



Pinellas County

Staff Report

File #: 21-1145A, **Version:** 1

Agenda Date: 12/7/2021

Subject:

Ranking of firms and agreement with AVCON, Inc. for professional engineering design services of the new Airco Taxiways.

Recommended Action:

Approval of the ranking of firms and award of the negotiated agreement with the number one ranked firm, AVCON, Inc. for professional engineering services related to the design of new Airco taxiways at the St. Pete-Clearwater International Airport (Airport).

- The purpose of this contract is to provide professional engineering services for the design and development of bid documents for a new parallel taxiway to Runway 18-36 from the end of Runway 36 to Taxiway "G"; work also includes the reconstruction of Taxiway "G3".
- Award recommendation to top ranked firm, AVCON Inc. in the amount of \$1,516,305.00 is in accordance with the Consultants Competitive Negotiation Act, per Florida Statute 287.055.
- Four certified Small Business Enterprise (SBE) subconsultants are included in the award to AVCON, Inc.: Blue Wing Environmental, LLC., Diversified Professional Services, Inc., Echo UES, Inc., and Northwest Surveying, Inc. for total SBE fees in the amount of \$101,106.00, or approximately 7% commitment of the total award amount.

Contract No. 21-0552-NC(SS), in the amount of \$1,516,305.00 from the notice to proceed date for a term of eight hundred consecutive calendar days; Authorize the Chairman to sign and the Clerk of the Circuit Court to attest.

Strategic Plan:

Foster Continual Economic Growth and Vitality

4.4 Invest in infrastructure to meet current and future needs.

Summary:

This contract is for the requirements of professional engineering services for the design of the new Airco taxiways at the Airport. This project is a necessary component to allow for the future aeronautical development located at the southeastern portion of the airport.

The final negotiated agreement includes the basic services fee of \$1,293,291.25, with a not to exceed amount of \$93,013.75 for optional services related to the existing storage building relocation, and \$130,000.00 for contingency services. Optional services are as authorized by the Airport Director.

The firms in order of ranking are attached on the ranking spreadsheet.

Background Information:

A Request for Qualifications to comply with CCNA was released on June 22, 2021 with negotiations

concluding October 14, 2021.

The contract includes fully burdened hourly rates which were negotiated after conclusion of the evaluation process. The rates include all labor, direct/indirect overhead margins/profits, and travel within the Tampa Bay Metropolitan Statistical Area (TBMSA). Travel outside of the TBMSA will be reimbursed in accordance with Florida Statutes.

Fiscal Impact:

Basic services not to exceed:	\$1,293,291.25
Optional services not to exceed:	\$ 93,013.75
Contingency services not to exceed:	<u>\$ 130,000.00</u>
Total expenditure not to exceed:	\$1,516,305.00

Sources of funding for this project: Federal Aviation Administration (FAA) Grant - \$834,814.00; Florida Department of Transportation (FDOT) Grant - \$200,000.00; and Airport Revenue and Expenditure Fund - \$481,491.00

Staff Member Responsible:

Tom Jewsbury, Director, Airport

Merry Celeste, Division Director, Purchasing & Risk, Administrative Services

Joe Lauro, Director, Administrative Services

Partners:

FAA

FDOT

Attachments:

Agreement

Ranking Spreadsheet

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: Design of New Airco Taxiways – Professional Engineering Services

RFP CONTRACT NO. 21-0552-NC (SS)

NON-CONTINUING FIRM: AVCON, Inc.

PROFESSIONAL ENGINEERING SERVICES NON-CONTINUING SERVICES AGREEMENT

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REQUIREMENTS

**SECTION 1
INTENT OF AGREEMENT**

**AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR
Design of New Airco Taxiways – Professional Engineering Services**

THIS AGREEMENT, entered into on the 7 day of Dec., 2021, 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, AVCON, INC. with offices in Orlando, 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 Design of **New Airco Taxiway project at the St. Pete-Clearwater International Airport** located 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.
- F. 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.
- G. 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 travel drives 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 two travel drives, 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

2.5.1 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.

2.5.2 The Contractor and Subcontractor must register with and use the E-verify system in accordance with Florida Statute 448.095. The County will verify the work authorization of the Contractor and Subcontractor. A Contractor and Subcontractor may not enter into a contract with the County unless each party registers with and uses the E-verify system.

If a Contractor enters a contract with a Subcontractor, the Subcontractor must provide the Contractor with an affidavit stating that the Subcontractor does not employ, contract with, or subcontract with unauthorized aliens. The Contractor must maintain a copy of the affidavit for the duration of the contract.

If the County, Contractor, or Subcontractor has a good faith belief that a person or entity with which it is contracting has knowingly violated Florida Statute 448.09(1) shall immediately terminate the contract with the person or entity.

If the County has a good faith belief that a Subcontractor knowingly violated this provision, but the Contractor otherwise complied with this provision, the County will notify the Contractor and order that the Contractor immediately terminate the contract with the Subcontractor.

A contract terminated under the provisions of this section is not a breach of contract and may not be considered such. Any contract termination under the provisions of this section may be challenged to Section 448.095(2)(d), Florida Statute. Contractor acknowledges upon termination of this agreement by the County for violation of this section by Contractor, Contractor may not be awarded a public contract for at least one (1) year. Contractor acknowledges that Contractor is liable for any additional costs incurred by the County as a result of termination of any contract for a violation of this section.

Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in this section, requiring the subcontracts to include these clauses in any lower tier subcontracts. Contractor shall be responsible for compliance by any Subcontractor or Lower Tier Subcontractor with the clause set forth in this section.

- 2.5.3 Supplier acknowledges and warrants that all digital content and services provided under this contract conforms and shall continue to conform during the Term of this Agreement to the W3C Web Content Accessibility Guidelines, version 2.0 ("WCAG 2.0") at conformance Level A and AA. If all digital content and services does not fully conform to WCAG 2.0 A and AA, Supplier shall advise Pinellas County in writing of the nonconformance prior to execution of this Agreement and shall provide Pinellas County a plan to achieve conformance to WCAG 2.0 A and AA, including but not limited to, an intended timeline for conformance. Failure to achieve conformance, as determined in Pinellas County's sole discretion, on its intended timeline shall be considered a material breach of this Agreement and grounds for termination by Pinellas County.

If during the Term of this Agreement, Supplier fails to maintain compliance with WCAG 2.0 A and AA or Pinellas County otherwise identifies an issue related to accessibility of the product (the "Accessibility Issue") that renders the product inaccessible, then Pinellas County shall notify Supplier of non-compliance. Within 30 days of Supplier's receipt of a non-compliance notice ("Notice"), Supplier and Pinellas County shall meet and mutually agree upon an appropriate timeline for resolution of the Accessibility Issue(s) ("Initial Meeting").

Should Supplier:

fail to acknowledge receipt of the notice within 30 days of receipt of the Notice.

unreasonably and solely withhold agreement regarding a timeline for resolution for more than 30 days following the Initial Meeting; or

fail to materially resolve the Accessibility Issue(s) within the agreed-upon timeline,

Failure to comply with the requirements of this section shall constitute a material breach of this Agreement and shall be grounds for termination of this Agreement by Pinellas County and subject Supplier to section 15 of this Agreement, "Indemnification."

SECTION 3 SERVICES TO BE FURNISHED BY THE CONSULTANT

- 3.1 SEE EXHIBIT A – SCOPE OF SERVICES.

3.2 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 an Engineers Report containing project description, scope of work, design notes and computations, and an Estimate of Probable Construction Costs to document the design conclusions reached during the development of the construction plans.

- a. Three (3) copies of the Engineers Report shall be submitted to the COUNTY with the 60%, 90%, and Final Plan submittals. At the PROJECT completion, a final Engineers Report, properly endorsed by the CONSULTANT, shall be submitted with the record set of plans and tracings.
- b. The Engineers Report shall include, but not be limited to, the following data:

- 1) Design criteria used for the PROJECT.
- 2) Airfield and Roadway geometric calculations
- 3) Pavement design calculations
- 4) Drainage calculations
- 5) Structural calculations
- 6) Construction Safety and Phasing Plans
- 7) Engineers Estimate of Probable Construction Costs
- 8) Calculations as required by provisions of the Florida Energy Conservation Manual (Department of General Services), latest revision. (if applicable)
- 9) Documentation of decisions reached resulting from meetings, telephone conversations or site visits.
- 10) 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.

3.3 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.

3.5.4 Permit fees to be paid by the County.

3.4 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. Sample copies of the COUNTY standard contract documents, Engineering Department Standard Drawings, and technical specifications.
 - C. Preparation of legal (front-end) section of the specifications.

SECTION 5 PRESENTATIONS, PUBLIC MEETING, PROGRESS MEETINGS AND TECHNICAL LIAISON MEETINGS

The services below shall be provided to the COUNTY, but are not limited to the following:

- 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 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

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 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. Payment of Permit Fees (if required).
- B. Payment of the Public Information Meeting Advertisements, if required.
- C. Payment of the Court Reporter for public meetings, if required.
- D. 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, P.E.

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 3.1, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: One Hundred Twenty Two Thousand Nine Hundred Sixteen Dollars and Twenty Five Cents (\$122,916.25) for Task 1 – Special Consultant Services
- A Lump Sum Fee of: Ninety-Six Thousand Six Hundred Seventeen Dollars and Zero Cents (\$96,617.00) for the Task 2 – Project Scope and Understanding
- A Lump Sum Fee of: Thirty-Six Thousand Eight Hundred Sixty-Four Dollars and Zero Cents (\$36,864.00) for the Task 3 - Preliminary Design and Programming
- A Lump Sum Fee of: Two Hundred Eleven Thousand Sixty-Nine Dollars and Zero Cents (\$211,069.00) for the Task 4 – 50% Design Documents
- A Lump Sum Fee of: One Hundred Seventy-Five Thousand Seven Hundred Sixty Dollars and Zero Cents (\$175,760.00) for the Task 5 – 90% Design Documents
- A Lump Sum Fee of: Fifty-One Thousand Six Hundred Eighty Dollars and Zero Cents (\$51,680.00) for the Task 6 – Final Design Documents
- A Lump Sum Fee of: Thirteen Thousand Six Hundred Eighteen Dollars and Zero Cents (\$13,618.00) for the Task 6 – Bidding Phase Services
- A Lump Sum Fee of: Five Hundred Thirty Thousand Six Hundred Twenty-Three and Zero Cents (\$530,623.00) for the Task 7 – Construction Services
- A Lump Sum Fee of: Fifty Four Thousand One Hundred Forty Four Dollars and Zero Cents (\$54,144.00) for Task 8 – Construction Special Consultant Services

The above fees shall constitute the total not to exceed amount of One Million Two Hundred Ninety Three Thousand Two Hundred Ninety One Dollars and Twenty Five Cents (**\$1,293,291.25**) 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 the OPTIONAL SERVICES provided for in the Agreement, as defined in Exhibit A, the COUNTY agrees to pay the CONSULTANT as follows:

- A Lump Sum Fee of: Ninety-Three Thousand Thirteen dollars and 75 cents (\$93,013.75) for the Task 7.2 of the PROJECT

7.3 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 One Hundred Thirty Thousand and Zero Cents (**\$130,000.00**) for all assignments performed.

7.4 Total agreement not-to-exceed amount One Million Five Hundred Sixteen Thousand Three Hundred Five Dollars and Zero Cents (**\$1,516,305.00**).

7.5 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.

7.6 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, OPTIONAL, OR ADDITIONAL SERVICES

9.1 The OPTIONAL or CONTINGENCY services provided for under this Agreement shall be performed only upon prior written authorization from the Director of 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 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 or is qualified 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 eight hundred (800) 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
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: AVCON, INC.

PINELLAS COUNTY, by and through its
Board of County Commissioners

By: *Sandeep Singh*
Print Name: Sandeep Singh, P.E.
Title: President Date: 10/22/21

By: *Dave Eggus*
Name Date: 12/7/2021
Chairman

ATTEST:

Ken Burke, Clerk of the Circuit Court

By: *Jacina Parson*
Deputy Clerk Date: 12/7/2021



APPROVED AS TO FORM

By: *Jacina Parson*
Office of the County Attorney



Exhibit A
Scope of Services

AVCON, INC.
ENGINEERS & PLANNERS

4500 140th Avenue, Suite E105
Clearwater, Florida 33762
813.321.5588
avconinc.com

October 5, 2021

Mr. Scott Yarley, P.E.
Airport Engineer
St. Pete-Clearwater International Airport
14700 Terminal Boulevard, Suite 221
Clearwater, FL 33762

**Reference: Proposed Scope of Services and Fee Proposal
Professional Engineering Services
Design of New Airco Taxiways
St. Pete-Clearwater International Airport
Clearwater, Florida**

Pursuant to your request, AVCON, INC. is pleased to provide our scope and fee proposal for the design, bidding, and construction management services for the above-referenced project at St. Pete-Clearwater International Airport. We have prepared the enclosed documentation to assist in your evaluation of the proposal.

AVCON, INC. will develop all the necessary documentation for the project. As listed in our attached Fee Summary, our proposed fee for this project is \$1,386,305.00 inclusive of Geotechnical Testing and Investigation, Land Surveying, Subsurface Utility Engineering (SUE), Bidding Phase, Construction Management and RPR services, and if approved, Optional Services related to the existing storage building relocation.

It is our understanding the total project budget is \$8,115,000 inclusive of design and construction.

We have enclosed the following supporting documents:

- Scope of Services;
- Fees and Expenses
- Airco Taxiways Program
- Subconsultants' Scope and Fee

AVCON INC. is ready to begin the project at your earliest convenience and have initiated the collection of project records and development of subconsultant subcontracts in anticipation of the Notice to Proceed (NTP). We understand the airport is targeting having the project bid in mid-April 2022 for an FAA grant application to be submitted by the AIP Grant Application deadline anticipated to be early May 2022.

We appreciate the opportunity to accomplish this assignment for you. If you have any questions regarding our proposal, scope, or fee, please feel free to call me at your earliest convenience.

Sincerely,
AVCON, INC.

A handwritten signature in blue ink, appearing to read "Michael Coppage".

Michael Coppage, P.E. for
Sandeep Singh, P.E.
President & Principal-In-Charge

**SCOPE OF SERVICES
PROFESSIONAL ENGINEERING SERVICES
DESIGN OF AIRCO TAXIWAYS
ST. PETERSBURG-CLEARWATER INTERNATIONAL AIRPORT
CLEARWATER, FLORIDA**

OCTOBER 5, 2021

I. PROJECT DESCRIPTION

The PROJECT can be generally described as the investigation/study, design, permitting, bidding, and Construction Management services and the Airco Taxiways project, herein after referred to as the PROJECT. The project will include the construction of partial Parallel Taxiway D, relocation of a portion of the airport's perimeter road and perimeter fence, and relocation of Taxiway G3. Relocation of an existing maintenance storage building as an optional service is also included. The objective of the PROJECT is to provide the airfield access necessary to proceed with the development of the Airco parcel for aeronautical and non-aeronautical developments at St. Pete-Clearwater International Airport.

Taxiway D will be designed nominally 50' wide with no paved shoulders. Taxiway D will intersect with Runway 18-36 directly opposite existing Taxiway A7, and will intersect with Runway 4-22 directly opposite relocated Taxiway G3.

With each of the taxiways listed above, the lighting, marking and signage shall also be provided. Drainage improvements will also be made throughout the limits of the PROJECT.

Please refer to attached ATTACHMENT C for the conceptual layout and the project limits.

I-A. Overview of Professional Services

In general, professional services to be performed by AVCON, herein after referred to as the CONSULTANT, under this assignment include:

- Preliminary Design/Data Collection
- Coordination of Specialty Subconsultants:
 - Design Surveys and Topographic Mapping
 - Design Geotechnical Investigation
 - Local Drainage Design and Permitting
 - Stormwater Drainage Pipe Video
 - Wildlife and Wetland Surveys and Permitting
- Development of Project Access, Staging and Storage
- Development of Construction Safety and Phasing Plan (CSPP)
- Design and Development of Construction Plans
- Preparation of Construction Specifications and Bid Documents
- Opinion of Probable Construction Cost and Engineer's Report



- Stormwater and Utility Permitting
- Assist the Airport with Coordination with the FAA and FDOT
- Bidding/Award Phase Services

II. PROJECT SCOPE AND UNDERSTANDING

II-A. Project Initiation/Coordination

Coordinate and attend a PROJECT initiation/kick-off meeting with Airport staff and others as deemed appropriate. The meeting shall review the PROJECT scope and schedule and establish the preliminary design goals and methods.

II-B. General Coordination

Obtain badges and decals for airfield access and assist subconsultants in obtaining the same. Establish procedures and develop a project directory for all key PROJECT team members. Develop coordination and reporting format among team members and with the Airport. Prepare detailed project schedule and milestone dates.

II-C. Subconsultant Coordination

II-C01. Project Survey

Review available survey data and develop a written land survey scope of services. The land survey shall include all area with the PROJECT limits and shall tie to recently conducted adjacent PROJECT surveys performed by others. Specifically, the PROJECT surveys performed for adjacent projects shall be examined and both horizontal and vertical controls established to provide a uniform datum across projects. Any discrepancy shall be rectified or brought to the attention of the Airport. The Consultant shall coordinate and review with the survey subconsultant the topography, profile and cross-sectional survey of existing pavement and in-field areas, lighting fixtures, signs, drainage pipes, structures, markings etc. The survey data shall be provided to the Airport's Project Manager for his review. Upon receipt of the survey the CONSULTANT shall perform an extensive field review of the project to ensure the survey requirements have been met.

II-C02. Subsurface Utility Engineering

In conjunction with review of available survey data, develop a written subsurface utility engineering scope of services. Subsurface utility engineering scope will include select areas within the PROJECT limits known to contain utilities owned by the County or other agencies. Coordinate horizontal and vertical control to be provided from land surveyor to SUE consultant. The scope shall include identification and layout of locations for soft-digs to verify vertical height (VVH) of utilities likely to be impacted by the PROJECT.

II-C03. Geotechnical Investigations

Review available geotechnical data and develop a written geotechnical scope of services. The scope shall include identification and layout of test locations and the required laboratory testing. All field work shall be cleared by Airport and FAA prior to actual borings being conducted. The written geotechnical report shall be provided to the Airport as an attachment to the next Engineering Report for review.



The CONSULTANT'S Project Engineer will coordinate the locations of the cores, bulk samples, and other test locations. The engineer will review and photograph the core samples as they are retrieved from the rig. The engineer will examine the surrounding soils to ensure bulk CBR samples are taken from sites where the soil is indicative of the soil underneath the pavement to be constructed.

II-C04. Drainage and Stormwater Permitting

Coordinate specialist stormwater consultant activities and incorporate into design. The scope shall include the direct consultation with Pinellas County and SWFWMD permit review staff, input into design calculations, coordination of stormwater approach, and other necessary calculation and design support.

II-C05. Environmental Permitting

Coordinate field investigations related to subconsultant surveys for wildlife, wetlands, and surface waters. Coordinate inclusion of Environmental Narrative Report in SWFWMD and Pinellas County permit applications, as appropriate.

Coordinate wildlife attractant BMP recommendations into the design plans and specifications.

II-D. Project Elements

II-D01. FAA Advisory Circulars and Regulations

CONSULTANT will design all aspects of the project in accordance with FAA Advisory Circulars current at the time of contract execution. The table below includes minimum standards to be incorporated into the design.

Governing Design and Regulatory Standards	
Standard	Description
AC 150/5300-13A*	Airport Design *AVCON will coordinate with FAA Orlando ADO Staff to confirm applicability and use of Draft AC 150/5300-13B
AC 150/5320-6G	Airport Pavement Design and Evaluation
AC 150/5320-5D	Airport Drainage Design
AC 150/5340-1M	Standards for Airport Markings
AC 150/5340-18G	Standards for Airport Sign Systems
AC 150/5340-30J	Design and Installation Details for Airport Visual Aids
AC 150/5345-27E	Specification for Wind Cone Assemblies
AC 150/5370-2G	Operational Safety on Airports During Construction
AC 150/5370-10H	Standard Specifications for Construction of Airports
14 CFR Part 77	Safe, Efficient Use, and Preservation of the Navigable Airspace
14 CFR Part 139	Certification Of Airports
62-330 F.A.C.	Statewide Environmental Resource Permitting (SWERP)



Governing Design and Regulatory Standards	
Standard	Description
FDOT	Statewide Airport Stormwater Best Management Practices Manual
Pinellas County	Pinellas County Stormwater Manual
SWFWMD	Applicant's Handbook Volume II

II-D02. Airfield Geometry

Horizontal geometry and grading will be designed in accordance with AC 150/5300-13A. As an early design task, CONSULTANT will engage FAA Orlando ADO staff to determine applicability of AC 150/5300-13B, currently in Draft form. CONSULTANT will discuss whether any comments on the Draft version that would affect this project have been received, FAA's schedule for its release, and ultimately whether 13B (whether in Draft or Final form) should apply to the PROJECT.

II-D02a. Horizontal Geometry

Taxiways are classified by Airplane Design Group (ADG) and Taxiway Design Group (TDG). ADG is a function of wingspan and tail height and controls width of Taxiway Safety Areas (TSA) and Taxiway Object Free Areas (TOFA), while TDG is a function of aircraft gear configuration including gear track and nose-to-main gear distance, which controls pavement width and fillet geometry.

The new Taxiway D will be designed to TDG 3 standards for pavement geometry purposes. While ADG III standards would normally apply, Taxiway D is planned to be widened in the future to ADG V. Accordingly, the project will be designed utilizing an ADG V TSA and TOFA in order to minimize future rework.

The intersection of Taxiway D with Runway 4-22 is shown on the Airport Layout Plan at an acute angle. Acute angle taxiways are typically discouraged by FAA staff during design in favor of perpendicular intersections, primarily to maximize pilot visibility in both directions down an intersecting runway and secondarily to minimize the taxi distance between Mandatory Holding Position markings during runway crossings. Due to the ongoing study of Taxiway A with Runway 4-22, which is at a similar acute angle as the Taxiway D geometrics in the ALP, an early task of this project will be to coordinate with FAA, the Airport, and other stakeholders as appropriate to determine the best alignment of the new Taxiway D.

Taxiway G3 is currently intersecting Runway 4-22 at an acute angle, and represents some of the oldest airfield pavement at the airport. Taxiway G3 will be demolished from its current position and relocated to coincide with the new Taxiway D intersection with Runway 4-22. The relocated Taxiway G3 will be designed to ADG III, TDG 3 standards.

Taxiway Design Standards		
Taxiway	Airplane Design Group (ADG)	Taxiway Design Group (TDG)
Taxiway D	V	3



Taxiway Design Standards		
Taxiway	Airplane Design Group (ADG)	Taxiway Design Group (TDG)
Taxiway G3	III	3

II-D02b. Vertical Profile and Grading

The future development plans of the Airco parcel require higher building pad elevations due to impacts from recently issued FEMA FIRM maps. Accordingly, the centerline elevation for Taxiway D will be kept as close to the centerline elevation of Runway 18-36 as possible. Refer to Pavement Design section below for additional information regarding future taxiway widening and strengthening.

Longitudinal and Transverse pavement grades will be designed in accordance with applicable Taxiway Design standards for Approach Category D. Grading will be closely coordinated with the needs of the stormwater permitting for the PROJECT.

Longitudinal Grade

- Maximum Grade 1.5%
- Maximum Grade Change 3%

Transverse Grade

- Taxiway pavement cross slope 1.0% - 1.5%
- 5.0% grade for 10 ft of unpaved surface adjacent to paved surface
- 1.5% to 3.0% downward slope within Taxiway Safety Area (ADG III or V, as applicable)
- 4:1 maximum slope between edge of Taxiway Safety Area and edge of Taxiway Object Free Area (ADG III or V, as applicable)

II-D03. Pavement Design and Fleet Mix

The taxiway section will be evaluated after the survey and geotechnical subsurface information is received, and a preliminary visual inspection is conducted by CONSULTANT's team. The pavement design strength will be designed in accordance with the FAA AC 150/5320-6G, Airport Pavement Design and Evaluation. The Investigation Study will include:

- Records Research, Airport Library of Boring and Cores
- Airport Master Plan Update (AMPU)
- Other non-AMPU studies of potential Airco developments
- Pavement Cores & Borings
- Laboratory Testing

Prior to designing the pavement, the existing soils and subgrade will be examined thoroughly. CONSULTANT will analyze geotechnical exploration test results and soils and materials test data to develop new pavement design sections and construction methodologies. Evaluate the existing topographical features and determine suitability

of existing subgrade materials for use as a foundation for the new pavement structure. Provide specifications for suitable offsite borrow materials if required.

Specific pavement cores and borings will be necessary to identify and assess ground water conditions, especially in the lower portions of the airfield basin just east of the end of Runway 36.

The pavement section will be designed for use by typical air carrier aircraft currently operated at PIE, in addition to general aviation aircraft ranging from small single engine aircraft to corporate jet aircraft. Critical aircraft anticipated for the pavement design are as listed below:

- Airbus 319 and 320 (air carrier)
- Dassault Falcon 900 (corporate jet)

In addition, this Taxiway D will be widened and strengthened in the future to support ADG V aircraft, which could include B787-800 aircraft according to the recent Airport Master Plan Update. CONSULTANT will evaluate the pavement modifications necessary to support this aircraft (via asphalt overlay or similar), and design the centerline profile to allow for pavement strengthening while simultaneously remaining below the centerline profile of adjacent runways in accordance with FAA standard.

II-D03a. Pavement Materials

Following receipt of geotechnical information, CONSULTANT will evaluate the appropriate base material to be employed on this project. The current and future traffic mix includes aircraft with gross weights over 100,000 pounds which requires use of a stabilized base course. For flexible pavements a stabilized base typically consists of P-401 or P-403 asphalt. However, the pavement design Advisory Circular permits other materials by stating, in part, "Superior materials that exhibit a remolded soaked CBR of 100 or greater and have proven performance under similar aircraft loadings and climatic conditions may be substituted for a stabilized base course." Accordingly, CONSULTANT will evaluate the use of P-219 Recycled Concrete and P-211 Limerock for use as a base course. Limerock base courses are susceptible to degradation over long-term exposure to wet conditions and would not be recommended if groundwater becomes a concern. Based upon availability to bidding contractors, P-219 will be pursued as a more resilient approach to wet soil conditions.

Use of Superpave Specification: In order to provide more conformity with the new technology upgrades in the asphalt paving industry, the "Superpave" specification in conjunction with the P-401 material will be employed. The data on superior performance of this specification is mounting and it is expected be much more effective in controlling pavement deformations. We know that historically "shoving" can be an issue on the asphaltic connectors on this and other air-carrier airfields.

II-D04. Airfield Marking

Marking of the new paved taxiway surface will be in accordance with FAA AC 150/5340-1M Standards for Airport Markings. Pavement markings anticipated for this project include:

- Taxiway centerline markings, 6" width
- Taxiway edge markings

- Pattern A Runway Holding Position marking
- Repair or replacement of impacted markings at taxiway tie-ins to Runway 18-36 and/or Runway 4-22
 - Runway Threshold Bar
 - Runway Centerline Marking
 - Runway Edge Marking

Taxiway edge markings are not anticipated to be required for the taxiways in this PROJECT but may be included if deemed necessary by the Airport.

During construction, temporary pavement marking will be necessary while the pavement surface undergoes its initial curing. This temporary marking will be a 30% application rate and will be in place for at least 30 days. CONSULTANT will coordinate with Airport Operations staff during design to determine a maximum temporary marking duration to avoid receiving an adverse determination from certification agencies. Temporary markings will not receive black outlines. All permanent markings will receive black outlines in accordance with FAA standard.

The paint specifications may be enhanced to provide resistance to rust and algae (with use of a FAA MOS) and reduce occurrence of paint discoloration.

II-D05. Airfield Lighting and Signage Design

As part of the Airport's long-range program to convert lighting to the LED technology, the taxiway lighting for Taxiway Delta will include LED fixtures as well as associated conductors, connectors, and transformers as a part of this PROJECT. All lighting will be interconnected using a new light base can and conduit system. Typical base can and conduit installation details will apply. All new conductors, transformers and fixtures will be provided for the new and modified taxiway geometry. The new circuiting for Taxiway Delta will include a new Constant Current Regulator (CCR) with additional capacity to extend the circuit in the future. The Airfield Lighting Control System (ALCS) will be updated to interface the new CCR and modify the graphic user interface with the addition of Taxiway D and airfield geometry changes associate with this project. The airfield electrical systems impacted by this project will include:

- Taxiway Edge Lighting
- Runway Edge Lighting Modifications, where required due to new taxiway tie-ins to Runway 18-36 and/or Runway 4-22
- Taxiway Guidance Signage
- Runway Exit Signage
- Runway to Taxiway Mandatory Hold Position Signage
- Addition of a new Constant Current Regulator (CCR) for Taxiway D, to include additional capacity for expansion of Taxiway D.
- Modifications to the existing ADB-Safegate Airfield Lighting Control System (ALCS).
- Modifications and Addition of Duct Bank infrastructure including Junction Can Plazas for all circuiting.



All airfield lighting will be designed in accordance with FAA AC 150/5340-30, Design and Installation Details for Airport Visual Aids latest edition at the time of contract execution for this PROJECT.

The design for airfield sign system elements will be in accordance with FAA AC 150/5340-18, Standards for Airport Sign Systems, latest edition at the time of contract execution for this PROJECT. In conjunction with the lighting systems, a review of the existing signage system will also be performed. Most signage within the project area has recently been replaced. However, wherever an existing sign is determined to be obsolete or unable to be modified with panel replacement, it will be replaced with an LED sign. The existing sign concrete pads will be used to the greatest extent possible. The signs will also be evaluated for changes in edge of pavement geometry and grades. Cables, transformers, and sign panels may be replaced as part of the completed PROJECT.

New signage will be designed for all new proposed pavement and geometry revisions. Signs will be circuited to either the associated taxiway or runway circuit. If it is determined that the taxiway connectors will be renamed in this project, the new signs will use the new taxiway naming convention. All new signs will use LED lighting.

II-D06. Airfield Electrical Circuits

II-D06a. Duct Bank System

The existing raceway between the Airfield Lighting Vault (ALV) and the Airfield will be evaluated to be utilized for the proposed circuiting. The raceway will be located to facilitate routing cable. Conduits will be grouped to minimize the number of runway and taxiway crossings.

- Ducts will include ready access for maintenance, modification of circuits and cable protection during repairs.
- All underground conduits should be scheduled 40 PVC, with a 3-inch minimum concrete encasement when installed under pavement. PVC conduit bends will be per NEC table 346.10.
- A maximum of 500 feet between junction structures, manholes, junction cans, junction can plazas, pull boxes, etc., will be provided. Manholes within runway or taxiway safety areas will be designed to withstand aircraft loading. The use of junction can plazas in lieu of manholes will be considered in the design.
- All conduits and raceway systems will be UL listed.
- In junction cans and junction can plazas, the cables will have a minimum of 6 feet of slack cable.
- A 200 pound polypropylene string/rope will be installed in all ducts. The end of the pull rope will be securely attached to the pull iron. A duct plug will be installed in all spare ducts. The use of nylon, natural fiber rope or steel pull wire will not be permitted.
- Junction Can Plazas will be located to avoid infiltration of surface drainage to reduce erosion and trapped water while providing drier and safer working conditions in the manhole.

- A magnetic, detectable tape, 3-inch wide, labeled “Electric Line Below” will be installed below the finished grade and above all conduits, ducts and duct banks that are not installed under pavement. Conduit installed aboveground is to be rigid galvanized steel conduit with fittings supported on 10-foot centers.
- Voltage system power and communications cables will not be routed in the same duct bank as airfield constant current circuits.
- All duct banks will include a minimum of (1) one spare conduit for future expansion.

II-D06b. Cabling

Wiring other than airfield lighting will be a minimum of No. 12 AWG, with 600 volts rated insulation. If telephone control cable is specified, it will be copper shielded, polyolefin insulated and polyethylene jacketed No. 19 AWG telephone cable conforming to the United States Department of Agriculture, Rural Electrification Administration (REA) Bulletin 345-67 and REA Bulletin 345-14, where applicable, (PE-39, Filled Telephone Cable) and REA Specification for fully color-coded, polyethylene jacketed, 80 degree C filled, telephone cables for direct burial, with 5 mil copper shield will be used.

II-D06c. Airfield Lighting Power Cables and Connectors

Power service cable in the duct bank will conform to the requirements of AC 150/5345-7, specification for L-824, Underground Electrical Cable for Airport Lighting Circuits.

- Type A and B is not recommended.
- It is recommended that Type C, unshielded single and multiple conductor copper cable rated 5000 Volt, having cross-linked polyethylene insulation, be used. Multiple conductor cables will have a jacket applied overall.
- All cable for airfield lighting service will be stranded 5000 Volt, 7-strand type. For power cable, conductor size will not be smaller than No. 8 AWG. These limits on conductor sizes will not apply to leads furnished by manufacturers on transformers and fixtures.
- Connectors for all circuiting will be either the “Complete Kit” or “Super Kit” type with a flap over design to seal the kits against water intrusion. These kits eliminate the need for heat shrinking of the connector kits.

Cable type, size, number of conductors, strand and service voltage will be as specified in the plans and specifications.

II-D06d. Bare Copper Wire (Counterpoise)

Bare copper wire for counterpoise installations will be #2 AWG solid wire conforming to ASTM Specifications B1 and B8 or B3 and B8.

II-D07. ALCS Analysis and Modifications

The existing ADB ALCS will be modified in this project. The ALCS is a PLC or computer-based system that conveys command and basic monitoring information, in real time, to the Air Traffic Controllers and the maintenance/operation staff. The tower

display will always have the current lighting status displayed, regardless of whether the tower or vault has control of the system. ALCS modifications will include the interface of a new Constant Current Regulator (CCR) for the Taxiway D circuit and the graphic display of the airport geometry will be updated to show Taxiway D and other associated revisions to the airfield geometry.

II-D08. Wind Cone

One L-806 supplemental wind cone is located within the limits of construction and will require relocation or replacement. The new wind cone will be an L-806(L), style 1-B, Size 1, LED illuminated, frangible, internally lighted, eight-foot, unit with obstruction light, manufactured in accordance with FAA AC 150/5345- 27E "Specification for Wind Cone Assemblies" and positioned in accordance with FAA AC 150/5340-30J, Design and Installation Details for Airport Visual.

II-D09. Vault Modifications

CCRs are controlled by the ALCS and housed in the vault regulator room that receives commands from the air traffic controllers. A CCR will be dedicated to power the proposed TWD circuit and will be provided with spare capacity for future expansion of TWD. The CCR will be L-829, air cooled, dry type Ferro resonant circuiting, solid-state controls with 120 volts interval control, 480 volt input, 6.6 amp output and 3-step brightness control steps to accommodate airfield lighting system requirements. All CCRs will have a soft start interface/sequence.

The units should have integral primary switches, input/output lighting protection, local control switches for on/off and brightness steps, and faceplate output RMS ammeter and output voltmeter.

All CCRs will be capable on interfacing with the Airfield Light Control System for control and monitoring of the airport lighting system. Constant current regulators (L-829) will be installed in accordance with FAA AC 150/5345-10, latest edition and equipped with a polymer S-1 plug cutout feature. The new CCR will be interfaced with the existing ALCS.

II-D10. Perimeter Road, Fencing, and Security

The new Taxiway D alignment will conflict with the existing perimeter road and perimeter fencing. The airport's perimeter road will be relocated outside the ADG V TOFA of Taxiway D to coincide with the edge of the future Airco development aircraft apron. This will be designed as a single-lane road suitable for use by the Airport's Operations, Facilities, and ARFF vehicles. Width of the relocated perimeter road will be minimized consistent with the controlling vehicle's ability to remain within the edges of pavement particularly around curves.

Airport Operations staff has requested the use of F-164 Wildlife Exclusion Fence for the portions of the fencing to be constructed under this project. CONSULTANT will evaluate the budget implications of this approach against standard F-162 fencing and other approaches available and coordinate with the Airport to determine the most appropriate course of action.

Perimeter Gate C serves as the singular access point for The Landings T-hangar tenant buildings on the north side of the airfield. The airport currently has both access control and camera feeds located at Gate C. Fiberoptic connectivity for Perimeter Gate C is believed to be fed from the gate communications cabinet located at Gate F and run along the existing perimeter road. This cable is likely to be damaged by the new



Taxiway D construction. The existing fiber cable will be rerouted to maintain communications to Gate C, including underground conduit, cable, and structures as necessary. If maintain a fiber connection to gate C is determined to not be feasible, CONSULTANT will evaluate wireless connection back to the terminal building. CONSULTANT will evaluate wireless transmission methods of access control and camera feeds to attempt to minimize cost.

CONSULTANT will assist the Airport in engaging local Transportation Security Administration (TSA) staff to formally review fencing and access control aspects of the project at the 90% design level.

CONSULTANT understands that airside portions of the Airco parcel can reasonably be expected to involve multiple access-controlled doors and gates along with security camera feeds, however the specific needs have not yet been identified in sufficient detail to include in this project.

II-D11. Airport Operations and Construction Phasing

Among the most important features of the overall PROJECT development will be the establishment of the proper phasing plan to accomplish the design and construction objectives, while keeping airfield pavements open to aircraft movement to the maximum extent possible throughout construction.

The first phase of the project is anticipated to include building demolition or relocation work, utility work, and relocation of the airport's perimeter road and perimeter fence. Subsequent phases will involve the bulk of the civil and airfield electrical work to construct the new Taxiway D and relocate Taxiway G3.

The phasing plans are anticipated to include at least two construction staging areas, one for the construction of Taxiway D east of Runway 4-22, and one for the demolition and relocation of Taxiway G3 west of Runway 4-22. Possible staging area locations will be proposed by CONSULTANT and approved by the Airport.

The project Phasing plans will include, the location of contractor haul routes, construction staging areas, materials storage area, waste disposal area, location of barricades, flagmen, restricted areas, plus any other applicable notes to contractor concerning required phasing and staging during construction.

II-D12. Construction Specifications

II-D12a. FAA Specifications

AC 150/5370-10H, Standard Specifications for Construction of Airports will be used as a basis in the preparation of the technical specifications for the PROJECT. AVCON may make modification(s) to these standards provided the changes are accepted by the Airport, FAA and FDOT.

II-D12b. Other Agency Specifications

If deemed necessary, CONSULTANT will incorporate construction specifications issued by other agencies for specific items of work. These could include FDOT, Pinellas County Utilities, or City of Largo Utilities.



II-D12c. Other Project-Specific Specifications

As required, CONSULTANT will provide other project-specific specifications in industry-standard format for items of work not covered by standard specifications issued by FAA or other agencies.

II-D13. FAA and FDOT Coordination

II-D13a. Geometric Design

CONSULTANT will coordinate with Airport and FAA staff as required to determine:

1. Use of AC 150/5300-13A or Draft AC 150/5300-13B
2. Appropriate alignment of Taxiway D at intersection of Runway 4-22 (i.e. acute angle vs right-angle intersection)

The above items are described in additional detail in "Airfield Geometry", above.

II-D13b. Modifications to Standard

Identify deviations to FAA/FDOT design standards and/or FDOT standard specifications, and prepare a memorandum to the Airport explaining advantages and alternates. At the CONSULTANT'S recommendation and if approved by the Airport, where applicable, the CONSULTANT will prepare Modifications to Standards. AVCON will coordinate approval of deviations with FAA/FDOT, as necessary. This may include but will not be limited to superpave and rust and algae inhibitors in the airfield marking paint.

II-D13c. Design Coordination and Review

Prepare for and administer one technical review meeting with FAA and FDOT staff related to project design and budget.

Provide FAA and FDOT staff copies of the design plans and specifications at appropriate stages, generally anticipated to be 90% design.

II-D13d. Safety Risk Management (SRM) Panel

CONSULTANT will assist the Airport with preparing for an SRM panel meeting for discussion of project phasing, operational impacts, and other topics related to safety and mitigation of risk.

CONSULTANT will assist with preparation of graphics or other materials to be provided to panel members prior to or during the meeting, attend the meeting to provide technical input where needed, and coordinate with the Airport as to incorporate revisions, if any, necessary as a result of the discussions at the panel meeting.

II-E. Permit Agency Design and Applications

II-E01. Stormwater Design and Permitting

Stormwater Design shall be in conformance with the following governing standards:

- FAA AC 150/5320 – 5D Airport Drainage Design, Developed in collaboration with the Department of Defense Unified Facilities Criteria (DOD UFC) for Surface Drainage Design.



- Florida Department of Transportation Statewide Airport Stormwater Best Management Practices Manual, and Florida Chapter 62-330 F.A.C. Statewide Environmental Resource Permitting (SWERP).
- Southwest Florida Water Management District Applicant's Handbook Volume II.
- Pinellas County Stormwater Manual.
- Stormwater Master Plan for St. Pete-Clearwater International Airport.

To the extent practical, the following criteria will be used in the stormwater design:

- Water Quality Treatment for pavement runoff by overland flow method, and by temporary storage in wide shallow swales (linear dry ponds).
- Exemption from attenuation should discharge to Roosevelt Creek be considered an extension of Old Tampa Bay, or alternatively, design of a swale control structure to attenuate excess runoff before discharge to Roosevelt Creek, or early construction of the AIRCO stormwater pond for excess runoff storage and source of borrow for construction of Taxiway D.
- Floodplain storage compensation for portions of the project considered by permitting agencies to be riverine floodplains. Compensation is not anticipated to be necessary for coastal floodplain
- Avoidance of Wet Pond Systems. Note it is certain that part of the stormwater conveyance system will be by a wet ditch as existing pipe inverts that are to continue to be conveyed to Roosevelt Creek are already discharging into a wet ditch system. Also note the Roosevelt Creek Control Weir has recently been lowered, possibly allowing periodic tidal influences under extreme events into the upstream AIRCO stormwater system.

II-E01a. Preliminary Design

Specific tasks to be performed under the scope of work for stormwater design include:

1. Data collection and review of historical reports, studies, and previous permits, (i.e. the RW 18 – 36 Extension).
2. Perform a post-survey field visit to review existing features, such as the existing ditch cascading weirs with bleed-down orifices that will be impacted by the new construction.
3. Prepare conceptual stormwater system layout for review with the Agencies Having Jurisdiction, (AHJs).
4. Schedule and participate in preliminary design meetings with Pinellas County Design Review Services, Pinellas County Public Works, PIE, and other stakeholders to introduce the project and determine specific county stormwater requirements, goals and opportunities, (two meetings; virtual or in-person).
5. Schedule and participate in a pre-application meeting with the SWFWMD, (virtual or in-person).



6. Review CCTV Inspections of existing pipes and determine rehabilitation methods, as needed.
7. Coordinate the preliminary stormwater system construction into the overall project phasing plans.
8. Prepare Stormwater Section narrative for the Preliminary Engineering Report.
9. Prepare a recommended order of magnitude (ROM) cost estimate for the preliminary stormwater system design.

II-E01b. Engineering Phase Design

Prepare Final Engineering Design of the Stormwater System at 50%, 90%, and Final 100% Plans. Specific tasks to include:

1. Design Relocation of Wet Ditch with Control Weirs and Bleed-down Orifices.
2. Determine Sub-basin Modeling Areas, Times of Concentration, Composite Curve Numbers, Design Discharge Tailwater Stages, and other modeling criteria.
3. Pre-vs-Post Attenuation Stormwater Modeling for 25 Year, 24 Hour Storm Event.
4. Design System Conveyances (Flowing Swales, Inlets and Pipes), and Outfall Control Structure(s).
5. Water Quality Calculations/ Nutrient Calculations.
6. Swale Recovery Modeling.
7. Meetings/Coordination with PIE, Pinellas County Design Review Services, and Pinellas County Public Works, (three meetings; virtual or in-person).
8. Preparation of Pinellas County Stormwater Permit Application(s).
9. Preparation of SWFWMD Permit Application.
10. Provide updated narrative for the Engineering Report (50%, 90%, and Final 100%).
11. Quality Assurance Reviews (50%, 90%, and Final 100%).

II-E02. Environmental Permitting

The PROJECT partially falls within the footprint of the Airco parcel, with the remaining portion falling within the current perimeter security fence of the airfield.

The Airport previously completed an Environmental Assessment associated with development of the Airco parcel, including receipt of a Finding of no Significant Impact (FONSI). It is anticipated no NEPA environmental permitting will be required for any portion of the project falling within the Airco parcel footprint.

II-E03. Utility Design and Permitting

Utility Adjustments for this project consist of a Pinellas County 16-inch diameter potable water main, and two major City of Largo large diameter transmission mains existing within a 20-foot utility easement: a 20-inch diameter reclaimed water main,



and a 30-inch diameter effluent main. Design for these utility adjustments shall be in conformance with the governing standards, specifications and details of their respective Owners (Pinellas County and City of Largo). This work shall also be compliant with Florida Department of Environmental Protection rules and regulations, and will require obtaining permits therefrom. Construction shall also be in full conformance with FAA Advisory Circulars related to Construction on Airports and the State of Florida Trench Safety Act.

The Pinellas County 16-inch Potable Water Main was existing when the Runway 18 - 36 was extended. For that project, it was determined that leaving the pipe in-place while encasing it was practical, setting a precedent for this project. However, depending on its current age and condition, this pipe may need to be relocated, and protected by casing under the proposed Taxiway D. This would be determined in conjunction with Pinellas County. Relocation would be accomplished with wet-taps, new water main construction, testing, disinfection and placing the new main in service. The work would be finished with line-stops at each end to keep the system in continuous, uninterrupted service. Should this utility be relocated under this project, a potable water stub-out with a terminal valve and plug to serve the future AIRCO development is advised.

The City of Largo 20-inch Reclaimed Water and 30-inch effluent lines are within a 20-foot easement. The current location of these lines would cross Taxiway D at two locations with 45-degree bend fittings located at or near the taxiway pavement edges. This would make encasement difficult for these pipes, and make it hard for utility crews to access them if needed. AVCON will work with the City of Largo on designing a new route for these pipes out from under the taxiway in a new, prescribed easement. The new lines will be constructed, pressure tested, and disinfected (reclaimed water). Tie-ins to the existing mains may be possible with temporary service interruptions, however any effluent will have to be contained.

Finally, there is a fiber optic cable that serves for control of Gate ____ within the project area. We will determine if this utility may remain at its current location as-is, be protected with additional encasement, be relocated, or be replaced by a radio frequency system.

II-E03a. Preliminary Design

Specific tasks to be performed under the scope of work for utility adjustment design include:

1. Data collection and review of historical reports, studies, and utility as-builts.
2. Evaluate survey and pot-hole data for 3D analysis of existing utilities.
3. Schedule and participate in preliminary design meetings with Pinellas County Utilities/Public Works, City of Largo Utilities, PIE, and other stakeholders to introduce the project and determine extent of utility adjustments, (two meetings; virtual or in-person).
4. Prepare preliminary layouts and profiles of utility adjustments for review by the utility owners, and PIE.
5. Coordinate and determine preferred location and size of potable water stub-out for future service to the AIRCO site with PIE and Pinellas County.

6. Determine utility specific technical specifications and standard details necessary for the preliminary designs.
7. Determine the FDEP Permits for each utility
8. Prepare Utility Adjustments narrative for the Preliminary Engineering Design Report.

II-E03b. Engineering Phase Design

Prepare Final Engineering Design of the Utility Adjustments at 50%, 90%, and Final 100% Plans. Specific tasks to include:

1. Final Design of Utility Adjustments. Phase submittals with utility owners and PIE for review and comment.
2. Coordinate preparation of easements with the surveyor, PIE, and City of Largo.
3. Prepare Phasing Plans of utility adjustments, and sequence of switch-over of services to new mains.
4. Meetings/Coordination with PIE, Pinellas County Utilities/Public Works, and City of Largo Utilities, (three meetings; virtual or in-person).
5. Preparation of FDEP Permit Applications.
6. Update Utility Adjustments narrative for the Engineering Report (50%, 90%, and Final 100%).

II-E04. Obstruction Evaluation and Airport Airspace Analysis (OE/AAA)

CONSULTANT will prepare a Construction Safety and Phasing Plan (CSPP) and Analyze the impact of the PROJECT on airspace at the airport. Once coordinated and approved, these items will be provided to the Airport to be submitted to FAA for review using the FAA's OE/AAA system.

II-E04a. Construction Safety and Phasing Plan

All airfield projects at airports with a Part 139 certification require a Construction Safety and Phasing Plan, irrespective of funding source. The Construction Safety and Phasing Plan will be prepared in accordance with AC 150/5370-2G, Operational Safety on Airports During Construction. Aspects of the CSPP generally include:

- Coordination procedures to be followed by Contractors and other project stakeholders during construction
- Phasing drawings of the Construction Plans as an attachment
- Graphical representations of safety and phasing aspects of the PROJECT not otherwise included in the Phasing drawings of the Construction Plans
- Impacts to normal airfield activities and restrictions on construction activities, to be coordinated with Airport Operations during design
- Construction access
- Protection of NAVAIDs to remain in place and/or operational during construction



- Marking and/or lighting of construction zones and construction equipment
- Management and prevention of FOD

The Construction Safety and Phasing Plan is considered a separate Contract Document equally as binding to the Contractor as the technical specifications and plans.

II-E04b. Airspace

CONSULTANT will carefully analyze the project's impact on various imaginary surfaces prescribed by AC 150/5300-13A (Airport Design) and 14 CFR Part 77 (Safe, Efficient Use, and Preservation of the Navigable Airspace). Impacts to NAVAIDs will be coordinated with the Airport as part of the Construction Safety and Phasing Plan. IN addition, CONSULTANT will estimate the size of construction equipment necessary to construct the project and incorporate the necessary equipment height into the design of the phasing plans, as well as providing temporary equipment points at critical locations on the project site for analysis by the FAA.

III. DESIGN PHASE

III-A. Preliminary Design and Programming

III-A01. Data and Record Collection

Review record drawings for projects within the vicinity of the PROJECT. This data shall be collected, compiled, reviewed, and summarized. Include generating of civil and electrical basemapping based upon cadd record drawing information and the project's survey.

Review related documents such as the airport master plan, airport layout plan, pavement management study, wildlife hazard plan, environmental assessment, stormwater master plan, aerial data, geotechnical reports etc.

III-A02. Field Investigation

Interview Airport staff as required for specific aspects of the project, coordinate and conduct site visits and field analyses of the existing conditions pertinent to the PROJECT.

Coordinate with Airport Operations to schedule subconsultant field activities. Provide escort for unbadged team members, or provide access for badged team members requiring access to restricted areas beyond their badged access privileges, such as the movement area.

III-A03. Project Validation

CONSULTANT will review Airport Layout Plan and Master Plan documentation and analyze airspace and imaginary surfaces for Runway 18-36 in the vicinity of the project to determine appropriate centerline alignment for new Taxiway D, with the goal of minimizing runway-to-taxiway centerline separation.

III-A04. Schedule of Permits

Prepare schedule of required permits and submit for review. The need for drainage, utility, and other permits will be evaluated and a list will be provided to the Airport for approval.



III-B. 50% Design

III-B01. Pre-application Meetings

Arrange, prepare for and attend pre-application meetings with permitting agencies. This includes SWFWMD, Pinellas County, and the City of Largo.

III-B02. Deviations from Standards Memorandum

Identify deviations to FAA or other Agency design standards and prepare a memorandum to the Airport explaining advantages and alternates.

III-B03. FAA and FDOT Meeting

Prepare for and conduct a working-design conference with Airport, FAA, FDOT to visit design issues and PROJECT funding.

III-B04. Working Design Meeting

The CONSULTANT will prepare for and attend one interim design review and Project Coordination meeting between the Preliminary Design and the 50% submittal.

III-B05. Schedule

Establish overall design and preliminary construction schedule for PROJECT implementation to meet the requirements of construction seasons, sequence and funding. Consider and fully evaluate nighttime construction to minimize impacts on airfield operations.

III-B06. Cost Estimate

Prepare 50% Engineer's Estimate of Probable Cost for the Design. Estimate at this stage is anticipated to contain 20% contingency.

III-B07. Engineering Report

Prepare 50% Engineering Report. Document final design decisions and findings in the report.

III-B08. Project Manual

Prepare the 50% design level project manual including General and Special Provisions, Bid Forms, Technical Specifications.

III-B09. Plans

Prepare and submit 50% design level plans. Design at this stage will be near-final.

III-B10. QA/QC

Conduct an in-house quality control review of the preliminary design plans, specifications list, and 50% estimate of probable cost and Engineer's Report.

III-B11. 50% Review Meeting

Prepare for and attend the 50% Design Review Meeting to receive Airport's review comments on the documents.

III-B12. Documentation

Provide written documentation to correspondence received at meetings, telephone calls or email. Correspondence deemed significant to the project will also be attached the next version of the Engineer's Report.



III-B13. Stakeholder Meeting

Prepare for and attend stakeholder meeting #2. This meeting will be run by the Airport to obtain stakeholder input on the 50% design level plans. AVCON will prepare a meeting agenda, color graphics, boards and/or handouts as appropriate to facilitate conversation. AVCON staff will also prepare and distribute meeting minutes.

III-C. 90% Design

III-C01. Calculations

Complete draft Engineering Calculations and Schedule of Submittals.

III-C02. Working Design Meeting

The CONSULTANT will prepare for and attend one interim Project Coordination meeting between the 50% submittal and the 90% submittal.

III-C03. ALP Update

This project will include new geometric configurations that will require the ALP to be updated. The CONSULTANT will prepare and submit the draft ALP change request to the Airport. The Airport will provide the CONSULTANT with the latest CAD files used to develop the latest version of the ALP for this task.

III-C04. OE/AAA and CSPP

Prepare and submit the FAA Construction Safety and Phasing Plan. Prepare and submit permanent and temporary equipment airspace study points.

III-C05. Cost Estimate

Prepare 90% Engineer's Estimate of Probable Cost for the Design. Estimate at this stage is anticipated to contain 5% contingency.

III-C06. Engineering Report

Prepare 90% Engineering Report. Document final design decisions and findings in the report.

III-C07. Project Manual

Prepare the 90% design level project manual. Finalize General and Special Provisions, Bid Forms, Technical Specifications.

III-C08. Plans

Prepare and submit 90% design level plans. Design at this stage will be near-final.

III-C09. QA/QC

Conduct an in-house quality control review of the design plans, Project Manual, 90% estimate of probable cost, permits and Engineer's Report.

III-C10. 90% Review Meeting

A 90% review meeting will be conducted with the Airport. It is understood that once the Airport comments have been satisfactorily addressed, the 90% documents will be revised to incorporate these comments into the 100% documents that will become the ISSUED FOR BID set.



III-C11. Documentation

Provide written documentation to correspondence received at meetings, telephone calls or email. Correspondence deemed significant to the project will also be attached the next version of the Engineer's Report.

III-C12. Funding Agency Review

It is anticipated that the funding agencies will conduct a review on this project. The CONSULTANT will anticipate coordinating with the reviewers. The CONSULTANT will incorporate any necessary changes into the final documents. This item also includes additional correspondence, conference calls, making plan revisions, addressing comments, and documentation of revisions.

III-D. Final Design

III-D01. Working Design Meetings

The CONSULTANT will prepare for and attend one interim design review and Project Coordination meeting between the 90% submittal and the 100% submittal.

III-D02. Calculations

Finalize Engineering Calculations and Schedule of Submittals.

III-D03. Regulatory Agency Permits

Regulatory agency permits, including but not limited to Southwest Florida Water Management District, Pinellas County Stormwater, City of Largo Utility, will be submitted at final design. Components of the permit which are assembled by subconsultants will be compiled, reviewed and submitted by the prime CONSULTANT. The prime CONSULTANT will be the primary point of contact for the permit agencies.

III-D04. Cost Estimate

Finalize Engineer's Estimate of Probable Cost for the construction of the project.

III-D05. Engineering Report

Finalize and submit the Engineering Report containing any revisions generated by the final permitting process.

III-D06. 100% Project Manual

Prepare the 100% design level project manual for use during the bidding phase. Finalize General and Special Provisions, Bid Forms, Technical Specifications.

III-D07. 100% Plans

Complete the 100% plans for use during bidding phase. Address outstanding comments. AVCON will review purchasing requirements and make adjustments to remove any conflicting information in the plans and specifications. Distribute to FAA and FDOT as may be appropriate. Provide written certification to FDOT and FAA as may be appropriate.

III-D08. QA/QC

Conduct an in-house quality control review of the design plans, Project Manual, 100% estimate of probable cost, permits and Engineer's Report.



III-D09. Documentation

Provide written documentation to correspondence received at meetings, telephone calls or email. Correspondence deemed significant to the project will also be attached the final version of the Engineer's Report.

IV. OPTIONAL SERVICES

IV-A. Building Deconstruction and/or Relocation (Optional Services)

The existing storage building on the project site is directly in the path of the proposed secure road alignment and also conflicts with the taxiway object free area standards as well. The facility was constructed in 2007 as a pre-engineered metal building (PEMB). The building is well utilized by PIE maintenance department and allows for storage of larger mowing tractors and other equipment. The facility is shown to be removed in the ALP, however, the Airport desires that this storage building be evaluated for possible relocation and reuse.

PEMB retrofits of aged buildings can sometimes have issues with minor to moderate warping which typically does not affect the load carrying capacity of the element but does impact the ability to reuse the material in a fashion producing the desired aesthetic result for plumbness and straightness of the framing, ridges, and eaves. The first task will be to determine the condition for possible reuse of the PEMB structural system through a non-invasive, non-destructive visual inspection and analysis of the Main Wind Frame Resistance System (MWFRS) and components based on current structural code requirements. Pursuant to this effort, we propose the following scope:

- Evaluate the current structural elements in a close-up field investigation
- Coordinate with building manufacturers and review plans and details for conformance with the actual conditions should record drawings be accessible from the original manufacturer.
- Take measurements of the MWFRS element and perform an analysis of the frames against current minimum superimposed live and wind loads to ascertain the optimum configuration in the new building floor plan; and
- Prepare a letter feasibility report with findings, recommendations, and costs for removal and reconstruction.

In addition to the evaluation of the building for dismantling and re-installation CONSULTANT structural staff will develop foundation plans for the new site where the building can be re-erected. The building currently has an exposed compacted earth floor. The new location will be similarly re-constructed with a P-219 type or similar compacted base. The building has electrical and potable water services which will need to be re-fed at the new site. Conversation with maintenance staff indicates a desire to have this storage facility located near the new Maintenance facility. The new location will require Pinellas County Site Plan permitting as well as modification of water management district permit. This siting option shall be explored as part of the scope and the new building location approved by the airport. The location selected by the airport will require evaluation related to floodplain and building elevation impacts from recently updated FEMA mapping and Limit of Moderate Wave Action (LIMWA) line.

Associated with this effort the following drawings will need to be developed:

- Existing Conditions Plan
- New Site Plan



- Grading and Drainage Plan
- Signage and Marking Plan
- Building Demolition Plan
- Foundation Plan
- Structural reconstruction Plan and Details
- Electrical and Lighting Plan and Details
- Mechanical Plan and Details
- Plumbing Plan and Details

IV-B. Pinellas County Site Plan for Relocation of Storage Building

If the relocation of the existing storage building (also known as “cart barn”) is determined to be feasible, its final location will be subject to Site Plan review by Pinellas County. Typical requirements of site plan permitting include:

- Landscaping
- Parking
- Mechanical and Electrical design
- Stormwater and drainage design
- Floodplain impacts
- Concurrency and Adequate Public Facilities

CONSULTANT will assist the Airport with discussions with the County permitting staff regarding waivers for Pinellas County Land Development Code requirements incompatible with the airport environment, such as wildlife attractant landscaping.

V. BIDDING PHASE SERVICES

V-A. Bidding Assistance

Assist the County/Airport in advertising and obtaining bids for the prime contract for construction, materials, equipment and services. County will issue bidding and contract documents to all prospective bidders.

V-B. Conduct Pre-bid Conference

Prepare for, attend and conduct one prebid conference and site visit in conjunction with the County/Airport staff to outline the project and answer questions from interested contractors. CONSULTANT will prepare the minutes of the prebid conference and provide to County Purchasing through the Airport for distribution to the list of attendees and future plan holders within the bid period.

V-C. Respond to Bidder's Inquiries

Prepare addenda as appropriate to interpret, clarify or expand the Bidding Documents within the bid period and upon approval by the Airport, issue addenda to County Purchasing for distribution.



V-D. Evaluate Bids and Recommend Award

Prepare bid tabulation summary and assist the County/Airport in evaluating bids or proposals and in assembling contracts for construction, materials, equipment and services. Provide written recommendations to the County/Airport for the award of construction contract to the most favorable, responsive bidder.

V-E. Conformed Construction Documents

Issue executed contract documents and assemble conformed documents including all addenda, for issue to the Airport and the Contractor.

VI. CONSTRUCTION SERVICES

VI-A. Construction Management

VI-A01. Kick off Meeting

CONSULTANT shall attend one project kickoff meeting with the City, FAA, and Engineer of Record (EOR) representatives to establish coordination objectives, lines of communication and project procedures.

VI-A02. Construction Management Program (CMP)

Prepare Construction Management Program (CMP) in accordance with FAA AC 150/5370-12B Quality Management for Federally Funded Airport Construction Projects, for Airport and FAA review and approval.

VI-A03. Pre-Construction Conference

Attend one Pre-Construction Conference. CONSULTANT will conduct the Pre-Construction Conference in accordance with FAA AC 150/5300-9 Pre-design, Pre-Bid, and Pre-Construction Conferences for Airport Grant Projects to ensure that the attendees are aware of the design, construction, and safety requirements of the project and are informed of their individual responsibilities.

VI-A04. Pre-Construction Site Visit

Prepare for and conduct one Pre-Construction site visit with Contractor, Airport and RPRs to review staging and access areas, project limits, haul routes, stockpile areas and outline safety and security items.

VI-A05. Pre-Pave Meeting and Test Strip

Prepare for and conduct one Pre-Pave Meeting, and One-day of Test Strip Consultation. CONSULTANT will conduct the Pre-Pave Meeting to review approved paving submittals, Quality Control and Quality Assurance during paving, paving testing procedures, acceptance factors, paving plan, and schedule. AVCON will also attend a one-day session to monitor the test strip and all subsequent testing submittals and approvals prior to production paving on the project.

VI-A06. General Construction Administration

Perform General Construction Administration. CONSULTANT will provide general consultation and advice to the Airport during the construction phase of the project. CONSULTANT will provide general coordination between the Airport, the FDOT, and the FAA during the construction phase of the project. CONSULTANT will assist the Airport with the preparation and issuance of Construction Change Directives (CCD),



recommend construction specification waivers, and advise the Airport as to Contractor's performance.

VI-A07. RPR Support

CONSULTANT will provide general support to the RPR including providing technical documentation, performing construction contract interpretation, analyzing unusual or unique developments or complications during construction, and communicating and corresponding with the RPR regarding contract administration, project changes, and other construction related matters. CONSULTANT will communicate and coordinate with the contractor, Airport, FAA, FDOT, and CM on a regular basis throughout the construction phase of the project in the form of teleconferences and/or email.

VI-A08. Progress and Special Meetings

Conduct regular coordination meetings and other special meetings as necessary to resolve such matters as procedures, progress, field issues and scheduling. Take minutes of each for distribution to the Contractor, Airport, and other meeting participants.

VI-A09. Site Visits

Attend weekly site visits in coordination with regular construction meetings. Make periodic written reports to the CM and Airport as necessary to advise of any deviation from the contract documents. Project is assumed to last twelve (12) months.

VI-A10. Contractor Submittals

Coordinate receipt, routing and distribution of submittals and test reports to the design team. Maintain a submittal log of all contractor submittals recording actions taken by the Engineer of Record. Provide review and responses to contractor submittals.

VI-A11. Construction Change Directives

Prepare Construction Change Directives as required; act as interpreter of the terms and conditions of the contract documents and recommend to Airport disposition of change orders and render opinion of Contractor positions involving disputed demands for payment and/or opinions. All matter regarding design intent to be made solely by the CONSULTANT.

VI-A12. Design Clarification and Recommendations

Provide design clarification and recommendations to the Airport project representative. Evaluate contractor change and cost proposal and substitutions and claims and recommend disposition to the Airport.

VI-A13. Contractor Applications for Payment

Review contractor applications for payment and all supporting information in compliance with Federal and State provisions and law and make recommendation for payment in accordance with the contract documents. Coordinate with the RPR on any clarifications necessary during review.

VI-A14. Substantial Completion Inspection

Coordinate and perform with the CM and Airport representatives one (1) substantial completion inspection to determine whether construction is in accordance and in compliance with contract requirements. Generate Substantial Completion Inspection Punch List.



VI-A15. Final Inspection

Coordinate and perform with the CM and Airport representatives a final inspection to determine construction is in accordance and in compliance with contract requirements. Make recommendation of final payment to the contractor.

VI-A16. Warranties and Closeout

Coordinate and assist the Airport in receiving all contractually required closeout documentation such as warranties, manufacturer's data, etc. required of the contractor for submission to the Airport in accordance with the contract documents

VI-A17. Record Drawings

Provide one set of red-lined record drawings to the EOR for final record drawing production. All changes incurred during the construction (via change orders, supplemental instructions and sketches) shall be reflected on these documents.

VI-A18. Certification

Provide upon project closeout a written statement signed and sealed by the project engineer that the construction was completed in substantial conformance with the contract documents noting any exceptions made by CONSULTANT or by filed order as approved by the Airport or CM.

VI-B. Resident Project Representative Tasks

The RPR will in general:

1. Be present every work day to observe the construction activities for conformance with the intent of the design, FAA, and FDOT standards. CONSULTANT will provide a qualified construction RPR to observe that the construction is carried out in reasonably close conformity with the contract documents and in accordance with the customary construction practices.
2. Measure, compute, and/or monitor quantities of work performed and quantities of materials in-place for partial and final payments to the contractor. The RPR will prepare and maintain cost estimates and construction quantity estimates for use in preparing monthly payment reimbursement requests and for monitoring the progress of the Contractor's work. The RPR will prepare daily construction progress reports of the construction activities that are observed and will submit the reports to the Engineer for review. The RPR will prepare monthly construction summary reports of completed work that has been accepted and approved and will submit the reports to the Engineer of Record (EOR) for review.
3. Review and approve initial requests for monthly and final payments to the contractor, prior to forwarding to the EOR for further review and approval.
4. Coordinate the construction activity with the Airport and attend construction meetings.
5. Review up-to-date record drawings completed by and received from the Contractor. Maintain a separate set of red-lines for consolidation with the Contractor's red-line annotations of the construction plans and for incorporation into the as-built record drawings by CONSULTANT.
6. Advise the EOR of any construction problems, RFI's, and any necessary Change Order work, and make suggestions for resolution.



7. Attend the Pre-Construction Conference, substantial completion inspection, and final inspection.
8. The RPR will be CONSULTANT's primary contact with the contractor and their subcontractors during the course of construction. The RPR will be available to meet with the representatives of the Airport, the FAA, the FDOT, and other interested parties at the project location. The RPR will coordinate and supervise CONSULTANT's subconsultants and personnel who are performing on-site testing, surveying, or other project related services.
9. The RPR will monitor and coordinate the construction progress; will coordinate with the Airport, the EOR, and the contractor; will provide construction oversight to ensure that the work is proceeding according to the construction contract documents; and will notify the Engineer if problems, disputes, or changes arise during the course of construction.
10. The RPR will oversee the contractor's construction surveying to identify the limits of work, to determine elevations and grades, to locate physical features discovered during the course of construction, and to calculate quantities of materials either removed or utilized on the project. The contractor's construction survey data will be incorporated into the record drawings at the completion of the project. CONSULTANT will provide the RPR with CADD support to plot the results of the construction survey data
11. Attend weekly and scheduled meetings with the contractor and EOR such as the preconstruction conference, weekly progress meetings, contractor safety and phasing meetings, job activity preparatory conferences, and other project related meetings.
12. Act as the Airport's agent at the project site.
13. Conduct on site observations of the work to assist the EOR in determining if the work is in general proceeding in accordance with the Contract Documents. Report any unsatisfactory or non-conforming work that does not meet the contract documents or does not meet the requirements of any inspection, test or approval required.
14. Maintain shop drawings, project correspondence, reports, and all related project documentation (Addenda, Change Orders, Field Orders, Supplemental Agreements, etc.) on site and coordinate on-site meetings and activities between the EOR, consultants, contractor and the City.
15. Consult with the Airport, Construction Manager, and EOR in advance of scheduled major tests, inspections or start of important phases of the Work.
16. During the course of the Work, verify that certificates and other data required to be furnished by the Contractor are in accordance with the Contract Documents.
17. Conduct a final inspection and prepare a final punch list of items to be corrected.
18. Monitor contractor on-site operations and site conditions are in compliance contractual safety and health provisions, FAA, and Airport security requirements.
19. Assist the EOR and Airport with ascertaining factual information and records related to contractor disputes.

VI-C. Specific Engineering Inspections

Due to the importance of this project, and the specific engineering detail required in addition to the RPR inspections, which will be conducted by one of AVCON's highly qualified airport



inspections, AVCON engineering staff will perform periodic inspections specifically to ensure the highest quality and attention to the engineer's details are met or exceeded. These specific engineering inspections will be performed by AVCON's senior engineering staff from each discipline at critical times at the RPR's discretion. Details of these inspections can be found in the table below:



St-Pete Clearwater International Airport
Design of Airco Taxiways

Phase	Mobilization	Normal Construction	Taxiway Work in RSA	Airfield Lighting work in RSA	Punchlist and Close-out
Days	60	308	30	30	30
Working Days	5 days/wk	5 days/wk	7 days/wk	7 days/wk	5 days/wk
Inspection days					
Hours per day	8	10	10	10	8
Contractor Activity	Procurement Submittals and Shop Drawings	Taxiway Construction	New taxiway construction or existing taxiway demolition at night during runway closure.	Airfield lighting at night during runway closure, after taxiway is constructed	Final Pavement Markings Punchlist and Closeout
RPR 1 (Day to Day RPR)	Plans and specs review. Pre-con, Submittals and Shop Drawings. CSPP and SPCD. Field setup	Daytime work. Project oversight, paving, earthwork, drainage, electrical inspection			Permanent markings Project oversight, closeout books, and punch list
RPR 2			Night work. Grading, drainage base and asphalt for taxiway.		
RPR 3				Night work. Airfield lighting and signage inspection.	
Specific Inspector P-401 Asphalt		Pre-Pave meeting First 2 days of paving in the field and in the plant			QA/QC Reports



St-Pete Clearwater International Airport
Design of Airco Taxiways

Phase	Mobilization	Normal Construction	Taxiway Work in RSA	Airfield Lighting work in RSA	Punchlist and Close-out
Specific Inspector Electrical		First day of airfield lighting and signage installation			Vault Startup and final inspection
Specific Inspector Pavement Markings		First application of Temp markings			Permanent markings
Contract Administrator	Filing, RPR reports, employee interviews, payrolls, transmittals, RFI log, ESI log, Shop Drawing Log, test report log, etc				Closeout Books



VII. BASIC ASSUMPTIONS

The following is a list of assumptions, which forms the basis of this cost proposal for providing the services for the project.

1. The Airport will provide CONSULTANT with information requested necessary to properly complete design. Items include, but are not be limited to:
 - a. Latest Airport Master Plan and Airport Layout Plan
 - b. Airport Stormwater Master Plan
 - c. Latest pertinent information regarding anticipated airside apron and building activities on the Airco development site
 - d. Airport Operations, Airport Facilities, and ARFF vehicles reasonably expected to traverse relocated perimeter road.
2. All data collection efforts (survey, geotechnical, etc.) requiring CONSULTANT or its subconsultant's personnel to be within the safety area of airfield will be performed during daylight hours with the appropriate pavement closed unless otherwise directed by the Airport.
3. Airport will to the extent practicable mow or otherwise clear the PROJECT area prior to field investigations such as survey, geotechnical testing, SUE, etc.
4. Permit Fees will be paid by the Airport.
5. Neither the CONSULTANT nor the Airport can control permit agencies' interpretation of the PROJECT, associated review times, and lead times associated with agency field visits. Should a permit agency require more extensive permitting than assumptions contained herein, CONSULTANT will advise the Airport of Additional Services necessary to complete the permitting process.
6. No wetland impacts or wetland mitigation is anticipated (as documented in the January 2020 Environmental Assessment for the Redevelopment of the Airco Parcel).
7. It is anticipated that the project should be exempt from Section 404 permitting under the Clean Water Act (assumed by the State of Florida by the FDEP) because the project impacts are limited to upland cut drainage ditches that are part of a permitted stormwater management system. This scope of work does not include State Assumed 404 permitting.
8. Potential listed species impacts for state-listed species are not anticipated to require mitigation with the exception of gopher tortoises if their burrows are encountered.
9. Threatened or Endangered Species (T&E) permitting/relocations, Environmental Assessments (EA), Development of Regional Impacts (DRI), or Environmental Impact Statements (EIS) are not anticipated to be necessary and are excluded from the scope of work.
10. Potential federally-listed species identified in the 2020 EA document included Eastern Indigo Snakes and Wood Storks, both protected under the Endangered Species Act. It is not anticipated that a Biological Opinion or mitigation associated with potential impacts to these species will be necessary. Agency coordination included in this scope of work is limited to relaying existing information documented in the 2020 EA updated to reflect the current project's potential impacts.
11. Duration of Construction Administration has been estimated to be twelve (12) months from NTP.
12. Other Services: Any other services not specifically listed in this Scope of Services are Additional Services.



VIII. CONTINGENCY SERVICES

When required by the Airport, AVCON shall furnish or obtain from others, as circumstances may require, additional services of the types listed below. These services are not included as part of Basic or Optional Services. CONSULTANT shall advise the Airport and receive prior approval before starting any such Contingency Services which will be paid for in accordance with the Task Order or Supplement thereto.

1. Services in connection with work directive changes and change orders requested by the County/Airport not covered by the Basic or Optional Services.
2. Services resulting from revisions and re-bidding, should the Airport reject bids
3. Additional services resulting from a construction duration, Construction Administration, or RPR services duration exceeding that which has been provided for at the outset of design in this Scope and attached fee.
4. Evaluating an unreasonable or extensive number of claims submitted by contractor(s) or others in connection with the work.
5. Services resulting from the contractor's failure to complete his work in the number of days allowed in the contract between the Airport and the selected contractor.
6. No wetland impacts or wetland mitigation is anticipated (as documented in the January 2020 Environmental Assessment for the Redevelopment of the Airco Parcel).
7. It is anticipated that the project should be exempt from Section 404 permitting under the Clean Water Act (assumed by the State of Florida by the FDEP) because the project impacts are limited to upland cut drainage ditches that are part of a permitted stormwater management system. This scope of work does not include State Assumed 404 permitting.
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9. Potential federally-listed species identified in the 2020 EA document included Eastern Indigo Snakes and Wood Storks, both protected under the Endangered Species Act. It is not anticipated that a Biological Opinion or mitigation associated with potential impacts to these species will be necessary. Agency coordination included in this scope of work is limited to relaying existing information documented in the 2020 EA updated to reflect the current project's potential impacts.
10. Environmental Assessments (EA), Development of Regional Impacts (DRI), or Environmental Impact Statements (EIS).

FEE SUMMARY

BASIC SERVICES - DESIGN PHASE			
		TOTAL BASIC SERVICES :	\$ 566,070.00
TOTAL BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - DESIGN:		\$	122,916.25
		TOTAL BIDDING PHASE SERVICES:	\$ 13,618.00
		TOTAL DESIGN PHASE EXPENSES:	\$ 5,920.00
SUBTOTAL BASIC SERVICES - DESIGN PHASE:			\$ 708,524.25

BASIC SERVICES - CONSTRUCTION PHASE			
		TOTAL CONSTRUCTION SERVICES:	\$ 528,998.00
TOTAL BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - CONSTRUCTION MANAGEMENT:		\$	54,144.00
		TOTAL CONSTRUCTION PHASE EXPENSES:	\$ 1,625.00
SUBTOTAL BASIC SERVICES - CONSTRUCTION PHASE:			\$ 584,767.00

OPTIONAL SERVICES			
		TOTAL OPTIONAL SERVICES:	\$ 73,305.00
TOTAL OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - DESIGN:		\$	16,892.75
TOTAL OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - CONSTRUCTION MANAGEMENT:		\$	2,816.00
SUBTOTAL OPTIONAL SERVICES:			\$ 93,013.75

GRAND TOTAL: \$ 1,386,305.00

HOUR AND FEE ESTIMATE

DBE PARTICIPATION		
	DBE GOAL:	5.09%
PROPOSED DBE PARTICIPATION (BASIC SERVICES ONLY):	\$	88,249.25
PROPOSED DBE PARTICIPATION PERCENTAGE (BASIC SERVICES ONLY):		6.82%
PROPOSED DBE PARTICIPATION (BASIC + OPTIONAL SERVICES):	\$	101,106.00
PROPOSED DBE PARTICIPATION PERCENTAGE (BASIC + OPTIONAL SERVICES):		7.29%

HOUR AND FEE ESTIMATE

BASIC SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Contract Administrator			TOTAL	
			\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00			Hours	Fee
			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee			
ACTIVITY			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee		Hours	Fee
II Project Scope and Understanding																			
II-A	Project Initiation/Coordination		2	\$516		\$0	30	\$5,670	12	\$2,028		\$0	4	\$304	4	\$416		52.00	\$ 8,934.00
II-B	General Coordination		4	\$1,032		\$0	30	\$5,670	16	\$2,704		\$0	4	\$304	6	\$624		60.00	\$ 10,334.00
II-C	Subconsultant Coordination																		
	II-C01	Project Survey		\$0		\$0	3	\$567	16	\$2,704	38	\$4,066	4	\$304		\$0		61.00	\$ 7,641.00
	II-C02	Subsurface Utility Engineering		\$0		\$0	3	\$567	16	\$2,704	22	\$2,354	4	\$304		\$0		45.00	\$ 5,929.00
	II-C03	Geotechnical Investigations		\$0		\$0	3	\$567	16	\$2,704	14	\$1,498	4	\$304		\$0		37.00	\$ 5,073.00
	II-C04	Drainage and Stormwater Permitting		\$0		\$0	3	\$567	32	\$5,408		\$0		\$0		\$0		35.00	\$ 5,975.00
	II-C05	Environmental Permitting		\$0		\$0	2	\$378		\$0	16	\$1,712		\$0		\$0		18.00	\$ 2,090.00
II-E	Permit Agency Design and Applications																		
	II-E01	Stormwater Design and Permitting	1	\$258	1	\$245	24	\$4,536	56	\$9,464	40	\$4,280	32	\$2,432		\$0		154.00	\$ 21,215.00
	II-E02	Environmental Permitting	1	\$258	1	\$245	8	\$1,512		\$0	8	\$856		\$0	2	\$208		20.00	\$ 3,079.00
	II-E03	Utility Design and Permitting	1	\$258	1	\$245	24	\$4,536	40	\$6,760	20	\$2,140	32	\$2,432		\$0		118.00	\$ 16,371.00
	II-E04	Pinellas County Site Plan		\$0		\$0		\$0		\$0		\$0		\$0		\$0		0.00	\$ -
	II-E05	OE/AAA																	
	II-E05a	CSPP		\$0	2	\$490	6	\$1,134	8	\$1,352	24	\$2,568	4	\$304	4	\$416		48.00	\$ 6,264.00
	II-E05b	Airspace Analysis		\$0		\$0	2	\$378	8	\$1,352	10	\$1,070	12	\$912		\$0		32.00	\$ 3,712.00
SUBTOTAL Project Scope and Understanding:			9	\$2,322	5	\$1,225	138	\$26,082	220	\$37,180	192	\$20,544	100	\$7,600	16	\$1,664		680.00	\$ 96,617.00
III Design Phase																			
III-A Preliminary Design and Programming																			
	III-A01	Data and Record Collection	1	\$258		\$0	16	\$3,024	16	\$2,704	16	\$1,712	36	\$2,736	3	\$312		88.00	\$ 10,746.00
	III-A02	Field Investigation		\$0		\$0	8	\$1,512	60	\$10,140	40	\$4,280		\$0		\$0		108.00	\$ 15,932.00
	III-A03	Project Validation	1	\$258	1	\$245	6	\$1,134	16	\$2,704	16	\$1,712	36	\$2,736		\$0		76.00	\$ 8,789.00
	III-A04	Schedule of Permits		\$0		\$0	1	\$189	4	\$676	4	\$428		\$0	1	\$104		10.00	\$ 1,397.00
SUBTOTAL Preliminary Design and Programming:			2	\$ 516	1	\$ 245	31	\$ 5,859	96	\$ 16,224	76	\$ 8,132	72	\$ 5,472	4	\$ 416		282.00	\$ 36,864.00
III-B 50% Design																			
	III-B01	Pre-application Meetings		\$0		\$0	16	\$3,024	16	\$2,704		\$0	6	\$456		\$0		38.00	\$ 6,184.00
	III-B02	Deviations from Standards Memorandum	1	\$258		\$0	4	\$756	16	\$2,704	4	\$428	4	\$304	2	\$208		31.00	\$ 4,658.00
	III-B03	FAA and FDOT Meeting	1	\$258		\$0	8	\$1,512	8	\$1,352		\$0	3	\$228	2	\$208		22.00	\$ 3,558.00
	III-B04	Working Design Meeting	1	\$258		\$0	4	\$756	6	\$1,014		\$0	3	\$228		\$0		14.00	\$ 2,256.00
	III-B05	Construction Schedule	1	\$258	3	\$735	16	\$3,024	16	\$2,704	8	\$856	6	\$456		\$0			
	III-B06	Cost Estimate	1	\$258		\$0	12	\$2,268	12	\$2,028	16	\$1,712	20	\$1,520	2	\$208		63.00	\$ 7,994.00
	III-B07	Engineering Report	1	\$258		\$0	6	\$1,134	12	\$2,028	32	\$3,424		\$0	2	\$208		53.00	\$ 7,052.00
	III-B08	Project Manual	1	\$258		\$0	8	\$1,512	30	\$5,070	24	\$2,568		\$0	8	\$832		71.00	\$ 10,240.00
	III-B09	Plans	12	\$3,096	0	\$0	92	\$17,388	285	\$48,165	336	\$35,952	569	\$43,244	0	\$0		1294.00	\$ 147,845.00
	III-B10	QA/QC	1	\$258	32	\$7,840		\$0		\$0		\$0		\$0		\$0		33.00	\$ 8,098.00
	III-B11	50% Review Meeting	1	\$258		\$0	8	\$1,512	16	\$2,704		\$0		\$0	2	\$208		27.00	\$ 4,682.00
	III-B12	Documentation		\$0		\$0	8	\$1,512	8	\$1,352	8	\$856		\$0	4	\$416		28.00	\$ 4,136.00
	III-B13	Stakeholder Meeting	1	\$258		\$0	8	\$1,512	8	\$1,352	4	\$428	8	\$608	2	\$208		31.00	\$ 4,366.00
SUBTOTAL 50% Design:			22	\$ 5,676	35	\$ 8,575	190	\$ 35,910	433	\$ 73,177	432	\$ 46,224	619	\$ 47,044	24	\$ 2,496		1705.00	\$ 211,069.00

HOUR AND FEE ESTIMATE

BASIC SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Contract Administrator			TOTAL	
			\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00			Hours	Fee
			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee			
III-C 90% Design																			
	III-C01	Calculations		\$0		\$0	8	\$1,512	16	\$2,704	40	\$4,280	8	\$608		\$0		72.00	\$ 9,104.00
	III-C02	Working Design Meeting	1	\$258		\$0	4	\$756	6	\$1,014		\$0	2	\$152		\$0		13.00	\$ 2,180.00
	III-C03	ALP Update	1	\$258		\$0	4	\$756	4	\$676	6	\$642	16	\$1,216		\$0		31.00	\$ 3,548.00
	III-C04	OE/AAA and CSPP		\$0		\$0	1	\$189	4	\$676	8	\$856	4	\$304	2	\$208		19.00	\$ 2,233.00
	III-C05	Cost Estimate		\$0		\$0	8	\$1,512	8	\$1,352	12	\$1,284	16	\$1,216	2	\$208		46.00	\$ 5,572.00
	III-C06	Engineering Report	1	\$258		\$0	10	\$1,890	16	\$2,704	20	\$2,140		\$0	2	\$208		49.00	\$ 7,200.00
	III-C07	Project Manual	1	\$258		\$0	10	\$1,890	20	\$3,380	20	\$2,140		\$0	12	\$1,248		63.00	\$ 8,916.00
	III-C08	Plans	10	\$2,580	0	\$0	74	\$13,986	228	\$38,532	269	\$28,783	455	\$34,580	0	\$0		1036.00	\$ 118,461.00
	III-C09	QA/QC	1	\$258	32	\$7,840		\$0		\$0		\$0		\$0		\$0		33.00	\$ 8,098.00
	III-C10	90% Review Meeting	1	\$258		\$0	8	\$1,512	16	\$2,704		\$0		\$0	2	\$208		27.00	\$ 4,682.00
	III-C11	Documentation		\$0		\$0	8	\$1,512	8	\$1,352	8	\$856		\$0	4	\$416		28.00	\$ 4,136.00
	III-C12	Funding Agency Review	1	\$258		\$0	4	\$756		\$0		\$0	4	\$304	3	\$312		12.00	\$ 1,630.00
SUBTOTAL 90% Design:			17	\$ 4,386	32	\$ 7,840	139	\$ 26,271	326	\$ 55,094	383	\$ 40,981	505	\$ 38,380	27	\$ 2,808		1429.00	\$ 175,760.00
III-D Final Design																			
	III-D01	Working Design Meeting	1	\$258	0	\$0	4	\$756	6	\$1,014		\$0	2	\$152		\$0		13.00	\$ 2,180.00
	III-D02	Calculations		\$0		\$0	2	\$378	8	\$1,352	20	\$2,140	2	\$152		\$0			
	III-D03	Regulatory Agency Permits		\$0		\$0	2	\$378	12	\$2,028		\$0	8	\$608	4	\$416			
	III-D04	Cost Estimate		\$0		\$0	2	\$378	2	\$338	2	\$214	8	\$608	1	\$104			
	III-D05	Engineering Report		\$0	0	\$0	4	\$756	6	\$1,014	8	\$856		\$0	2	\$208		20.00	\$ 2,834.00
	III-D06	100% Project Manual		\$0	0	\$0	8	\$1,512	8	\$1,352	6	\$642		\$0	3	\$312		25.00	\$ 3,818.00
	III-D07	100% Plans	2	\$516	0	\$0	18	\$3,402	57	\$9,633	67	\$7,169	114	\$8,664	0	\$0		258.00	\$ 29,384.00
	III-D08	QA/QC	1	\$258	20	\$4,900		\$0		\$0		\$0		\$0		\$0		21.00	\$ 5,158.00
	III-D09	Documentation		\$0	0	\$0	4	\$756	4	\$676	6	\$642		\$0	3	\$312		17.00	\$ 2,386.00
SUBTOTAL Final Design:			4	\$ 1,032	20	\$ 4,900	44	\$ 8,316	103	\$ 17,407	109	\$ 11,663	134	\$ 10,184	13	\$ 1,352		354.00	\$ 45,760.00
TOTALS			54	\$13,932	93	\$22,785	542	\$102,438	1178	\$199,082	1192	\$127,544	1430	\$108,680	84	\$8,736		4450.00	\$ 566,070.00

TOTAL BASIC SERVICES : \$ 566,070.00

HOUR AND FEE ESTIMATE

PLAN SHEET PREPARATION - BASIC SERVICES

	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Engineer		Project Engineer		CADD Designer		Contract Administrator				TOTAL	
		\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00				Hours	Fee
		No. of sheets	Hours	Fee		Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee				
ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION																			
General Drawings																			
COVER SHEET	1			\$0		\$0	1	\$189		\$0	4	\$304		\$0			5.00	\$ 493.00	
INDEX OF DRAWINGS	1			\$0		\$0	1	\$189	4	\$676		\$0	8	\$608		\$0	13.00	\$ 1,473.00	
PROJECT LAYOUT	1			\$0		\$0	4	\$756	4	\$676	6	\$642	12	\$912		\$0	26.00	\$ 2,986.00	
GENERAL NOTES	2			\$0		\$0	2	\$378	4	\$676		\$0	4	\$304		\$0	10.00	\$ 1,358.00	
AIRSPACE PLAN	2			\$0		\$0	4	\$756	8	\$1,352	12	\$1,284	20	\$1,520		\$0	44.00	\$ 4,912.00	
OVERALL PHASING PLAN	1		2	\$516		\$0	4	\$756	12	\$2,028	8	\$856	16	\$1,216		\$0	42.00	\$ 5,372.00	
CONSTRUCTION SAFETY NOTES & DETAILS	3			\$0		\$0	4	\$756	8	\$1,352	8	\$856	10	\$760		\$0	30.00	\$ 3,724.00	
CONSTRUCTION PHASING PLANS	5		2	\$516		\$0	6	\$1,134	16	\$2,704	8	\$856	44	\$3,344		\$0	76.00	\$ 8,554.00	
GEOTECHNICAL INVESTIGATION PLAN	4			\$0		\$0	1	\$189	1	\$169		\$0	12	\$912		\$0	14.00	\$ 1,270.00	
GEOTECHNICAL INVESTIGATION DETAILS	3			\$0		\$0	1	\$189	1	\$169		\$0	8	\$608		\$0	10.00	\$ 966.00	
SUBSURFACE UTILITY ENGINEERING PLAN	3			\$0		\$0	2	\$378	2	\$338	4	\$428	10	\$760		\$0	18.00	\$ 1,904.00	
EXISTING INFORMATION PLAN (1":30' TYP)	10			\$0		\$0	2	\$378	12	\$2,028		\$0	30	\$2,280		\$0	44.00	\$ 4,686.00	
Civil Drawings																			
EROSION CONTROL PLAN	6			\$0		\$0	4	\$756	8	\$1,352	6	\$642	24	\$1,824		\$0	42.00	\$ 4,574.00	
EROSION CONTROL DETAILS	2			\$0		\$0	1	\$189	8	\$1,352	8	\$856	16	\$1,216		\$0	33.00	\$ 3,613.00	
DEMOLITION PLAN	8			\$0		\$0	8	\$1,512	16	\$2,704	32	\$3,424	40	\$3,040		\$0	96.00	\$ 10,680.00	
ALIGNMENT AND GEOMETRY PLAN	8		2	\$516		\$0	4	\$756	24	\$4,056	32	\$3,424	36	\$2,736		\$0	98.00	\$ 11,488.00	
TYPICAL SECTIONS AND CONSTRUCTION DETAIL:	10		2	\$516		\$0	4	\$756	16	\$2,704	24	\$2,568	30	\$2,280		\$0	76.00	\$ 8,824.00	
GRADING PLAN AND PROFILE	8		2	\$516		\$0	16	\$3,024	30	\$5,070	42	\$4,494	60	\$4,560		\$0	150.00	\$ 17,664.00	
EXISTING AND PROPOSED BASIN MAPS*	4			\$0		\$0	8	\$1,512	12	\$2,028	16	\$1,712	36	\$2,736		\$0	72.00	\$ 7,988.00	
DRAINAGE PLAN	10		4	\$1,032		\$0	12	\$2,268	16	\$2,704	16	\$1,712	30	\$2,280		\$0	78.00	\$ 9,996.00	
DRAINAGE PROFILES	8			\$0		\$0	8	\$1,512	16	\$2,704	30	\$3,210	40	\$3,040		\$0	94.00	\$ 10,466.00	
DRAINAGE DETAILS	8			\$0		\$0	4	\$756	16	\$2,704	8	\$856	24	\$1,824		\$0	52.00	\$ 6,140.00	
CROSS SECTIONS	20			\$0		\$0	8	\$1,512	20	\$3,380	30	\$3,210	50	\$3,800		\$0	108.00	\$ 11,902.00	
UTILITY ADJUSTMENT PLAN AND PROFILE	8		2	\$516		\$0	6	\$1,134	16	\$2,704	20	\$2,140	24	\$1,824		\$0	68.00	\$ 8,318.00	
UTILITY ADJUSTMENT PHASING PLANS	2		2	\$516		\$0	12	\$2,268	24	\$4,056	16	\$1,712	20	\$1,520		\$0	74.00	\$ 10,072.00	
UTILITY CONFLICT/CROSSING DETAILS	1			\$0		\$0	1	\$189	12	\$2,028	8	\$856	16	\$1,216		\$0	37.00	\$ 4,289.00	
UTILITY ADJUSTMENT DETAILS	1			\$0		\$0	4	\$756	12	\$2,028	8	\$856	16	\$1,216		\$0	40.00	\$ 4,856.00	
PAVEMENT MARKING PLAN	8		1	\$258		\$0	2	\$378		\$0	16	\$1,712	24	\$1,824		\$0	43.00	\$ 4,172.00	
PAVEMENT MARKING DETAILS	4			\$0		\$0	4	\$756		\$0	8	\$856	20	\$1,520		\$0	32.00	\$ 3,132.00	
Fencing and Security Drawings																			
FENCING PLAN	3			\$0		\$0	2	\$378	2	\$338	4	\$428	20	\$1,520		\$0	100.00	\$ 12,864.00	
FENCING DETAILS	3			\$0		\$0	2	\$378	4	\$676	8	\$856	16	\$1,216		\$0	78.00	\$ 8,728.00	
TECHNOLOGY (FIBER OPTIC) PLANS	6		1	\$258		\$0	4	\$756	8	\$1,352	24	\$2,568	36	\$2,736		\$0	73.00	\$ 7,670.00	
TECHNOLOGY (FIBER OPTIC) DETAILS	4			\$0		\$0	2	\$378	8	\$1,352	32	\$3,424	16	\$1,216		\$0	58.00	\$ 6,370.00	
Airfield Lighting and Signage Drawings																			
ELECTRICAL GENERAL NOTES	1			\$0		\$0	1	\$189	20	\$3,380	20	\$2,140	8	\$608		\$0	49.00	\$ 6,317.00	
ELECTRICAL LEGEND	1			\$0		\$0	1	\$189		\$0	8	\$856	8	\$608		\$0	17.00	\$ 1,653.00	
TEMPORARY AIRFIELD LIGHTING PLAN	4			\$0		\$0	2	\$378	16	\$2,704	6	\$642	16	\$1,216		\$0	40.00	\$ 4,940.00	
TEMPORARY AIRFIELD LIGHTING DETAILS	1			\$0		\$0	1	\$189	8	\$1,352	10	\$1,070	12	\$912		\$0	31.00	\$ 3,523.00	
AIRFIELD LIGHTING KEY PLAN	1			\$0		\$0	1	\$189		\$0		\$0	12	\$912		\$0	13.00	\$ 1,101.00	
AIRFIELD LIGHTING DEMOLITION PLAN	7			\$0		\$0	4	\$756	8	\$1,352	8	\$856	20	\$1,520		\$0	40.00	\$ 4,484.00	
AIRFIELD LIGHTING LAYOUT PLAN	7			\$0		\$0	4	\$756	10	\$1,690	16	\$1,712	30	\$2,280		\$0	60.00	\$ 6,438.00	
AIRFIELD LIGHTING CIRCUITING PLAN	7		1	\$258		\$0	4	\$756	24	\$4,056	12	\$1,284	36	\$2,736		\$0	77.00	\$ 9,090.00	
AIRFIELD SIGN SCHEDULE	2		1	\$258		\$0	3	\$567	10	\$1,690	12	\$1,284	24	\$1,824		\$0	50.00	\$ 5,623.00	
AIRFIELD SIGN DETAILS	5			\$0		\$0	1	\$189	8	\$1,352	8	\$856	16	\$1,216		\$0	33.00	\$ 3,613.00	
AIRFIELD LIGHTING ELEVATED FIXTURE DETAILS	1			\$0		\$0	1	\$189	8	\$1,352	6	\$642	12	\$912		\$0	27.00	\$ 3,095.00	
AIRFIELD LIGHTING SEMI-FLUSH FIXTURE DETAIL:	2			\$0		\$0	1	\$189	8	\$1,352	6	\$642	12	\$912		\$0	27.00	\$ 3,095.00	
BASE CAN DETAILS	1			\$0		\$0	1	\$189	4	\$676	4	\$428	8	\$608		\$0	17.00	\$ 1,901.00	
JUNCTION CAN PLAZA DETAILS	1			\$0		\$0	1	\$189	4	\$676	2	\$214	10	\$760		\$0	17.00	\$ 1,839.00	

HOUR AND FEE ESTIMATE

PLAN SHEET PREPARATION - BASIC SERVICES

	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Engineer		Project Engineer		CADD Designer		Contract Administrator		TOTAL	
		\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00			
		No. of sheets	Hours	Fee		Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee
DUCT DETAILS	1			\$0		2	\$378	2	\$338	4	\$428	12	\$912		\$0	20.00	\$ 2,056.00
UTILITY PROTECTION DETAILS	1			\$0			\$0	4	\$676	2	\$214	8	\$608		\$0	14.00	\$ 1,498.00
AIRFIELD WIRING DETAILS	1			\$0		1	\$189	4	\$676	8	\$856	12	\$912		\$0	25.00	\$ 2,633.00
AIRFIELD LIGHTNING ARRESTOR DETAILS	2			\$0		1	\$189	4	\$676	6	\$642	8	\$608		\$0	19.00	\$ 2,115.00
Airfield Vault and NAVAID Drawings																	
EXISTING AIRFIELD LIGHTING VAULT PLAN	1			\$0		1	\$189	4	\$676	6	\$642	12	\$912		\$0	23.00	\$ 2,419.00
PROPOSED AIRFIELD LIGHTING VAULT PLAN	1			\$0		1	\$189	8	\$1,352	6	\$642	8	\$608		\$0	23.00	\$ 2,791.00
ELECTRICAL PANEL SCHEDULES	2			\$0			\$0	20	\$3,380	16	\$1,712	6	\$456		\$0	42.00	\$ 5,548.00
ELECTRICAL ONE-LINE DIAGRAMS	2			\$0			\$0	8	\$1,352	24	\$2,568	8	\$608		\$0	40.00	\$ 4,528.00
ALCS BLOCK DIAGRAM AND SCHEMATIC	1			\$0			\$0		\$0	12	\$1,284	16	\$1,216		\$0	28.00	\$ 2,500.00
ALCS FIBER OPTIC TERMINATION DIAGRAM	1			\$0			\$0	12	\$2,028	16	\$1,712	16	\$1,216		\$0	44.00	\$ 4,956.00
ALCS TOUCH SCREEN LAYOUT	1		1	\$258		1	\$189	12	\$2,028	6	\$642	20	\$1,520		\$0	40.00	\$ 4,637.00
ALCS AND CCR CONTROL PRE-SETS	1		1	\$258		2	\$378	20	\$3,380	8	\$856	4	\$304		\$0	35.00	\$ 5,176.00
WIND CONE DETAILS	1			\$0		1	\$189	4	\$676	6	\$642	12	\$912		\$0	23.00	\$ 2,419.00
SUBTOTAL ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION:		225	24	\$6,192	0	\$0	184	\$34,776	570	\$96,330	672	\$71,904	1138	\$86,488	0	\$0	2708.00 \$ 311,492.00
TOTALS:			24	\$6,192	0	\$0	184	\$34,776	570	\$96,330	672	\$71,904	1138	\$86,488	0	\$0	2708.00 \$ 311,492.00

TOTAL PLAN SHEET PREPARATION - BASIC SERVICES: \$ 311,492.00

BREAKDOWN OF PLAN SHEET PREPARATION EFFORT BY SUBMITTAL (FIGURES CARRIED TO CORRESPONDING BASIC SERVICES SECTION)

PERCENTAGE																	
50% SUBMITTAL	50	12	\$3,096	0	\$0	92	\$17,388	285	\$48,165	336	\$35,952	569	\$43,244	0	\$0	1294.00	\$ 147,845.00
90% SUBMITTAL	40	10	\$2,580	0	\$0	74	\$13,986	228	\$38,532	269	\$28,783	455	\$34,580	0	\$0	1036.00	\$ 118,461.00
100% SUBMITTAL	10	2	\$516	0	\$0	18	\$3,402	57	\$9,633	67	\$7,169	114	\$8,664	0	\$0	258.00	\$ 29,384.00
TOTAL ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION:		100	24	\$6,192	0	\$0	184	\$34,776	570	\$96,330	672	\$71,904	1138	\$86,488	0	\$0	2588.00 \$ 295,690.00

*PLAN SHEETS PREPARED FOR PERMIT APPLICATIONS OR OTHER SUBMITTALS NOT INCLUDED IN THE CONSTRUCTION PLAN SET.

HOUR AND FEE ESTIMATE

BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES)

BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - DESIGN

SERVICE	DBE	TOTAL	CONSULTANT
1 Topographic Survey	x	\$55,113.25	Northwest Surveying, Inc.
2 Geotechnical Lab and Engineering Services		\$11,417.00	Tierra, Inc.
3 Geotechnical Field Services	x	\$11,253.00	Diversified Professional Services Corp.
4 Subsurface Utility Engineering	x	\$12,683.00	Echo, UES
5 Drainage Design and Permitting		\$23,250.00	Landon, Moree, and Associates, Inc.
6 Environmental Permitting Support	x	\$9,200.00	Blue Wing Environmental

TOTAL BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - DESIGN: \$ 122,916.25

BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - CONSTRUCTION MANAGEMENT

SERVICE	DBE	TOTAL	CONSULTANT
1 Materials Testing Services		\$54,144.00	Tierra, Inc.

TOTAL BASIC SERVICES (SPECIAL SUBCONSULTANT SERVICES) - CONSTRUCTION MANAGEMENT: \$ 54,144.00

HOUR AND FEE ESTIMATE

BIDDING PHASE SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Contract Administrator				TOTAL	
			\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00				Hours	Fee
			Hours	Fee			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee				
ACTIVITY																				
V	BIDDING PHASE																			
	V-A Bidding Assistance		2	\$516		\$0	2	\$378		\$0	8	\$856		\$0	2	\$208			14.00	\$ 1,958.00
	V-B Conduct Pre-bid Conference			\$0		\$0	2	\$378		\$0	4	\$428		\$0	1	\$104			7.00	\$ 910.00
	V-C Respond to Bidder's Inquiries			\$0		\$0	8	\$1,512	8	\$1,352	8	\$856	16	\$1,216	4	\$416			44.00	\$ 5,352.00
	V-D Evaluate Bids and Recommend Award			\$0		\$0	2	\$378		\$0	8	\$856		\$0	4	\$416			14.00	\$ 1,650.00
	V-E Conformed Construction Documents			\$0	2	\$516	4	\$756		\$0	4	\$428	16	\$1,216	8	\$832			34.00	\$ 3,748.00
	SUBTOTAL BIDDING PHASE:		2	\$516	2	\$516	18	\$3,402	8	\$1,352	32	\$3,424	32	\$2,432	19	\$1,976			113.00	\$ 13,618.00
TOTAL:			2	\$516	2	\$516	18	\$3,402	8	\$1,352	32	\$3,424	32	\$2,432	19	\$1,976			113.00	\$ 13,618.00

TOTAL BIDDING PHASE SERVICES: \$ 13,618.00

HOUR AND FEE ESTIMATE

CONSTRUCTION SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Construction Inspector		Contract Administrator		TOTAL			
			\$258.00		\$189.00		\$169.00		\$107.00		\$76.00		\$121.00		\$104.00				Hours	Fee
			Hours	Fee			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee				
VI CONSTRUCTION SERVICES																				
VI-A Construction Management																				
	VI-A01 Kick off Meeting		2	\$516	2	\$516		\$0		\$0		\$0		\$0	1	\$104		5.00	\$ 1,136.00	
	VI-A02 Construction Management Program			\$0	2	\$516	4	\$676	20	\$2,140		\$0		\$0		\$0		26.00	\$ 3,332.00	
	VI-A03 Pre-Construction Conference		1	\$258	2	\$516		\$0	2	\$214		\$0	2	\$242		\$0		7.00	\$ 1,230.00	
	VI-A04 Pre-Construction Site Visit		1	\$258	2	\$516		\$0		\$0		\$0		\$0		\$0		3.00	\$ 774.00	
	VI-A05 Pre-Pave Meeting and Test Strip			\$0	8	\$2,064	10	\$1,690		\$0		\$0		\$0		\$0		18.00	\$ 3,754.00	
	VI-A06 General Construction Administration			\$0	40	\$10,320	60	\$10,140	80	\$8,560		\$0		\$0		\$0		180.00	\$ 29,020.00	
	VI-A07 RPR Support		2	\$516	40	\$10,320	40	\$6,760	30	\$3,210		\$0		\$0		\$0		112.00	\$ 20,806.00	
	Progress and Special Meetings (52 meetings) (2 hrs per meeting to incl. agendas and minutes)			\$0	104	\$26,832		\$0		\$0		\$0		\$0	20	\$2,080		124.00	\$ 28,912.00	
	VI-A09 Site Visits (52 wks @ 1 visits/wk)		4	\$1,032	26	\$6,708	26	\$4,394		\$0		\$0		\$0		\$0		56.00	\$ 12,134.00	
	VI-A10 Contractor Submittals			\$0	20	\$5,160	30	\$5,070	80	\$8,560		\$0		\$0	20	\$2,080		150.00	\$ 20,870.00	
	VI-A11 Construction Change Directives			\$0	16	\$4,128	12	\$2,028		\$0		\$0		\$0	4	\$416		32.00	\$ 6,572.00	
	VI-A12 Design Clarification and Recommendations			\$0	30	\$7,740	40	\$6,760	20	\$2,140		\$0		\$0		\$0		90.00	\$ 16,640.00	
	VI-A13 Contractor Applications for Payment			\$0	20	\$5,160		\$0	24	\$2,568		\$0		\$0	8	\$832		52.00	\$ 8,560.00	
	VI-A14 Substantial Completion Inspection			\$0	4	\$1,032	24	\$4,056		\$0		\$0		\$0	4	\$416		32.00	\$ 5,504.00	
	VI-A15 Final Inspection			\$0	4	\$1,032	24	\$4,056		\$0		\$0		\$0	4	\$416		32.00	\$ 5,504.00	
	VI-A16 Warranties and Closeout			\$0	6	\$1,548	4	\$676		\$0		\$0		\$0	16	\$1,664		26.00	\$ 3,888.00	
	VI-A17 Record Drawings			\$0	4	\$1,032		\$0	20	\$2,140	40	\$3,040		\$0		\$0		64.00	\$ 6,212.00	
	VI-A18 Certification			\$0	2	\$516	2	\$338		\$0		\$0		\$0		\$0		4.00	\$ 854.00	
SUBTOTAL Construction Management:			10	\$2,580	332	\$85,656	276	\$46,644	276	\$29,532	40	\$3,040	2	\$242	77	\$8,008		1013.00	\$ 175,702.00	
VI-B Resident Project Representative Tasks																				
	Mobilization Phase (2 hours/week; 8 weeks)			\$0		\$0		\$0		\$0		\$0	16	\$1,936		\$0		16.00	\$ 1,936.00	
	RPR 1 Construction Phase (50 hours/week; 44 weeks)			\$0		\$0		\$0		\$0		\$0	2200	\$266,200		\$0		2200.00	\$ 266,200.00	
	RPR 2 Inspection of Night Work During Taxiway Construction in RSAs (Nightly Runway Closure) (10 hours/day; 30 days)			\$0		\$0		\$0		\$0		\$0	300	\$36,300		\$0		300.00	\$ 36,300.00	
	RPR 3 Inspection of Airfiled Electrical at night during Runway Closures (40 hours/week; 4 weeks)			\$0		\$0		\$0		\$0		\$0	160	\$19,360		\$0		160.00	\$ 19,360.00	
	Final Striping, Punch List and Closeout (40 hours/week; 4 weeks)			\$0		\$0		\$0		\$0		\$0	160	\$19,360		\$0		160.00	\$ 19,360.00	
SUBTOTAL Resident Project Representative Tasks:			0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2836	\$343,156	0	\$0		2836.00	\$ 343,156.00	
VI-C Specific Engineering Inspections																				
	Specific Engineering Inspection P-401 Asphalt Paving: (1 airfield engineer for 2 days)			\$0		\$0	20	\$3,380		\$0		\$0		\$0		\$0		20.00	\$ 3,380.00	
	Specific Engineering Inspection Airfield Electrical: (1 electrical engineer for 2 days)			\$0		\$0	20	\$3,380		\$0		\$0		\$0		\$0		20.00	\$ 3,380.00	
	Specific Engineering Inspection Pavement Markings: (1 specialty engineer for 2 days)			\$0		\$0	20	\$3,380		\$0		\$0		\$0		\$0		20.00	\$ 3,380.00	
SUBTOTAL Specific Engineering Inspections:			0	\$0	0	\$0	60	\$10,140	0	\$0	0	\$0	0	\$0	0	\$0		60.00	\$ 10,140.00	

HOUR AND FEE ESTIMATE

TOTAL:	10	\$2,580	332	\$85,656	336	\$56,784	276	\$29,532	40	\$3,040	2838	\$343,398	77	\$8,008			3909.00	\$ 528,998.00

TOTAL CONSTRUCTION SERVICES: \$ 528,998.00

HOUR AND FEE ESTIMATE

EXPENSES

DESIGN PHASE EXPENSES														
PRINTING (IN-HOUSE/REPRO PLOTS, QA/QC PLOTS, BLUE LINES, COPIES)														
		# of Sheets Per Set					Design Sheets		Number of Sets					
			50% Design	90% Design	100% Design		Subtotal		Submitted		Unit Cost		Total	
Size														
	22X34 Plotting	=	160	225	225	610	x	2	Sheets @	\$	2.00	x	\$ 2,440.00	
	11X17 Plotting	=	160	225	225	610	x	4	Sheets @	\$	1.00	x	\$ 2,440.00	
	8.5x11 Copies	=	600	1,000	1,000	2,600	x	4	Sheets @	\$	0.10	x	\$ 1,040.00	

HOUR AND FEE ESTIMATE

OPTIONAL SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Contract Administrator				TOTAL	
			\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00				Hours	Fee
			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee				
IV Optional Services																				
IV-A Building Deconstruction and/or Relocation																				
Project Survey				\$0		\$0		\$0		\$0	2	\$214	2	\$152		\$0		4.00	\$ 366.00	
Subsurface Utility Engineering				\$0		\$0		\$0		\$0	2	\$214	2	\$152		\$0		4.00	\$ 366.00	
Geotechnical Investigations				\$0		\$0		\$0		\$0	2	\$214	2	\$152		\$0		4.00	\$ 366.00	
IV-B Pinellas County Site Plan for Relocation of Storage Building																				
Pinellas County Site Plan			1	\$258	2	\$490	6	\$1,134	12	\$2,028	25	\$2,675	18	\$1,368		\$0		64.00	\$ 7,953.00	
SUBTOTAL Optional Services:			1	\$258	2	\$490	6	\$1,134	12	\$2,028	31	\$3,317	24	\$1,824	0	\$0		76.00	\$ 9,051.00	
III Design Phase (Optional Services)																				
III-A Preliminary Design and Programming																				
III-A01 Data and Record Collection				\$0		\$0		\$0		\$0		\$0	4	\$304	1	\$104		5.00	\$ 408.00	
III-A02 Field Investigation				\$0		\$0		\$0	8	\$1,352	8	\$856		\$0		\$0		16.00	\$ 2,208.00	
SUBTOTAL Preliminary Design and Programming:			0	\$ -	0	\$ -	0	\$ -	8	\$ 1,352	8	\$ 856	4	\$ 304	1	\$ 104		21.00	\$ 2,616.00	
III-B 60% Design																				
III-B09 Plans			2	\$516	0	\$0	11	\$2,079	66	\$11,154	62	\$6,634	130	\$9,880	0	\$0		271.00	\$ 30,263.00	
III-B10 QA/QC				\$0	2	\$490		\$0		\$0		\$0		\$0		\$0		2.00	\$ 490.00	
SUBTOTAL 60% Design:			2	\$ 516	2	\$ 490	11	\$ 2,079	66	\$ 11,154	62	\$ 6,634	130	\$ 9,880	0	\$ -		273.00	\$ 30,753.00	

HOUR AND FEE ESTIMATE

OPTIONAL SERVICES

Section	Sub-Task	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Civil Engineer		Project Engineer		CADD Designer		Contract Administrator		TOTAL	
			\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00			
			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee		
		ACTIVITY																
III-C 90% Design																		
	III-C08 Plans		2	\$516	0	\$0	8	\$1,512	52	\$8,788	50	\$5,350	104	\$7,904	0	\$0	216.00	\$24,070.00
	III-C09 QA/QC			\$0	3	\$735		\$0		\$0		\$0		\$0		\$0	3.00	\$735.00
		SUBTOTAL 90% Design:	2	\$516	3	\$735	8	\$1,512	52	\$8,788	50	\$5,350	104	\$7,904	0	\$-	219.00	\$24,805.00
III-D Final Design																		
	III-D07 Plans		0	\$0	0	\$0	2	\$378	13	\$2,197	12	\$1,284	26	\$1,976	0	\$0	53.00	\$5,835.00
	III-D08 QA/QC			\$0	1	\$245		\$0		\$0		\$0		\$0		\$0	1.00	\$245.00
		SUBTOTAL Final Design:	0	\$-	1	\$245	2	\$378	13	\$2,197	12	\$1,284	26	\$1,976	0	\$-	54.00	\$6,080.00
		TOTALS	5	\$1,290	8	\$1,960	27	\$5,103	151	\$25,519	163	\$17,441	288	\$21,888	1	\$104	643.00	\$73,305.00

TOTAL OPTIONAL SERVICES: \$ 73,305.00

HOUR AND FEE ESTIMATE

PLAN SHEET PREPARATION - OPTIONAL SERVICES

	Position Hourly Rate	Principal		QC Reviewer		Project Manager		Senior Engineer		Project Engineer		CADD Designer		Contract Administrator		TOTAL	
		\$258.00		\$245.00		\$189.00		\$169.00		\$107.00		\$76.00		\$104.00			
	No. of sheets	Hours	Fee			Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee	Hours	Fee		
ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION																	
Storage Building Relocation Drawings																	
EXISTING CONDITIONS PLAN	1		\$0		\$0	1	\$189		\$0	4	\$428	8	\$608		\$0	13.00	\$ 1,225.00
SITE PLAN	1	1	\$258		\$0	2	\$378	10	\$1,690	16	\$1,712	24	\$1,824		\$0	53.00	\$ 5,862.00
GRADING AND DRAINAGE PLAN	1		\$0		\$0	2	\$378	4	\$676	8	\$856	24	\$1,824		\$0	38.00	\$ 3,734.00
SIGNAGE AND MARKING PLAN	1		\$0		\$0		\$0	3	\$507		\$0	8	\$608		\$0	11.00	\$ 1,115.00
BUILDING DEMOLITION PLAN	1	1	\$258		\$0	1	\$189	20	\$3,380	8	\$856	16	\$1,216		\$0	46.00	\$ 5,899.00
BUILDING FOUNDATION PLAN	1		\$0		\$0	1	\$189	16	\$2,704	8	\$856	16	\$1,216		\$0	41.00	\$ 4,965.00
BUILDING FOUNDATION DETAILS	2		\$0		\$0	2	\$378	12	\$2,028	12	\$1,284	20	\$1,520		\$0	46.00	\$ 5,210.00
STRUCTURAL RECONSTRUCTION PLAN	1	1	\$258		\$0	1	\$189	16	\$2,704	6	\$642	16	\$1,216		\$0	40.00	\$ 5,009.00
STRUCTURAL RECONSTRUCTION DETAILS	4		\$0		\$0	1	\$189	12	\$2,028	4	\$428	24	\$1,824		\$0	41.00	\$ 4,469.00
MECHANICAL PLAN	1		\$0		\$0	2	\$378	8	\$1,352	16	\$1,712	20	\$1,520		\$0	46.00	\$ 4,962.00
MECHANICAL DETAILS	2		\$0		\$0	1	\$189	6	\$1,014	4	\$428	8	\$608		\$0	19.00	\$ 2,239.00
ELECTRICAL PLAN	1		\$0		\$0	2	\$378	4	\$676	10	\$1,070	12	\$912		\$0	28.00	\$ 3,036.00
LIGHTING PLAN	1		\$0		\$0	1	\$189	2	\$338	10	\$1,070	16	\$1,216		\$0	29.00	\$ 2,813.00
ELECTRICAL DETAILS	2		\$0		\$0	1	\$189	4	\$676	6	\$642	16	\$1,216		\$0	27.00	\$ 2,723.00
PLUMBING PLAN	1	1	\$258		\$0	2	\$378	8	\$1,352	8	\$856	16	\$1,216		\$0	35.00	\$ 4,060.00
PLUMBING DETAILS	2		\$0		\$0	1	\$189	6	\$1,014	4	\$428	16	\$1,216		\$0	27.00	\$ 2,847.00
SUBTOTAL ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION:	23	4	\$1,032	0	\$0	21	\$3,969	131	\$22,139	124	\$13,268	260	\$19,760	0	\$0	540.00	\$ 60,168.00
TOTALS:		4	\$1,032	0	\$0	21	\$3,969	131	\$22,139	124	\$13,268	260	\$19,760	0	\$0	540.00	\$ 60,168.00

TOTAL PLAN SHEET PREPARATION - OPTIONAL SERVICES: \$ 60,168.00

BREAKDOWN OF PLAN SHEET PREPARATION EFFORT BY SUBMITTAL (FIGURES CARRIED TO CORRESPONDING BASIC SERVICES SECTION)

PERCENTAGE																	
50% SUBMITTAL	50	2	\$516	0	\$0	11	\$2,079	66	\$11,154	62	\$6,634	130	\$9,880	0	\$0	271.00	\$ 30,263.00
90% SUBMITTAL	40	2	\$516	0	\$0	8	\$1,512	52	\$8,788	50	\$5,350	104	\$7,904	0	\$0	216.00	\$ 24,070.00
100% SUBMITTAL	10	0	\$0	0	\$0	2	\$378	13	\$2,197	12	\$1,284	26	\$1,976	0	\$0	53.00	\$ 5,835.00
TOTAL ENGINEERING/ DESIGN AND PLAN SHEET PREPARATION:	100	4	\$1,032	0	\$0	21	\$3,969	131	\$22,139	124	\$13,268	260	\$19,760	0	\$0	540.00	\$ 60,168.00

*PLAN SHEETS PREPARED FOR PERMIT APPLICATIONS OR OTHER SUBMITTALS NOT INCLUDED IN THE CONSTRUCTION PLAN SET.

HOUR AND FEE ESTIMATE

OPTIONAL SERVICES (SPECIAL SUBCONSULTANT SERVICES)

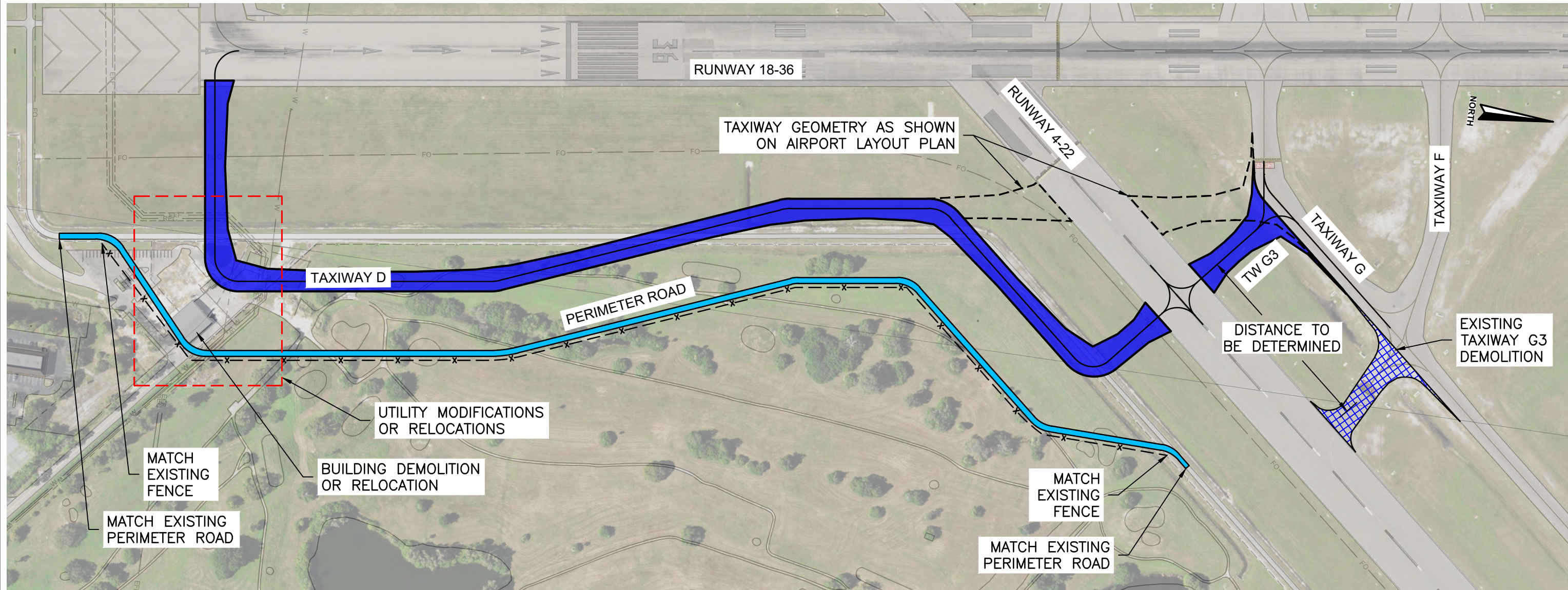
OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - DESIGN

SERVICE	DBE	TOTAL	CONSULTANT
1 Topographic Survey	x	\$5,611.75	Northwest Surveying, Inc.
2 Geotechnical Lab and Engineering Services		\$4,036.00	Tierra, Inc.
3 Geotechnical Field Services	x	\$2,145.00	Diversified Professional Services Corp.
4 Subsurface Utility Engineering	x	\$5,100.00	Echo, UES
			TOTAL OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - DESIGN: \$ 16,892.75

OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - CONSTRUCTION MANAGEMENT

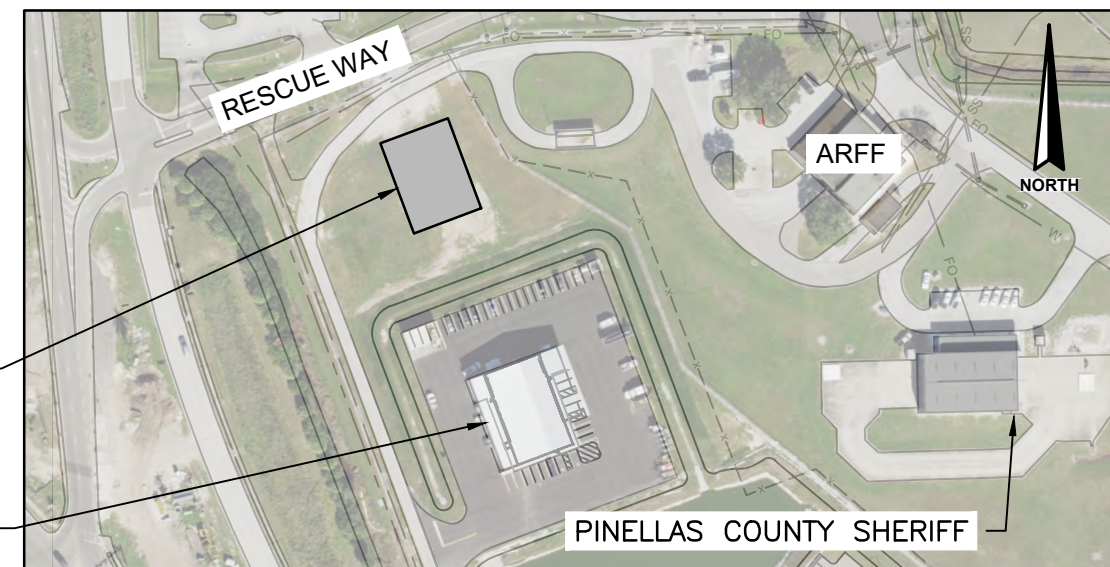
SERVICE	DBE	TOTAL	CONSULTANT
1 Materials Testing Services		\$2,816.00	Tierra, Inc.
			TOTAL OPTIONAL SERVICES (SPECIAL SUBCONSULTANTS SERVICES) - CONSTRUCTION MANAGEMENT: \$ 2,816.00

Y:\2021\2021.151.02 - PIE Airco Taxiways\2021.151.02 - CAD\Consultants\Survey\PIE OVERALL EXHIBIT.dwg 10/9/2021 4:30 PM



PROPOSED MAINTENANCE
BUILDING RELOCATION SITE

MAINTENANCE FACILITY



POTENTIAL BUILDING RELOCATION SITE (OPTIONAL SERVICES)

AIRCO TAXIWAYS PROGRAM



AVCON, INC.
ENGINEERS & PLANNERS
4500 140TH AVENUE, SUITE E105 - CLEARWATER, FL 33762
OFFICE: (813) 321-5588 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO. 5057
WWW.AVCONINC.COM



ATTACHMENT C



PROPOSAL / SCOPE OF WORK

DATE: September 2, 2021

TO: Sandeep Singh, PE - President
AVCON
5555 E Michigan Street, Suite 200
Orlando, FL 32822

FROM: Sarah Brammell, Blue Wing Environmental, LLC

RE: PIE AIRCO Taxiway Environmental Support Services

Blue Wing Environmental, LLC (BWE) has the qualifications and experience to provide Federal Aviation Administration (FAA) Qualified Airport Wildlife Biologist (QAWB) and environmental permitting services to AVCON (Client). The project includes services to review the designs and location for planned storm water management facilities and environmental permitting associated with the AIRCO Taxiway Project at St. Pete Clearwater International Airport (PIE).

SCOPE OF WORK

Task 1 – Environmental Permitting Support

BWE will support the client's Southwest Florida Water Management District (SWFWMD) Environmental Resource Permit (ERP) application and requests for additional information (RAIs) regarding potential wetland and protected species impacts. BWE will conduct a site visit to verify no jurisdictional wetlands are on-site, conduct habitat mapping, and complete a listed species inspection within the project boundary. BWE will provide an Environmental Narrative Report (ENR) to provide supporting documentation for the SWFWMD ERP permit application prepare by the Client. The ENR will include data for the development of a habitat map conforming with the Florida Land Use, Cover and Forms Classification System (FLUCFCS) - final map production by the Client. This scope of work includes up to two RAIs from permitting agencies.

Assumptions:

- No wetland impacts or wetland mitigation is anticipated (as documented in the January 2020 Environmental Assessment for the Redevelopment of the Airco Parcel).
- It is anticipated that the project should be exempt from Section 404 permitting under the Clean Water Act (assumed by the State of Florida by the FDEP) because the project impacts are limited to upland cut drainage ditches that are part of a permitted stormwater management system. This scope of work does not includes State Assumed 404 permitting.
- Potential listed species impacts for state-listed species are not anticipated to require mitigation with the exception of gopher tortoises if their burrows are encountered.

- Potential federally-listed species identified in the 2020 EA document included Eastern Indigo Snakes and Wood Storks, both protected under the Endangered Species Act. It is not anticipated that a Biological Opinion or mitigation associated with potential impacts to these species will be necessary. Agency coordination included in this scope of work is limited to relaying existing information documented in the 2020 EA updated to reflect the current project's potential impacts.

Task 2 – Wildlife Hazard Attractants Design Review

BWE will provide design review and best management practices to reduce wildlife hazard attractants associated with the proposed project's stormwater management facilities. In addition, BWE will assist in the development and review of the specification for airfield perimeter fencing and revegetation material for airfield turf following the construction phase of the project. BWE will provide reference to FAA guidance to reduce the risk of creating a wildlife hazard attractant for stormwater management facilities and planting materials and wildlife exclusion fencing.

SCHEDULE & DELIVERABLES

- NTB - To be determined

LABOR HOURS BY TASK ATTACHED

PIE Airco Taxiway
Date: September 2, 2021

	<i>Rate Category</i>	<i>Rate Category</i>	TOTAL HOURS
	<i>Sr. Ecologist</i>	<i>FAA QAWB</i>	
TASKS / BILLING RATES	(hours)	(hours)	
<i>Task 1 – Environmental Permitting Support</i>	56		56
<i>Task 2 – Wildlife Hazard Attractants Design Review</i>		22	22
TOTAL HOURS			78

Pricing

<i>Rate Category</i>	<i>Hours</i>	<i>Rate</i>	<i>Totals</i>
Sr. Ecologist	56	\$ 125.00	\$7,000.00
QAWB	22	\$ 100.00	\$2,200.00
			\$9,200.00

DPS CORP.

October 5, 2021

AVCON
5110 Sunforest Dr., Ste 140
Tampa, FL 33634

Attn: Mr. Michael Copping, P.E.

**RE: Proposal for Geotechnical Field Services
St. Pete–Clearwater International Airport
AirCo Taxiways
DPS Project No. GEO 21006**

Mr. Copping:

This proposal has been prepared to provide the requested Scope of Services and fees for the referenced project. Diversified Professional Services, Corp (DPS) appreciates the opportunity to be of service to AVCON. Please contact our office should any additional information be required.

Scope of Services

- Coordinate with Tierra, Inc. for access and field work schedule.
- Perform twenty-four (24) Standard Penetration Test (SPT) borings to a minimum depth of 10 feet below existing grades.
- Perform eleven (11) auger borings along the new Taxiway D alignment and eleven (11) auger borings along the new perimeter road alignment.
- Perform three (3) field permeability tests and three (3) auger borings within proposed drainage improvement areas.
- Obtain bulk (100lbs) California Bearing Ratio (CBR) samples at requested locations for CBR testing.
- Perform nine (9) pavement cores at locations requested by AVCON.
- Collect and provide samples to Tierra personnel.

DPS, Corp. appreciates the opportunity to be of service to AVCON. Access and permission on to the airport should be secured prior to mobilizing to the site.

Respectfully Submitted,

Diversified Professional Services, Corp.



Sandra L. Polanis
President

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 255.00	9	\$ 2,295.00
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 212.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 11.00	125	\$ 1,375.00
402-Geo Auger Borings- Track	LF	\$ 14.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 850.00		\$ -
406-Geo Barge (Rental without labor)	Task	\$ 4,800.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 60.00		\$ -
409-Geo CPT Truck/Mud Bug 0-50 Ft	LF	\$ 13.00		\$ -
410-Geo CPT Truck/Mud Bug 50-100 Ft	LF	\$ 14.00		\$ -
411-Geo CPT Truck/Mud Bug 100-150 Ft	LF	\$ 16.00		\$ -
412-Geo CPT Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 545.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 850.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 175.00	3	\$ 525.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 75.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 75.00		\$ -
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	\$ 92.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 75.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 75.00		\$ -
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	\$ 95.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 320.00	3	\$ 960.00
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 325.00		\$ -
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	\$ 14.25		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 21.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 7.00	240	\$ 1,680.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 12.50		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 32.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
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		\$ -
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		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20	240	\$ 3,648.00
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		\$ -
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		\$ -
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		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 215.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 240.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 255.00		\$ -
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	\$ 220.00		\$ -
523-Geo Vibration & Noise Monitoring	Day	\$ 970.00		\$ -
524-Geo Vibration Monitoring	Day	\$ 1,100.00		\$ -
525-Geo Well Development	Hour	\$ 175.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,650.00		\$ -
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 1,800.00		\$ -
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,800.00		\$ -
538-Geo Clearing Equipment	Day	\$ 2,000.00		\$ -
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 11.00		\$ -
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 13.00		\$ -
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 22.00		\$ -
602-Mobilization - Vibration Monitoring Equipment	Each	\$ 230.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 360.00	1	\$ 360.00
606-Mobilization Concrete Coring	Each	\$ 360.00		\$ -

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 8,600.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00	1	\$ 410.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 540.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,380.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 310.00		\$ -
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 43.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00		\$ -

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
Contamination Test Items				\$ -
Arsenic (Method 6010/7471)	Each	\$ 11.00		\$ -
Asbestos Samples	Each	\$ 15.00		\$ -
BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
EDR Report	Each	\$ 500.00		\$ -
Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,810.00		\$ -
Handheld GPS	Per Day	\$ 80.34		\$ -
Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
SPLP/TCLP Metals	Each	\$ 198.00		\$ -
TPH Method FL-Pro	Each	\$ 65.00		\$ -
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -

Field Services \$ 11,253.00

DPS CORP.

September 21, 2021

AVCON
5110 Sunforest Dr., Ste 140
Tampa, FL 33634

Attn: Mr. Michael Copping, P.E.

**RE: Proposal for Geotechnical Field Services
St. Pete–Clearwater International Airport
AirCo Taxiways – Optional PEMB Building Relocation
DPS Project No. GEO 21006**

Mr. Copping:

This proposal has been prepared to provide the requested Scope of Services and fees for the referenced project. Diversified Professional Services, Corp (DPS) appreciates the opportunity to be of service to AVCON. Please contact our office should any additional information be required.

Scope of Services

- Coordinate with Tierra, Inc. for access and field work schedule.
- Perform two (2) Standard Penetration Test (SPT) borings to a depth of 25 feet below existing grades.
- Perform five (5) auger borings to a depth of 5 feet within the proposed paved areas to estimate the Seasonal High Groundwater Table (SHGWT) and determine shallow soil suitability.
- Obtain two (2) CBR samples for California Bearing Ratio (CBR) testing.
- Collect and provide samples to Tierra personnel.

DPS, Corp. appreciates the opportunity to be of service to AVCON. Access and permission on to the airport should be secured prior to mobilizing to the site.

Respectfully Submitted,

Diversified Professional Services, Corp.



Sandra L. Polanis
President

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 255.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 212.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 11.00	25	\$ 275.00
402-Geo Auger Borings- Track	LF	\$ 14.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 850.00		\$ -
406-Geo Barge (Rental without labor)	Task	\$ 4,800.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 60.00		\$ -
409-Geo CPT Truck/Mud Bug 0-50 Ft	LF	\$ 13.00		\$ -
410-Geo CPT Truck/Mud Bug 50-100 Ft	LF	\$ 14.00		\$ -
411-Geo CPT Truck/Mud Bug 100-150 Ft	LF	\$ 16.00		\$ -
412-Geo CPT Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 545.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 850.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 175.00	2	\$ 350.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 75.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 75.00		\$ -
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	\$ 92.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 75.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 75.00		\$ -
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	\$ 95.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 320.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 325.00		\$ -
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	\$ 14.25		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 21.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 7.00	50	\$ 350.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 12.50		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 32.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
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		\$ -
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		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20	50	\$ 760.00
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		\$ -
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		\$ -
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		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 215.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 240.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 255.00		\$ -
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	\$ 220.00		\$ -
523-Geo Vibration & Noise Monitoring	Day	\$ 970.00		\$ -
524-Geo Vibration Monitoring	Day	\$ 1,100.00		\$ -
525-Geo Well Development	Hour	\$ 175.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,650.00		\$ -
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 1,800.00		\$ -
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,800.00		\$ -
538-Geo Clearing Equipment	Day	\$ 2,000.00		\$ -
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 11.00		\$ -
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 13.00		\$ -
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 22.00		\$ -
602-Mobilization - Vibration Monitoring Equipment	Each	\$ 230.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 360.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 360.00		\$ -

DPS Project No. GEO21006
Design of New Airco Taxiways
Building Relocation - Option
Professional Engineering Services

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 8,600.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00	1	\$ 410.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 540.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,380.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 310.00		\$ -
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 43.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00		\$ -

DPS Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
Contamination Test Items				\$ -
Arsenic (Method 6010/7471)	Each	\$ 11.00		\$ -
Asbestos Samples	Each	\$ 15.00		\$ -
BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
EDR Report	Each	\$ 500.00		\$ -
Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,810.00		\$ -
Handheld GPS	Per Day	\$ 80.34		\$ -
Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
SPLP/TCLP Metals	Each	\$ 198.00		\$ -
TPH Method FL-Pro	Each	\$ 65.00		\$ -
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -

Field Services \$ 2,145.00

September 20, 2021

Michael Coppage, PE
Project Manager – Airports
AVCON, INC.
5110 Sunforest Dr., Ste 140
Tampa, FL 33634

PROPOSAL FOR SUBSURFACE UTILITY INVESTIGATION SERVICES

Project: PIE New Airco Taxiways and PIE PEMB Storage Building (21-0552-NC (JJ))

Dear Mr. Coppage:

At ECHO UES, Inc. (ECHO) we value your consideration and appreciate the opportunity to provide a technical proposal for the provision of professional services. This technical proposal, inclusive of proposed fee and schedule, details the approach we consider as the most suitable for your specific project's needs.

Project Limits: ECHO's proposed services will be performed within a well-defined area as shown on the attached graphic representations (Exhibit A & B). Services provided within said limits will consist of marking the horizontal location of utilities (designating), determining the vertical location of utilities (locating) at select locations, and survey & mapping of the designated and located underground utilities, ultimately resulting in a 2/D AutoCAD Civil 3D electronic file.

Subsurface Underground Utility Investigation Services Description: Using a combination of field investigative techniques and technology, including surface geophysical instruments (as needed to support the mapping) and vacuum excavation, ECHO will perform the following services.

- ECHO will **identify and horizontally delineate the existing utilities** located within the limits identified in attached Exhibit A & B. The results will be marked on the ground surface using the most appropriate method (i.e. pin flags, paint etc.) and showing the approximate position of the identified utilities.

Utilities that ECHO will attempt to identify, and mark all utilities located within the project limits, with the exclusion of small irrigation lines, non-conductive water services.

- ECHO will **verify the vertical location and characteristics of the underground utilities** at specific locations (specified by AVCON). ECHO will attempt to expose utilities via minimally intrusive methods (e.g., use of vacuum excavation) to address potential utility conflicts with the proposed construction and confirm the utilities' characteristics (e.g., type, size, material, direction, configuration) and provide an accurate vertical location. At completion of each excavation (test hole) ECHO will record all verifiable utility information, mark the utility location with the most appropriate method (e.g., wooden lathes, "X" mark on concrete, disc, and nail on asphalt) and restore the field to as close as possible to its original conditions. There are eighteen (18) test holes anticipated to be performed for the PIE Airco Taxiways and four (4) test holes anticipated for the PIE PEMB Storage Building.
- ECHO will **survey all utility information** discovered during the steps outlined above. The surveyed utilities will be tied to design control survey provided by AVCON's surveyor of record.

Deliverables:

- SUE Field deliverables will consist of field marks (e.g., pin flags, paint marks, wooden lathes, nails/discs etc.) showing the position of the test holes and located utilities.
- Test hole data report (THDR) containing all the information obtained via test holes and visual verification.
- 2/D AutoCAD Civil 3D electronic file.

Proposed Schedule: To be discussed and agreed to upon receipt of the executed contract.

Notes and Limitations:

1. Client shall facilitate access to the site and provide any relevant project information.
2. Site must be clear from obstacles impeding access to any portion of the project limits.
3. Standard work hours are from 7:00am to 3:30pm, Monday through Friday. Additional charges may occur (following discussion with the Client) in case of weekend or nighttime work.
4. ECHO will not work on any site that is known to be contaminated with any hazardous or harmful substance.
5. Unless otherwise stated within this proposal, test holes have usual depth of up to eight (8) ft. from the ground surface, and diameter of up to 1 ft. Should there be a need for deeper or wider excavations, additional charges may apply.
6. The original ground surface at each test hole location will be restored to as close as possible to its original conditions, using concrete mix or asphalt cold patch as applicable. Any deviation from this standard (e.g. use of hot asphalt, flowable fill etc.) may require additional charges and the use of specialty subcontractors.
7. Regardless of the type of estimate proposed (e.g. lump sum, time and materials, etc.) such estimate should be considered indicative and based on preliminary information. Should any situation out of ECHO's control heavily impact ECHO's field work performance (e.g. adverse site conditions), ECHO reserves the right to seek additional funds to complete the work.
8. The exact location of any underground utility is not guaranteed unless clearly exposed and visually verified at a specific location. Utility characteristics, methods of installation, soil conditions and the surrounding environment all may impact adversely the results of any utility investigation with surface geophysical instruments and technology. No guarantee is made that all utilities will be found and identified.
9. Independently from ECHO's scope of work and performance, the Client shall comply with the relative chapter from the Florida (or any other applicable) Statutes: "Underground Facility Damage Prevention and Safety Act" and call 811 prior to any excavation taking place.
10. Subsurface Utility Engineering, Designating and Locating terms all refer to the American Society of Civil Engineers / Construction Institute Standard for the Collection and Depiction of Subsurface Utility Data (ASCE/CI 38-02). Should ECHO adopt this standard for the performance of the scope of work and preparation of deliverables, clear mention to the Standard shall be made throughout the deliverable.

Fee: Based on previous experience on similar projects our estimate to complete the above-described professional services is:

- Designate, Locate, and Survey Utilities within Exhibit A & B defined limits, create utility map Limiting Amount (LA)
 - **PIE New Airco Taxiways** = **\$12,683.00**
 - **PIE PEMB Storage Building** = **\$ 5,100.00**
 - Project Total** = **\$17,783.00**

At ECHO UES, Inc. we believe in collaboration and communication with our clients and are driven to understand their needs and provide time efficient and cost-effective solutions.

Thank you for considering ECHO for your project. Please do not hesitate to contact me directly should you have any question or concern.

Sincerely,

ECHO UES, Inc.

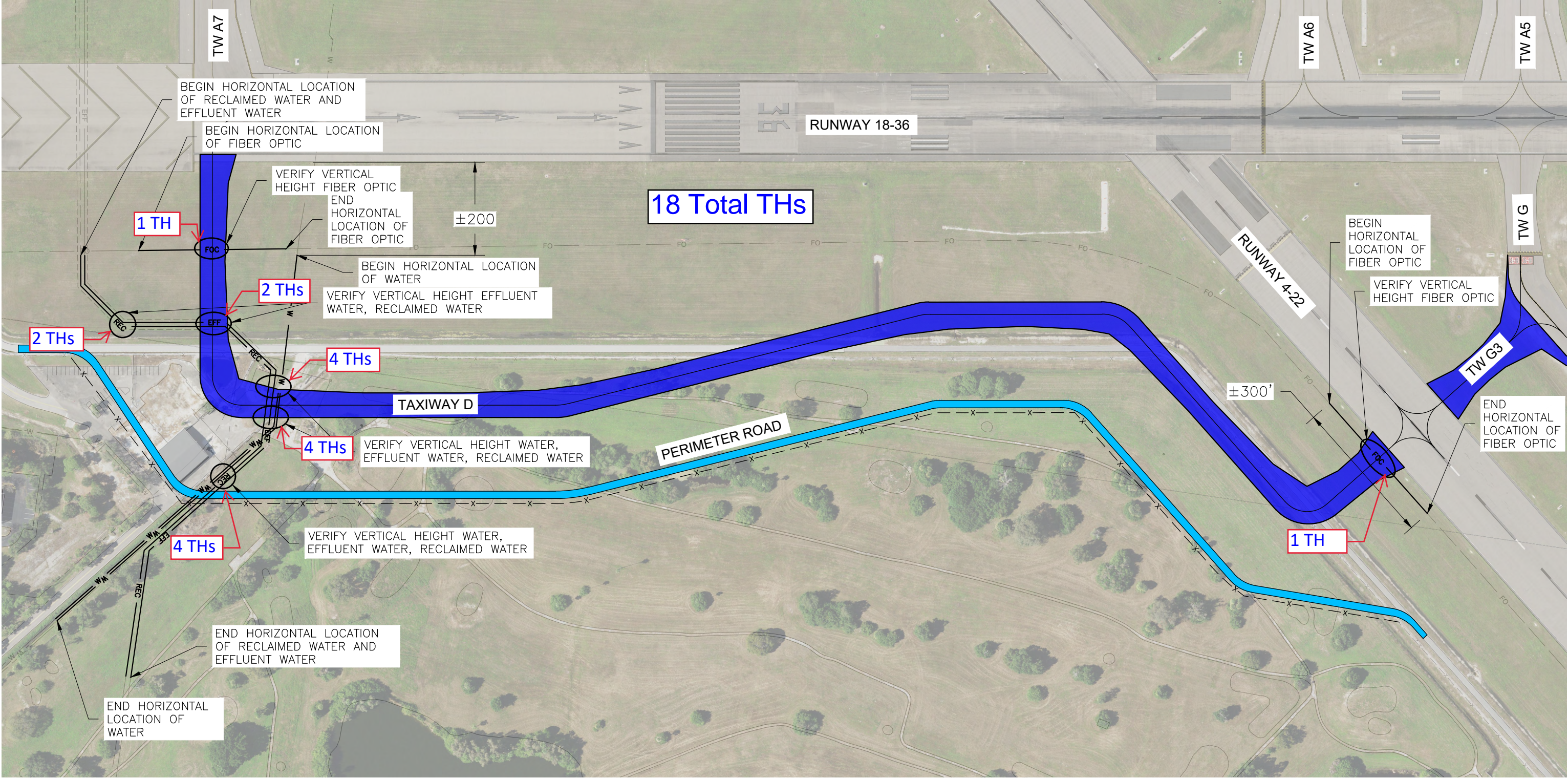
A handwritten signature in blue ink, appearing to read "Jerry Comellas, Jr.", with a stylized flourish at the end.

Jerry Comellas, Jr., PE
President

See New Airco Taxiways Project Limits below

See PIE PEMB Storage Building Project Limits below

New Airco Taxiways Project Limits



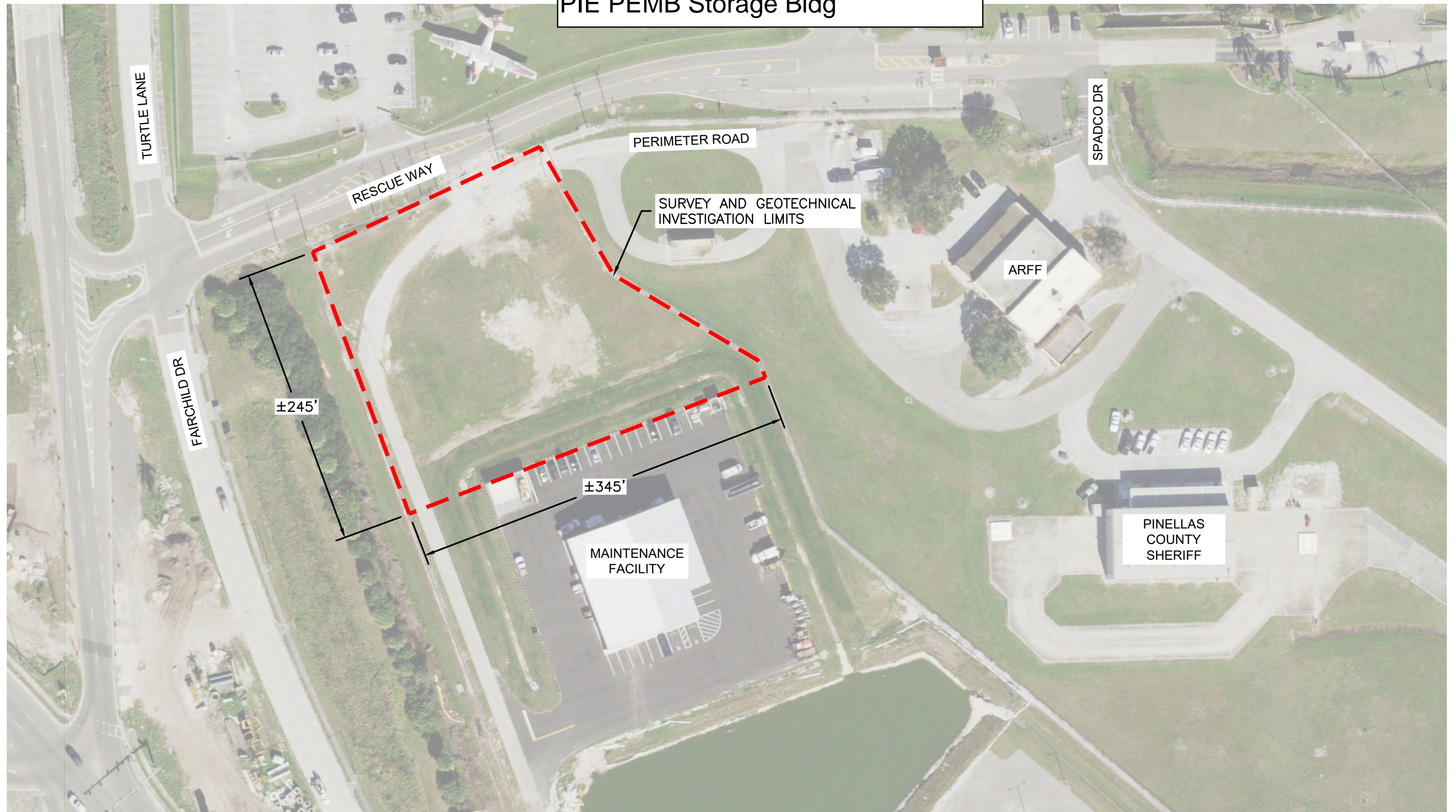
V:\2021\2021.151.02 - PIE Airco Taxiways\2021.151.02 - CAD\Consultants\Survey\PIE UTILITY EXHIBIT.dwg 9/9/2021 4:22 PM

PIE AIRCO DEVELOPMENT
UTILITY LOCATION EXHIBIT



AVCON, INC.
ENGINEERS & PLANNERS
5110 SUNFOREST DRIVE, SUITE #140 - TAMPA, FL. 33634
OFFICE: (813) 321-5588 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO. 5057
WWW.AVCONINC.COM

PIE PEMB Storage Bldg



AIRCO TAXIWAYS PROGRAM



AVCON, INC.
ENGINEERS & PLANNERS

4600 140TH AVENUE, SUITE 1106 - CLEARWATER, FL 33762
OFFICE: (813) 381-5696 - FAX: (407) 596-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO. 5057
WWW.AVCONINC.COM



Billing Rate:		\$ 163.00	\$ 172.00	\$ 107.00	\$ 76.00	\$ 166.00	\$ 178.00
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Task Description		Project Manager	Senior Surveyor (PSM)	Project Surveyor (PSM)	Survey/SUE/CADD Technician	SUE Designating/Locating Crew (2 Person)	Survey Crew (3 Person)	Total	Labor	Expenses	Total	
SUE SERVICES (NTE LABOR + EXPENSES) - AIRCO TAXIWAYS		Total	3	3	6	11	40	20	83	\$12,683.00	\$0.00	\$12,683.00
Subsurface Utility Engineering (SUE) - Horizontal Locates		1	1	2	4	20		28	\$4,173.00			\$4,173.00
Subsurface Utility Engineering (SUE) – Vertical Locates		1	1	2	4	20		28	\$4,173.00			\$4,173.00
Survey to support the SUE		1	1	2	3		20	27	\$4,337.00			\$4,337.00
Subtotal for Airco Taxiways		3	3	6	11	40	20	83				\$12,683.00
SUE SERVICES (NTE LABOR + EXPENSES) - BUILDING RELOCATION SITE		Total	0	0	0	20	10	0	\$5,100.00	\$0.00	\$5,100.00	
Subsurface Utility Engineering (SUE) - Horizontal Locates						10			\$1,660.00			\$1,660.00
Subsurface Utility Engineering (SUE) – Vertical Locates						10			\$1,660.00			\$1,660.00
Survey to support the SUE							10		\$1,780.00			\$1,780.00
Subtotal for Building Relocation Site		0	0	0	0	20	10	0				\$5,100.00
Total Fee - ECHO UES, Inc.			\$489.00	\$516.00	\$642.00	\$836.00	\$6,640.00	\$3,560.00		\$12,683.00	\$0.00	\$17,783.00

Total Fee - ECHO UES, Inc.



31622 US 19 North
Palm Harbor, Florida 34684
Phone: (727) 789-5010
Toll Free: 1-800-262-7960
Fax: (727) 787-4394
WWW.LMAENGR.COM
LANDON@LMAENGR.COM

September 9, 2021

AVCON

5555 E Michigan Street, Suite 200 Orlando, Florida 32822

Attn: Robert "Bobby" Palm, P.E.

Senior Project Manager – Airports

Re: PIE - Partial Taxiway D

Dear Mr. Palm:

This is a proposal for our services for the role of assisting AVCON with negotiations and stormwater permitting with Pinellas County Staff.

We have a long history with the county and feel that we could help move things forward, particularly considering the stifling stormwater code that Pinellas County recently adopted.

AVCON will participate in discussions, meetings, and will be the lead stormwater designers and EOR, with direct input from LMA.

Staff time estimates are as follows:

John Landon, P.E.	70 hours @195	\$13,650
Jeff Leadbetter, P.E.	54 hours @150	\$8,100
Administrative	20 hours @75	<u>\$1,500</u>
Total		\$23,250

If you have any questions, please do not hesitate to call me.

LANDON, MOREE & ASSOCIATES, INC.

CC: Jeff Leadbetter, P.E.



September 27, 2021

Mr. Michael Coppage, PE
Avcon, Inc.
5110 Sunforest Drive, Suite 140
Tampa, Florida 33634

RE: PIE AIRPORT AIRCO TAXIWAYS
 NSI Project No. 2109-076
 NSI Proposal No. 210611B

REVISION NO. 3

Dear Mr. Coppage:

Thank you for the opportunity to present his proposal for surveying services at the above referenced site.

The scope of work included in this proposal is as follows:

DETAILED SURVEY

- Maintain a topographic grid within the limits of survey. The grid shall be 50' x 50' in paved areas and unpaved areas.
- Locate limits of pavement, fences, lights, brush and tree line, trees located within outer limits of survey, all overhead and underground utilities, and any other physical features encountered.
- Locate and identify all drainage structures including rim and invert elevation, pipe size and type and direction of flow.
- Locate and identify all telephone and electrical junction boxes, poles, risers or transformers.
- Verify and locate existing property and lease lines listing bearing and distance within the project limits.
- Locate any other utilities or physical features not specifically listed above.
- Provide permanent survey benchmark control information and location. Establish a minimum of three (3) permanent benchmarks for the purpose of control, within the proposed project area. Provide at least two (2) temporary control points for use by Subsurface Utility Engineering consultant as shown in the attached sketch. Existing permanent benchmarks may be utilized if they meet the criteria as specified above.
- Base all data on the latest NAD Florida State Plane grid system for horizontal control and the latest NAVD for vertical control.
- Provide pavement elevations and rim and invert elevation of drainage structures to the nearest 0.01'.
- Produce a completed 3D existing ground surface model, to include the definition T.I.N. (Triangulated Irregular Network) file. The surface model should show the existing ground contours with elevation labels at 0.20' minor and 1.0' major intervals. Point elevations shall include all changes in grade, high points, low points, and top and bottom of bank within the limits of survey.
- Provide contours at a 0.2' interval within the areas of topography. Provide highlight contours at 1' intervals. All contours shall be labeled and shall reside on the correct layer (see below for further discussion on layer names).
- Each point should include point number, northing, easting, elevation and description.

- Civil 3D point and elevation information shall be submitted in the electronic format (ASCII text, comma separated, space separated, MS Excel file, or equal) as described below:
 1. The point number will be numeric (no alpha characters).
 2. The file delimiter, separating the file fields will be either a comma or space.
 3. We will provide a list of abbreviated survey description labels used in the point file.
- We will submit data in Autocad Civil 3D 2021 version for drawing format on Windows compatible USB drive or by FTP. The drawing disk shall contain entities on the appropriate layers.
- The base point and origin for all digital survey data will be 0,0,0.
- All drawing units will be in feet for the Florida State Plane zone that they are in (U.S. Survey feet).
- Submit a completed 3D existing ground model surface, Digital Terrain Model (DTM) T.I.N. and/or XML files (including feature lines, break lines, fault data, etc.) used to create the model submitted. The existing ground surface model, T.I.N. files submitted will be created using Civil 3D 2021. The files submitted shall include, as a minimum, EG.TIN, EG.PNT, EG.DAT (where EG is the surface name).

EXTENDED SURVEY

- Maintain a 100' x 100' topographic grid within the limits of extended survey.
- All other features should be identical to the "Detailed Survey" (see above).

DELIVERABLES

- Digitally signed and sealed Survey Plans.
- The digital files described herein in downloadable format.
- An Autocad Civil 3D 2021 downloadable format.
- One copy of the reduced survey field notes in downloadable format.
- Geometry system data: we will provide a copy of the coordinates for all points in electronic spreadsheet or ASCII format.

MANHOUR BREAKDOWN AND FEES

AIRCO TAXIWAYS (SEE EXHIBITS 1 & 2 ATTACHED)

3-Person Survey Crew	176 hours	x	\$152.50/hour =	\$26,840.00
Survey Project Manager, PSM	21 hours	x	\$200.00/hour =	\$ 4,200.00
Project Surveyor/Cad Technician	199 hours	x	\$104.25/hour =	\$20,745.75
Administrative	7 hours	x	\$ 93.75/hour =	<u>\$ 656.25</u>
Subtotal				\$52,442.00

Sketch/Description for Relocated Reclaimed Water

Survey Project Manager, PSM	5 hours	x	\$200.00/hour =	\$ 1,000.00
Project Surveyor/Cad Technician	5 hours	x	\$104.25/hour =	<u>\$ 521.25</u>
Subtotal				\$ 1,521.25

BUILDING RELOCATION SITE (SEE EXHIBIT 5 ATTACHED)

3-Person Survey Crew	20 hours	x	\$152.50/hour =	\$ 3,050.00
Survey Project Manager, PSM	4 hours	x	\$200.00/hour =	\$ 800.00
Project Surveyor/Cad Technician	16 hours	x	\$104.25/hour =	\$ 1,668.00
Administrative	1 hours	x	\$ 93.75/hour =	<u>\$ 93.75</u>
Subtotal				\$ 5,611.75

Expenses:

Light Tower	1 month	x	\$888.00/month	=	\$ 888.00
Truck, GPS, Conventional Equipment	1 unit	x	\$262.00/unit	=	<u>\$ 262.00</u>
Subtotal					\$ 1,150.00

Grand Total **\$60,725.00**

All of the work will be performed under the direct supervision of a Professional Land Surveyor and will meet or exceed the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J17.050 to 5J17.052, Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

If you have any questions, please do not hesitate to contact our office.

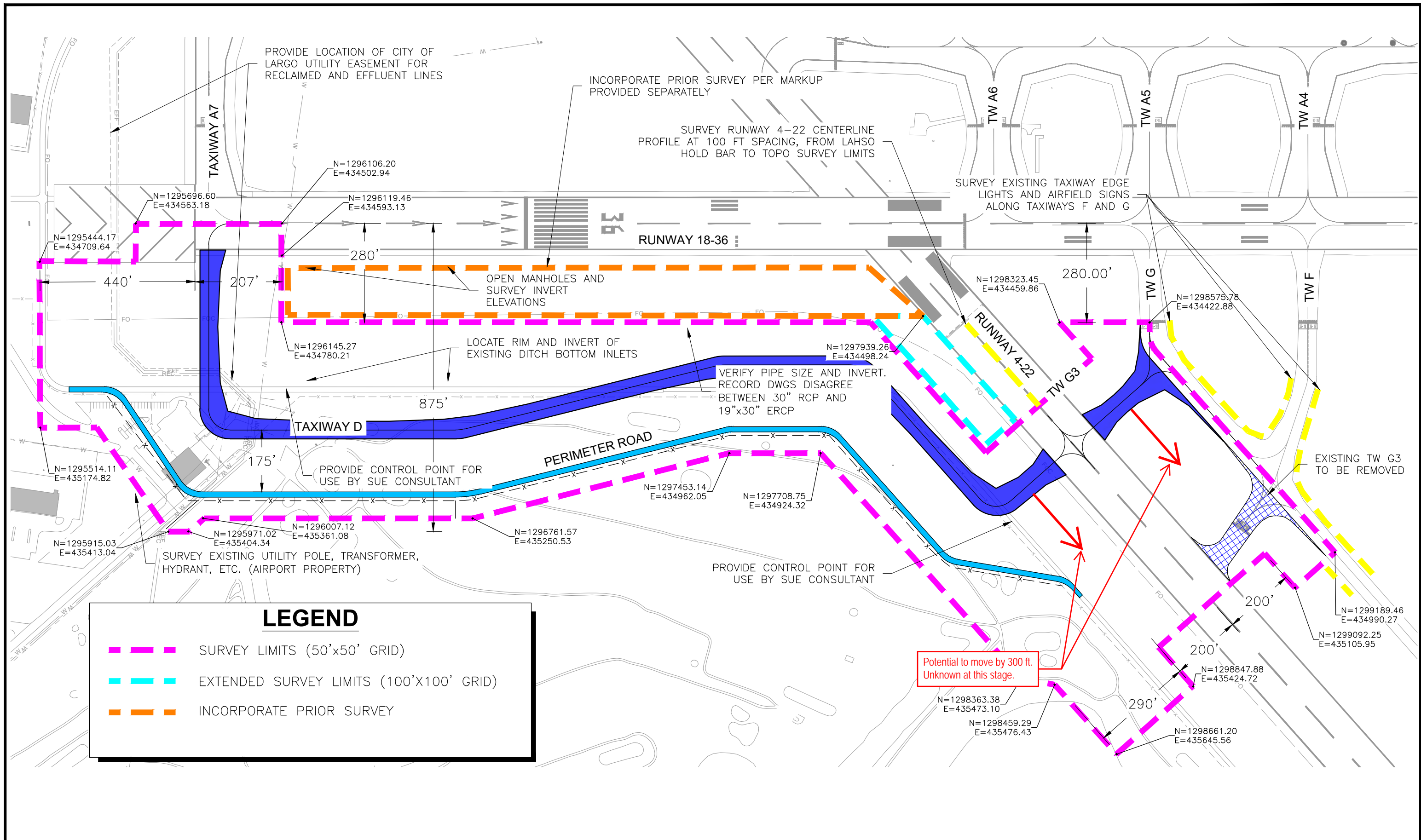
Sincerely,

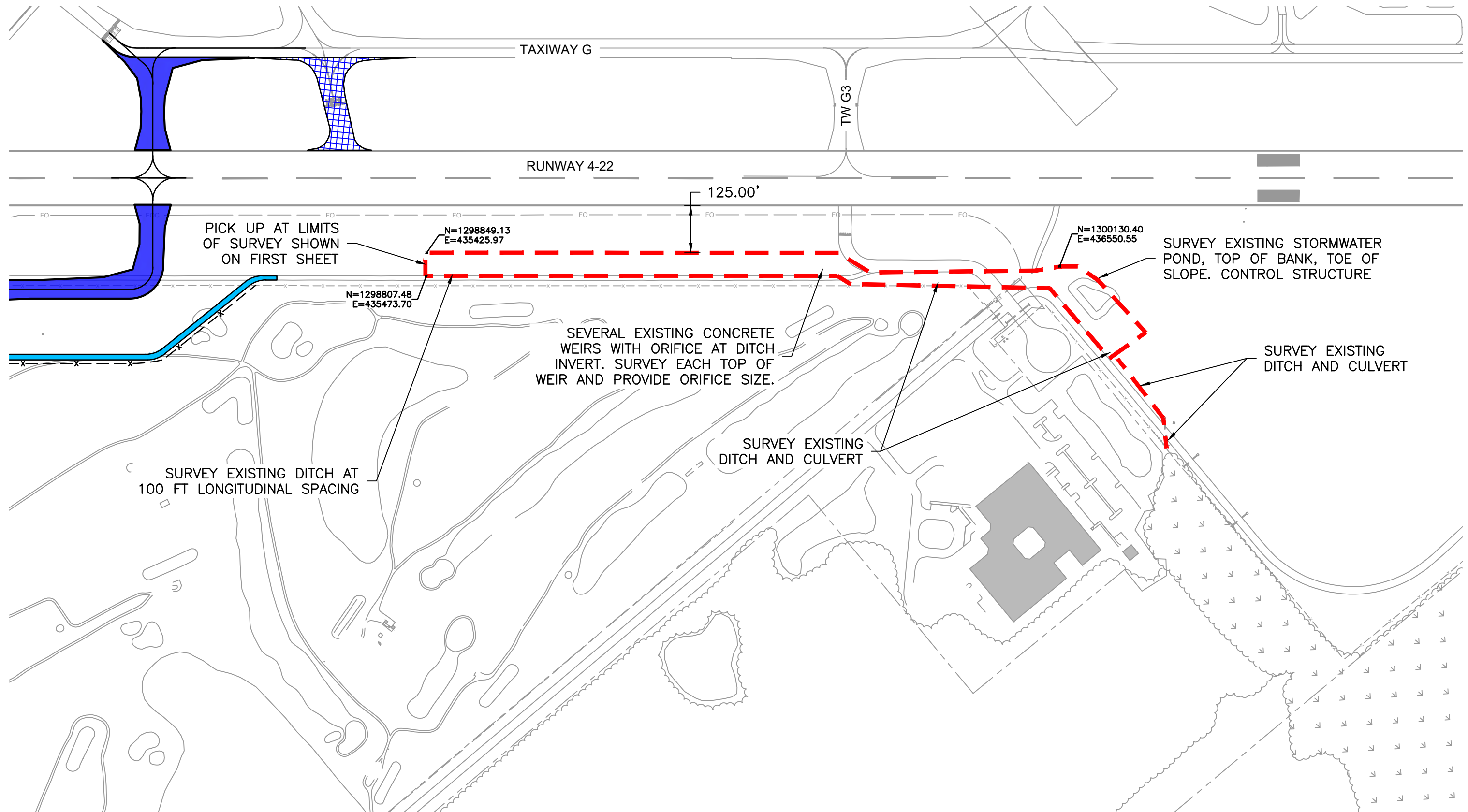
NORTHWEST SURVEYING, INC.



Gerald Silva, PSM
President

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PIE AIRCO DEVELOPMENT
SURVEY LIMITS



AVCON, INC.
ENGINEERS & PLANNERS
5110 SUNFOREST DRIVE, SUITE #140 - TAMPA, FL. 33634
OFFICE: (813) 321-5588 - FAX: (407) 590-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO. 5057
WWW.AVCONINC.COM

EX. 2

TIERRA

September 21, 2021

AVCON
5110 Sunforest Dr., Ste 140
Tampa, FL 33634

Attn: Mr. Michael Coppage, P.E.

**RE: Proposal for Geotechnical Engineering Services
St. Pete–Clearwater International Airport
AirCo Taxiways
Tierra Project No. 6511-21-297**

Mr. Coppage:

This proposal has been prepared to provide the requested Scope of Services and fees for the referenced project. Tierra, Inc. appreciates the opportunity to be of service to AVCON. Please contact our office should any additional information be required.

Scope of Services

- Apply for and obtain airport badge(s) for select personnel to coordinate and facilitate field activities.
- Escort DPS personnel in the field. Collect field samples from DPS personnel.
- Classify and stratify recovered soil samples. Tierra will review the recovered samples from DPS personnel and estimate the Seasonal High Groundwater Table (SHGWT) at select locations.
- Perform laboratory testing on representative samples obtained in the field. The laboratory testing may include:
 - Grain-size analysis testing
 - Atterberg limit testing
 - Natural moisture content
 - Organic content
 - California Bearing Ratio (CBR) testing
- Develop a soil legend for the project.
- Provide a geotechnical engineering report summarizing the results of the field testing and laboratory results.

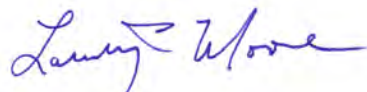
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Respectfully Submitted,

TIERRA, INC.



**Daniel Ruel, P.E.
Geotechnical Engineer**



**Larry P. Moore, P.E.
Principal Geotechnical Engineer**

Item Description	Unit	Unit Price	Quantity	Total
Geotechnical Field Investigation				
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.00		\$ -
402-Geo Auger Borings- Track	LF	\$ 12.00		\$ -
403-Geo Backhoe (Owned)	Day	\$ 600.00		\$ -
405-Geo Barge (Owned)	Day	\$ 2,500.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 28.00		\$ -
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 800.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-Person)	Hour	\$ 135.00		\$ -
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-Person)	Hour	\$ 185.00		\$ -
421-Geo Dynamic Pile Testing/Pile Driving Analysis	Day	\$ 1,700.00		\$ -
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		\$ -
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		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 310.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 350.00		\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.00		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.00		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.00		\$ -
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00		\$ -
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.00		\$ -
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.00		\$ -
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.00		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 28.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -
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		\$ -

Item Description	Unit	Unit Price	Quantity	Total
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.00		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.00		\$ -
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 SPT Truck 0-50 Ft	LF	\$ 12.00		\$ -
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	\$ 15.00		\$ -
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.00		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.00		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.00		\$ -
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		\$ -
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.00		\$ -
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.00		\$ -
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.00		\$ -
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00		\$ -
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.00		\$ -
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	\$ 17.00		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00		\$ -
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		\$ -
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		\$ -
523-Geo Vibration & Noise Monitoring	Day	\$ 900.00		\$ -
524-Geo Vibration Monitoring	Day	\$ 1,000.00		\$ -
525-Geo Well Development	Hour	\$ 140.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,500.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00		\$ -
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
615-Mobilization Pile Driving Analyzer Equipment	Each	\$ 345.00		\$ -
618.1-Geo Support Safety Boat	Day	\$ 500.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,080.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 340.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 30.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
Geotechnical Laboratory Testing				\$ -
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 100.00		\$ -
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 45.00		\$ -
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 60.00		\$ -
104-Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27	Test	\$ 60.00		\$ -
105-Aggregate Soundness AASHTO T104	Test	\$ 300.00		\$ -
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 88.00		\$ -
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 35.00		\$ -
108-Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 55.00		\$ -
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 89.00		\$ -
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 50.00		\$ -
201-Asphalt Content FM 5-563	Test	\$ 145.00		\$ -
204-Asphalt Gradation FM 1-T030	Test	\$ 75.00		\$ -
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 310.00		\$ -
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 297.00		\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 110.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Test	\$ 50.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 305.00		\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)/CBR	Test	\$ 340.00	6	\$ 2,040.00
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00	4	\$ 240.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00	12	\$ 504.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00	4	\$ 40.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00	2	\$ 84.00
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		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 225.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 225.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00	4	\$ 280.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 110.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
Contamination Test Units				\$ -
EDR Report	Each	\$ 500.00		\$ -
Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
Handheld GPS	Per Day	\$ 80.00		\$ -
Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.00		\$ -
BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
Polycyclic Aromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
TPH Method FL-Pro	Each	\$ 65.00		\$ -
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
SPLP/TCLP Metals	Each	\$ 198.00		\$ -
Asbestos Samples	Each	\$ 15.00		\$ -
Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
Asphalt and Concrete Pavement Coring				\$ -
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 250.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 200.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00		\$ -
300-Concrete Beam Flexural Testing ASTM C78	Test	\$ 50.00		\$ -
301-Concrete Compressive Strength of Grout / Mortar ASTM C109	Test	\$ 40.00		\$ -
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 40.00		\$ -
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 40.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 300.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 300.00		\$ -
Engineering and Technical Support Services				\$ -
MAT Chief Engineer	Hour	\$ 219.00	2	\$ 438.00
Chief Scientist	Hour	\$ 175.00		\$ -
MAT Engineer	Hour	\$ 138.00	8	\$ 1,104.00
MAT Engineering Intern	Hour	\$ 98.00	20	\$ 1,960.00
MAT Engineering Technician	Hour	\$ 84.00		\$ -
MAT Principal Engineer	Hour	\$ 219.00	4	\$ 876.00
MAT Secretary / Clerical	Hour	\$ 77.00	1	\$ 77.00
MAT Senior Engineer	Hour	\$ 193.00	6	\$ 1,158.00
MAT Senior Engineering Technician	Hour	\$ 102.00	16	\$ 1,632.00
Senior Designer	Hour	\$ 123.00	8	\$ 984.00
Senior Scientist	Hour	\$ 147.00		\$ -

Engineering and Laboratory Services = \$ 11,417.00

TIERRA

September 21, 2021

AVCON
5110 Sunforest Dr., Ste 140
Tampa, FL 33634

Attn: Mr. Michael Coppage, P.E.

**RE: Proposal for Geotechnical Engineering Services
St. Pete–Clearwater International Airport
AirCo Taxiways – Optional PEMB Building Relocation
Tierra Project No. 6511-21-297**

Mr. Coppage:

This proposal has been prepared to provide the requested Scope of Services and fees for the referenced project. Tierra, Inc. appreciates the opportunity to be of service to AVCON. Please contact our office should any additional information be required.

Scope of Services

- Utilize airport badge(s) for select personnel to coordinate and facilitate field activities.
- Escort DPS personnel in the field. Collect field samples from DPS personnel.
- Classify and stratify recovered soil samples. Tierra will review the recovered samples from DPS personnel and estimate the Seasonal High Groundwater Table (SHGWT) at select locations.
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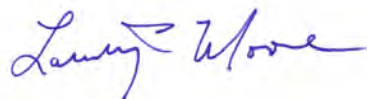
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Respectfully Submitted,

TIERRA, INC.



**Daniel Ruel, P.E.
Geotechnical Engineer**



**Larry P. Moore, P.E.
Principal Geotechnical Engineer**

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416-Geo Dozer (Owned)	Day	\$ 800.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-Person)	Hour	\$ 135.00		\$ -
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-Person)	Hour	\$ 185.00		\$ -
421-Geo Dynamic Pile Testing/Pile Driving Analysis	Day	\$ 1,700.00		\$ -
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		\$ -
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		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 310.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 350.00		\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.00		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.00		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.00		\$ -
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00		\$ -
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.00		\$ -
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.00		\$ -
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.00		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 28.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -
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		\$ -

Item Description	Unit	Unit Price	Quantity	Total
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.00		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.00		\$ -
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 SPT Truck 0-50 Ft	LF	\$ 12.00		\$ -
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	\$ 15.00		\$ -
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.00		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.00		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.00		\$ -
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		\$ -
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.00		\$ -
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.00		\$ -
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.00		\$ -
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00		\$ -
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.00		\$ -
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	\$ 17.00		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00		\$ -
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		\$ -
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		\$ -
523-Geo Vibration & Noise Monitoring	Day	\$ 900.00		\$ -
524-Geo Vibration Monitoring	Day	\$ 1,000.00		\$ -
525-Geo Well Development	Hour	\$ 140.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,500.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00		\$ -
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
615-Mobilization Pile Driving Analyzer Equipment	Each	\$ 345.00		\$ -
618.1-Geo Support Safety Boat	Day	\$ 500.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00		\$ -
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,080.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 340.00		\$ -

St Pete Clearwater International Airport

Tierra, Inc. Fee Schedule

Design of New Airco Taxiways

Building Relocation - Option

Item Description	Unit	Unit Price	Quantity	Total
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 30.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00		\$ -
Drilling Permit Costs IE DEP	Each	\$ 250.00		\$ -
Geotechnical Laboratory Testing				\$ -
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 100.00		\$ -
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 45.00		\$ -
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 60.00		\$ -
104-Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27	Test	\$ 60.00		\$ -
105-Aggregate Soundness AASHTO T104	Test	\$ 300.00		\$ -
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 88.00		\$ -
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 35.00		\$ -
108-Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 55.00		\$ -
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 89.00		\$ -
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 50.00		\$ -
201-Asphalt Content FM 5-563	Test	\$ 145.00		\$ -
204-Asphalt Gradation FM 1-T030	Test	\$ 75.00		\$ -
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 310.00		\$ -
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 297.00		\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 110.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Test	\$ 50.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 305.00		\$ -
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 250.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)/CBR	Test	\$ 340.00	2	\$ 680.00
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00	2	\$ 120.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00	5	\$ 210.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00	3	\$ 30.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00	1	\$ 42.00
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		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 225.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 225.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00	2	\$ 140.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 110.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
Contamination Test Units				\$ -
EDR Report	Each	\$ 500.00		\$ -
Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
Handheld GPS	Per Day	\$ 80.00		\$ -
Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.00		\$ -
BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -
TPH Method FL-Pro	Each	\$ 65.00		\$ -
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
SPLP/TCLP Metals	Each	\$ 198.00		\$ -
Asbestos Samples	Each	\$ 15.00		\$ -
Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
Asphalt and Concrete Pavement Coring				\$ -
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 250.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 200.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00		\$ -
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00		\$ -
300-Concrete Beam Flexural Testing ASTM C78	Test	\$ 50.00		\$ -
301-Concrete Compressive Strength of Grout / Mortar ASTM C109	Test	\$ 40.00		\$ -
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 40.00		\$ -
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 40.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 300.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 300.00		\$ -
Engineering and Technical Support Services				\$ -
MAT Chief Engineer	Hour	\$ 219.00		\$ -
Chief Scientist	Hour	\$ 175.00		\$ -
MAT Engineer	Hour	\$ 138.00	4	\$ 552.00
MAT Engineering Intern	Hour	\$ 98.00	8	\$ 784.00
MAT Engineering Technician	Hour	\$ 84.00		\$ -
MAT Principal Engineer	Hour	\$ 219.00	2	\$ 438.00
MAT Secretary / Clerical	Hour	\$ 77.00		\$ -
MAT Senior Engineer	Hour	\$ 193.00	2	\$ 386.00
MAT Senior Engineering Technician	Hour	\$ 102.00	4	\$ 408.00
Senior Designer	Hour	\$ 123.00	2	\$ 246.00
Senior Scientist	Hour	\$ 147.00		\$ -

Engineering and Laboratory Services = \$ 4,036.00

TIERRA

October 1, 2021

AVCON
5110 Sunforest Drive, Suite 140
Tampa, Florida 33634
Attn: Mr. Micahel Coppage, PE

RE: **Quality Assurance (QA) Scope of Services and Estimated Fees**
St. Petersburg - Clearwater International Airport (PIE)
AirCo Taxiways
Tierra Proposal No. 61-21-202

Mr. Coppage:

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, laboratory Proctors and soil classification testing during backfill over drainage, relocated water pipelines, embankment, sign bases and pavement base courses on a will call basis.
- Perform full time inspection at the asphalt plant during paving operations.
- Perform sampling and testing of fresh concrete placed in concrete encased ducts, sign bases and perimeter fence posts.
- Additive A - perform soil density testing and concrete testing in new footings for the relocated "cart barn".

Service Fee

The total estimated fee to perform the proposed scope of services is \$54,144.00 for the Airco Taxiway. Our estimate for Additive "A" is an additional \$2,816.00. An itemized breakdown of the estimated fees is attached.

We will respond on an on-call basis at the unit rates noted on the attachment. 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.

We understand the design for this project is at preliminary stages. Once the design, phasing and construction schedule is finalized, we request the opportunity to review this estimate. Tierra appreciates the opportunity to provide this estimate and look forward to working on this project.

Respectfully submitted,

TIERRA, INC.



Manuel J. Valdes
Construction Services Manager

Attachments:

**Quality Assurance (QA) Scope of Services and Estimated Fees
St. Petersburg - Clearwater International Airport (PIE)**

AirCo Taxiway

Tierra Proposal No. 61-21-202

BASE BID

A. FIELD QA TESTING

1. Engineering Technician for soil density testing and concrete testing including P-152, P-211, P-219, P-610, F-162 and F-163 on a part time, will call basis

<u>Unit</u>	<u># of Units</u>	<u>Unit Price</u>	<u>Total</u>
per hr	425	\$ 84.00	\$ 35,700.00

B. ASPHALT PLANT INSPECTION

1. Certified Asphalt Plant Inspector

per hr	90	\$ 84.00	\$ 7,560.00
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C. LABORATORY TESTING SOILS

1. Modified Proctor (ASTM D-1557)

ea	5	\$ 115.00	\$ 575.00
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2. Soils Particle Size Analysis (ASTM D-422)

ea	5	\$ 67.00	\$ 335.00
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3. Soils Liquid Limit (ASTM D-4318)

ea	5	\$ 60.00	\$ 300.00
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4. Soils Plastic Limit & Plasticity Index(ASTM D-4318)

ea	5	\$ 70.00	\$ 350.00
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5. Organic Content (AASHTO T-267)

ea	2	\$ 42.00	\$ 84.00
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D. LABORATORY TESTING P-211 LIMEROCK - OPTIONAL

1. Limerock Bearing Ratio (LBR)

ea	2	\$ 340.00	\$ 680.00
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2. Gradation (ASTM C-117 & C-136)

ea	2	\$ 85.00	\$ 170.00
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3. Percent Carbonates (FM 5-514)

ea	2	\$ 100.00	\$ 200.00
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4. Soils Liquid Limit (ASTM D-4318)

ea	2	\$ 60.00	\$ 120.00
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5. Soils Plastic Limit & Plasticity Index(ASTM D-4318)

ea	2	\$ 70.00	\$ 140.00
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**E. LABORATORY TESTING P-219 RECYCLED CONCRETE
OPTIONAL**

1. Limerock Bearing Ratio (LBR)

ea	2	\$ 300.00	\$ 600.00
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2. Gradation (ASTM C-117 & C-136)

ea	2	\$ 85.00	\$ 170.00
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3. Flat & Elongated Particles

ea	2	\$ 150.00	\$ 300.00
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4. Soils Liquid Limit (ASTM D-4318)

ea	2	\$ 60.00	\$ 120.00
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5. Soils Plastic Limit & Plasticity Index(ASTM D-4318)

ea	2	\$ 70.00	\$ 140.00
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F. LABORATORY TESTING CONCRETE

1. Curing and Compression Tests of Concrete Test Cylinders

ea	75	\$ 40.00	\$ 3,000.00
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G. ENGINEERING SERVICES

1. Project Manager, Coordinate services, PWL, Reports

per hr	25	\$ 138.00	\$ 3,450.00
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2. Senior Engineer, P.E. Report sign / seal

per hr	12	\$ 193.00	\$ 150.00
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TOTAL ESTIMATE - BASE BID: \$ 54,144.00

ADDITITIVE A - RELOCATE CART BARN

A. FIELD QA TESTING

1. Engineering Technician for soil density testing and concrete testing on a part time, will call basis

<u>Unit</u>	<u># of Units</u>	<u>Unit Price</u>	<u>Total</u>
per hr	24	\$ 84.00	\$ 2,016.00

B. LABORATORY TESTING CONCRETE

1. Curing and Compression Tests of Concrete Test Cylinders

ea	20	\$ 40.00	\$ 800.00
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TOTAL ESTIMATE ADDITIVE A: \$ 2,816.00



Exhibit B
Hourly Rate Sheet

AVCON, INC.
ENGINEERS & PLANNERS

5110 Sunforest Drive, Suite 140
Tampa, FL 33634
(813) 321-5588
avconinc.com

AVCON, INC.

<u>Position Description</u>	<u>Proposed Contract Billing Rate</u>
Principal	\$ 258.00
QC Reviewer	\$ 245.00
Senior Project Manager	\$ 219.00
Project Manager	\$ 189.00
Senior Civil Engineer	\$ 169.00
Senior Structural Engineer	\$ 181.00
Senior MEP Engineer	\$ 185.00
Project Engineer	\$ 107.00
Engineer/ Planner	\$ 89.00
Senior Aviation Planner	\$ 166.00
Senior CADD Designer	\$ 114.00
CADD Designer	\$ 76.00
Construction Inspector	\$ 121.00
Sr. Construction Manager	\$ 157.00
Contract Administrator	\$ 104.00
Clerical	\$ 62.00

Note: AVCON will not place a mark-up on sub-consultant services for overhead or operating margin.

Note: The rates listed above will be in place for the duration of the contract.

RESPECTFULLY SUBMITTED:

A handwritten signature in blue ink, reading "Sandeep Singh", is written over a horizontal line.

DATE:

10/28/2020



Blue Wing Environmental, LLC Rate Sheet

<u>Position Title/Category</u>	<u>Hourly Rate</u>
Project Manager/Director	\$ 150.00
Sr. Ecologist	\$ 125.00
Sr. NEPA Specialist	\$ 125.00
Ecologist I	\$ 100.00
FAA Qualified Airport Wildlife Biologist	\$ 100.00
NEPA Specialist	\$ 100.00
GIS Technician	\$ 95.00
Field Technician	\$ 60.00
Administrative Professional/Clerical	\$ 30.00

Item Description	Unit	Unit Price
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 255.00
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 212.00
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 11.00
402-Geo Auger Borings- Track	LF	\$ 14.00
403-Geo Backhoe (Owned)	Day	\$ 850.00
406-Geo Barge (Rental without labor)	Task	\$ 4,800.00
407-Geo Chainsaw (Owned)	Day	\$ 60.00
409-Geo CPT Truck/Mud Bug 0-50 Ft	LF	\$ 13.00
410-Geo CPT Truck/Mud Bug 50-100 Ft	LF	\$ 14.00
411-Geo CPT Truck/Mud Bug 100-150 Ft	LF	\$ 16.00
412-Geo CPT Truck/Mud Bug 150-200 Ft	LF	\$ 18.00
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 545.00
416-Geo Dozer (Owned)	Day	\$ 850.00
418-Geo Drill Crew Support Vehicle	Day	\$ 175.00
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 75.00
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 75.00
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	\$ 92.00
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 75.00
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 75.00
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	\$ 95.00
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 320.00
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 325.00
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	\$ 14.25
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 21.00
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 7.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 12.50
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 32.00
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00

Item Description	Unit	Unit Price
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
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
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
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
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
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 215.00
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 240.00
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 255.00
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	\$ 220.00
523-Geo Vibration & Noise Monitoring	Day	\$ 970.00
524-Geo Vibration Monitoring	Day	\$ 1,100.00
525-Geo Well Development	Hour	\$ 175.00
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 190.00
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 260.00
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 190.00
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 260.00
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,650.00
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 1,800.00
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,800.00
538-Geo Clearing Equipment	Day	\$ 2,000.00
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 11.00
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 13.00
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 22.00
602-Mobilization - Vibration Monitoring Equipment	Each	\$ 230.00
603-Mobilization Asphalt Coring equipment	Each	\$ 360.00
606-Mobilization Concrete Coring	Each	\$ 360.00

Item Description	Unit	Unit Price
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 8,600.00
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00
618-Geo Mobilization Support Boat	Each	\$ 540.00
619-Geo Mobilization Tri-Pod	Each	\$ 1,380.00
701-MOT Attenuator Truck	Hour	\$ 310.00
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00
706-MOT Portable Sign	Each	\$ 43.00
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00
712-MOT Support Vehicle	Hour	\$ 155.00

Item Description	Unit	Unit Price
Contamination Test Items		
Arsenic (Method 6010/7471)	Each	\$ 11.00
Asbestos Samples	Each	\$ 15.00
BTEX and MTBE (Method 8260)	Each	\$ 65.00
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00
Drilling Permit Costs IE DEP	Each	\$ 250.00
EDR Report	Each	\$ 500.00
Field Sampling Kit (soil)	Each	\$ 75.00
Field Sampling Survey Kit (water)	Each	\$ 75.00
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,810.00
Handheld GPS	Per Day	\$ 80.34
Mercury Individual (Method 6010/7471)	Each	\$ 25.00
Organic Vapor Analyzer (OVA)	Day	\$ 150.00
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00
Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00
Polychlorinated Biphenals (8082)	Each	\$ 75.00
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00
Semi-Volatiles (Method 8270)	Each	\$ 200.00
SPLP/TCLP Metals	Each	\$ 198.00
TPH Method FL-Pro	Each	\$ 65.00
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00
Volatile Organics (Method 8260)	Each	\$ 95.00
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00



Date: September 3, 2021

Reference: St. Pete-Clearwater International Airport - Design of New Airco Taxiways - Professional Engineering Services 21-0552-NC (JJ)

Schedule of Rate Values	
Job Classification	Fully Loaded Hourly Rate
Project Manager	\$163.00
Project Surveyor	\$126.00
Senior Surveyor	\$172.00
Survey/SUE/CADD Technician	\$76.00
SUE Field Crew Supervisor	\$130.00
SUE Technician 3	\$65.00
SUE Technician 1	\$41.00
Survey Party Chief	\$77.00
Survey Technician 3	\$61.00
Survey Technician 1	\$40.00
SUE Designating/Locating Crew (2-Person)	\$166.00
SUE Designating/Locating Crew (3-Person)	\$189.00
Survey Crew (3-Person)	\$178.00
Survey Crew (4-Person)	\$218.00

The above billing rates are fully loaded (burdened) rates shall remain fixed for the duration. The above rates include all labor, direct/indirect overhead, margins/profit, salary escalations, customary expenses such as copies, postage, etc., and travel within the Tampa Bay Metropolitan Statistical Area. Travel expenses outside of the Tampa Bay Metropolitan Statistical Area shall be reimbursed in accordance with Florida Statutes.

A handwritten signature in blue ink, reading "Jeraldo Comellas, Jr." with a stylized flourish at the end.

Name Jeraldo Comellas, Jr., PE
Title President

09/03/2021

Date



Landon, Moree & Associates, Inc.

Civil & Environmental Engineers - Planners - Surveyors

31622 US 19 North
Palm Harbor, Florida 34684
Phone: (727) 789-5010
Toll Free: 1-800-262-7960
Fax: (727) 787-4394
WWW.LMAENGR.COM
LANDON@LMAENGR.COM

LMA Rates - Airco Taxiway project

Name of Firm: Landon Moree Associates, Inc. Date: 09-08-2021

Multiplier/Markup

Category	Multiplier/Markup
Personnel	
Direct Salary (a)	1.0000
Overhead (b)	1.5000
Total (a + b) = (c)	2.5000
Profit (d)	1.2000
Multiplier (c x d)	3.0000
Direct Non-Salary Expenses	1.0000
Subconsultant (Markup)	1.1000
Subcontractor (Markup)	1.1000

Direct Salary Rates/Billing Rates

Position/Title			
	Direct	Multiplier	Billing
Expert Witness	76.67	3.0000	230.00
Principal	65.00	3.0000	195.00
Senior Engineer/Project Manager	50.00	3.0000	150.00
Engineer V	45.00	3.0000	135.00
Engineer IV	45.00	3.0000	135.00
Engineer III	45.00	3.0000	135.00
Engineer II	40.00	3.0000	120.00
Engineer I	36.67	3.0000	110.00
CAD Technician II	31.67	3.0000	95.00
CAD Technician I	31.67	3.0000	95.00
Word Processor	25.00	3.0000	75.00



October 23, 2020

St. Pete-Clearwater International Airport
Professional Engineering Services
RFQ 190-0486-CN-SS
NSI P/N 200601

FULLY LOADED RATES

<u>CLASSIFICATION</u>	<u>HOURLY RATE</u>
2-PERSON SURVEY CREW	\$108.00
3-PERSON SURVEY CREW	\$152.50
SENIOR PROJECT MANAGER, PSM	\$200.00
PROJECT SURVEYOR/CAD TECHNICIAN	\$104.25
ADMINISTRATIVE	\$ 93.75
EXPENSES (TRUCK, GPS & CONVENTIONAL EQUIPMENT)	\$262.00 (PER MOBILIZATION)

TIERRA

August 25, 2020

AVCON
5555 E. Michigan Street
Suite 200
Orlando, FL 32822
Attn: Mr. Sandeep Singh, P.E.

**RE: Schedule of Rate Values for Pinellas County
St. Pete-Clearwater International Airport
Professional Engineering Services
Contract No. 190-0486-CN (SS)
Pinellas County, Florida
Tierra Project No.: 6511-20-187**

Mr. Singh:

Thank you for the opportunity to join your team for the St. Pete-Clearwater International Airport Professional Engineering Services contract.

Please find attached Tierra's Exhibit B, which represents our firm's Schedule of Rate Values to be used on the contract. We understand that the rate structure is fully loaded (burdened) and will be in effect for the entire term of the contract.

We trust that this will meet your needs for the Schedule of Rates Values requested by Pinellas County.

Thank you once again for the opportunity to be part of your team.

Please let us know if you have any questions or need further information.

Sincerely,

TIERRA, INC.



Henri V. Jean, P.E.
Principal Geotechnical Engineer

Item Description	Unit	Unit Price
Geotechnical Field Investigation		
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.00
402-Geo Auger Borings- Track	LF	\$ 12.00
403-Geo Backhoe (Owned)	Day	\$ 600.00
405-Geo Barge (Owned)	Day	\$ 2,500.00
407-Geo Chainsaw (Owned)	Day	\$ 28.00
415-Geo Double Ring Infiltration (ASTM D3385)	Each	\$ 525.00
416-Geo Dozer (Owned)	Day	\$ 800.00
418-Geo Drill Crew Support Vehicle	Day	\$ 160.00
531-Geo Truck/Mudbug Drill Rig and Crew (2-Person)	Hour	\$ 135.00
Site Clearing to Access Boring or Test Locations	Hour	\$ 210.00
532-Geo Truck/Mudbug Drill Rig and Crew (3-Person)	Hour	\$ 185.00
421-Geo Dynamic Pile Testing/Pile Driving Analysis	Day	\$ 1,700.00
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
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
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 310.00
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 350.00
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.00
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.00
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00
Geo Grout Boreholes- Truck 0-050 Ft	LF	\$ 5.00
Geo Grout Boreholes- Truck 50-100 Ft	LF	\$ 7.00
Geo Grout Boreholes- Truck 100-150 Ft	LF	\$ 10.00
Geo Grout Boreholes- Truck 150-200 Ft	LF	\$ 14.00
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.00
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 28.00
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00
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

Item Description	Unit	Unit Price
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.00
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.00
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 SPT Truck 0-50 Ft	LF	\$ 12.00
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	\$ 15.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.00
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.00
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.00
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
Geo Temp Casing 3" Truck 0-050 Ft	LF	\$ 8.00
Geo Temp Casing 3" Truck 50-100 Ft	LF	\$ 10.00
Geo Temp Casing 3" Truck 100-150 Ft	LF	\$ 12.00
Geo Temp Casing 3" Truck 150-200 Ft	LF	\$ 15.00
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.00
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	\$ 17.00
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00
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
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
523-Geo Vibration & Noise Monitoring	Day	\$ 900.00
524-Geo Vibration Monitoring	Day	\$ 1,000.00
525-Geo Well Development	Hour	\$ 140.00
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 7,500.00
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00
615-Mobilization Pile Driving Analyzer Equipment	Each	\$ 345.00
618.1-Geo Support Safety Boat	Day	\$ 500.00
618-Geo Mobilization Support Boat	Each	\$ 500.00
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00
Flagman and Barricades 2-Man Crew Own Equipment	Day	\$ 1,080.00
701-MOT Attenuator Truck	Hour	\$ 340.00

Item Description	Unit	Unit Price
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00
706-MOT Portable Sign	Each	\$ 30.00
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00
712-MOT Support Vehicle	Hour	\$ 155.00
Drilling Permit Costs IE DEP	Each	\$ 250.00
Geotechnical Laboratory Testing		
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 100.00
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 45.00
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 60.00
104-Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27	Test	\$ 60.00
105-Aggregate Soundness AASHTO T104	Test	\$ 300.00
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 88.00
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 35.00
108-Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 55.00
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 89.00
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 50.00
201-Asphalt Content FM 5-563	Test	\$ 145.00
204-Asphalt Gradation FM 1-T030	Test	\$ 75.00
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 310.00
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 297.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 110.00
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Test	\$ 50.00
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 305.00
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
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 42.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 10.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00
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
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 225.00
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 225.00
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 35.00
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 115.00
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 111.00
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 46.00
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 110.00
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00

Item Description	Unit	Unit Price
Contamination Test Units		
EDR Report	Each	\$ 500.00
Organic Vapor Analyzer (OVA)	Day	\$ 150.00
Handheld GPS	Per Day	\$ 80.00
Field Sampling Kit (soil)	Each	\$ 75.00
Field Sampling Survey Kit (water)	Each	\$ 75.00
Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.00
BTEX and MTBE (Method 8260)	Each	\$ 65.00
Organochlorine Pesticides (Method 8081)	Each	\$ 100.00
Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00
Chlorinated Herbicides (Method 8151)	Each	\$ 100.00
Volatile Organics (Method 8260)	Each	\$ 95.00
Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00
Semi-Volatiles (Method 8270)	Each	\$ 200.00
Polycyclic Aromatic Hydrocarbons (Method 8270)	Each	\$ 100.00
TPH Method FL-Pro	Each	\$ 65.00
RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00
RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00
Mercury Individual (Method 6010/7471)	Each	\$ 25.00
Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00
Arsenic (Method 6010/7471)	Each	\$ 9.00
SPLP/TCLP Metals	Each	\$ 198.00
Asbestos Samples	Each	\$ 15.00
Polychlorinated Biphenals (8082)	Each	\$ 75.00
Asphalt and Concrete Pavement Coring		
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 250.00
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 200.00
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00
300-Concrete Beam Flexural Testing ASTM C78	Test	\$ 50.00
301-Concrete Compressive Strength of Grout / Mortar ASTM C109	Test	\$ 40.00
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 40.00
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 40.00
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00
603-Mobilization Asphalt Coring equipment	Each	\$ 300.00
606-Mobilization Concrete Coring	Each	\$ 300.00
Engineering and Technical Support Services		
MAT Chief Engineer	Hour	\$ 219.00
Chief Scientist	Hour	\$ 175.00
MAT Engineer	Hour	\$ 138.00
MAT Engineering Intern	Hour	\$ 98.00
MAT Engineering Technician	Hour	\$ 84.00
MAT Principal Engineer	Hour	\$ 219.00
MAT Secretary / Clerical	Hour	\$ 77.00
MAT Senior Engineer	Hour	\$ 193.00
MAT Senior Engineering Technician	Hour	\$ 102.00
Senior Designer	Hour	\$ 123.00
Senior Scientist	Hour	\$ 147.00

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.

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;

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- 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.*).

Exhibit D
FAA Required Contract Provisions for Airport Improvement Program and Obligated Sponsors

GRANT FUNDING CONDITIONS

This Agreement is either fully or partially grant funded. Consultants (also referred to as Contractors) shall also comply with the clauses enumerated below. If a clause enumerated below conflicts with the language above, the clauses enumerated below control. To the extent there are additional requirements as a condition of this grant, Consultants must also comply with the additional requirements, which shall be provided by the County if not contained herein.

TITLE VI SOLICITATION NOTICE

The **(Name of Sponsor)**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: <http://www.sam.gov>
2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
3. Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

CERTIFICATION REGARDING LOBBYING

The bidder or offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or
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FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

TRADE RESTRICTION CERTIFICATION

By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror -

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (U.S.T.R.);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S.T.R; and
- c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The Offeror/Contractor must provide immediate written notice to the Owner if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- (1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- (2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or
- (3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

ACCESS TO RECORDS AND REPORTS

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the sponsor, the Federal Aviation Administration, and the Comptroller General of the United States or any of their duly authorized representatives, access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

BREACH OF CONTRACT TERMS

Any violation or breach of terms of this contract on the part of the contractor or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

Owner will provide [*Contractor / Consultant*] written notice that describes the nature of the breach and corrective actions the [*Contractor / Consultant*] must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which the [*Contractor / Consultant*] must correct the breach. Owner may proceed with termination of the contract if the [*Contractor / Consultant*] fails to correct the breach by deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

BUY AMERICAN PREFERENCE

The contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must complete and submit the Buy America certification included herein with their bid or offer. The Owner will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

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 benefiting from Federal assistance.

This provision binds the contractor and subtier contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

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.
 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.
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FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

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;
 - 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,
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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).

CLEAN AIR AND WATER POLLUTION CONTROL

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The Contractor agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceeds \$150,000.

CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS

1. Overtime Requirements.

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; Liability for Unpaid Wages; Liquidated Damages.

In the event of any violation of the clause set forth in paragraph (1) of this clause, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

3. Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration (FAA) or the Owner shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this clause.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

4. Subcontractors.

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this clause.

COPELAND "ANTI-KICKBACK" ACT

Contractor must comply with the requirements of the Copeland "Anti-Kickback" Act (18 U.S.C. 874 and 40 U.S.C. 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week. Owner must report any violations of the Act to the Federal Aviation Administration.

CERTIFICATION OF OFFERER/BIDDER REGARDING DEBARMENT

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

CERTIFICATION OF LOWER TIER CONTRACTORS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

4. Checking the System for Award Management at website: <http://www.sam.gov>
5. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
6. Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

DISADVANTAGED BUSINESS ENTERPRISES (DBE GOAL IS 5.09%)

Contract Assurance (§ 26.13) - The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate.

Prompt Payment (§26.29) - The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than {specify number} days from the receipt of each payment the prime contractor receives from {Name of recipient}. The prime contractor agrees further to return retainage payments to each subcontractor within {specify the same number as above} days after the subcontractor's work is satisfactorily completed.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the {Name of Recipient}. This clause applies to both DBE and non-DBE subcontractors.

TEXTING WHEN DRIVING

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the Owner encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

ENERGY CONSERVATION REQUIREMENTS

Contractor and Subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201*et seq.*).

EQUAL OPPORTUNITY CLAUSE

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identify or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books,

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided, however,* That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

FEDERAL FAIR LABOR STANDARDS ACT

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The [contractor / consultant] has full responsibility to monitor compliance to the referenced statute or regulation. The [contractor / consultant] must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

PROHIBITION OF SEGREGATED FACILITIES

(a) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.

(b) "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

(c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

PROCUREMENT OF RECOVERED MATERIALS

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use of products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- a) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or,
- b) The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at www.epa.gov/epawaste/conserve/tools/cpg/products/.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

SEISMIC SAFETY

In the performance of design services, the Consultant agrees to furnish a building design and associated construction specification that conform to a building code standard which provides a level of seismic safety substantially equivalent to standards as established by the National Earthquake Hazards Reduction Program (NEHRP). Local building codes that model their building code after the current version of the International Building Code (IBC) meet the NEHRP equivalency level for seismic safety. At the conclusion of the design services, the Consultant agrees to furnish the Owner a "certification of compliance" that attests conformance of the building design and the construction specifications with the seismic standards of NEHRP or an equivalent building code.

TERMINATION FOR CONVENIENCE (PROFESSIONAL SERVICES)

The Owner may, by written notice to the Consultant, terminate this Agreement for its convenience and without cause or default on the part of Consultant. Upon receipt of the notice of termination, except as explicitly directed by the Owner, the Contractor must immediately discontinue all services affected.

Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

TERMINATION FOR DEFAULT (PROFESSIONAL SERVICES)

Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

The terminating party must provide the breaching party [7] days advance written notice of its intent to terminate the Agreement. The notice must specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this agreement.

a) **Termination by Owner:** The Owner may terminate this Agreement in whole or in part, for the failure of the Consultant to:

1. Perform the services within the time specified in this contract or by Owner approved extension;
2. Make adequate progress so as to endanger satisfactory performance of the Project;
3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Consultant must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Consultant must deliver to the Owner all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the Engineer under this contract, whether complete or partially complete.

Owner agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

Owner further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, the Owner determines the Consultant was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the Owner issued the termination for the convenience of the Owner.

b) **Termination by Consultant:** The Consultant may terminate this Agreement in whole or in part, if the Owner:

1. Defaults on its obligations under this Agreement;
2. Fails to make payment to the Consultant in accordance with the terms of this Agreement;
3. Suspends the Project for more than [180] days due to reasons beyond the control of the Consultant.

Upon receipt of a notice of termination from the Consultant, Owner agrees to cooperate with Consultant for the purpose of terminating the agreement or portion thereof, by mutual consent. If Owner and Consultant cannot reach

FAA Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors

mutual agreement on the termination settlement, the Consultant may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the Owner's breach of the contract.

In the event of termination due to Owner breach, the Engineer is entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Consultant through the effective date of termination action. Owner agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

VETERAN'S PREFERENCE

In the employment of labor (excluding executive, administrative, and supervisory positions), the contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

Exhibit E

Florida Department of Transportation Funding

This project is being funded in part by a Grant from the Florida Department of Transportation (FDOT). The contractor must abide by the following contract provisions:

Equal Employment Opportunity: In connection with the carrying out of this Project, the contractor shall not discriminate against any employee or applicant for employment because of race, age, creed, color, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, age, creed, color, sex, or national origin. Such action shall include, but not be limited to, the following: Employment upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor shall insert the foregoing provision modified only to show the particular contractual relationship in all its subcontracts in connection with the development or operation of the Project, except subcontracts for the standard commercial supplies or raw materials, and shall require all such subcontractors to insert a similar provision in all subcontracts, except subcontracts for standard commercial supplies or raw materials. When the Project involves installation, construction, demolition, removal, site improvement, or similar work, the Contractor shall post, in conspicuous places available to employees and applicants for employment for Project work, notices to be provided by the Department setting forth the provisions of the nondiscrimination clause.

Title VI - Civil Rights Act of 1964: The Contractor will comply with all the requirements imposed by Title VI of the Civil Rights Act of 1964 (42 USC 2000d, et. seq), the Regulations of the Federal Department of Transportation issued thereunder, and the assurance by the Contractor pursuant thereto.

Title VIII - Civil Rights Act of 1968: The Contractor will comply with all the requirements imposed by Title VIII of the Civil Rights Act of 1968, (42 USC 3601, et seq.) which among other things, prohibits discrimination in housing on the basis of race, color, national origin, creed, sex and age.

Americans with Disabilities Act of 1990 (ADA): The Contractor will comply with all the requirements imposed by the ADA (42 USC 12012. et. Seq.) the regulations of the federal government issued thereunder, and the assurance by the Contractor pursuant thereto.

Disadvantaged Business Enterprise (DBE) Policy and Obligation:

DBE Policy: It is the policy of the FDOT Grant that Disadvantaged Business Enterprises (DBE) as defined in 49 CFR Part 26, as amended, shall have the equal opportunity to participate in the performance of contracts financed in whole or in part with FDOT funds. The DBE requirements of 49 CFR Part 26, as amended, apply to this contract.

DBE Obligation: The Contractor agrees to ensure that Disadvantaged Business Enterprises as defined in 49 CFR Part 26, as amended, have the equal opportunity to participate in the performance of this contract. In this regard, the contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26, as amended, to ensure that the Disadvantaged Business Enterprises have the maximum opportunity to compete for and perform this contract. The contractor and their subcontractors shall not discriminate on the basis of race, color, national origin or sex in the award and performance of this contract.

EXHIBIT E

The contractor shall not discriminate on the basis of race color national origin or sex in the award and performance of any DOT assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26 The contractor shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT assisted contracts The airport's DBE program goal as required by 49 CFR part 26 and as approved by DOT is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as a violation of this contract. Upon notification to the contractor of its failure to carry out its approved program the County may impose sanctions as provided for under part 26 and may in appropriate cases refer the matter for enforcement under 18USC1001 and/or the Program Fraud Civil Remedies Act of 1986 (31USC3801 et seq.)

E-Verify

The contractor shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Vendor/Contractor during the term of the contract; and

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

EXHIBIT F
CONTRACT PROVISIONS FOR CONTRACTS UNDER FEDERAL AWARDS
PROPOSAL NUMBER: 21-0552-NC (SS)
PROPOSAL TITLE: New Airco Taxiway - Professional Engineering Services

This solicitation is either fully or partially grant-funded. In addition to other terms and conditions required by Pinellas County and the applicable federal agency, all contracts awarded to the qualified bidder are subject to the following provisions, as applicable to the services provided.

Equal Employment Opportunity (As per Executive Order 11246): During the performance of this contract, the CONTRACTOR agrees as follows:

- (1) The CONTRACTOR will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The CONTRACTOR will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The CONTRACTOR will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (3) The CONTRACTOR will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The CONTRACTOR will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The CONTRACTOR will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (6) In the event of the CONTRACTOR's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the CONTRACTOR may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The CONTRACTOR will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor.

Davis-Bacon Act as amended (40 U.S.C. 3141-3148): When required by federal program legislation, for all prime construction contracts awarded in excess of \$2,000, CONTRACTORS are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, Contractors must be required to pay wages not less than once a week. If the applicable grant award contains Davis Bacon provisions, the County will place a copy of the current prevailing wage determination issued by the Department of Labor in the solicitation document. The decision to award a contract shall be conditioned upon the acceptance of the wage determination [Appendix II to 2 CFR Part 200].

Copeland Anti Kick Back Act: If Davis-Bacon is applicable, CONTRACTOR shall also comply with all the requirements of 29 CFR Part 3 which are incorporated by reference to this contract. CONTRACTORS are prohibited from inducing by any means any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he or she is otherwise entitled [Appendix II to 2 CFR Part 200].

Contract Work Hours and Safety Standards Act (40 U.S.C. 3701–3708): Where applicable, all contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must be in compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each CONTRACTOR is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence [Appendix II to 2 CFR Part 200].

Rights to Inventions Made Under a Contract or Agreement: If the federal award meets the definition of “funding agreement” under 37 CFR § 401.2 (a) and the County enters into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the County must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency [Appendix II to 2 CFR Part 200].

Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387): As amended—The CONTRACTOR agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA) [Appendix II to 2 CFR Part 200].

Debarment and Suspension (Executive Orders 12549 and 12689): A contract award (see 2 CFR 180.220) will not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. If applicable, the CONTRACTOR must verify that none of their subcontractors (for contracts expected to equal or exceed \$25,000), appear on the federal government’s Excluded Parties List. The Excluded Parties List is accessible at <http://www.sam.gov> [Appendix II to 2 CFR Part 200].

Byrd Anti-Lobbying Amendment (31 U.S.C. 1352): CONTRACTORS that apply or bid for an award exceeding \$100,000 must submit a completed “Disclosure of Lobbying Activities” [Form SF-LLL]. Each tier certifies to the tier above that it will not and has not used federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with *non-federal funds* that takes place in connection with obtaining any federal award. Such disclosures are forwarded from tier to tier up to the non-federal award. [Appendix II to 2 CFR Part 200]. **The bidder shall complete Form SF-LLL and submit with bid. Bidders may be deemed non-responsive for failure to submit this certification.**

Conflict of Interest [2 CFR §200.112]: The CONTRACTOR must disclose in writing any potential conflict of interest to the Federal awarding agency or COUNTY in accordance with applicable Federal awarding agency policy.

Mandatory Disclosures [2 CFR §200.113]: The CONTRACTOR must disclose in writing all violations of federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the federal award. Failure to make required disclosures can result in any of the remedies described in 2 CFR §200.338 Remedies for noncompliance, including suspension or debarment.

Protected Personally Identifiable Information (Protected PII) [CFR §200.303(e)]: The CONTRACTOR must take reasonable measures to safeguard protected personally identifiable information and other information the federal awarding agency or COUNTY designates as sensitive or the County considers sensitive consistent with other applicable federal, state, and local laws regarding privacy and obligations of confidentiality. Per CFR § 200.82, Protected PII means an individual's first name or first initial and last name in combination with any one or more of types of information, including, but not limited to, social security number, passport number, credit card numbers, clearances, bank numbers, biometrics, date and place of birth, mother's maiden name, criminal, medical and financial records, educational transcripts. This does not include PII that is required by law to be disclosed.

Prohibition on utilization of time and material type contracts [2 CFR §200.318 (j) (1)]: The COUNTY will not award contracts based on a time and material basis if the contract contains federal funding.

Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms [2 CFR § 200.321]: If using subcontractors, the CONTRACTOR must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. Affirmative steps must include:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.
- (6) Affirmative Action Requirements per 41 CFR 60-4.1 Goals for Women and Minorities in Construction (for contracts in excess of \$10,000): Goals and timetables for minority and female utilization may be set which shall be based on appropriate workforce, demographic or other relevant data and which shall cover construction projects or construction contracts performed in specific geographical areas. The goals, which shall be applicable to each construction trade in a covered Contractor's or subcontractor's entire workforce which is working in the area covered by the goals and timetables, shall be published as notices in the Federal Register, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction Contractors performing construction work in geographical areas where they do not have a federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed.
- (g) Information regarding certified M/WBE firms can be obtained from:

- Florida Department of Management Services (Office of Supplier Diversity);
- Florida Department of Transportation;
- Minority Business Development Center in most large cities; and
- Local Government M/DBE programs in many large counties and cities

Procurement of Recovered Materials [2 CFR §200.322]: CONTRACTOR must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

Prohibition on utilization of cost plus a percentage of cost contracts [2 CFR §200.323 (d)]: The COUNTY will not award contracts containing federal funding on a cost plus percentage of cost basis.

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

Approved by OMB

0348-0046

(See reverse for public burden disclosure.)

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance		2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award		3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____	
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: *Name *Street 1 *Street 2 *City *State *Zip Congressional District, if known:			5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime: Congressional District, if known:		
6. Federal Department/Agency:			7. Federal Program Name/Description: CFDA Number, if applicable: _____		
8. Federal Action Number, if known:			9. Award Amount, if known: \$		
10. a. Name and Address of Lobbying Registrant (if individual, last name, first name, MI):			b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):		
11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.			Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____		
Federal Use Only:				Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)	

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

1. LIMITATIONS ON LIABILITY

By submitting a Proposal, the Consultant acknowledges and agrees that the services will be provided without any limitation on the Consultant's liability. The County objects to and shall not be bound by any term or provision that purports to limit the Consultant's liability to any specified amount in the performance of the services. The Consultant shall state any exceptions to this provision in its response, including specifying the proposed limits of liability in the stated exception to be included in the Services Agreement. The Consultant is deemed to have accepted and agreed to provide the services without any limitation on the Consultant's liability that the Consultant does not take exception to in its response. Notwithstanding any exceptions by the Consultant, the County reserves the right to declare its prohibition on any limitation on the Consultant's liability as non-negotiable, to disqualify any Proposal that includes exceptions to this prohibition on any limitation on the Consultant's liability, and to proceed with another responsive, responsible proposal, as determined by the County in its sole discretion.

2. INDEMNIFICATION

If the Consultant is an individual or entity licensed by the State of Florida who holds a current certificate of registration or is qualified 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, or for any violation of requirements of the Americans with Disabilities Act of 1990, as may be amended, and all rules and regulations issued pursuant thereto (collectively the "ADA") of the Consultant and other persons employed or utilized by the Consultant in the performance of the Agreement.

3. INSURANCE

The Consultant must provide a certificate of insurance and endorsement in accordance with the insurance requirements listed below, prior to recommendation for award.

The Consultant shall obtain and maintain, and require any sub-Consultants to obtain and maintain, at all times during its performance of the Agreement, insurance of the types and in the amounts set forth. For projects with a Completed Operations exposure, Consultant shall maintain coverage and provide evidence of insurance for two (2) years beyond final acceptance. All insurance policies shall be from responsible companies duly authorized to do business in the State of Florida and have an AM Best rating of A- VIII or better.

- A. Submittals should include the Consultant's current Certificate(s) of Insurance. 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 prior to the award of contract.

Upon selection of Consultant for award, the selected Consultant shall email certificate that is compliant with the insurance requirements. If the certificate received is compliant, no further action may be necessary. The Certificate(s) of Insurance shall be signed by authorized representatives of the insurance companies shown on the Certificate(s). **The Certificate holder section shall indicate Pinellas County, a Subdivision of the State of Florida, 400 S Fort Harrison Ave, Clearwater, FL 33756. Pinellas County shall be named as an Additional Insured for General Liability. A Waiver of Subrogation for Workers Compensation shall be provided if Workers Compensation coverage is a requirement.**

- B. 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. The 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.
- C. 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 Consultant 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 Consultant or their agent prior to the expiration date.

- 1) The Consultant shall also notify the County within twenty-four (72) hours after receipt, of any notices of expiration, cancellation, nonrenewal or adverse material change in coverage received by said Consultant

EXHIBIT H - LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

from its insurer. Notice shall be given by email to Pinellas County Risk Management at InsuranceCerts@pinellascounty.org. Nothing contained herein shall absolve Consultant of this requirement to provide notice.

- 2) Should the Consultant, at any time, not maintain the insurance coverages required herein, the County may terminate the Agreement.

D. If subcontracting is allowed under this RFP, the Primary Consultant 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 sub-consultants 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 subconsultant; 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.

All subcontracts between the Consultant and its subconsultants shall be in writing and are subject to the County's prior written approval. Further, all subcontracts shall;

- 1) Require each subconsultant to be bound to the Consultant to the same extent the Consultant 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 subconsultant;
- 2) Provide for the assignment of the subcontracts from the Consultant 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 subconsultant except workers compensation and professional liability;
- 5) Provide a 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;
- 7) Identify the County as an intended third-party beneficiary of the subcontract. The Consultant shall make available to each proposed subconsultant, prior to the execution of the subcontract, copies of the Contract Documents to which the subconsultant will be bound by this Section C and identify to the subconsultant any terms and conditions of the proposed subcontract which may be at variance with the Contract Documents.

E. 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.
- 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 Consultant.
- 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) All policies shall be written on a primary, non-contributory basis.

EXHIBIT H - LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

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:

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) 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", Proposer 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.

- (4) 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:

EXHIBIT H - LIMITATION ON LIABILITY, INDEMNIFICATION, AND INSURANCE REQUIREMENTS

- 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

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.

For herbicide and pesticide spraying operations only, an endorsement to the Commercial General Liability policy that provides Pollution Liability coverage for herbicide and pesticide spraying is acceptable.

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