 3.10, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: One hundred and forty-seven thousand, four hundred forty-five dollars and 39/100 (\$147,445.39) for Task 1 – Scope of Services.
- A Lump Sum Fee of: One hundred and fifty-seven thousand, nine hundred and nineteen dollars and 50/100 (\$157,919.50) for Task 2 -Engineering Phase (60%).
- A Lump Sum Fee of: Eighty-nine thousand, four hundred and four dollars and 00/100 (\$89,404.00) for Task 3 Final Design (90%).
- A Lump Sum Fee of: Fifty thousand, six hundred and seventy-nine dollars and 00/100 (\$50,679.00) for Task 4 – Bid Documents (100%).
- A Lump Sum Fee of: Twenty thousand, thirty-four dollars and 00/100 (\$20,034.00) for Task 5 – Bidding Phase.
- A Lump Sum Fee of: One hundred and forty-three thousand, nine hundred and eighty-seven dollars and 00/100 (\$143,987.00) for Task 6 – Construction Phase.

The above fees shall constitute the total not to exceed amount of **six hundred and nine thousand, four hundred and sixty-eight dollars and 89/100 (\$609,468.89)** to the CONSULTANT for the performance of Basic Services. All man hours are billed per the established and agreed hourly rates. The hourly rates are fully loaded and include all labor, overhead, expenses and profit of any nature including travel within the Tampa Bay Metropolitan Statistical area. Travel outside of the Tampa Bay Metropolitan Statistical Area will be reimbursed in accordance with Section 112.061 F.S. and/or the County Travel Policy, as approved by the County.

7.2 For any CONTINGENCY SERVICES performed, the COUNTY agrees to pay the CONSULTANT, a negotiated fee based on the assignment, up to a maximum amount not to exceed fifty thousand dollars and 00/100 **(\$50,000.00)** for all assignments performed.

7.3 Total agreement amount **six hundred and fifty-nine thousand, four hundred and sixty-eight dollars and 89/100 (\$659,468.89)**.

7.4 For any ADDITIONAL SERVICES, the COUNTY agrees to pay the CONSULTANT a negotiated total fee based on the work to be performed as detailed by a written amendment to this Agreement.

7.5 In the event that this Agreement is terminated under the provisions of this contract the total and complete compensation due the CONSULTANT shall be as established by the COUNTY based on the COUNTY'S determination of the percentage of work effort completed to date of termination.

SECTION 8 PERFORMANCE SCHEDULE

Time is of the essence in this Agreement. The CONSULTANT shall plan and execute the performance of all services provided for in this Agreement in such manner as to ensure their proper and timely completion in accordance with the following schedule:

8.1 The services to be rendered by the CONSULTANT shall be commenced upon receipt from the COUNTY of written "NOTICE TO PROCEED."

8.2 All project phases shall be completed on or before the milestone dates provided in the COUNTY approved PROJECT design schedule referenced in 2.3 E.

8.3 The CONSULTANT shall not be held responsible for delays in the completion of the PROJECT design when the COUNTY causes such delays. The COUNTY reviews related to the above submittals shall not exceed twenty-one (21) days.

SECTION 9 AUTHORIZATION FOR CONTINGENT OR ADDITIONAL SERVICES

9.1 The CONTINGENCY services provided for under this Agreement shall be performed only upon prior written authorization from the Director of the Airport or designee.

9.2 The ADDITIONAL services provided for under this Agreement shall be performed only upon approval of the County Administrator or Board of County Commissioners.

9.3 The CONSULTANT shall perform no services contemplated to merit compensation beyond that provided for in this Agreement unless such services, and compensation therefore, shall be provided for by appropriate written authorization or amendment(s) to this Agreement.

SECTION 10 FIRMS AND INDIVIDUALS PROVIDING SUBCONSULTING SERVICES

The COUNTY reserves the right to review the qualifications of any and all subconsultants, and to reject any subconsultant in a proper and timely manner, deemed not qualified to perform the services for which it shall have been engaged. Any subconsultant not listed as part of the prime consultants team at time of award must be approved by the Director of Purchasing prior to performing any service.

SECTION 11 SATISFACTORY PERFORMANCE

All services to be provided by the CONSULTANT under the provisions of this Agreement, including services to be provided by subconsultants, shall be performed to the reasonable satisfaction of the COUNTY'S Director of the Airport or designee.

SECTION 12 RESOLUTION OF DISAGREEMENTS

12.1 The COUNTY shall reasonably decide all questions and disputes, of any nature whatsoever, that may arise in the execution and fulfillment of the services provided for under this Agreement.

12.2 The decision of the COUNTY upon all claims, questions, disputes and conflicts shall be final and conclusive, and shall be binding upon all parties to this Agreement, subject to judicial review.

SECTION 13 CONSULTANT'S ACCOUNTING RECORDS

13.1 Records of expenses pertaining to all services performed shall be kept in accordance with generally accepted accounting principles and procedures.

13.2 The CONSULTANT'S records shall be open to inspection and subject to examination, audit, and/or reproduction during normal working hours by the COUNTY'S agent or authorized representative to the extent necessary to adequately permit evaluation and verification of any invoices, payments or claims submitted by the CONSULTANT or any of his payees pursuant to the execution of the Agreement. These records shall include, but not be limited to, accounting records, written policies and procedures, subconsultant files (including proposals of successful and unsuccessful bidders), original estimates, estimating worksheets, correspondence, change order files (including documentation covering negotiated settlements), and any other supporting evidence necessary to substantiate charges related to this Agreement. They shall also include, but not be limited to, those records necessary to evaluate and verify direct and indirect costs (including overhead allocations) as they may apply to costs associated with this Agreement. The COUNTY shall not audit payroll and expense records on task assignments paid by lump sum fee.

13.3 For the purpose of such audits, inspections, examinations and evaluations, the COUNTY'S agent or authorized representative shall have access to said records from the effective date of the Agreement, for the duration of work, and until five (5) years after the date of final payment by the COUNTY to the CONSULTANT pursuant to this Agreement.

13.4 The COUNTY'S agent or authorized representative shall have access to the CONSULTANT'S facilities and all necessary records in order to conduct audits in compliance with this Section. The COUNTY'S agent or authorized representative shall give the CONSULTANT reasonable advance notice of intended inspections, examinations, and/or audits.

SECTION 14 OWNERSHIP OF PROJECT DOCUMENTS

Upon completion or termination of this Agreement, all records, documents, tracings, plans, specifications, maps, evaluations, reports and other technical data, other than working papers, prepared or developed by the CONSULTANT under this Agreement shall be delivered to and become the property of the COUNTY. The CONSULTANT, at its own expense, may retain copies for its files and internal use. The COUNTY shall not reuse any design plans or specifications to construct another project at the same or a different location without the CONSULTANT'S specific written verification, adaptation or approval.

SECTION 15 INSURANCE COVERAGE AND INDEMNIFICATION

15.1 The Consultant must maintain insurance in at least the amounts required in the Request for Proposal throughout the term of this contract. The contractor must provide a Certificate of Insurance in accordance with Insurance Requirements of the Request for Proposal, evidencing such coverage prior to issuance of a purchase order or commencement of any work under this Contract. See Section C Insurance Requirements – Attached

15.2 If the CONSULTANT is an individual or entity licensed by the state of Florida who holds a current certificate of registration under Chapter 481, Florida Statutes, to practice architecture or landscape architecture, under Chapter 472, Florida Statutes, to practice land surveying and mapping, or under Chapter 471, Florida Statutes, to practice engineering, and who enters into a written agreement with the COUNTY relating to the planning, design, construction, administration, study, evaluation, consulting, or other professional and technical support services furnished in connection with any actual or proposed construction, improvement, alteration, repair, maintenance, operation, management, relocation, demolition, excavation, or other facility, land, air, water, or utility development or improvement, the CONSULTANT will indemnify and hold harmless the COUNTY, and its officers and employees, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of the Agreement.

SECTION 16 EQUAL EMPLOYMENT OPPORTUNITY CLAUSE FOR CONTRACTS NOT SUBJECT TO EXECUTIVE ORDER 11246

In carrying out the contract, the CONSULTANT shall not discriminate against employee or applicant for employment because of race, color, religion, sex or national origin.

SECTION 17 INDEPENDENT CONTRACTOR STATUS AND COMPLIANCE WITH THE IMMIGRATION REFORM AND CONTROL ACT OF 1986

CONSULTANT acknowledges that it is functioning as an independent Consultant in performing under the terms of this Agreement, and it is not acting as an employee of COUNTY. CONSULTANT acknowledges that it is responsible for complying with the provisions of the Immigration Reform and Control Act of 1986, located at 8 U.S.C. Section 1324, *et seq.*, and regulations relating thereto. Failure to comply with the above provisions of this contract shall be considered a material breach and shall be grounds for immediate termination of the contract.

**SECTION 18
PROHIBITION AGAINST CONTINGENT FEE**

The CONSULTANT warrants that he has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure this Agreement, and that he has not paid or agreed to pay any person, company, corporation, individual, or firm other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement.

**SECTION 19
TRUTH IN NEGOTIATIONS**

By execution of this Agreement, the CONSULTANT certifies to truth-in-negotiations and that wage rates and other factual unit costs supporting the compensation are accurate, complete and current at the time of contracting. Further, the original contract amount and any additions thereto shall be adjusted to exclude any significant sums where the COUNTY determines the contract price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. Such adjustments must be made within one (1) year following the end of the contract.

**SECTION 20
SUCCESSORS AND ASSIGNS**

The CONSULTANT shall not assign, sublet, or transfer his interest in this Agreement without the written consent of the COUNTY.

**SECTION 21
INTEREST ON JUDGMENTS**

In the event of any disputes between the parties to this Agreement, including without limitation thereto, their assignees and/or assigns, arising out of or relating in any way to this Agreement, which results in litigation and a subsequent judgment, award or decree against either party, it is agreed that any entitlement to post judgment interest, to either party and/or their attorneys, shall be fixed by the proper court at the rate of five percent (5%), per annum, simple interest. Under no circumstances shall either party be entitled to pre-judgment interest. The parties expressly acknowledge and, to the extent allowed by law, hereby opt out of any provision of federal or state statute not in agreement with this paragraph.

**SECTION 22
TERMINATION OF AGREEMENT**

22.1 The COUNTY reserves the right to cancel this Agreement, without cause, by giving thirty (30) days prior written notice to the CONSULTANT of the intention to cancel. Failure of the CONSULTANT to fulfill or abide by any of the terms or conditions specified shall be considered a material breach of contract and shall be cause for immediate termination of the contract at the discretion of COUNTY. Alternatively, at the COUNTY'S discretion, the COUNTY may provide to CONSULTANT thirty (30) days to cure the breach. Where notice of breach and opportunity to cure is given, and CONSULTANT fails to cure the breach within the time provided for cure, COUNTY reserves the right to treat the notice of breach as notice of intent to cancel the Agreement for convenience.

22.2 If COUNTY terminates the Agreement for convenience, other than where the CONSULTANT breaches the Agreement, the CONSULTANT'S recovery against the COUNTY shall be limited to that portion of the CONSULTANT'S compensation earned through date of termination, together with any costs reasonably incurred by the CONSULTANT that are directly attributable to the termination. The CONSULTANT shall not be entitled to any further recovery against the COUNTY, including but not limited to anticipated fees or profit on work not required to be performed.

22.3 Upon termination, the CONSULTANT shall deliver to the COUNTY all original papers, records, documents, drawings, models, and other material set forth and described in this Agreement.

22.4 In the event that conditions arise, such as lack of available funds, which in the COUNTY'S opinion make it advisable and in the public interest to terminate this Agreement, it may do so upon written notice.

SECTION 23 AGREEMENT TERM

This Agreement will become effective on the date of execution first written above and shall remain in effect for five hundred fifty (**550**) consecutive calendar days from the commencement date on the Notice to Proceed unless terminated at an earlier date under other provisions of this Agreement, or unless extended for a longer term by amendment.

SECTION 24 CONFLICT OF INTEREST

24.1 By accepting award of this Contract, the CONSULTANT, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of services required hereunder, including as described in the CONSULTANT'S own professional ethical requirements. An interest in a business or activity which shall be deemed a conflict includes but is not limited to direct financial interest in any of the material and equipment manufacturers suppliers, distributors, or contractors who will be eligible to supply material and equipment for the PROJECT for which the CONSULTANT is furnishing its services required hereunder.

24.2 If, in the sole discretion of the County Administrator or designee, a conflict of interest is deemed to exist or arise during the term of the contract, the County Administrator or designee may cancel this contract, effective upon the date so stated in the Written Notice of Cancellation, without penalty to the COUNTY.

SECTION 25 ENTIRE AGREEMENT

This Agreement represents, together with all Exhibits and Appendices, the entire written Agreement between the COUNTY and the CONSULTANT and may be amended only by written instrument signed by both the COUNTY and the CONSULTANT.

SECTION 26 PUBLIC ENTITY CRIMES

CONSULTANT is directed to the Florida Public Entity Crime Act, Fla. Stat. 287.133, and Fla. Stat. 287.135 regarding Scrutinized Companies, and CONSULTANT agrees that its bid and, if awarded, its performance of the agreement will comply with all applicable laws including those referenced herein. CONSULTANT represents and certifies that CONSULTANT is and will at all times remain eligible to bid for and perform the services subject to the requirements of these, and other applicable, laws. CONSULTANT agrees that any contract awarded to CONSULTANT will be subject to termination by the County if CONSULTANT fails to comply or to maintain such compliance.

**SECTION 27
PUBLIC RECORDS**

Consultant acknowledges that information and data it manages as part of the services may be public records in accordance with Chapter 119, Florida Statutes and Pinellas County public records policies. Contractor agrees that prior to providing services it will implement policies and procedures to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies, including but not limited to the Section 119.0701, Florida Statutes. Notwithstanding any other provision of this Agreement relating to compensation, the Consultant agrees to charge the County, and/or any third parties requesting public records only such fees allowed by Section 119.07, Florida Statutes, and County policy for locating and producing public records during the term of this Agreement.

CONTRACTOR'S DUTY

If the contractor has questions regarding the application of Chapter 119, Florida Statutes, to the Contractor's duty to provide public records relating to this contract, contact the Pinellas County Board of County Commissioners, Purchasing Department, Operations Manager custodian of public records at 727-464-3311, purchase@pinellascounty.org, Pinellas County Government, Purchasing Department, Operations Manager, 400 S. Ft. Harrison Ave, 6th Floor, Clearwater, FL 33756.

**SECTION 28
CONTRACT PROVISIONS**

The CONSULTANT acknowledges that there may be Federal and/or State requirements for the services related to this Agreement. These additional contract provisions, include but are not limited to those shown in Attachment A. Attachment A is hereby incorporated into this Agreement.


**SECTION 29
GOVERNING LAW AND AGREEMENT EXECUTION**

This Agreement shall be governed by the laws of the State of Florida.

IN WITNESS WHEREOF, the parties herein have executed this Agreement as of the day and year first written above.

Firm Name: AECOM Technical Services, Inc.

PINELLAS COUNTY, by and through its Board of County Commissioners

By: 
Print Name: Steven Henriquez, P.E.
Title: Vice President Date: 10/9/19

By: _____
Name _____ Date: _____
Chairman

ATTEST:
Ken Burke, Clerk of the Circuit Court

By: _____
Deputy Clerk _____ Date: _____

APPROVED AS TO FORM

By: 
Office of the County Attorney

Attachment "A"
St. Pete-Clearwater International Airport
FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

1. **GENERAL CIVIL RIGHTS PROVISIONS.** The contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefitting from Federal assistance.

2. **COMPLIANCE WITH NONDISCRIMINATION REQUIREMENTS.** During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

Exhibit "A"

St. Pete-Clearwater International Airport

FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
- a. Withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. Cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation – Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;

Exhibit "A"
St. Pete-Clearwater International Airport
FAA CIVIL RIGHTS AND NONDISCRIMINATION REQUIREMENTS

- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 - 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).



**RELOCATE AIRFIELD ELECTRICAL VAULT
AT
ST. PETE-CLEARWATER INTERNATIONAL
AIRPORT**

CONTRACT NO. 189-0193-NC(SS)

SCOPE OF WORK

Prepared By:
AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607-1462

August 8, 2019

PROJECT ELEMENTS AND OBJECTIVES

The existing vault building dates back to the 1950's and is well over 50 years old. It is a concrete masonry unit structure that has had at least one addition over the years. The vault sits immediately south of the passenger terminal building, west of the commercial aircraft parking apron, and sits on the lowest point on the concrete apron. Unfortunately, due to the location of the vault, the building is the first area to flood during periods of heavy rain, as occurred as recently as January 2019. Relocation of this vault away from a flood-prone area is critical to the continued operation of the airfield electrical system.

Additionally, further expansion of the vault to support continued airfield development is impractical at the existing location. The design objectives shall include plans to facilitate the construction and includes the following:

- Perform preliminary investigations of two potential sites for the new vault, one near Taxiway N, and the second near the new airport maintenance building. Site layout concepts and cost estimates will be developed for County review and consideration. Preliminary work will include soil investigations and site survey.
- Once the location has been selected by the County, the final facility size, layout and access will be determined. Subsurface utility engineering (SUE) locations will be completed on this selected site. Site civil work consideration shall include fuel truck and fire truck access and circulation, auto parking for three vehicles, finish floor 100 year floodplain elevation requirements, utility infrastructure including water, power and fiber, site grading, access roadway, fencing, drainage, stormwater management system and permitting. The work will not include site screening or concealment or any landscape or irrigation. Sidewalks and exterior lighting will be included.
- The new airfield lighting vault must be designed to current FAA requirements and in accordance with all state and local building codes and regulations. The structural design of the foundation, walls and roof systems must meet hurricane wind load design requirements. The facility rooms will include electrical equipment vault with room for 16 regulators (12 current plus 4 future), generator room and work/office/storage room. The facility design shall incorporate construction phasing to minimize disruption of operations and power to the existing airfield lighting. The facility's interior and exterior finishes will be

painted. Doors shall meet hurricane resistant design criteria. The facility will not have windows. Emergency signage will be incorporated as required. 5000KVA Floor Matting will be specified and ArcFlash testing and labeling completed.

- The facility's interior communication and electrical systems will include electrical distribution systems (switchboards, panelboards, transformers, etc.) interior and exterior LED lighting systems, interior power system, lightning protection and grounding, and data/telecom capability. Security access will be simple lock and key, Best interchangeable core-7 pin system or as further defined by the County. This work includes design and coordination for underground electrical and communication services to the facility.
- The facility's mechanical system will include fire protection to meet code. A clean agent fire protection system will be specified.
- An emergency power supply system to include back-up generator with maintenance by-pass switch, automatic transfer switch, fuel storage tank, and load bank connection for testing the emergency system. Remote monitoring of the generator from the new facilities building will be included. If possible, the monitoring system will "text" notify when the generator is running.
- New airfield lighting equipment installation within new facility lighting vault will include, but not be limited to, re-installation of all salvaged lighting vault equipment, replacement of existing airfield lighting regulators (if needed due to inefficiency or past useable life), and switches, etc. Installation of primary and secondary conductors and/or duct banks routed through existing manholes and/or associated equipment, connecting/extending to route the existing airfield lighting circuits from existing manholes and site to new facility, installing new primary service transformer (if necessary) to provide 480 volts interior power distribution for airfield lighting regulators, and automatic transfer switches and back-up generators. AECOM will coordinate with Duke Energy on required service and new transformer, and anticipated cost, should the new service be required.
- New airfield lighting system controls from new lighting vault to the Air Traffic Control Tower (ATCT). Airfield lighting system shall be designed/modified with capability to be operated at both the lighting vault facility and ATCT. Work will include modification of the existing lighting controls located in the ATCT to provide touch screen controls, new touch screen controls in the lighting vault,

and mobile remote control as well. Develop plans for the airfield lighting control systems including existing and proposed manholes/duct banks. Work will include plans for routing new airfield lighting and control circuits through existing and proposed manholes to new lighting vault facility. Include plans for the ATCT and lighting vault control system modifications. It is noted the software is proprietary and AECOM will need to coordinate with the vendor.

- Permitting will include NPDES notice of intent, SWFWMD Permit modification, and Pinellas County Building permit and site plan permit.
- Design for construction of new airfield cable runs and connection to existing airfield circuits. This includes investigation of existing duct banks for capacity and installation of new duct bank and manhole system as required for existing and master planned airfield circuits. There are 14 active circuits and 2 proposed. Space for a minimum of 2 additional circuits shall be considered.
- Demolish the existing airfield lighting vault. Work will include the evaluation of and salvaging re-usable existing electrical lighting and distribution equipment to include: main distribution transformer, bus bars, generators, fuel storage tanks, load banks and associated power feeds. Develop plans for the demolition of the existing airfield lighting vault to include the removal of entire structure, foundation, fuel storage tanks, site amenities, connecting utilities and restoration of the sites grades and paving. The building will be tested for asbestos and lead paint, and mitigated if found. Old PCB regulators shall be identified, tested, and replaced. The drawings will require the contractor to remove old PCB regulators and dispose of them off airport property in a legal manner. Demolition will be phased to start once the new facility is active and operational. Temporary generator power will be specified if required.
- Repurpose the existing stand by generator for the life-safety portion of the terminal building. This will be an optional design service and the location for the generator and fuel tank will be subject of further discussion with the County.

1.0 SCOPE OF SERVICES

1.1 Site Selection / Conceptual Planning:

- **AECOM** will attend the kickoff meeting to discuss the project and set goals and expectations. Schedule for the Site Selection / Conceptual Phase will be provided and discussed.
- Review requirements for the proposed airfield vault facility, general layout, room sizes, space requirements, special needs for the facility (COMM, electrical, etc.). Develop a concept floor plan of the proposed airfield vault facility.
- **AECOM** will provide a conceptual layout of the building and site to the **COUNTY** for approval.
- **Topographic Survey / Geotechnical Investigation / Environmental Investigation:** A field survey will be conducted for the two locations proposed and existing airfield lighting vault facilities to establish site grades, develop subsurface utility investigation, identify existing site conditions and area features.

A subsurface investigation and geotechnical report will be prepared for the design of the proposed airfield vault facility foundation. The investigation will include three (3) 25-foot standard penetration soil borings and four (4) hand augers at each proposed site. The report will summarize the findings of the subsurface investigation and present recommendations for the site preparation, design of the facility foundation, construction dewatering requirements and pavements.

- **AECOM** will research the two sites and provide preliminary layouts of the building and sitework for those two locations. **AECOM** will present this information to the **COUNTY** in a meeting held at the Airport.
- **AECOM** will provide a summary report of the two options and provide a recommendation of the preferred location based on agreed upon criteria. A meeting will be held at the airport to discuss the report. **COUNTY** will select the proposed site location which will start the design process.

1.2 Engineering Study/Preliminary Design Phase (30%):

- **AECOM** will develop a preliminary project schedule and will meet with the **COUNTY** at the Airport to review the schedule and confirm the design goals. This meeting will include the Project Manager and all support design disciplines. This meeting will be used to:

- Identify the appropriate design requirement and constraints with County Building Department and Fire Marshall.
 - Review furnished record drawings and reports.
 - Identify the elements affecting the design, including but not limited to programming and funding requirements, architectural vernacular on the new building, identify existing site conditions, identify construction phasing requirements, environmental conditions and permits, and operational requirements.
 - Collect data to identify critical product/equipment criteria, critical milestones, and items of particular user interest.
 - Gain an understanding of the terminal emergency power circuits currently connected to the airfield emergency generator system.
- 1.3 **Existing Conditions Walkthrough:** A field review will be conducted to review the existing facilities, confirm existing lighting vault equipment and its condition, confirm as-built configuration of the airfield and taxiway lighting circuit network and review proposed location (two) of new lighting vault. This time will be used to develop a scope of work for a detailed site survey of the airfield lighting conductors, grounding, duct bank and lighting control system infrastructures. Also, determine non airfield emergency power circuits currently connected to the system and replacement requirements.
- 1.4 **Design Charrette:** **AECOM** will conduct a design charrette with the **COUNTY** to develop and/or verify the project parameters. This will include building requirements and layout, airfield lighting design elements, and airfield lighting control system preferences and options, repurposing of equipment and recommendations on new equipment.
- 1.5 **Basis of Design Report:** The data collected from the Planning Phase will be summarized into Basis of Design Report. The report shall include project narrative, design criteria, meeting minutes from Pre-Planning Meeting, survey data, preliminary design calculations, proposed equipment cut-sheets (manufacturer's model with size, capacity and performance data), geotechnical investigation report and preliminary cost estimate for the project. The report will include a site plan, floor plan and building elevation of the facility concept design. The report will summarize our understanding of the requirements for: Facility (space, furnishing/equipment

requirements), Structural, Mechanical (HVAC, plumbing, Fire Protection), Electrical, Electronic/Communications, Environmental and other miscellaneous needs. Also included will be the site survey of the existing and new manhole/duct bank layout for the airfield lighting controls. A site recommendation will be made.

2.0 ENGINEERING PHASE (60%)

- 2.1 Collect engineering data and undertake field investigation not included in the Preliminary Phase.
- 2.2 Provide general consultation and advice to the **COUNTY** with respect to the final design of the project, including meetings and design conferences to obtain information and to coordinate or resolve final design matters.
- 2.3 60% Design Phase: As part of the design, **AECOM** will prepare the civil, structural, architectural, mechanical, fire protection, and electrical design for constructing the airfield lighting vault facility and airfield lighting controls.
- 2.4 Preliminary meetings will be held with both the Pinellas County Building Department and the Fire Marshall to describe the project and discuss the requirements of each.
- 2.5 Project technical specifications will be prepared using both the FAA technical specifications and the Construction Specification Institute, as appropriate. Front end bid documents will be prepared by the **COUNTY**.
- 2.6 A Construction Safety Phasing Plan will be developed and coordinated with Airport Operations.
- 2.7 A 7460-1 Notice of Proposed Construction will be developed and submitted on line for airspace approval for both temporary and permanent facilities.
- 2.8 An engineering report with preliminary cost estimate will be developed and will describe and justify the proposed design of the project.
- 2.9 After submittal of the documents, **AECOM** will meet with the **COUNTY** to review comments on the 60% submittal, and will prepare a response to each comment. Meeting notes will be taken and distributed.

2.10 The Southwest Florida Management District (SWFWMD) permit will be completed and submitted.

3.0 FINAL DESIGN (90%)

3.1 **90% Design Plans:** **AECOM** will incorporate changes from the 60% design review meeting and other applicable comments. **AECOM** will further design the civil, structural, architectural, mechanical, and electrical design to the 90% level.

3.2 **90% Design Review / Comments / Meeting:** **AECOM** will document comments from the 90% submittal, prepare a response to each comment, and attend a meeting to discuss the 90% plans. **AECOM** will prepare an agenda, be prepared to discuss project specifics, and distribute meeting notes.

4.0 BID DOCUMENTS (100%)

4.1 **Final Design Plans:** **AECOM** will prepare civil, structural, architectural, mechanical, fire protection, and electrical design necessary to prepare analysis, calculations and construction documents for constructing the airfield lighting vault facility and airfield lighting controls. Construction documents shall be adequate for use by the **COUNTY** to advertise and administer a construction contract.

4.2 **Final Design Review / Comments / Meeting:** **AECOM** will document comments from the final submittal, prepare a response to each comment, and attend a meeting to discuss the final plans. **AECOM** will prepare an agenda, be prepared to discuss project specifics, and distribute meeting notes.

4.3 **AECOM** will submit the documents to the Pinellas County Building Department to obtain pre-permit review comments prior to advertising for bids. All comments will be addressed.

5.0 BIDDING PHASE

AECOM shall prepare, with the **COUNTY'S** assistance, the necessary bidding information, bidding forms, the conditions of the contract, and the form of agreement between the **COUNTY** and the Contractor. **AECOM** also shall bear the cost of four (4) complete sets of documents (plans and specifications), two (2) of which shall be signed and sealed as original record sets for the project. Each sheet in the two (2) construction plans print sets shall be signed, sealed and dated. The title sheet only of the two (2) specifications sets shall be signed, sealed, and dated. Additionally, any required addenda shall be signed, sealed, and dated.

- 5.1 Following the **COUNTY'S** review of the Construction Documents and of the latest Statement of Probable Cost, **AECOM** shall be available to assist the **COUNTY** in obtaining bids, and in preparing and awarding construction contracts for the bid package. **AECOM** shall assist in conducting the pre-bid conference, and shall prepare the Bid Tabulation spreadsheet following receipt of bids.
- 5.2 If the Advertisement for Bids has not commenced within sixty (60) days after **AECOM** submits the approved Construction Documents to the **COUNTY**, any fixed limit of Construction Cost established as a condition of this Agreement shall be adjusted to reflect any change in the general level of prices which may have occurred during the period of time in construction industry. The adjustment shall reflect changes between the date of submission of the Construction Documents to the **COUNTY** and the date on which the Advertisement for Bids occurred.
- 5.3 **AECOM** shall prepare any required addenda to construction plans and specifications on the project during the bidding phase affecting **AECOM'S** plans and specifications. **AECOM** shall also provide any addenda during the Construction Phase in sufficient quantity to distribute to all necessary parties as determined by the **COUNTY**. **AECOM** shall also furnish certified mail receipt material and prepare mailing labels. The **COUNTY** shall mail all addenda.

6.0 CONSTRUCTION PHASE

All contact and/or communication from **AECOM** to the Contractor shall be coordinated with the knowledge of the **COUNTY**.

- 6.1 **AECOM** shall attend and assist the **COUNTY** at the Pre-Construction Conference.
- 6.2 Processing, review, approval and distribution of shop drawings, product data, samples and other submittals required by the Contract Documents.
- 6.3 Maintenance of master file of submittals with duplicate for **COUNTY**.
- 6.4 Construction Field Observation Services consisting of visits to the site as frequent as necessary, but not less than once a month, to become generally familiar with the progress and quality of the work and to determine in general if the work is proceeding in accordance with the Contract Documents and prepare related reports and communications. Provide written report of each visit. This field observation requirement shall include any subconsultants at appropriate construction points. A six month construction period is assumed for budgeting purposes. AECOM will call into weekly project meetings and attend at least one meeting a month.
- 6.5 Review for comment or approval any and all proposal requests, supplemental drawings and information and change orders.
- 6.6 Review for correctness Contractors pay requests for the **COUNTY**.
- 6.7 Perform quality assurance testing of materials and construction work as required to assure project construction, in accordance with the documents.
- 6.8 Prepare, reproduce and distribute supplemental drawings, specifications and interpretations in response to request for clarification by the Contractor or the **COUNTY** as required by construction exigencies. Response to any request must be received by the **COUNTY** within twenty-four (24) hours of request, or the next available working day when the request is prior to a weekend or holiday.
- 6.9 Review, upon notice by the Contractor that work is ready for final inspection and acceptance.
- 6.10 Notify the **COUNTY** of any deficiencies found in follow-up reviews.
- 6.11 Evaluate all testing results and make recommendations to the **COUNTY**.

- 6.12 Assist in the establishment by the **COUNTY** of programs of operation and maintenance of the electrical vault and equipment.
- 6.13 Arrange for and coordinate instructions on operations and maintenance of equipment in conjunction with manufacturer's representatives.
- 6.14 Review the operation and maintenance manual provided by the contractor for the **COUNTY's** use.
- 6.15 Prepare record drawings in reproducible form based upon information provided by the contractor of those facilities for which design plans were prepared by **AECOM**.
- 6.16 **AECOM** shall visit the project as necessary, but at a minimum of three (3) months, six (6) months and upon construction completion in order to certify that the permit conditions have been met satisfactorily. This shall not relieve **AECOM** of other needed visits to the project should specific issues arise.
- 6.17 Assistance in the training of the facility operation and maintenance personnel in proper operations, schedules, procedures and maintenance inventory.

7.0 AECOM ASSUMPTIONS AND LIMITATIONS

- AECOM will not perform any airfield shutdowns and no shutdowns are anticipated by the COUNTY.
- AECOM will not enter electrified manholes or any manholes requiring confined space entry.
- AECOM will perform location, general quality, and nominal capacity of electrical manholes that are accessible by up to 2 people.
- Circuit verification and testing will be conducted only at the existing electrical vault and manholes, only if the circuits have been previously and are currently labelled.

The evaluation of existing electrical lighting and distribution equipment as to suitability for salvage and reuse shall be limited to a general conditions assessment based on one or

more of the following: (1) direct visual observation without disassembly or testing; (2) functional performance based on discussions with the users and maintenance personnel; (3) age, serviceability, and ability to source replacement components; and (4) impact to operations during transition from the existing airfield lighting vault to the new airfield lighting vault.

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019

AECOM COST SUMMARY

AID COST SUMMARY

COST SUMMARY

TASK NO.	TASK DESCRIPTION	MANHOURS	AECOM TASK TOTAL	SUBCONSULTANT TASK TOTAL	AECOM TASK TOTAL	MANHOURS	AID TASK TOTAL	SUBCONSULTANT TASK TOTAL	AID TASK TOTAL	TASK TOTAL MANHOURS	TASK TOTAL
1.0	Scope of Services	919	\$124,627.50	\$5,070.00	\$129,697.50	94	\$14,060.00	\$3,687.89	\$17,747.89	1,013	\$147,445.39
2.0	Engineering Phase (60%)	1,053	\$136,383.50	\$ -	\$136,383.50	-	\$21,536.00	\$ -	\$21,536.00	1,053	\$157,919.50
3.0	Final Design (90%)	640	\$83,048.00	\$ -	\$83,048.00	60	\$6,356.00	\$ -	\$6,356.00	700	\$89,404.00
4.0	Bid Documents (100%)	331	\$43,629.00	\$ -	\$43,629.00	62	\$7,050.00	\$ -	\$7,050.00	393	\$50,679.00
5.0	Bidding Phase	120	\$16,856.00	\$ -	\$16,856.00	30	\$3,178.00	\$ -	\$3,178.00	150	\$20,034.00
6.0	Construction Phase	919	\$130,217.00	\$ -	\$130,217.00	84	\$10,440.00	\$3,330.00	\$13,770.00	1,003	\$143,987.00
				\$ -							
TOTAL		3,981	\$534,761.00	\$5,070.00	\$539,831.00	330	\$62,620.00	\$7,017.89	\$69,637.89	4,311	\$609,468.89

RELOCATE AIRFIELD ELECTRICAL VAULT
CONTRACT NO. 189-0193-NC(SS)
PROPOSAL SUBMITTAL DATE: AUGUST 2019
AECOM TASK SUMMARY

TASK NO.	TASK DESCRIPTION	MAN HOURS	TASK COST SUMMARY	SUBCONSULTANT TASK SUMMARY	AECOM TASK TOTAL
1.0	Scope of Services	919	\$124,627.50	\$5,070.00	\$129,697.50
2.0	Engineering Phase (60%)	1,053	\$136,383.50	\$ -	\$136,383.50
3.0	Final Design (90%)	640	\$83,048.00	\$ -	\$83,048.00
4.0	Bid Documents (100%)	331	\$43,629.00	\$ -	\$43,629.00
5.0	Bidding Phase	120	\$16,856.00	\$ -	\$16,856.00
6.0	Construction Phase	919	\$130,217.00	\$ -	\$130,217.00
TOTAL COST		3,981	\$534,761.00	\$5,070.00	\$539,831.00

\$539,831.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 1.0		TASK 1.1		TASK 1.2		TASK 1.3		TASK 1.4		TASK 1.5	
			Scope of Services		Site Selection / Conceptual Planning		Engineering Study/Preliminary Design Phase (30%)		Existing Conditions Walkthrough		Design Charrette		Basis of Design Report	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	61.0	\$14,945.00	21.0	\$5,145.00	16.0	\$3,920.00	8.0	\$1,960.00	8.0	\$1,960.00	8.0	\$1,960.00
Project Coordinator	\$133.00	hr	48.0	\$6,384.00	12.0	\$1,596.00	16.0	\$2,128.00	8.0	\$1,064.00	4.0	\$532.00	8.0	\$1,064.00
Senior Architect	\$195.00	hr	16.0	\$3,120.00	-	\$-	8.0	\$1,560.00	8.0	\$1,560.00	-	\$-	-	\$-
Project Architect	\$125.00	hr	100.0	\$12,500.00	24.0	\$3,000.00	24.0	\$3,000.00	8.0	\$1,000.00	20.0	\$2,500.00	24.0	\$3,000.00
Senior Civil Engineer	\$175.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Civil Engineer	\$130.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Electrical Engineer	\$171.00	hr	112.0	\$19,152.00	8.0	\$1,368.00	32.0	\$5,472.00	24.0	\$4,104.00	16.0	\$2,736.00	32.0	\$5,472.00
Electrical Engineer	\$129.00	hr	116.0	\$14,964.00	12.0	\$1,548.00	40.0	\$5,160.00	24.0	\$3,096.00	-	\$-	40.0	\$5,160.00
Senior Mechanical Engineer	\$166.00	hr	80.0	\$13,280.00	12.0	\$1,992.00	12.0	\$1,992.00	8.0	\$1,328.00	16.0	\$2,656.00	32.0	\$5,312.00
Mechanical Engineer	\$130.00	hr	88.0	\$11,440.00	8.0	\$1,040.00	56.0	\$7,280.00	4.0	\$520.00	8.0	\$1,040.00	12.0	\$1,560.00
Senior Structural Engineer	\$171.00	hr	16.0	\$2,736.00	-	\$-	8.0	\$1,368.00	-	\$-	-	\$-	8.0	\$1,368.00
Structural Engineer	\$130.00	hr	12.0	\$1,560.00	-	\$-	-	\$-	-	\$-	-	\$-	12.0	\$1,560.00
Senior Water Resources Engineer	\$166.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Water Resources Engineer	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Environmental Specialist	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Planner	\$189.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Project Planner	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Landscape Architecture	\$155.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Landscape Architecture	\$95.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Designer	\$131.00	hr	40.0	\$5,240.00	24.0	\$3,144.00	-	\$-	16.0	\$2,096.00	-	\$-	-	\$-
Drafter / CADD Operator	\$95.00	hr	106.5	\$10,117.50	1.5	\$142.50	73.0	\$6,935.00	2.5	\$237.50	2.5	\$237.50	27.0	\$2,565.00
Survey Party Chief	\$80.00	hr	30.0	\$2,400.00	30.0	\$2,400.00	-	\$-	-	\$-	-	\$-	-	\$-
Survey Instrument Man	\$65.00	hr	30.0	\$1,950.00	30.0	\$1,950.00	-	\$-	-	\$-	-	\$-	-	\$-
Survey Rod Man / Chain Man	\$50.00	hr	30.0	\$1,500.00	30.0	\$1,500.00	-	\$-	-	\$-	-	\$-	-	\$-
Senior Surveyor	\$138.00	hr	8.0	\$1,104.00	8.0	\$1,104.00	-	\$-	-	\$-	-	\$-	-	\$-
Surveyor CADD	\$120.00	hr	8.0	\$960.00	8.0	\$960.00	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$75.00	hr	17.0	\$1,275.00	6.0	\$450.00	3.0	\$225.00	2.0	\$150.00	2.0	\$150.00	4.0	\$300.00
Subtotal Burdened Labor Costs			918.5	\$124,627.50	234.5	\$27,339.50	288.0	\$39,040.00	112.5	\$17,115.50	76.5	\$11,811.50	207.0	\$29,321.00
TOTAL LABOR COSTS				\$124,627.50		\$27,339.50		\$39,040.00		\$17,115.50		\$11,811.50		\$29,321.00

Subcontracted Services		Unit	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD
Topographic Survey	1	ls		\$-		\$-		\$-		\$-		\$-
Geotechnical Investigation	1	ls		\$-		\$-		\$-		\$-		\$-
Environmental Investigation	1	ls		\$-		\$-		\$-		\$-		\$-
Site Civil Design	1	ls		\$-		\$-		\$-		\$-		\$-
Materials Testing	1	ls		\$-		\$-		\$-		\$-		\$-
SUE (AECOM)	1	ls	\$ 5,070.00	\$5,070.00		\$-	\$ 5,070.00	\$5,070.00		\$-		\$-
Subtotal Subcontractor Costs				\$5,070.00		\$-		\$5,070.00		\$-		\$-
TOTAL SUBCONTRACTOR COSTS				\$5,070.00		\$-		\$5,070.00		\$-		\$-

TOTAL COST				\$129,697.50		\$27,339.50		\$44,110.00		\$17,115.50		\$11,811.50		\$29,321.00
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CONTRACT NO. 189-0193-NC(SS)

PROPOSAL SUBMITTAL DATE: AUGUST 2019

**RELOCATE AIRFIELD ELECTRICAL VAULT AT THE
ST. PETE-CLEARWATER INTERNATIONAL AIRPORT**

AECOM Subsurface Utility Engineering (SUE)

Budget

- 4 Man SUE Crew - \$1690/day (8 hours)
- Estimate 3 Days @ \$1690 = \$5070.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification	Rate	Unit	SUMMARY TASK 2.0		TASK 2.1		TASK 2.2		TASK 2.3		TASK 2.4		TASK 2.5		TASK 2.6		TASK 2.7		TASK 2.8		TASK 2.9		TASK 2.10	
			Engineering Phase (60%)		Collect Data		General Consultation		60% Design		Preliminary Meetings		Technical Specifications		CSPP		FAA 7460		Engineer's Report		60% Comments		Southwest Florida Water Management District Permit	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	44.0	\$10,780.00	4.0	\$980.00	8.0	\$1,960.00	4.0	\$980.00	4.0	\$980.00	4.0	\$980.00	4.0	\$980.00	2.0	\$490.00	4.0	\$980.00	8.0	\$1,960.00	2.0	\$490.00
Project Coordinator	\$133.00	hr	44.0	\$5,852.00	4.0	\$532.00	4.0	\$532.00	4.0	\$532.00	4.0	\$532.00	10.0	\$1,330.00	2.0	\$266.00	6.0	\$798.00	4.0	\$532.00	2.0	\$266.00	2.0	\$266.00
Senior Architect	\$195.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Project Architect	\$125.00	hr	134.0	\$16,750.00	-	\$-	8.0	\$1,000.00	96.0	\$12,000.00	4.0	\$500.00	16.0	\$2,000.00	-	\$-	-	\$-	2.0	\$250.00	8.0	\$1,000.00	-	\$-
Senior Civil Engineer	\$175.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Civil Engineer	\$130.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Electrical Engineer	\$171.00	hr	84.0	\$14,364.00	8.0	\$1,368.00	8.0	\$1,368.00	40.0	\$6,840.00	4.0	\$684.00	16.0	\$2,736.00	-	\$-	-	\$-	2.0	\$342.00	6.0	\$1,026.00	-	\$-
Electrical Engineer	\$129.00	hr	68.0	\$8,772.00	8.0	\$1,032.00	-	\$-	60.0	\$7,740.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Mechanical Engineer	\$166.00	hr	28.0	\$4,648.00	-	\$-	4.0	\$664.00	16.0	\$2,656.00	-	\$-	8.0	\$1,328.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Mechanical Engineer	\$130.00	hr	150.0	\$19,500.00	4.0	\$520.00	-	\$-	136.0	\$17,680.00	4.0	\$520.00	-	\$-	-	\$-	-	\$-	-	\$-	6.0	\$780.00	-	\$-
Senior Structural Engineer	\$171.00	hr	20.0	\$3,420.00	-	\$-	-	\$-	20.0	\$3,420.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Structural Engineer	\$130.00	hr	110.0	\$14,300.00	-	\$-	-	\$-	100.0	\$13,000.00	-	\$-	4.0	\$520.00	-	\$-	-	\$-	-	\$-	-	\$-	6.0	\$780.00
Senior Water Resources Engineer	\$166.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Water Resources Engineer	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Environmental Specialist	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Planner	\$189.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Project Planner	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Landscape Architecture	\$155.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Landscape Architecture	\$95.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Designer	\$131.00	hr	100.0	\$13,100.00	-	\$-	-	\$-	80.0	\$10,480.00	-	\$-	-	\$-	16.0	\$2,096.00	4.0	\$524.00	-	\$-	-	\$-	-	\$-
Drafter / CADD Operator	\$95.00	hr	230.5	\$21,897.50	-	\$-	-	\$-	230.5	\$21,897.50	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Survey Party Chief	\$80.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Survey Instrument Man	\$65.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Survey Rod Man / Chain Man	\$50.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Surveyor	\$138.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Surveyor CADD	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$75.00	hr	40.0	\$3,000.00	-	\$-	-	\$-	-	\$-	2.0	\$150.00	32.0	\$2,400.00	2.0	\$150.00	-	\$-	2.0	\$150.00	2.0	\$150.00	-	\$-
Subtotal Burdened Labor Costs			1,052.5	\$136,383.50	28.0	\$4,432.00	32.0	\$5,524.00	786.5	\$97,225.50	22.0	\$3,366.00	84.0	\$10,496.00	32.0	\$4,556.00	8.0	\$1,280.00	16.0	\$2,520.00	40.0	\$6,228.00	4.0	\$756.00
TOTAL LABOR COSTS				\$136,383.50		\$4,432.00		\$5,524.00		\$97,225.50		\$3,366.00		\$10,496.00		\$4,556.00		\$1,280.00		\$2,520.00		\$6,228.00		\$756.00
TOTAL COST				\$136,383.50		\$4,432.00		\$5,524.00		\$97,225.50		\$3,366.00		\$10,496.00		\$4,556.00		\$1,280.00		\$2,520.00		\$6,228.00		\$756.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 3.0		TASK 3.1		TASK 3.2	
			Final Design (90%)		90% Design Plans		90% Review / Comments / Meeting	
			Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	24.0	\$5,880.00	16.0	\$3,920.00	8.0	\$1,960.00
Project Coordinator	\$133.00	hr	20.0	\$2,660.00	16.0	\$2,128.00	4.0	\$532.00
Senior Architect	\$195.00	hr	-	\$-	-	\$-	-	\$-
Project Architect	\$125.00	hr	68.0	\$8,500.00	60.0	\$7,500.00	8.0	\$1,000.00
Senior Civil Engineer	\$175.00	hr	-	\$-	-	\$-	-	\$-
Civil Engineer	\$130.00	hr	-	\$-	-	\$-	-	\$-
Senior Electrical Engineer	\$171.00	hr	44.0	\$7,524.00	40.0	\$6,840.00	4.0	\$684.00
Electrical Engineer	\$129.00	hr	72.0	\$9,288.00	72.0	\$9,288.00	-	\$-
Senior Mechanical Engineer	\$166.00	hr	20.0	\$3,320.00	16.0	\$2,656.00	4.0	\$664.00
Mechanical Engineer	\$130.00	hr	48.0	\$6,240.00	48.0	\$6,240.00	-	\$-
Senior Structural Engineer	\$171.00	hr	16.0	\$2,736.00	16.0	\$2,736.00	-	\$-
Structural Engineer	\$130.00	hr	124.0	\$16,120.00	120.0	\$15,600.00	4.0	\$520.00
Senior Water Resources Engineer	\$166.00	hr	-	\$-	-	\$-	-	\$-
Water Resources Engineer	\$125.00	hr	-	\$-	-	\$-	-	\$-
Environmental Specialist	\$120.00	hr	-	\$-	-	\$-	-	\$-
Senior Planner	\$189.00	hr	-	\$-	-	\$-	-	\$-
Project Planner	\$125.00	hr	-	\$-	-	\$-	-	\$-
Senior Landscape Architecture	\$155.00	hr	-	\$-	-	\$-	-	\$-
Landscape Architecture	\$95.00	hr	-	\$-	-	\$-	-	\$-
Senior Designer	\$131.00	hr	40.0	\$5,240.00	40.0	\$5,240.00	-	\$-
Drafter / CADD Operator	\$95.00	hr	162.0	\$15,390.00	162.0	\$15,390.00	-	\$-
Survey Party Chief	\$80.00	hr	-	\$-	-	\$-	-	\$-
Survey Instrument Man	\$65.00	hr	-	\$-	-	\$-	-	\$-
Survey Rod Man / Chain Man	\$50.00	hr	-	\$-	-	\$-	-	\$-
Senior Surveyor	\$138.00	hr	-	\$-	-	\$-	-	\$-
Surveyor CADD	\$120.00	hr	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$75.00	hr	2.0	\$150.00	-	\$-	2.0	\$150.00
Subtotal Burdened Labor Costs			640.0	\$83,048.00	606.0	\$77,538.00	34.0	\$5,510.00
TOTAL LABOR COSTS				\$83,048.00		\$77,538.00		\$5,510.00
TOTAL COST				\$83,048.00		\$77,538.00		\$5,510.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 4.0		TASK 4.1		TASK 4.2		TASK 4.3	
			Bid Documents (100%)		Final Design Plans		Final Design Review / Comments / Meeting		Submit Permit to Pinellas County	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	26.0	\$6,370.00	16.0	\$3,920.00	8.0	\$1,960.00	2.0	\$490.00
Project Coordinator	\$133.00	hr	24.0	\$3,192.00	16.0	\$2,128.00	8.0	\$1,064.00	-	\$-
Senior Architect	\$195.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Project Architect	\$125.00	hr	30.0	\$3,750.00	24.0	\$3,000.00	4.0	\$500.00	2.0	\$250.00
Senior Civil Engineer	\$175.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Civil Engineer	\$130.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Senior Electrical Engineer	\$171.00	hr	16.0	\$2,736.00	16.0	\$2,736.00	-	\$-	-	\$-
Electrical Engineer	\$129.00	hr	22.0	\$2,838.00	16.0	\$2,064.00	4.0	\$516.00	2.0	\$258.00
Senior Mechanical Engineer	\$166.00	hr	8.0	\$1,328.00	8.0	\$1,328.00	-	\$-	-	\$-
Mechanical Engineer	\$130.00	hr	22.0	\$2,860.00	16.0	\$2,080.00	4.0	\$520.00	2.0	\$260.00
Senior Structural Engineer	\$171.00	hr	10.0	\$1,710.00	10.0	\$1,710.00	-	\$-	-	\$-
Structural Engineer	\$130.00	hr	30.0	\$3,900.00	24.0	\$3,120.00	4.0	\$520.00	2.0	\$260.00
Senior Water Resources Engineer	\$166.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Water Resources Engineer	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Environmental Specialist	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Senior Planner	\$189.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Project Planner	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Senior Landscape Architecture	\$155.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Landscape Architecture	\$95.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Senior Designer	\$131.00	hr	40.0	\$5,240.00	40.0	\$5,240.00	-	\$-	-	\$-
Drafter / CADD Operator	\$95.00	hr	99.0	\$9,405.00	99.0	\$9,405.00	-	\$-	-	\$-
Survey Party Chief	\$80.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Survey Instrument Man	\$65.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Survey Rod Man / Chain Man	\$50.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Senior Surveyor	\$138.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Surveyor CADD	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$75.00	hr	4.0	\$300.00	-	\$-	2.0	\$150.00	2.0	\$150.00
Subtotal Burdened Labor Costs			331.0	\$43,629.00	285.0	\$36,731.00	34.0	\$5,230.00	12.0	\$1,668.00
TOTAL LABOR COSTS				\$43,629.00		\$36,731.00		\$5,230.00		\$1,668.00
TOTAL COST				\$43,629.00		\$36,731.00		\$5,230.00		\$1,668.00

RELOCATE AIRFIELD ELECTRICAL VAULT
CONTRACT NO. 189-0193-NC(SS)
PROPOSAL SUBMITTAL DATE: AUGUST 2019
AECOM TASK HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 5.0		TASK 5.1		TASK 5.2		TASK 5.3	
			Bidding Phase		Assist in Bidding		Construction Cost Update		Prepare Addenda	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	14.0	\$3,430.00	8.0	\$1,960.00	2.0	\$490.00	4.0	\$980.00
Project Coordinator	\$133.00	hr	10.0	\$1,330.00	2.0	\$266.00	4.0	\$532.00	4.0	\$532.00
Senior Architect	\$195.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Architect	\$125.00	hr	30.0	\$3,750.00	6.0	\$750.00	-	\$ -	24.0	\$3,000.00
Senior Civil Engineer	\$175.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Civil Engineer	\$130.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Electrical Engineer	\$171.00	hr	8.0	\$1,368.00	6.0	\$1,026.00	-	\$ -	2.0	\$342.00
Electrical Engineer	\$129.00	hr	8.0	\$1,032.00	-	\$ -	-	\$ -	8.0	\$1,032.00
Senior Mechanical Engineer	\$166.00	hr	8.0	\$1,328.00	-	\$ -	-	\$ -	8.0	\$1,328.00
Mechanical Engineer	\$130.00	hr	8.0	\$1,040.00	4.0	\$520.00	-	\$ -	4.0	\$520.00
Senior Structural Engineer	\$171.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Structural Engineer	\$130.00	hr	4.0	\$520.00	4.0	\$520.00	-	\$ -	-	\$ -
Senior Water Resources Engineer	\$166.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Water Resources Engineer	\$125.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Environmental Specialist	\$120.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Planner	\$189.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Project Planner	\$125.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Landscape Architecture	\$155.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Landscape Architecture	\$95.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Designer	\$131.00	hr	8.0	\$1,048.00	-	\$ -	-	\$ -	8.0	\$1,048.00
Drafter / CADD Operator	\$95.00	hr	18.0	\$1,710.00	-	\$ -	-	\$ -	18.0	\$1,710.00
Survey Party Chief	\$80.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Survey Instrument Man	\$65.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Survey Rod Man / Chain Man	\$50.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Surveyor	\$138.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Surveyor CADD	\$120.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$75.00	hr	4.0	\$300.00	2.0	\$150.00	-	\$ -	2.0	\$150.00
Subtotal Burdened Labor Costs			120.0	\$16,856.00	32.0	\$5,192.00	6.0	\$1,022.00	82.0	\$10,642.00
TOTAL LABOR COSTS				\$16,856.00		\$5,192.00		\$1,022.00		\$10,642.00
TOTAL COST				\$16,856.00		\$5,192.00		\$1,022.00		\$10,642.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification	Unit	SUMMARY TASK 6.0		TASK 6.1		TASK 6.2		TASK 6.3		TASK 6.4		TASK 6.5		TASK 6.6		TASK 6.7		TASK 6.8		6.9
		Construction Phase		Assist PreCon		Shop Drawings		Submittal Distribution		Field Observations		Supplemental Drawings and Change Orders		Review Pay Requests		Quality Assurance Testing		Clarifications		Final Inpsection
		Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	USD
Vice President / Project Manager	hr	94.0	\$23,030.00	4.0	\$980.00	12.0	\$2,940.00	2.0	\$490.00	16.0	\$3,920.00	12.0	\$2,940.00	4.0	\$980.00	2.0	\$490.00	8.0	\$1,960.00	\$1,960.00
Project Coordinator	hr	172.0	\$22,876.00	8.0	\$1,064.00	16.0	\$2,128.00	16.0	\$2,128.00	40.0	\$5,320.00	12.0	\$1,596.00	16.0	\$2,128.00	2.0	\$266.00	8.0	\$1,064.00	\$1,064.00
Senior Architect	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Project Architect	hr	162.0	\$20,250.00	4.0	\$500.00	60.0	\$7,500.00	2.0	\$250.00	24.0	\$3,000.00	20.0	\$2,500.00	-	\$-	-	\$-	16.0	\$2,000.00	\$1,000.00
Senior Civil Engineer	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Civil Engineer	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Senior Electrical Engineer	hr	56.0	\$9,576.00	-	\$-	12.0	\$2,052.00	-	\$-	-	\$-	4.0	\$684.00	-	\$-	-	\$-	4.0	\$684.00	\$1,368.00
Electrical Engineer	hr	92.0	\$11,868.00	4.0	\$516.00	32.0	\$4,128.00	2.0	\$258.00	16.0	\$2,064.00	8.0	\$1,032.00	-	\$-	-	\$-	16.0	\$2,064.00	\$-
Senior Mechanical Engineer	hr	52.0	\$8,632.00	-	\$-	12.0	\$1,992.00	-	\$-	-	\$-	4.0	\$664.00	-	\$-	-	\$-	4.0	\$664.00	\$1,328.00
Mechanical Engineer	hr	74.0	\$9,620.00	4.0	\$520.00	24.0	\$3,120.00	4.0	\$520.00	12.0	\$1,560.00	8.0	\$1,040.00	-	\$-	-	\$-	8.0	\$1,040.00	\$-
Senior Structural Engineer	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Structural Engineer	hr	82.0	\$10,660.00	-	\$-	32.0	\$4,160.00	-	\$-	12.0	\$1,560.00	12.0	\$1,560.00	-	\$-	-	\$-	12.0	\$1,560.00	\$1,040.00
Senior Water Resources Engineer	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Water Resources Engineer	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Environmental Specialist	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Senior Planner	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Project Planner	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Senior Landscape Architecture	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Landscape Architecture	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Senior Designer	hr	40.0	\$5,240.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	24.0	\$3,144.00	\$-
Drafter / CADD Operator	hr	67.0	\$6,365.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	24.0	\$2,280.00	\$-
Survey Party Chief	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Survey Instrument Man	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Survey Rod Man / Chain Man	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Senior Surveyor	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Surveyor CADD	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	\$-
Administrative / Clerical	hr	28.0	\$2,100.00	2.0	\$150.00	2.0	\$150.00	8.0	\$600.00	-	\$-	4.0	\$300.00	2.0	\$150.00	-	\$-	2.0	\$150.00	\$150.00
Subtotal Burdened Labor Costs		919.0	\$130,217.00	26.0	\$3,730.00	202.0	\$28,170.00	34.0	\$4,246.00	120.0	\$17,424.00	84.0	\$12,316.00	22.0	\$3,258.00	4.0	\$756.00	126.0	\$16,610.00	\$7,910.00
TOTAL LABOR COSTS			\$130,217.00		\$3,730.00		\$28,170.00		\$4,246.00		\$17,424.00		\$12,316.00		\$3,258.00		\$756.00		\$16,610.00	\$7,910.00
TOTAL COST			\$130,217.00		\$3,730.00		\$28,170.00		\$4,246.00		\$17,424.00		\$12,316.00		\$3,258.00		\$756.00		\$16,610.00	\$7,910.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AECOM TASK HOURLY BREAKDOWN

Classification		Unit	TASK 6.10		TASK 6.11		TASK 6.12		TASK 6.13		TASK 6.14		TASK 6.15		TASK 6.16		TASK 6.17	
			Notify of Deficiencies		Evaluate Test Results		Assist in obtaining O&M Manuals		Coordinate Instructions from Manufacturers		Review O& M Manuals		Prepare Record Drawings		Site Visits		Assist in training on equipment	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$245.00	hr	4.0	\$980.00	4.0	\$980.00	2.0	\$490.00	2.0	\$490.00	2.0	\$490.00	2.0	\$490.00	8.0	\$1,960.00	2.0	\$490.00
Project Coordinator	\$133.00	hr	4.0	\$532.00	8.0	\$1,064.00	4.0	\$532.00	4.0	\$532.00	2.0	\$266.00	4.0	\$532.00	16.0	\$2,128.00	4.0	\$532.00
Senior Architect	\$195.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Project Architect	\$125.00	hr	-	\$-	4.0	\$500.00	2.0	\$250.00	2.0	\$250.00	-	\$-	12.0	\$1,500.00	8.0	\$1,000.00	-	\$-
Senior Civil Engineer	\$175.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Civil Engineer	\$130.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Electrical Engineer	\$171.00	hr	-	\$-	2.0	\$342.00	4.0	\$684.00	4.0	\$684.00	4.0	\$684.00	2.0	\$342.00	8.0	\$1,368.00	4.0	\$684.00
Electrical Engineer	\$129.00	hr	-	\$-	-	\$-	4.0	\$516.00	2.0	\$258.00	-	\$-	4.0	\$516.00	-	\$-	4.0	\$516.00
Senior Mechanical Engineer	\$166.00	hr	-	\$-	2.0	\$332.00	4.0	\$664.00	4.0	\$664.00	4.0	\$664.00	-	\$-	6.0	\$996.00	4.0	\$664.00
Mechanical Engineer	\$130.00	hr	-	\$-	-	\$-	4.0	\$520.00	2.0	\$260.00	-	\$-	4.0	\$520.00	-	\$-	4.0	\$520.00
Senior Structural Engineer	\$171.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Structural Engineer	\$130.00	hr	-	\$-	2.0	\$260.00	-	\$-	-	\$-	-	\$-	-	\$-	4.0	\$520.00	-	\$-
Senior Water Resources Engineer	\$166.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Water Resources Engineer	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Environmental Specialist	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Planner	\$189.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Project Planner	\$125.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Landscape Architecture	\$155.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Landscape Architecture	\$95.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Designer	\$131.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	16.0	\$2,096.00	-	\$-	-	\$-
Drafter / CADD Operator	\$95.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	24.0	\$2,280.00	-	\$-	19.0	\$1,805.00
Survey Party Chief	\$80.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Survey Instrument Man	\$65.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Survey Rod Man / Chain Man	\$50.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Surveyor	\$138.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Surveyor CADD	\$120.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$75.00	hr	2.0	\$150.00	2.0	\$150.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	2.0	\$150.00
Subtotal Burdened Labor Costs			10.0	\$1,662.00	24.0	\$3,628.00	24.0	\$3,656.00	20.0	\$3,138.00	12.0	\$2,104.00	68.0	\$8,276.00	50.0	\$7,972.00	43.0	\$5,361.00
TOTAL LABOR COSTS				\$1,662.00		\$3,628.00		\$3,656.00		\$3,138.00		\$2,104.00		\$8,276.00		\$7,972.00		\$5,361.00
TOTAL COST				\$1,662.00		\$3,628.00		\$3,656.00		\$3,138.00		\$2,104.00		\$8,276.00		\$7,972.00		\$5,361.00

RELOCATE AIRFIELD ELECTRICAL VAULT
CONTRACT NO. 189-0193-NC(SS)
PROPOSAL SUBMITTAL DATE: AUGUST 2019
AID TASK SUMMARY

TASKS MO.	TASK DESCRIPTION	MAN HOURS	TASK COST SUMMARY	SUBCONSULTANT TASK SUMMARY	AID TASK SUMMARY
1.0	Scope of Services	122	\$14,060.00	\$3,687.89	\$17,747.89
2.0	Engineering Phase (60%)	-	\$21,536.00	\$ -	\$21,536.00
3.0	Final Design (90%)	60	\$6,356.00	\$ -	\$6,356.00
4.0	Bid Documents (100%)	62	\$7,050.00	\$ -	\$7,050.00
5.0	Bidding Phase	30	\$3,178.00	\$ -	\$3,178.00
6.0	Construction Phase	88	\$10,440.00	\$3,330.00	\$13,770.00
TOTAL COST		362	\$62,620.00	\$7,017.89	\$69,637.89

\$69,638.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 1.0		TASK 1.1		TASK 1.2		TASK 1.3		TASK 1.4		TASK 1.5	
			Scope of Services		Site Selection / Conceptual Planning		Engineering Study/Preliminary Design Phase (30%)		Existing Conditions Walkthrough		Design Charrette		Basis of Design Report	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	4.0	\$684.00	4.0	\$684.00	-	\$-	-	\$-	-	\$-	-	\$-
Senior Civil Engineer	\$149.00	hr	16.0	\$2,384.00	4.0	\$596.00	4.0	\$596.00	4.0	\$596.00	-	\$-	4.0	\$596.00
Civil Engineer	\$120.00	hr	30.0	\$3,600.00	8.0	\$960.00	18.0	\$2,160.00	-	\$-	-	\$-	4.0	\$480.00
Senior Geotechnical Engineer	\$167.00	hr	12.0	\$2,004.00	12.0	\$2,004.00	-	\$-	-	\$-	-	\$-	-	\$-
Senior Designer	\$90.00	hr	54.0	\$4,860.00	26.0	\$2,340.00	24.0	\$2,160.00	-	\$-	-	\$-	4.0	\$360.00
Drafter / CADD Operator	\$88.00	hr	6.0	\$528.00	6.0	\$528.00	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$67.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Subtotal Burdened Labor Costs			122.0	\$14,060.00	60.0	\$7,112.00	46.0	\$4,916.00	4.0	\$596.00	-	\$-	12.0	\$1,436.00
TOTAL LABOR COSTS				\$14,060.00		\$7,112.00		\$4,916.00		\$596.00		\$-		\$1,436.00

Subcontracted Services		Unit	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD
Geotechnical Investigation (Tierra)	1	ls	3,687.89	\$3,687.89	3,687.89	\$3,687.89	\$0.00	\$-	\$0.00	\$-	\$0.00	\$-	\$0.00	\$-
Subtotal Subcontractor Cost				\$3,687.89		\$3,687.89		\$-		\$-		\$-		\$-
TOTAL SUBCONTRACTOR COSTS				\$3,687.89		\$3,687.89		\$-		\$-		\$-		\$-

TOTAL COST				\$17,747.89		\$10,799.89		\$4,916.00		\$596.00		\$-		\$1,436.00
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Item Description	Unit	Unit Price	Quantity	Total
Geotechnical Field Investigation				
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 350.00	1	\$350.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00	0	\$0.00
610-Geo Mobilization Drill Rig Truck Mount	Each	\$ 2,925.00	0	\$0.00
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00	1	\$160.00
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,138.00	0	\$0.00
405-Geo Barge (Owned)	Day	\$ 2,500.00	0	\$0.00
618-Geo Mobilization Support Boat	Each	\$ 500.00	0	\$0.00
Geo Support Safety Boat	Day	\$ 500.00	0	\$0.00
619-Geo Mobilization Tri-Pod	Each	\$ 1,125.00	0	\$0.00
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00	0	\$0.00
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00	0	\$0.00
Geo SPT Truck 0-50 Ft	LF	\$ 12.90	80	\$1,032.00
Geo SPT Truck 50-100 Ft	LF	\$ 17.00	0	\$0.00
Geo SPT Truck 100-150 Ft	LF	\$ 31.00	0	\$0.00
Geo SPT Truck 150-200 Ft	LF	\$ 39.00	0	\$0.00
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20	0	\$0.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.10	0	\$0.00
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00	0	\$0.00
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00	0	\$0.00
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.50	0	\$0.00
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.90	0	\$0.00
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 53.00	0	\$0.00
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00	0	\$0.00
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.25	80	\$420.00
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00	0	\$0.00
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.25	0	\$0.00
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00	0	\$0.00
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.25	0	\$0.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00	0	\$0.00
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.10	0	\$0.00
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00	0	\$0.00
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50	0	\$0.00
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25	0	\$0.00
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25	0	\$0.00
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00	0	\$0.00
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.50	0	\$0.00
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.25	0	\$0.00
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.25	0	\$0.00
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00	0	\$0.00
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.30	0	\$0.00
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 14.00	0	\$0.00
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 17.50	0	\$0.00
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00	0	\$0.00

Item Description	Unit	Unit Price	Quantity	Total
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.50	0	\$0.00
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.50	0	\$0.00
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 20.00	0	\$0.00
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00	0	\$0.00
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 45.00	0	\$0.00
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 52.00	0	\$0.00
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 60.00	0	\$0.00
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 48.00	0	\$0.00
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 64.00	0	\$0.00
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 80.00	0	\$0.00
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00	0	\$0.00
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 71.00	0	\$0.00
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 71.00	0	\$0.00
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 85.00	0	\$0.00
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00	0	\$0.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 71.00	0	\$0.00
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 71.00	0	\$0.00
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 85.00	0	\$0.00
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 85.00	0	\$0.00
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 200.00	0	\$0.00
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 200.00	0	\$0.00
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 200.00	0	\$0.00
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 200.00	0	\$0.00
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00	0	\$0.00
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 200.00	0	\$0.00
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 200.00	0	\$0.00
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 200.00	0	\$0.00
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.50	0	\$0.00
402-Geo Auger Borings- Track	LF	\$ 12.00	0	\$0.00
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 290.00	0	\$0.00
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 890.00	0	\$0.00
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00	0	\$0.00
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25	0	\$0.00
Piezometer Permit Cost Actual	Each	Actual	0	
403-Geo Backhoe (Owned)	Day	\$ 600.00	0	\$0.00
416-Geo Dozer (Owned)	Day	\$ 800.00	0	\$0.00
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00	0	\$0.00
407-Geo Chainsaw (Owned)	Day	\$ 28.00	0	\$0.00
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00	0	\$0.00
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00	0.25	\$700.00

Item Description	Unit	Unit Price	Quantity	Total
Asphalt and Concrete Pavement Coring				
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 125.00	0	\$0.00
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 110.00	2	\$220.00
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 125.00	0	\$0.00
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 110.00	0	\$0.00
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00	0	\$0.00
306-Concrete Pavement Coring - 6" Dia	Each	\$ 110.00	0	\$0.00
603-Mobilization Asphalt Coring equipment	Each	\$ 250.00	0	\$0.00
606-Mobilization Concrete Coring	Each	\$ 250.00	0	\$0.00
Geotechnical Soil Laboratory Testing				
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00	0	\$0.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00	0	\$0.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00	0	\$0.00
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00	0	\$0.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 175.00	0	\$0.00
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00	0	\$0.00
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00	0	\$0.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 46.00	0	\$0.00
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 48.00	0	\$0.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00	0	\$0.00
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 130.00	0	\$0.00
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00	0	\$0.00
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00	0	\$0.00
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 175.00	0	\$0.00
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 175.00	0	\$0.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00	0	\$0.00
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00	0	\$0.00
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00	0	\$0.00
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00	0	\$0.00
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00	0	\$0.00
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Each	\$ 50.00	0	\$0.00
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00	0	\$0.00
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 340.00	0	\$0.00

Item Description	Unit	Unit Price	Quantity	Total
Misc Asphalt and Concrete Testing				
100-Aggregate Acid Insol Retained 200 Sieve (FM 5-510)	Test	\$ 90.00	0	\$0.00
101-Aggregate Carbonates and Organic Matter (FM 5-514)	Test	\$ 90.00	0	\$0.00
102-Aggregate Organic Impurities in Sand for Concrete (AASHTO T 21)	Test	\$ 40.00	0	\$0.00
103-Aggregate Shell Content of Coarse Aggregate (FM 5-555)	Test	\$ 55.00	0	\$0.00
104-Aggregate Sieve Analysis of Fine and Coarse Aggregate (AASHTO T 27)	Test	\$ 41.00	0	\$0.00
105-Aggregate Soundness (AASHTO T 104)	Test	\$ 275.00	0	\$0.00
107-Aggregate Total Moisture Content by Drying (AASHTO T-255)	Test	\$ 9.60	0	\$0.00
108-Aggregate Unit Mass and Voids (AASHTO T 19)	Test	\$ 50.00	0	\$0.00
200-Asphalt Bulk Specific Gravity (FM 1-T 166)	Test	\$ 25.10	0	\$0.00
201-Asphalt Content (FM 5-563)	Test	\$ 136.00	0	\$0.00
203-Asphalt Gradation & Content (FM 1-T 030 & FM 5-563)	Test	\$ 187.00	0	\$0.00
204-Asphalt Gradation (FM 1-T 030)	Test	\$ 51.00	0	\$0.00
207-Asphalt Los Angeles (LA) Abrasion Small Agg (FM 1-T 096)	Test	\$ 270.00	0	\$0.00
300-Concrete Beam Flexural Testing (ASTM C78)	Test	\$ 31.00	0	\$0.00
301-Concrete Compressive Compressive Strength of Grout\Mortar (ASTM C 109)	Test	\$ 13.00	0	\$0.00
302-Concrete Cylinder Curing, Capping & Breaking (ASTM C39)	Test	\$ 12.00	0	\$0.00
303-Concrete Drilled Cores and Sawed Beams (ASTM C42)	Test	\$ 38.00	0	\$0.00
Contamination Test Units				
850-EDR Report	Each	\$ 500.00	0	\$0.00
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00	0	\$0.00
854-Handheld GPS	Per Day	\$ 80.34	0	\$0.00
856-Field Sampling Kit (soil)	Each	\$ 75.00	0	\$0.00
858-Field Sampling Survey Kit (water)	Each	\$ 75.00	0	\$0.00
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90	0	\$0.00
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00	0	\$0.00
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00	0	\$0.00
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00	0	\$0.00
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00	0	\$0.00
870-Volatile Organics (Method 8260)	Each	\$ 95.00	0	\$0.00
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00	0	\$0.00
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00	0	\$0.00
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00	0	\$0.00
878-TPH Method FL-Pro	Each	\$ 65.00	0	\$0.00
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00	0	\$0.00
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00	0	\$0.00
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00	0	\$0.00
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00	0	\$0.00
888-Arsenic (Method 6010/7471)	Each	\$ 9.00	0	\$0.00
890-SPLP/TCLP Metals	Each	\$ 198.00	0	\$0.00
892-Asbestos Samples	Each	\$ 15.00	0	\$0.00
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00	0	\$0.00

Item Description	Unit	Unit Price	Quantity	Total
Engineering, CEI and Technical Support Services				
Project Manager	Hour	\$ 166.50	0	\$0.00
Senior Engineer	Hour	\$ 171.00	0	\$0.00
Chief Scientist	Hour	\$ 137.04	0	\$0.00
Senior Project Engineer	Hour	\$ 141.64	0	\$0.00
Geotechnical Engineer	Hour	\$ 113.81	2	\$227.62
Engineering Intern	Hour	\$ 96.62	0	\$0.00
Senior Scientist	Hour	\$ 115.65	0	\$0.00
Designer	Hour	\$ 93.32	0	\$0.00
Sr Engineering Technician	Hour	\$ 82.61	7	\$578.27
Geotechnical Technician	Hour	\$ 66.39	0	\$0.00
Secretary/Clerical	Hour	\$ 72.00	0	\$0.00

Estimated Geotechnical Fees = \$3,687.89

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Classification		Unit	SUMMARY TASK 2.0		TASK 2.1		TASK 2.2		TASK 2.3		TASK 2.4		TASK 2.5		TASK 2.6		TASK 2.7		TASK 2.8	
			Engineering Phase (60%)		Collect Data		General Consultation		60% Design		Preliminary Meetings		Technical Specifications		CSPP		FAA 7460		Engineer's Report	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	2.0	\$342.00	-	\$-	-	\$-	2.0	\$342.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Senior Civil Engineer	\$149.00	hr	24.0	\$3,576.00	-	\$-	-	\$-	4.0	\$596.00	-	\$-	4.0	\$596.00	-	\$-	-	\$-	-	\$-
Civil Engineer	\$120.00	hr	94.0	\$11,280.00	4.0	\$480.00	12.0	\$1,440.00	16.0	\$1,920.00	4.0	\$480.00	8.0	\$960.00	-	\$-	-	\$-	6.0	\$720.00
Senior Designer	\$90.00	hr	60.0	\$5,400.00	-	\$-	-	\$-	24.0	\$2,160.00	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Drafter / CADD Operator	\$88.00	hr	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-	-	\$-
Administrative / Clerical	\$67.00	hr	14.0	\$938.00	-	\$-	-	\$-	-	\$-	-	\$-	8.0	\$536.00	-	\$-	-	\$-	6.0	\$402.00
Subtotal Burdened Labor Cost			-	\$21,536.00	4.0	\$480.00	12.0	\$1,440.00	-	\$5,018.00	4.0	\$480.00	20.0	\$2,092.00	-	\$-	-	\$-	12.0	\$1,122.00
TOTAL LABOR COSTS				\$21,536.00		\$480.00		\$1,440.00		\$5,018.00		\$480.00		\$2,092.00		\$-		\$-		\$1,122.00
TOTAL COST				\$21,536.00		\$480.00		\$1,440.00		\$5,018.00		\$480.00		\$2,092.00		\$-		\$-		\$1,122.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Classification		Unit	TASK 2.9		TASK 2.10	
			60% Comments		SWFWMD, Pinellas and FDOT Stormwater Permit	
			Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	-	\$ -	16.0	\$2,384.00
Civil Engineer	\$120.00	hr	4.0	\$480.00	40.0	\$4,800.00
Senior Designer	\$90.00	hr	12.0	\$1,080.00	24.0	\$2,160.00
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -
Subtotal Burdened Labor Cost			16.0	\$1,560.00	80.0	\$9,344.00
TOTAL LABOR COSTS				\$1,560.00		\$9,344.00

TOTAL COST				\$1,560.00		\$9,344.00
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RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Labor Category		Unit	SUMMARY TASK 3.0		TASK 3.1		TASK 3.2	
			Final Design (90%)		90% Design Plans		90% Review / Comments / Meeting	
			Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	-	\$ -	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	4.0	\$596.00	-	\$ -	4.0	\$596.00
Civil Engineer	\$120.00	hr	24.0	\$2,880.00	16.0	\$1,920.00	8.0	\$960.00
Senior Designer	\$90.00	hr	32.0	\$2,880.00	24.0	\$2,160.00	8.0	\$720.00
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -	-	\$ -
Subtotal Burdened Labor Costs			60.0	\$6,356.00	40.0	\$4,080.00	20.0	\$2,276.00
TOTAL LABOR COSTS				\$6,356.00		\$4,080.00		\$2,276.00

TOTAL COST				\$6,356.00		\$4,080.00		\$2,276.00
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RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Labor Category		Unit	SUMMARY TASK 4.0		TASK 4.1		TASK 4.2		TASK 4.3	
			Bid Documents (100%)		Final Design Plans		Final Design Review / Comments / Meeting		Submit Permit to Pinellas County	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	2.0	\$342.00	2.0	\$342.00	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	12.0	\$1,788.00	4.0	\$596.00	4.0	\$596.00	4.0	\$596.00
Civil Engineer	\$120.00	hr	20.0	\$2,400.00	8.0	\$960.00	4.0	\$480.00	8.0	\$960.00
Senior Designer	\$90.00	hr	28.0	\$2,520.00	12.0	\$1,080.00	4.0	\$360.00	12.0	\$1,080.00
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subtotal Burdened Labor Costs			62.0	\$7,050.00	26.0	\$2,978.00	12.0	\$1,436.00	24.0	\$2,636.00
TOTAL LABOR COSTS				\$7,050.00		\$2,978.00		\$1,436.00		\$2,636.00
TOTAL COST				\$7,050.00		\$2,978.00		\$1,436.00		\$2,636.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
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 AID HOURLY BREAKDOWN

Labor Category		Unit	SUMMARY TASK 5.0		TASK 5.1		TASK 5.2		TASK 5.3	
			Scope of Services		Assist in Bidding		Construction Cost Update		Prepare Addenda	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	2.0	\$298.00	2.0	\$298.00	-	\$ -	-	\$ -
Civil Engineer	\$120.00	hr	12.0	\$1,440.00	4.0	\$480.00	4.0	\$480.00	4.0	\$480.00
Senior Designer	\$90.00	hr	16.0	\$1,440.00	8.0	\$720.00	-	\$ -	8.0	\$720.00
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subtotal Burdened Labor Costs			30.0	\$3,178.00	14.0	\$1,498.00	4.0	\$480.00	12.0	\$1,200.00
TOTAL LABOR COSTS				\$3,178.00		\$1,498.00		\$480.00		\$1,200.00
TOTAL COST				\$3,178.00		\$1,498.00		\$480.00		\$1,200.00

RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Labor Category		Unit	SUMMARY TASK 6.0		TASK 6.1		TASK 6.2		TASK 6.3		TASK 6.4		TASK 6.5		TASK 6.6		TASK 6.7		TASK 6.8	
			Construction Phase		Assist PreCon		Shop Drawings		Submittal Distribution		Field Observations		Supplemental Drawings and Change Orders		Review Pay Requests		Quality Assurance Testing		Clarifications	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	8.0	\$1,192.00	4.0	\$596.00	2.0	\$298.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Civil Engineer	\$120.00	hr	58.0	\$6,960.00	-	\$ -	10.0	\$1,200.00	-	\$ -	16.0	\$1,920.00	4.0	\$480.00	4.0	\$480.00	-	\$ -	4.0	\$480.00
Senior Geotechnical Engineer	\$167.00	hr	4.0	\$668.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	4.0	\$668.00	-	\$ -
Senior Designer	\$90.00	hr	18.0	\$1,620.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	8.0	\$720.00	-	\$ -	-	\$ -	4.0	\$360.00
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subtotal Burdened Labor Costs			88.0	\$10,440.00	4.0	\$596.00	12.0	\$1,498.00	-	\$ -	16.0	\$1,920.00	12.0	\$1,200.00	4.0	\$480.00	4.0	\$668.00	8.0	\$840.00
TOTAL LABOR COSTS				\$10,440.00		\$596.00		\$1,498.00		\$ -		\$1,920.00		\$1,200.00		\$480.00		\$668.00		\$840.00

Subcontracted Services		Unit	Qty		USD		Qty		USD		Qty		USD		Qty		USD		Qty		USD	
QA Field Services (Tierra)	1	ls	3,330.00	\$3,330.00	\$3,330.00	\$3,330.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Subtotal Subcontractor Costs				\$3,330.00	\$3,330.00	\$3,330.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL SUBCONTRACTOR COSTS				\$3,330.00	\$3,330.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

TOTAL COST				\$13,770.00		\$3,926.00		\$1,498.00		\$ -		\$1,920.00		\$1,200.00		\$480.00		\$668.00		\$840.00
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RELOCATE AIRFIELD ELECTRICAL VAULT
 CONTRACT NO. 189-0193-NC(SS)
 PROPOSAL SUBMITTAL DATE: AUGUST 2019
 AID HOURLY BREAKDOWN

Labor Category		Unit	TASK 6.9		TASK 6.10		TASK 6.11		TASK 6.12		TASK 6.13		TASK 6.14		TASK 6.15		TASK 6.16		TASK 6.17	
			Final Inpsection		Notify of Deficiencies		Evaluate Test Results		Assist in obtaining O&M Manuals		Coordinate Instructions from Manufacturers		Review O& M Manuals		Prepare Record Drawings		Site Visits		Assist in training on equipment	
			Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD	Hrs	USD
Vice President / Project Manager	\$171.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Civil Engineer	\$149.00	hr	-	\$ -	-	\$ -	2.0	\$298.00	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Civil Engineer	\$120.00	hr	4.0	\$480.00	2.0	\$240.00	2.0	\$240.00	-	\$ -	-	\$ -	-	\$ -	4.0	\$480.00	8.0	\$960.00	-	\$ -
Senior Geotechnical Engineer	\$167.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Senior Designer	\$90.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	6.0	\$540.00	-	\$ -	-	\$ -
Drafter / CADD Operator	\$88.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Administrative / Clerical	\$67.00	hr	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -
Subtotal Burdened Labor Costs			4.0	\$480.00	2.0	\$240.00	4.0	\$538.00	-	\$ -	-	\$ -	-	\$ -	10.0	\$1,020.00	8.0	\$960.00	-	\$ -
TOTAL LABOR COSTS				\$480.00		\$240.00		\$538.00		\$ -		\$ -		\$ -		\$1,020.00		\$960.00		\$ -

Subcontracted Services		Unit	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD	Qty	USD
QA Field Services (Tierra)	1	ls	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	-	\$ -	8.0	\$ -
Subtotal Subcontractor Costs				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
TOTAL SUBCONTRACTOR COSTS				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -

TOTAL COST				\$480.00		\$240.00		\$538.00		\$ -		\$ -		\$ -		\$1,020.00		\$960.00		\$ -
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TIERRA

May 6, 2019

American Infrastructure Development, Inc.
122 SW Midtown Place, Unit 101
Lake City, Florida 32025
Attn: Mr. Nabil O. Hmeidi, PE

RE: **Quality Assurance (QA) Scope of Services and Estimated Fees
St. Petersburg - Clearwater International Airport (PIE)
Vault and Roadway Construction
Tierra Proposal No. 61-19-087**

Mr. Hmeidi:

Tierra, Inc. appreciates the opportunity to submit the attached proposal to provide construction inspection and materials testing services for the above-referenced project.

Scope of Services

- Perform soil density testing, Proctors soil classification testing during backfill over drainage and asphalt pavement subgrade and base.
- Perform sampling of asphalt during paving operations and core asphalt to determine thickness and density.
- Perform sampling and testing of fresh concrete and retrieve the test cylinders the following day

Assumptions Made to Construct Estimate

1. Subgrade – sample soils for laboratory test and density testing for vault (2 trips to project site).
2. Roadway (500LF) – sample soils for LBR test and density testing for roadway subgrade and base course (3 trips to project site).
3. Backfill over Pipe – sample soils for Proctor and soil classification and density testing (2 trips to project site)
4. Asphalt Paving – Obtain bulk sample of asphalt during paving and obtain drilled cores after completion of paving (2 trips to project site).
5. Vault - Sample and test concrete plus return to site the following day to retrieve cylinders (2 trips to site)

Service Fee

The total estimated fee to perform the proposed scope of services is \$3,330.00. An itemized breakdown of the estimated fees is attached. We will respond on an on-call basis at the unit rates noted above. The contractor solely controls the actual work progress and scheduling and Tierra has no control over the final technician hours or test quantities. We will invoice for actual services provided only.

Respectfully submitted,

TIERRA, INC.



Manuel J. Valdes
Construction Services Manager

Attachments:

**Pinellas County 189-0193-NC(SS)
Quality Assurance (QA) Scope of Services and Estimated Fees
St. Petersburg - Clearwater International Airport (PIE)
Vault and Roadway Construction
Tierra Proposal No. 61-19-087**

BASE BID

A. FIELD QA TESTING

	<u>Unit</u>	<u># of Units</u>	<u>Unit Price</u>		<u>Total</u>
1. Engineering Technician for soil density testing and concrete testing on a part time, will call basis	per hr	32	\$	48.00	\$ 1,536.00
2. Engineering Technician to sample asphalt during paving and drill cores to determine thickness and density of asphalt on a part time, will call basis	per hr	8	\$	48.00	\$ 384.00

B. LABORATORY TESTING SOILS

1. Modified Proctor (ASTM D-1557)	ea	2	\$	120.00	\$ 240.00
2. Grain Size Analysis (ASTM D-422)	ea	2	\$	60.00	\$ 120.00
3. Liquid / Plastic Limits (ASTM D-4318)	ea	2	\$	45.00	\$ 90.00
4. Organic Content (AASHTO T-267)	ea	2	\$	40.00	\$ 80.00
5. Limerock Bearing Ratio (LBR)	ea	1	\$	300.00	\$ 300.00

C. LABORATORY TESTING ASPHALT

1. Asphalt Content and Aggregate Gradation (FM5-563)	ea	1	\$	120.00	\$ 120.00
2. Thickness and density of Asphalt Core	ea	2	\$	40.00	\$ 80.00

D. LABORATORY TESTING CONCRETE

1. Curing and Compression Tests of Concrete Test Cylinders	ea	5	\$	12.00	\$ 60.00
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E. ENGINEERING SERVICES

1. Project Manager, Coordinate services, PWL, Reports	per hr	2	\$	85.00	\$ 170.00
2. Senior Engineer, P.E. Report sign / seal	per hr	1	\$	150.00	\$ 150.00

TOTAL ESTIMATE: \$ 3,330.00



EXHIBIT B

AECOM TECHNICAL SERVICES, INC.

PINELLAS COUNTY
189-0193-NC (SS)
PROPOSED HOURLY RATES

Job Classification	Billable Rate (\$ / hour)
Vice President / Project Manager	\$245.00
Project Coordinator	\$133.00
Senior Architect	\$195.00
Project Architect	\$125.00
Senior Civil Engineer	\$175.00
Civil Engineer	\$130.00
Senior Electrical Engineer	\$171.00
Electrical Engineer	\$129.00
Senior Mechanical Engineer	\$166.00
Mechanical Engineer	\$130.00
Senior Structural Engineer	\$171.00
Structural Engineer	\$130.00
Senior Water Resources Engineer	\$166.00
Water Resources Engineer	\$125.00
Environmental Specialist	\$120.00



EXHIBIT B

AECOM TECHNICAL SERVICES, INC.

**PINELLAS COUNTY
189-0193-NC (SS)
PROPOSED HOURLY RATES**

Job Classification	Billable Rate (\$ / hour)
Senior Planner	\$189.00
Project Planner	\$125.00
Senior Landscape Architect	\$155.00
Landscape Architect	\$95.00
Senior Designer	\$131.00
Drafter/CADD Operator	\$95.00
Survey Party Chief	\$80.00
Survey Instrument Man	\$65.00
Survey Rod Man / Chain Man	\$50.00
Senior Surveyor	\$138.00
Surveyor / CADD	\$120.00
Administrative / Clerical	\$75.00
2 Man SUE Crew	\$106.15
3 Man SUE Crew	\$158.66
4 Man SUE Crew	\$211.17

AMERICAN INFRASTRUCTURE DEVELOPMENT, INC. (AID)

EXHIBIT "B"

PINELLAS COUNTY / 189-0193-NC (SS) / PROPOSED HOURLY RATES



CLASSIFICATION	LOADED RATE
Project Principal	\$185
Project Manager	\$171
Senior Engineer/Planner	\$149
Senior Geotechnical Engineer	\$167
Engineer/Planner	\$120
Sr. Designer	\$90
Designer	\$88
Clerical	\$67

Item Description	Unit	Unit Price
Geotechnical Field Investigation		
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 350.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00
610-Geo Mobilization Drill Rig Truck Mount	Each	\$ 2,925.00
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,138.00
405-Geo Barge (Owned)	Day	\$ 2,500.00
618-Geo Mobilization Support Boat	Each	\$ 500.00
Geo Support Safety Boat	Day	\$ 500.00
619-Geo Mobilization Tri-Pod	Each	\$ 1,125.00
419-Geo Drilling Crew 2-Person	Hour	\$ 135.00
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00
Geo SPT Truck 0-50 Ft	LF	\$ 12.90
Geo SPT Truck 50-100 Ft	LF	\$ 17.00
Geo SPT Truck 100-150 Ft	LF	\$ 31.00
Geo SPT Truck 150-200 Ft	LF	\$ 39.00
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.10
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.50
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.90
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 53.00
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.25
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.25
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.25
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.10
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.50
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.25
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.25
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.30
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 14.00
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 17.50
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00

Item Description	Unit	Unit Price
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.50
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.50
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 20.00
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 45.00
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 52.00
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 60.00
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 48.00
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 64.00
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 80.00
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 71.00
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 71.00
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 85.00
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 71.00
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 71.00
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 85.00
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 85.00
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 200.00
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 200.00
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 200.00
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 200.00
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 200.00
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 200.00
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 200.00
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.50
402-Geo Auger Borings- Track	LF	\$ 12.00
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 290.00
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 890.00
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 6.25
Piezometer Permit Cost Actual	Each	Actual
403-Geo Backhoe (Owned)	Day	\$ 600.00
416-Geo Dozer (Owned)	Day	\$ 800.00
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00
407-Geo Chainsaw (Owned)	Day	\$ 28.00
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00
434-Geo Ground Penetrating Radar (GPR)	Day	\$ 2,800.00

Item Description	Unit	Unit Price
Asphalt and Concrete Pavement Coring		
209-Asphalt Pavement Coring – 4” dia with Base Depth Check	Each	\$ 125.00
210-Asphalt Pavement Coring – 4” dia without Base Depth Check	Each	\$ 110.00
211-Asphalt Pavement Coring – 6” dia with Base Depth Check	Each	\$ 125.00
212-Asphalt Pavement Coring – 6” dia without Base Depth Check	Each	\$ 110.00
305-Concrete Pavement Coring - 4" Dia	Each	\$ 110.00
306-Concrete Pavement Coring - 6" Dia	Each	\$ 110.00
603-Mobilization Asphalt Coring equipment	Each	\$ 250.00
606-Mobilization Concrete Coring	Each	\$ 250.00
Geotechnical Soil Laboratory Testing		
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 131.00
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 175.00
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 46.00
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 48.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00
Atterberg Limit Tests (AASHTO T-89 and T-90) Combined	Test	\$ 130.00
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 175.00
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 175.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Each	\$ 50.00
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 340.00

Item Description	Unit	Unit Price
Misc Asphalt and Concrete Testing		
100-Aggregate Acid Insol Retained 200 Sieve (FM 5-510)	Test	\$ 90.00
101-Aggregate Carbonates and Organic Matter (FM 5-514)	Test	\$ 90.00
102-Aggregate Organic Impurities in Sand for Concrete (AASHTO T 21)	Test	\$ 40.00
103-Aggregate Shell Content of Coarse Aggregate (FM 5-555)	Test	\$ 55.00
104-Aggregate Sieve Analysis of Fine and Coarse Aggregate (AASHTO T 27)	Test	\$ 41.00
105-Aggregate Soundness (AASHTO T 104)	Test	\$ 275.00
107-Aggregate Total Moisture Content by Drying (AASHTO T-255)	Test	\$ 9.60
108-Aggregate Unit Mass and Voids (AASHTO T 19)	Test	\$ 50.00
200-Asphalt Bulk Specific Gravity (FM 1-T 166)	Test	\$ 25.10
201-Asphalt Content (FM 5-563)	Test	\$ 136.00
203-Asphalt Gradation & Content (FM 1-T 030 & FM 5-563)	Test	\$ 187.00
204-Asphalt Gradation (FM 1-T 030)	Test	\$ 51.00
207-Asphalt Los Angeles (LA) Abrasion Small Agg (FM 1-T 096)	Test	\$ 270.00
300-Concrete Beam Flexural Testing (ASTM C78)	Test	\$ 31.00
301-Concrete Compressive Compressive Strength of Grout/Mortar (ASTM C 109)	Test	\$ 13.00
302-Concrete Cylinder Curing, Capping & Breaking (ASTM C39)	Test	\$ 12.00
303-Concrete Drilled Cores and Sawed Beams (ASTM C42)	Test	\$ 38.00
Contamination Test Units		
850-EDR Report	Each	\$ 500.00
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00
854-Handheld GPS	Per Day	\$ 80.34
856-Field Sampling Kit (soil)	Each	\$ 75.00
858-Field Sampling Survey Kit (water)	Each	\$ 75.00
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00
870-Volatile Organics (Method 8260)	Each	\$ 95.00
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00
878-TPH Method FL-Pro	Each	\$ 65.00
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00
888-Arsenic (Method 6010/7471)	Each	\$ 9.00
890-SPLP/TCLP Metals	Each	\$ 198.00
892-Asbestos Samples	Each	\$ 15.00
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00

Item Description	Unit	Unit Price
Engineering, CEI and Technical Support Services		
Project Manager	Hour	\$ 166.50
Senior Engineer	Hour	\$ 171.00
Chief Scientist	Hour	\$ 137.04
Senior Project Engineer	Hour	\$ 141.64
Geotechnical Engineer	Hour	\$ 113.81
Engineering Intern	Hour	\$ 96.62
Senior Scientist	Hour	\$ 115.65
Designer	Hour	\$ 93.32
Sr Engineering Technician	Hour	\$ 82.61
Geotechnical Technician	Hour	\$ 66.39
Secretary/Clerical	Hour	\$ 72.00

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

1. INSURANCE:

- a) If Consultant does not currently meet insurance requirements, Consultant shall also include verification from their broker or agent that any required insurance not provided at that time of submittal will be in place within 10 days after award recommendation.
- b) Within 10 days of **contract award** and prior to commencement of work, Proposer shall email certificate that is compliant with the insurance requirements to InsuranceCerts@Pinellascounty.org. If certificate received with proposal was a compliant certificate no further action may be necessary. It is imperative that proposer include the unique identifier, which will be supplied by the County's Purchasing Department. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). **A copy of the endorsement(s) referenced in paragraph 3.(d) for Additional Insured shall be attached to the certificate(s) referenced in this paragraph.**
- c) No work shall commence at any project site unless and until the required Certificate(s) of Insurance are received and approved by the County. Approval by the County of any Certificate(s) of Insurance does not constitute verification by the County that the insurance requirements have been satisfied or that the insurance policy shown on the Certificate(s) of Insurance is in compliance with the requirements of the Agreement. County reserves the right to require a certified copy of the entire insurance policy, including endorsement(s), at any time during the RFP and/or contract period.
- d) All policies providing liability coverage(s), other than professional liability and workers compensation policies, obtained by the Proposer and any subcontractors to meet the requirements of the Agreement shall be endorsed to include Pinellas County Board of County Commissioners as an Additional Insured.
- e) If any insurance provided pursuant to the Agreement expires, or cancels prior to the completion of the work you will be notified by CTrax, the authorized vendor of Pinellas County. Upon notification, renewal certificate(s) of Insurance and endorsement(s) should be furnished to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org and to CTrax c/o JDi Data at PinellasSupport@jdidata.com by the proposer or their agent prior to the expiration date
 - (1) Proposer shall also notify County within twenty-four (24) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Proposer from its insurer. Notice shall be given by email to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org Nothing contained herein shall absolve Proposer of this requirement to provide notice.
 - (2) Should the Proposer, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement, or at its sole discretion may purchase such coverages necessary for the protection of the County and charge the Proposer for such purchase or offset the cost against amounts due to proposer for services completed. The County shall be under no obligation to purchase such insurance, nor shall it be responsible for the coverages purchased or the insurance company or companies used. The decision of the County to purchase such insurance shall in no way be construed to be a waiver of any of its rights under the Agreement.
- f) The County reserves the right, but not the duty, to review and request a copy of the Contractor's most recent annual report or audited financial statement when a self-insured retention (SIR) or deductible exceeds \$50,000.

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- g) If subcontracting is allowed under this RFP, the Prime Proposer shall obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth; and require any subcontractors to obtain and maintain, at all times during its performance of the Agreement, insurance limits as it may apply to the portion of the Work performed by the subcontractor; *but in no event will the insurance limits be less than \$500,000 for Workers' Compensation/Employers' Liability, and \$1,000,000 for General Liability and Auto Liability if required below.*
- (1) All subcontracts between Proposer and its subcontractors shall be in writing and may be subject to the County's prior written approval. Further, all subcontracts shall (1) require each subcontractor to be bound to Proposer to the same extent Proposer is bound to the County by the terms of the Contract Documents, as those terms may apply to the portion of the Work to be performed by the subcontractor; (2) provide for the assignment of the subcontracts from Proposer to the County at the election of Owner upon termination of the Contract; (3) provide that County will be an additional indemnified party of the subcontract; (4) provide that the County will be an additional insured on all insurance policies required to be provided by the subcontractor except workers compensation and professional liability; (5) provide waiver of subrogation in favor of the County and other insurance terms and/or conditions as outlined below; (6) assign all warranties directly to the County; and (7) identify the County as an intended third-party beneficiary of the subcontract. Proposer shall make available to each proposed subcontractor, prior to the execution of the subcontract, copies of the Contract Documents to which the subcontractor will be bound by this Section C and identify to the subcontractor any terms and conditions of the proposed subcontract which may be at variance with the Contract Documents.
- h) Each insurance policy and/or certificate shall include the following terms and/or conditions:
- (1) The Named Insured on the Certificate of Insurance and insurance policy must match the entity's name that responded to the solicitation and/or is signing the agreement with the County. If Proposer is a Joint Venture per Section A. titled Joint Venture of this RFP, Certificate of Insurance and Named Insured must show Joint Venture Legal Entity name and the Joint Venture must comply with the requirements of Section C with regard to limits, terms and conditions, including completed operations coverage.
- (2) Companies issuing the insurance policy, or policies, shall have no recourse against County for payment of premiums or assessments for any deductibles which all are at the sole responsibility and risk of Contractor.
- (3) The term "County" or "Pinellas County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments and Constitutional offices of County and individual members, employees thereof in their official capacities, and/or while acting on behalf of Pinellas County.
- (4) The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by County or any such future coverage, or to County's Self-Insured Retentions of whatever nature.
- (5) All policies shall be written on a primary, non-contributory basis.

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- (6) Any Certificate(s) of Insurance evidencing coverage provided by a leasing company for either workers compensation or commercial general liability shall have a list of covered employees certified by the leasing company attached to the Certificate(s) of Insurance. The County shall have the right, but not the obligation to determine that the Proposer is only using employees named on such list to perform work for the County. Should employees not named be utilized by Proposer, the County, at its option may stop work without penalty to the County until proof of coverage or removal of the employee by the contractor occurs, or alternatively find the Proposer to be in default and take such other protective measures as necessary.
- (7) Insurance policies, other than Professional Liability, shall include waivers of subrogation in favor of Pinellas County from both the Proposer and subcontractor(s).
- i) The minimum insurance requirements and limits for this Agreement, which shall remain in effect throughout its duration and for two (2) years beyond final acceptance for projects with a Completed Operations exposure, are as follows:

(1) Workers' Compensation Insurance

Limit	Florida Statutory
Employers' Liability Limits	
Per Employee	\$ 500,000
Per Employee Disease	\$ 500,000
Policy Limit Disease	\$ 500,000

- (2) Commercial General Liability Insurance including, but not limited to, Independent Contractor, Contractual Liability Premises/Operations, Products/Completed Operations, and Personal Injury.

Limits

Combined Single Limit Per Occurrence	\$ 1,000,000
Products/Completed Operations Aggregate	\$ 2,000,000
Personal Injury and Advertising Injury	\$ 1,000,000
General Aggregate	\$ 2,000,000

- (3) Business Automobile or Trucker's/Garage Liability Insurance covering owned, hired, and non-owned vehicles. If the Consultant does not own any vehicles, then evidence of Hired and Non-owned coverage is sufficient. Coverage shall be on an "occurrence" basis, such insurance to include coverage for loading and unloading hazards, unless Consultant can show that this coverage exists under the Commercial General Liability policy.

Limit

Combined Single Limit Per Accident	\$ 1,000,000
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SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- (4) Excess or Umbrella Liability Insurance excess of the primary coverage required, in paragraphs (1), (2), and (3) above. No exclusion for work at airport.

Limits

Each Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

- (5) Professional Liability (Errors and Omissions) Insurance with at least minimum limits as follows. If “claims made” coverage is provided, “tail coverage” extending three (3) years beyond completion and acceptance of the project with proof of “tail coverage” to be submitted with the invoice for final payment. In lieu of “tail coverage”, Consultant may submit annually to the County, for a three (3) year period, a current certificate of insurance providing “claims made” insurance with prior acts coverage in force with a retroactive date no later than commencement date of this contract.

Limits

Each Occurrence or Claim	\$ 2,000,000
General Aggregate	\$ 2,000,000

For acceptance of Professional Liability coverage included within another policy required herein, a statement notifying the certificate holder must be included on the certificate of insurance and the total amount of said coverage per occurrence must be greater than or equal to the amount of Professional Liability and other coverage combined.

- (6) Pollution Legal/Environmental Legal Liability Insurance for pollution losses arising from all services performed to comply with this contract. Coverage shall apply to sudden and gradual pollution conditions including the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials or other irritants, contaminants or pollutants into or upon land, the atmosphere or any watercourse or body of water, which results in Bodily Injury or Property Damage. If policy is written on a Claims Made form, a retroactive date is required, and coverage must be maintained for 3 years after completion of contract or “tail coverage must be purchased. Coverage should include and be for the at least the minimum limits listed below:

- 1) Bodily injury, sickness, disease, mental anguish or shock sustained by any person, including death; property damage including physical injury to or destruction of tangible property including the resulting loss of use thereof, clean up costs, and the loss of use of tangible property that has not been physically injured or destroyed;
- 2) Defense including costs, charges and expenses incurred in the investigation, adjustment or defense of claims for such compensation damages.
- 3) Cost of Cleanup/Remediation.

Limits

Per Claim or Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

SECTION C – LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

For acceptance of Pollution Legal/Environmental Legal Liability coverage included within another policy coverage required herein, a statement notifying the certificate holder must be included on the certificate of insurance and the total amount of said coverage per occurrence must be greater than or equal to the amount of Pollution Legal/Environmental Legal Liability and other coverage combined.

- (7) Property Insurance Proposer will be responsible for all damage to its own property, equipment and/or materials.