

AMENDMENT NO. 1

TO

CONTRACT FOR DESIGN PROFESSIONAL SERVICES

This AMENDMENT No. 1 is to the Contract for Design Professional Services which was entered into the 3rd day of October, 2019 by and between the Hillsborough County Aviation Authority, an independent special district under the laws of the State of Florida, hereinafter referred to as the "Owner", and AVCON, Inc., a Florida Corporation, authorized to do business in the State of Florida, hereinafter referred to as the "Design Professional". With the execution of Amendment No. 1, the Owner and the Design Professional, for the consideration stated herein, and other good and valuable consideration, hereto agree to change provisions of the aforementioned Contract as follows:

1. ARTICLE 1 – SERVICES BY THE DESIGN PROFESSIONAL

Delete Paragraph 3.1 in its entirety and replace with the following:

3.1 The services that the Design Professional will provide to the Owner under this Contract will be as follows, and in general accordance with the Owner's Request for Qualifications dated April 3, 2019, entitled "Request for Qualifications for Runway 5-23 & Taxiway E Rehabilitation at Tampa Executive Airport, Tampa, Florida", the Design Professional's response to the Owner's Request for Qualifications dated May 15, 2019, entitled "STATEMENT OF QUALIFICATIONS Runway 5-23 & Taxiway E Rehabilitation at Tampa Executive Airport Project No. 6700 20 Solicitation No. 19-411-020", the Design Professional's Fee and Scope Proposal dated September 11, 2019, entitled "SCOPE OF SERVICES FOR Professional Engineering Services For Runway 5-23 Rehabilitation HCAA Project Number: 6700 20 Tampa Executive Airport (VDF) and SCOPE OF SERVICES FOR Professional Engineering Services For Taxiway E Rehabilitation HCAA Project Number: 6700 20 Tampa Executive Airport (VDF)" which are all incorporated herein by reference, and the Design Professional's Fee and Scope Proposals dated September 19, 2022, entitled "Professional Engineering Services For FY 2023 Project - Taxiways A, D, E, & J Rehabilitation HCAA Project Number: 7150 23 Tampa Executive Airport (VDF) and Professional Engineering Services For FY 2024 Project – Runway 18-36, Taxiway Connectors A1-A6, FBO Apron & Taxiways C & F Rehabilitation HCAA Project Number: 7150 23 Tampa Executive Airport (VDF)", which is attached hereto as Attachment 1 and incorporated herein by reference. In the event of any conflicts between this Contract and any other documents, the precedence in resolving such conflicts will be as follows:

3.1.1 This Contract

3.1.2 Individual work order and Design Professional's associated Fee and Scope Proposal

3.1.3 The Owner's Request for Qualifications

3.1.4 Design Professional's response to Request for Qualifications

2. ARTICLE 5 – PAYMENTS TO THE DESIGN PROFESSIONAL

Delete Paragraph 5.1 in its entirety and replace with the following:

5.1 The amount for the performance of basic services and reimbursable expenses required under this Contract, will be in a not-to-exceed amount of Two Million Four Hundred Thousand and No One Hundredths Dollars (\$2,400,000.00), which includes all fees for subconsultants.

3. ARTICLE 24 - DISADVANTAGED BUSINESS ENTERPRISE (DBE) ASSURANCES

Delete Paragraph 24.4 in its entirety and replace with the following:

24.4 DBE Goals. In compliance with the Owner's DBE policy, the Design Professional's minimum DBE commitment is established as the sum total of the verified Letter(s) of Intent submitted with their response. The goal stated below is the sum total of the certified DBE's listed in the Design Professional's Fee and Scope Proposal which is attached hereto as Attachment 1 and which will be enforceable under the terms of this Contract. The Design Professional will demonstrate that they will subcontract to certified DBEs certified by the Florida Unified Certification Program (FLUCP) at least 25.0% of the dollar amount of the design fees earned under this Contract, or clearly demonstrate in a manner acceptable to the Owner its good faith efforts to obtain certified DBE subcontractors.

4. All other consistent terms remain in full force and effect and are hereby ratified and confirmed.
5. The Contract, as modified by Amendment No. 1, represents the entire understanding between the parties on the issues contained in the Contract, either written or oral, and may be amended only by written instrument signed by both parties.

IN WITNESS WHEREOF, the parties hereto have set their hands and corporate seals by their proper officers, duly authorized to do so;

By the Design-Builder this 23rd day of September, 2022.

ATTEST:

[Handwritten signature]



AVCON, Inc.

By: *[Handwritten signature]*

Title: Vice-Presidenti

Print Name

Rick Baldocchi

Print Address

5555 E. Michigan St., Suite 200

Orlando, FL 32822

Signed, sealed, and delivered in the presence of:

[Handwritten signature]

Witness

Sara Lopez-Abad

Print Name

[Handwritten signature]

Witness

Tom McDonnell

Print Name

Notary for AVCON, Inc.

STATE OF FLORIDA

COUNTY OF DRANGE

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 23rd day of SEPT, 2022, by RICHARD BALDOCCHI as

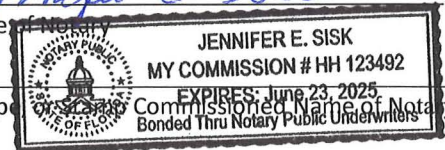
(Name of person)

VICE PRESIDENT, for AVCON, Inc.

(type of authority)

[Handwritten signature]
Signature of Notary

Print, Type of Notary



Personally Known OR Produced Identification
Type of Identification Produced

By the Authority this 6th day of October, 2022.

HILLSBOROUGH COUNTY AVIATION AUTHORITY

(Affix Corporate Seal)

By: _____
Gary Harrod, Chairman

ATTEST:

Jane Castor, Secretary

Signed, sealed, and delivered
in the presence of:

Witness

Print Name

Witness

Print Name

REVIEWED BY:

Jeff Siddle, P.E., Vice President of Planning and
Development

**APPROVED AS TO FORM FOR LEGAL
SUFFICIENCY:**

By: _____
Michael T. Kamprath, Assistant General Counsel

Notary for Hillsborough County Aviation Authority

**STATE OF FLORIDA
COUNTY OF HILLSBOROUGH**

The foregoing instrument was acknowledged before me by means of physical presence or online authorization, this ____ day of _____, 2022, by Gary Harrod, in the capacity of Chairman, and by Jane Castor in the capacity of Secretary, for Hillsborough County Aviation Authority, a public body corporate under the laws of the State of Florida, on its behalf.

Signature of Notary

Print, Type, or Stamp Commissioned Name of Notary

Personally Known OR Produced Identification
Type of Identification Produced

SCOPE OF SERVICES FOR**Professional Engineering Services For
FY 2023 Project - Taxiways A, D, E, & J Rehabilitation
HCAA Project Number: 7150 23****Tampa Executive Airport (VDF)****AVCON, INC.**

A. Project Description

This project is a continuation of the airfield pavement rehabilitation program that was initiated in 2020. Lessons learned from the design and construction of the Runway 5-23 Rehabilitation project will be applied to the remaining airfield pavement at Tampa Executive Airport (VDF). The remaining pavement will be designed and constructed in two bid packages (subject to available funding):

1. FY 2023 Project:

Taxiway A, Taxiway D, Taxiway E, Taxiway J, and part of Taxiway F

2. FY 2024 Project:

Runway 18-36, Taxiway Connectors A1-A6, FBO Apron, Taxiway C, and remaining portions of Taxiway F

This scope of work is focused on the **FY 2023 Project**, which corresponds to the areas of pavement that are currently eligible for FAA funding.

Parallel Taxiway A

Constructed in the mid-80's and last overlaid in 2003, Taxiway A was part of the original runway and taxiway system for Vandenberg Airport. Taxiway A serves as the full-length parallel taxiway to Runway 18-36, which is the crosswind/secondary runway at the renamed Tampa Executive Airport. With the PCI value just now hitting the threshold (65) for pavement rehabilitation, the existing pavement has held up extremely well for its age. The asphalt distresses are primarily age and environmental related. The observed asphalt pavement distresses included longitudinal and transverse cracks, and low and medium-severity weathering and raveling. These pavement distresses are causing raveling of the asphalt surface, which is creating an increased risk of FOD.

Taxiways E, D, F, and J

Taxiway E serves as a full-length parallel taxiway to Runway 5-23, while Taxiway D provides access from Runway 18-36 to Taxiway E and the FBO Apron, Taxiway J provides access from Runway 5-23 to the East hangar complex, and Taxiway F provides access from the East hangar

complex back to the FBO apron. These taxiways were all constructed in the late 1990's (1998/1999) and have all exceeded their 20-year design life. Similar to the other pavement at VDF, the asphalt distresses associated with these taxiways are primarily age and environmental related.

This project will include asphalt milling and an asphalt overlay for the taxiway pavement, which offers the Airport an opportunity to not only address the rehabilitation of the asphalt pavement, but to also upgrade the taxiway edge lighting, while minimizing the time-sensitive taxiway closures.

B. Project Team

The professional engineering services will be performed by the following team members:

- **AVCON** – Project Management, Airfield Engineering, Airfield Lighting Design, Navigational Aid Design, Structural Engineering, Cost Estimating, Scheduling, Construction Administration
- **Northwest Surveying** – Topographical Surveying (under separate work order)
- **Madrid** – Geotechnical Engineering
- **Tierra South Florida** - Construction Materials Testing
- **Volkert (formerly Bolt Underwater Services)** – Culvert Inspection
- **Sightline** – Airfield Pavement Markings Consultant

C. Project Scope, Design Assumptions, and Limits of Work

Exhibits C-1 and **C-2** show the limits of work and project scope elements. During design, the project scope may have to be modified due to budget limitations. The currently anticipated FY23/24 Rehabilitation package includes:

- Pavement rehab for Taxiways A, D, E, F, and J
- Geometry modifications to Taxiway connectors and intersections
- Replacement of CCR's
- Replacement of the taxiway edge lights and guidance signs
- Inspection and Rehabilitation of Drainage Culverts under Runway 5 approach and Taxiways C & D

A more detailed description of the project scope elements and design assumptions is presented in the following sections:

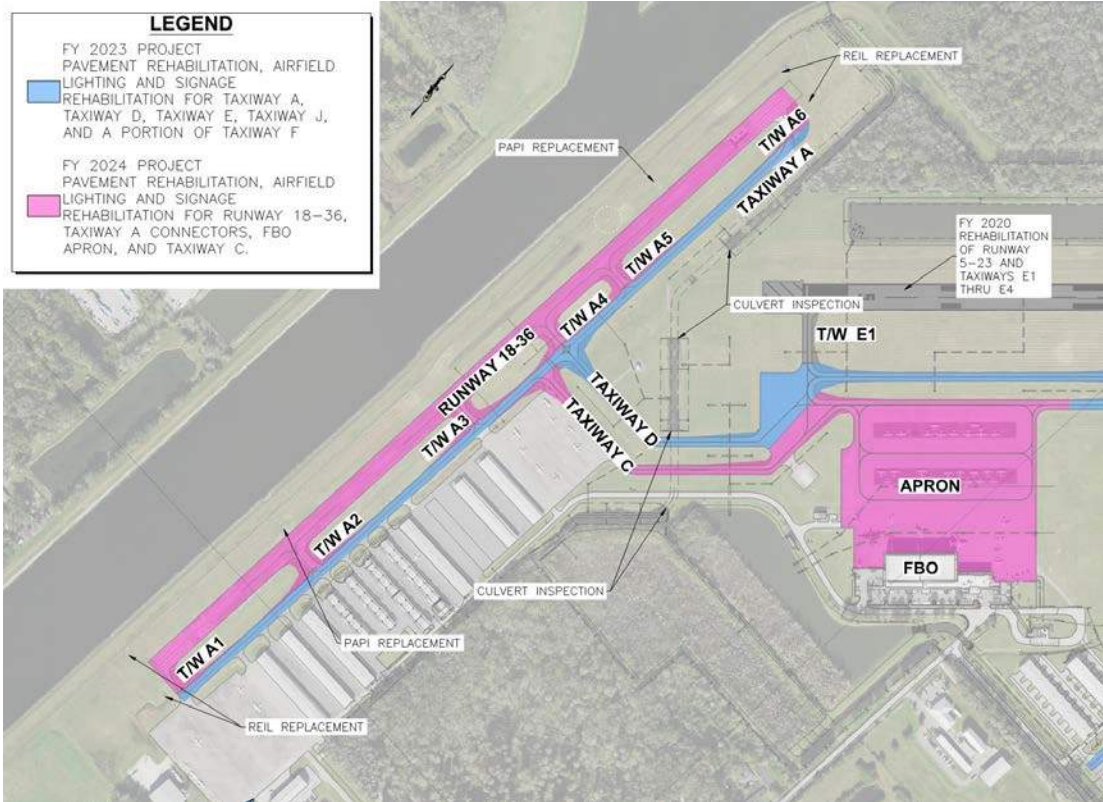


Exhibit C1

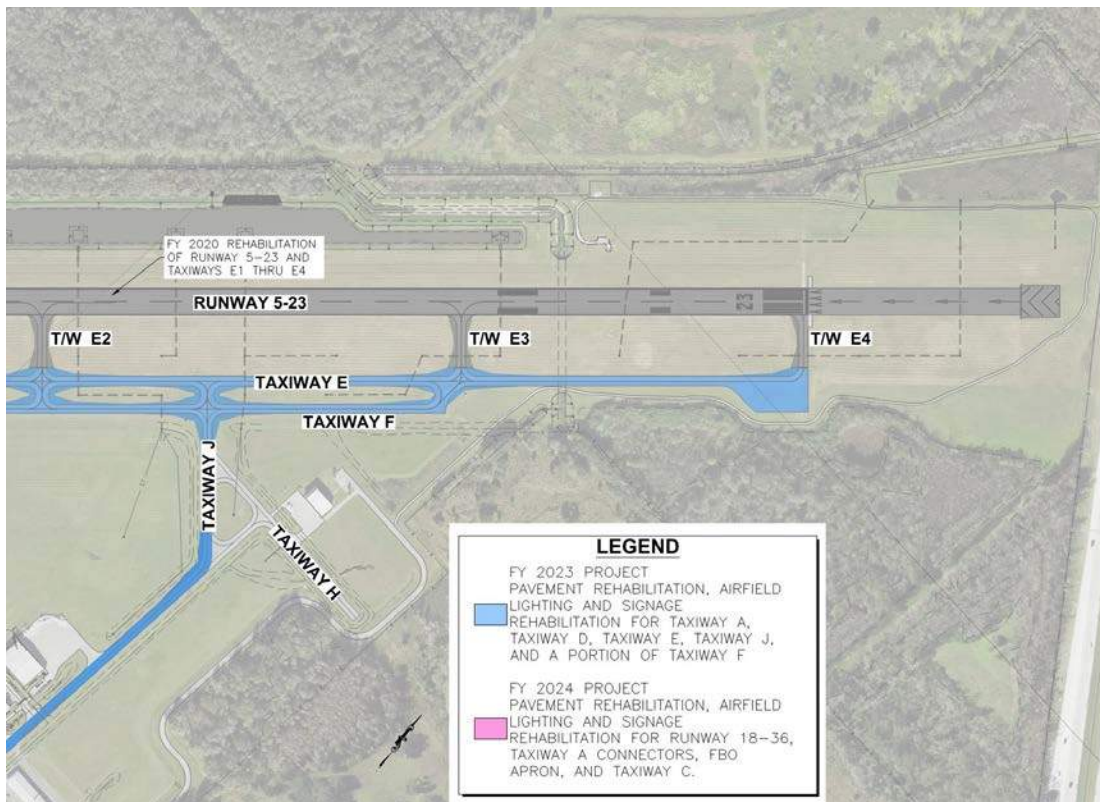


Exhibit C2

PAVEMENT EVALUATION

A preliminary visual inspection of the pavement will be conducted by AVCON prior to the survey and geotechnical investigation. Based on the findings of the inspection and investigations, the proposed rehabilitation method will be validated to determine whether it can address the pavement distresses while meeting the budget constraints.

Strengthening of the Taxiway pavement is not anticipated. It is expected that the rehabilitation of the Taxiway surfaces will be milled and resurfaced. To confirm the record drawings and validate the APMS, pavement cores and borings will be taken to verify existing pavement section, evaluate causes of pavement distresses, and assess ground water conditions.

ASPHALT SURFACE REHABILITATION

It is assumed that a similar rehabilitation method as the one used on Runway 5-23 (mill and overlay) will address the pavement distresses, correct any grading deficiencies, and meet the FAA minimum requirements for asphalt surface course (3 to 4-inch of HMA P-401 (Gyratory Compaction)). The minimum milling depth and overlay thickness will be determined during the pavement evaluation effort. The design will also evaluate the existing shoulder drop off to re-establish pavement edge drainage.

A portion of the asphalt millings from the project may be kept on-site, while the remainder will be hauled off.

GEOMETRY DESIGN

Based on the fleet mix, the taxiways at VDF are classified as either Taxiway Design Group 1 or Group 2 (TDG 1 or TDG 2). Applying the criteria to the existing taxiway geometry confirms that most of the existing taxiway intersection and connector geometry do not meet the FAA's requirements. Each of the taxiway intersections and connectors will require construction of additional full-depth pavement structure outside the existing limits of pavement.

AIRFIELD LIGHTING, SIGNAGE, AND MARKINGS

Changes in the taxiway connector geometry will require adjustment of the taxiway edge lights and signage in these areas. In addition, AVCON will evaluate and adjust the edge spacing of all the runway and taxiway edge lights as needed to meet the current FAA requirements.

Existing edge light cans and sign pads will be replaced. Existing manholes will be replaced with junction can plazas. The existing quartz runway and taxiway edge lights will be replaced with light emitting diode (LED) fixtures, along with new transformers and cabling. The condition of the airfield signs supports a full replacement as well.

AVCON will recommend equipping the taxiway lighting circuits with field lightning arrestors, which have demonstrated their value on other airfield electrical systems around the State by reducing lightning strike related damage.

Proposed airfield lighting system upgrades would include:

Taxiway A, D, E, F, and J

- Evaluate and adjust (as needed) edge light spacing to meet current FAA requirements
- New LED Medium Intensity Taxiway Light (MITL) system cans and conduit system
- New LED Mandatory Hold Signs to Runway 18-36, Size 1
- New LED Taxiway Guidance Signs, Size 1
- Remark Taxiway E run-up areas per current FAA requirements

Electrical System

- Assess Airfield Lighting Constant Current Regulator (CCR) sizes and replace regulators to accommodate revised loads.
- New CCR's shall be Ferro-resonant due to the higher operating efficiency and lower loads applied to these regulators with the implementation of LED fixtures.
- L-823 Superkit or Complete Kit connectors shall be specified to be used for all airfield lighting cable terminations. L-823 connectors shall be installed in each cable connecting to a L-830 lighting transformer, lighting fixture, sign, etc. A L-823 connector shall only be installed where connections to devices are made.
- All associated L-824 cables shall be replaced, including the homeruns to the Airfield Lighting Vault.
- All L-824 cables shall be identified with an 18-gauge, 2" diameter stainless steel ID tag stamped with its respective circuit/loop number at all accessible locations and colored tape per Tampa criteria to identify the circuit type.
- Junction can plazas shall be used for all airfield lighting circuits. The can plaza system isolates the series circuits from collateral damage. The use of a junction can plaza, in lieu of a manhole, also mitigates the need for airport personnel to be exposed to the hazards associated with entering a confined space.

Structural Inspection / Evaluation of Drainage Culvert

The existing concrete box culvert under the safety area of the Runway 5 approach end is approximately 400-ft long, and the box culvert under Taxiways C and D is approximately 300-ft long. Both culverts are three-sided structures with a concrete bottom slab. The structures partially full throughout the year and will most likely require inspection while filled with some level of water. The inspection will include all walls, footings, slabs, and underwater channel bottoms. The goals of the inspection program will include the following elements:

- Confirm that the structures are functioning in accordance with their intended purpose.
- Determine that the structures are safe for continued operation in their current condition.
- Determine the appropriate maintenance repairs that should be performed to maintain or extend the useful life of the structures.
- Structural strengthening of the drainage culverts is not anticipated.

D. SCOPE OF PROFESSIONAL SERVICES

1) Schematic Design (30%)

- 1.1 **Project Management** – Project Management will include the development of a Project Control Plan (Work Plan), which includes scope, schedule, and budget controls. AVCON will then use these tools to track the schedule, monitor budgets, and document progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 1.2 **Project Kick-Off Meeting** – AVCON will prepare for and attend one (1) project kick-off meeting with the Authority and the design team to review project design goals, schedule, administrative procedures, safety requirements, and to address any questions related to the project. AVCON will provide meeting minutes and distribute to all attendees.
- 1.3 **Data Collection and Review** – AVCON will collect, review, compile, and summarize all existing data pertaining to the project. The Authority will provide AVCON will all available documentation, such as as-builts, survey data, record drawings, permits, reports, and test results. The information will be reviewed, and design assumptions will be validated. Any potential deviations from the scope of work will immediately be brought to the Authority's attention.
- 1.4 **Preliminary Site Visit / Visual Inspection** – AVCON will conduct a site investigation and visual inspection of the runway and taxiway pavement, airfield electrical systems, NAVAID systems, and surrounding environment to validate existing as-built/record drawing information and to better understand the physical site conditions and constraints. Any potential deviations from the scope will immediately be brought to the Authority's attention. A technical memo will be provided summarizing the results of the preliminary site visit and visual inspection.
- 1.5 **Conduct Site Investigations** – AVCON will coordinate with the specialty team members, which include the Geotechnical Engineer and Culvert Inspection team. Efforts will include developing subcontract agreements, coordinating technical requirements and project goals, and location diagrams. AVCON will also coordinate with the Airport on access and potential operational impacts associated with the site investigations.

Topographical survey is being conducted earlier under a separate Work Order.

1.5.1 Geotechnical Investigation - AVCON's Teammate, Madrid, will complete the field work and testing. Refer to the attached scope of work.

1.5.2 Box Culvert Inspection - AVCON's Teammate, Volkert (formerly Bolt Underwater), will complete the field work and development of the investigation report. Refer to the attached scope of work.

- 1.6 **Review of Site Investigation Reports/Data** – Review and incorporate data into 30% design documents
- 1.7 **Pavement Design** – Define pavement design parameters and proposed pavement design methodologies. Develop the pavement design based on existing soils and materials conditions and consideration of the loading of the design aircraft. Assess the most technically and economically appropriate alternative for the pavement rehabilitation. Coordinate the results and analysis with the Authority.
- 1.8 **Drawing Preparation** – Drawings will be prepared in an 11" x 17" PDF format only and the submittal will be made electronically to HCAA Records Management. Drawings prepared in this phase include, but are not limited to:

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- 1.9 **Construction Safety and Phasing Plan (CSPP)** – AVCON will prepare the outline CSPP. This document will be submitted to the Authority and the FAA and serve as the basis for the final CSPP. It is not anticipated that a Safety Risk Management panel will be required for this project and participating in the SRM process is not included in this scope of work.
- 1.10 **Technical Specifications** – AVCON will prepare an outline of technical specification needed for the project. Specifications will follow FAA format using unit cost where applicable.
- 1.11 **Engineer's Report** – AVCON will prepare a draft engineer's report, which will include a discussion of design criteria, standards, test results, design methodology, construction sequencing, etc. This report will include data/reports from the

various site investigations and direction and/or decisions provided by the Authority in previous meetings/discussions.

- 1.12 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail included in the submittal. The estimate will validate the current PMP budget established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 20% contingency. The estimate will include the Owner’s Allowance as necessary.
- 1.13 **Quality Control** – AVCON will develop a QA/QC Management Plan specific to this project, which will be submitted to the Authority prior to the start of design. AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.
- 1.14 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 30% design. All documents will be submitted electronically:
- Technical memo – summary of existing conditions
 - 11”x17” plans
 - Outline of technical specifications
 - 30% Engineer’s Report
 - CSPP Outline
 - 30% Engineer’s Opinion of Probable Costs
 - Quality Control Review documentation
- 1.15 **30% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority’s staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

2) Design Development (60%)

The information obtained during the Schematic Design Phase (30%) will be reviewed and refined during the Design Development Phase (60%). This phase will encompass the professional services required to furnish the Authority with a set of 60% documents, including technical specifications, 60% drawings, construction phasing and safety plans, and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance FAA standards and will

provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

- 2.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 2.2 **Drawing Preparation** – Drawings prepared under the 30% phase will be refined and expanded to the 60% level. Drawings prepared in this phase include, but are not limited to:

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Marking Plans and Details

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NAVAID Plans

NAVAID Details

Vault plans and details

- 2.3 **Technical Specifications** – AVCON will prepare 60% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant an FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text. This task will include submitting a request to the FAA for Modifications of Standards (MOS), if required.
- 2.4 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail included in the submittal. The estimate will validate the current PMP budget

established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 10% contingency. The estimate will include the Owner's Allowance as necessary.

- 2.5 **Quality Control** – AVCON will develop a QA/QC Management Plan specific to this project, which will be submitted to the Authority prior to the start of design. AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.
- 2.6 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 60% design. All documents will be submitted electronically:
- 11"x17" plans
 - Technical specifications
 - 60% Engineer's Report
 - 60% Engineer's Opinion of Probable Costs
 - Quality Control Review documentation
- 2.7 **60% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

3) **Construction Documents (90%)**

The information obtained during the Design Development Phase (60%) will be reviewed and refined during the Construction Document Phase (90%). This phase will encompass the professional services required to furnish the Authority with a set of 90% documents, including technical specifications, 90% drawings, construction phasing and safety plans, engineer's report, and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance FAA standards and will provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

- 3.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.

- 3.2 **Drawing Preparation** – Drawings prepared under the 60% phase will be refined and expanded to the 90% level. Drawings prepared in this phase include, but are not limited to:

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- 3.3 **Technical Specifications** – AVCON will prepare 90% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant an FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text. The task will include coordinating with the FAA for Modifications of Standards (MOS), if required.
- 3.4 **Engineer's Report** – AVCON will update the draft engineer's report based on direction and/or decisions provided by the Authority in previous meetings/discussions.
- 3.5 **Construction Safety and Phasing Plan (CSPP)** – AVCON will prepare the final CSPP. AVCON will coordinate the project construction phasing and sequencing plan with the Authority and affected stakeholders. This document will supplement the technical specifications and serve as a guide for the selected Contractor when preparing the Safety Plan Compliance Document (SPCD). AVCON will submit (through the Authority) the final CSPP to the FAA.

- 3.6 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail included in the submittal. The estimate will validate the current PMP budget established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 5% contingency. The estimate will include the Owner's Allowance as necessary. As part of the 90% Cost Estimating process, AVCON will provide HCAA with potential DBE construction percentages for use in the determination of DBE project goals.
- 3.7 **Quality Control** –AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.
- 3.8 **Airfield Marking QA** - AVCON's teammate, Sightline, may conduct an airfield marking plan and technical specification review. Refer to the attached scope of work from Sightline.
- 3.9 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 90% design. All documents will be submitted electronically:
- 11"x17" plans
 - Technical specifications
 - 90% Engineer's Report
 - 90% Engineer's Opinion of Probable Costs
 - Final CSPP
 - DBE Construction Percentages
 - Quality Control Review documentation
- 3.10 **90% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

4) **Bid Documents (100%)**

During this phase the final bid documents will be prepared. All comments received from the Authority and/or Permitting Agencies will be addressed to complete the bid documents.

- 4.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project.

Project management will also include direct client coordination, project status/schedule updates, and general contract management.

- 4.2 **Drawing Preparation** – Drawings prepared under the 90% phase will be refined and finalized for bidding. Drawings prepared in this phase include, but are not limited to:

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Airfield Lighting Details

NAVAID Plans

NAVAID Details

Vault plans and details

- 4.3 **Technical Specifications and Front-End Document Assistance** – AVCON will prepare the final technical specifications and assist the Authority with preparing the front-end documents and bid advertisement. This includes, but is not limited to, a project description, anticipated construction duration, index of drawings, list of technical specifications, and list of anticipated sub-contractors.
- 4.4 **Engineer's Report** – As part of the final bid documents phase, an engineer's report will be submitted to the Authority. The report will be a continuation of the report started during the Schematic Design phase and updated during the Construction Document phase.
- 4.5 **Cost Estimate Development** – AVCON will finalize the project cost estimate with all contingencies removed. The estimate will include the final Owner's Allowance.
- 4.6 **Quality Control** – AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and

in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.

- 4.7 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 90% design. All documents will be submitted electronically:
- 11"x17" plans
 - Technical specifications
 - 100% Engineer's Report
 - 100% Engineer's Opinion of Probable Costs
 - Quality Control Review documentation
- 4.8 **100% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.
- 4.9 **Issued for Bid Documents** – Final plan drawings and technical specifications will be developed to include a complete level of design for the Issued for Bid Documents. Comments received as part of the 100% Design Review Meeting will be addressed and incorporated as necessary. PDF copies of both the plan drawings (11" x 17") and technical specifications will be provided to the Authority for incorporation into the final Issued for Bid set.

5) Permitting

Coordination with the FAA for compliance with NEPA is required, whether the project is federally funded or not. This project should qualify for a Short Form CatEx pursuant to FAA Order 1050.1F.

In addition to NEPA compliance, this project will require coordination with Southwest Florida Water Management District (SWFWMD) for a modification to the existing ERP permit. This project should qualify for a minor modification. Any permitting application fees will be paid by HCAA.

AVCON will provide a supplemental scope for review and approval if more detailed environmental or stormwater permitting is required.

6) Bid and Award

- 6.1 **Pre-Bid Meeting and Site Visit** – AVCON shall assist the Authority with preparation of a presentation for use during the Pre-Bid Meeting. AVCON will also attend and participate in the pre-bid meeting at the Airport, which may include a site visit. In

accordance with Authority procedures, no formal meeting minutes will be distributed.

- 6.2 **Bidder Questions** – AVCON shall respond to questions from plan holders, via the Authority, related to the Bid Documents. Questions which require clarification or additional information will be transmitted to all plan holders formally via the addendum process.
- 6.3 **Preparation of Addenda** – AVCON shall assist the Authority with preparation of all required technical related addenda to revise plans and specifications and/or respond to questions in order to provide necessary clarification or to correct discrepancies. The Authority shall issue all addenda.
- 6.4 **Bid Tabulation and Recommendation of Award** – AVCON shall develop a tabulation of all bids received and conduct an evaluation, which will check for correctness of the bid schedule and identify the low bidder. Upon completion of the evaluation process, AVCON shall make a written recommendation of award to the Authority.
- 6.5 **Preparation of Conformed Documents** – AVCON shall incorporate all addendum information into the plans and technical specifications to prepare a conformed set of documents. PDF copies of both the plan drawings (11" x 17") and technical specifications will be provided to the Authority for incorporation into the final Conformed Documents set. Additionally, AutoCAD files for the plan drawings and Word files for the technical specifications will be provided to the Authority. In accordance with Authority procedures, the comprehensive set of Conformed Documents, including front-end specifications, will be compiled, and issued to the Contractor by the Authority.

7) Construction Administration

- 7.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the construction administration of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 7.2 **Pre-Construction Conference** – AVCON will attend and participate in a Pre-Construction Conference at the Airport, record the minutes of the conference, and distribute the minutes to the Authority's authorized representative, conference attendees, and other interested parties.
- 7.3 **Construction Site Visit and Field Report** – AVCON will conduct periodic site visits to the construction site to observe and familiarize themselves generally with the progress and quality of the work and to determine if the work is generally

proceeding in accordance with the contract documents and the contractor's construction schedule. See the Project Fee Estimate for the number of visits. To avoid misunderstandings or questions, AVCON understands and agrees that the Authority shall have the responsibility for the general management of the construction contract. AVCON will provide continuing counsel to the Authority's authorized representative throughout the construction of the Project.

- 7.4 **Weekly Construction Coordination Meetings** – AVCON shall attend weekly construction progress meetings and prepare meeting minutes. See the Project Fee Spreadsheet for the number of meetings.
- 7.5 **Shop Drawing Submittal Review and Approval** – AVCON shall review and approve or take other appropriate action upon shop drawings, samples, and other submissions furnished by the contractor and submitted to AVCON. AVCON will maintain a log of all contractor submittals which shall include the submittal date, the action taken, and the date returned.
- 7.6 **Responses to Contractor RFI's** – AVCON will provide prompt responses to all technical related requests for information (RFI's).
- 7.7 **Preparation of ESI's** – AVCON will prepare engineer's supplemental instructions (ESI's) to provide clarification or additional information with regards to elements included in the contract documents as necessary to complete the project.
- 7.8 **Preparation of CCD's and CO's** – AVCON will assist the Authority in preparing routine construction change directives and change orders as required. AVCON shall provide design clarification and recommendations to assist the Authority in resolving field problems related to the construction. AVCON shall evaluate contractor change and cost proposals and substitutions and recommend to the Authority to either approve or disapprove the contractor's proposal or substitution.
- 7.9 **Monthly Pay Application Approval** – AVCON will verify quantities of work performed and quantities of materials in place and sign-off on monthly pay applications.
- 7.10 **Substantial Completion Inspection** – AVCON will perform, together with the Authority's authorized representative, one initial inspection to determine if the project has been completed in accordance with the contract documents and if the contractor has fulfilled all its obligations. AVCON will assist the Authority in the preparation of a punch list based on the inspection.
- 7.11 **Final Completion Inspection** – AVCON will perform, together with the Authority's authorized representative, one final inspection to determine if the project has been completed in accordance with the contract documents and if the contractor

has fulfilled all its obligations for issuance of final acceptance by the Authority including completion of punch list work. Upon final acceptance of the project, AVCON will provide the Engineer’s Certification of Compliance associated with the Authority’s Public Transportation Grant Agreement (PTGA) through FDOT.

- 7.12 **Record Drawings** – AVCON will provide one set of “Record Drawings”, along with PDF and AutoCAD files, which shall become the property of the Authority. The Conformed Documents will be corrected to show significant changes made in the work during construction of the project. Such corrections shall be based upon “as-built” prints, drawings, surveys, field sketches, and other data furnished to AVCON by the Authority and/or Contractor.

E. DESIGN DELIVERABLES

The anticipated deliverables are listed below:

- ❖ Kick-off Meeting Minutes
- ❖ Schematic Design (30%) Submittal, Cost Estimate, and QC Documentation
- ❖ Schematic Design (30%) Review Meeting Minutes
- ❖ Design Development (60%) Submittal, Cost Estimate, and QC Documentation
- ❖ Design Development (60%) Review Meeting Minutes
- ❖ Construction Documents (90%) Submittal, Cost Estimate, and QC Documentation
- ❖ Construction Documents (90%) Review Meeting Minutes
- ❖ Bid Documents (100%) Submittal, Cost Estimate, and QC Documentation
- ❖ Bid Documents (100%) Review Meeting Minutes
- ❖ SWFWMD ERP application
- ❖ FAA CatEx
- ❖ Issued for Bid Documents – plans and specifications
- ❖ Initial and Final Construction Safety and Phasing Plan (CSPP)
- ❖ Bid Tabulation and Recommendation of Award
- ❖ Conformed Documents
- ❖ Pre-Construction Conference Meeting Minutes
- ❖ Construction Progress Meeting Minutes
- ❖ Record Drawings
- ❖ Engineer’s Certification of Compliance for FDOT

F. TRAVEL REQUIREMENTS

All work on the project is being done out of Tampa or Orlando. As a result, no “out of town” travel is required for this project.

G. SUSTAINABILITY

This project will be designed in accordance with the Authority's Sustainable Design Criteria Manual. Specifically, the project will incorporate, where applicable, sustainable design solutions that will be appropriately investigated and presented to the Authority for consideration during the design process.

H. PROJECT SCHEDULE

A preliminary schedule has been developed for the Taxiways A, D, E, & J Rehabilitation project. In order to meet the FAA grant application deadline, HCAA will be issuing a separate Work Order for the topographical survey efforts associated with the project. These efforts will begin, and should be completed, before the Design NTP has been issued. A summary of milestone dates is provided below.

| Milestone | Date |
|--------------------------|-------------------|
| NTP for Design | October 10, 2022 |
| 30% Submittal | November 14, 2022 |
| 60% Submittal | January 16, 2023 |
| 90% Submittal | February 20, 2023 |
| 100% Submittal | March 6, 2023 |
| Issued for Bid Documents | March 22, 2023 |
| Pre-Bid Meeting | April 12, 2023 |
| Bid Opening | May 10, 2023 |
| NTP for Construction | August 24, 2023 |
| Substantial Completion | May 20, 2024 |
| Project Closeout | July 23, 2024 |

I. PROJECT FEE

AVCON and all subconsultants will be compensated on a cost of work not-to-exceed for all Basic Services (i.e., labor) and on a time-and-materials basis with a not-to-exceed for Direct and Reimbursable Expenses (i.e., expenses).

Refer to the attached fee spreadsheets for a detailed breakdown of manhours and fees for each task.

EXHIBIT B FEE ESTIMATE

| Project Fee Proposal - AVCON, INC. - Summary Sheet | | | | | | | | | | | | | |
|--|--|---------------|--------------|--------------|--------------|-------------|---------------|--------------|----------------|---------------|--------|-------|----------------|
| Taxiways A, D, E, & J (FY 23 Project) | | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | | |
| Basic Design Services | | 30% | 60% | 90% | 100% | | Total | Bid and | Construction | Total | DBE % | % DBE | % Construction |
| Engineering & Preconstruction Services | | Schematic | Design Dev. | Const. Docs | Bid Docs | Permitting | | Award | Administration | | of Fee | Goal | Cost |
| | AVCON | \$ 114,785.60 | \$ 73,907.95 | \$ 93,993.46 | \$ 41,792.89 | \$ 6,773.74 | \$ 331,253.63 | \$ 12,909.08 | \$ 135,376.46 | \$ 479,539.17 | | | |
| | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | Design Phase Sub Total | \$ 114,785.60 | \$ 73,907.95 | \$ 93,993.46 | \$ 41,792.89 | \$ 6,773.74 | \$ 331,253.63 | \$ 12,909.08 | \$ 135,376.46 | \$ 479,539.17 | | | |
| Reimbursable Expenses | | | | | | | | | | | | | |
| | Volkert (Bolt Underwater) - Culvert Inspection | \$ 4,345.40 | \$ - | \$ - | \$ - | \$ - | \$ 4,345.40 | \$ - | \$ 2,970.41 | \$ 7,315.81 | 0.0% | | |
| DBE | Madrid | \$ 45,549.50 | \$ - | \$ - | \$ - | \$ - | \$ 45,549.50 | \$ - | \$ - | \$ 45,549.50 | 7.6% | | |
| DBE | Sightline - Pavement Marking QA | \$ - | \$ - | \$ 1,000.00 | \$ - | \$ - | \$ 1,000.00 | \$ - | \$ 23,500.00 | \$ 24,500.00 | 4.1% | | |
| DBE | TSGGeo | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 39,940.00 | \$ 39,940.00 | 6.7% | | |
| | Reimbursable Expenses Sub Total | \$ 49,894.90 | \$ - | \$ 1,000.00 | \$ - | \$ - | \$ 50,894.90 | \$ - | \$ 66,410.41 | \$ 117,305.31 | | | |
| Total Fee, Allowances, Reimbursable Expenses | | \$ 164,680.50 | \$ 73,907.95 | \$ 94,993.46 | \$ 41,792.89 | \$ 6,773.74 | \$ 382,148.53 | \$ 12,909.08 | \$ 201,786.87 | \$ 596,844.48 | 18.4% | 13.0% | |

100% Design Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | |
|--|--|-----------|-----------|-------------|-------------|-------------|-------------|-------------|------|------|-------|--------------|
| Taxiways A, D, E, & J (FY 23 Project) | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | |
| Scope/Task | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | Total | |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | | | | | |
| Task 4 - Bid Documents-100% (AVCON) | | | | | | | | | | | | |
| 4.1 | Project Management | 2 | 16 | | | | | | | | 18 | |
| 4.2 | Drawing Preparation | | 4 | 16 | 24 | 30 | | | | | 74 | |
| 4.3 | Technical Specifications and Front-End Document Assistance | | 4 | 8 | 12 | | 12 | | | | 36 | |
| 4.4 | Engineer's Report | | 2 | 12 | | | 4 | | | | 18 | |
| 4.5 | Cost Estimate Development | | 4 | 8 | 12 | | | | | | 24 | |
| 4.6 | Quality Control | 2 | 24 | 12 | | | 2 | | | | 40 | |
| 4.7 | Deliverable | | 2 | 4 | | 8 | 12 | | | | 26 | |
| 4.8 | 100% Design Review Meeting | | 4 | 4 | | | 2 | | | | 10 | |
| 4.9 | Issued for Bid Documents | | 2 | 2 | | 8 | 8 | | | | 20 | |
| Subtotal Hours | | | 4.00 | 62.00 | 66.00 | 48.00 | 46.00 | 40.00 | - | - | - | 266 |
| Rate | | | \$ 96.15 | \$ 96.15 | \$ 55.29 | \$ 32.93 | \$ 25.00 | \$ 33.65 | \$ - | \$ - | \$ - | |
| Subtotal Direct Labor | | | \$ 384.60 | \$ 5,961.30 | \$ 3,649.14 | \$ 1,580.64 | \$ 1,150.00 | \$ 1,346.00 | \$ - | \$ - | \$ - | \$ 14,071.68 |
| Subtotal Burdened Labor @ | | | | 2.97 | | | | | | | | \$ 41,792.89 |

Permitting Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | |
|--|--|--|-----------|-----------|-------------|-----------|------------|----------|------|------|------|-------------|
| Taxiways A, D, E, & J (FY 23 Project) | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | |
| Scope/Task | | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | Total |
| | | | Hours | Hours | Hours | Hours | Hours | Hours | | | | |
| Basic Design Services | | | | | | | | | | | | |
| Task 5 - Permitting (AVCON) | | | | | | | | | | | | |
| 5.1 | Documented Categorical Exclusion (CATEX) NEPA Compliance | | | 2 | 8 | | | | | | | 10 |
| 5.2 | SWFWD Permitting | | | 2 | 12 | 24 | | | | | | 38 |
| Subtotal Hours | | | - | 4.00 | 20.00 | 24.00 | - | - | - | - | - | 48 |
| Rate | | | \$ 96.15 | \$ 96.15 | \$ 55.29 | \$ 32.93 | \$ 25.00 | \$ 33.65 | \$ - | \$ - | \$ - | |
| Subtotal Direct Labor | | | \$ - | \$ 384.60 | \$ 1,105.80 | \$ 790.32 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2,280.72 |
| Subtotal Burdened Labor @ | | | | 2.97 | | | | | | | | \$ 6,773.74 |

Bidding and Award Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | | |
|--|--|--|-----------|----------|-------------|-------------|------------|-----------|-----------|------|------|------|--------------|
| Taxiways A, D, E, & J (FY 23 Project) | | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | | |
| Scope/Task | | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | | Total |
| Basic Design Services | | | Hours | Hours | Hours | Hours | Hours | Hours | | | | | |
| Task 6 - Bid and Award (AVCON) | | | | | | | | | | | | | |
| 6.1 | Pre-Bid Meeting and Site Visit | | | 4 | 4 | | | 2 | | | | | 10 |
| 6.2 | Bidder Questions | | | 2 | 6 | 12 | | 4 | | | | | 24 |
| 6.3 | Preparation of Addenda | | | 2 | 4 | 6 | 8 | 4 | | | | | 24 |
| 6.4 | Bid Tabulation and Recommendation of Award | | | 1 | 2 | | | | | | | | 3 |
| 6.5 | Preparation of Conformed Documents | | | 2 | 8 | 8 | 12 | 8 | | | | | 38 |
| | Subtotal Hours | | | - | 11.00 | 24.00 | 26.00 | 20.00 | 18.00 | - | - | - | 99 |
| | Rate | | | \$ 96.15 | \$ 96.15 | \$ 55.29 | \$ 32.93 | \$ 25.00 | \$ 33.65 | \$ - | \$ - | \$ - | |
| | Subtotal Direct Labor | | | \$ - | \$ 1,057.65 | \$ 1,326.96 | \$ 856.18 | \$ 500.00 | \$ 605.70 | \$ - | \$ - | \$ - | \$ 4,346.49 |
| | Subtotal Burdened Labor @ | | | | 2.97 | | | | | | | | \$ 12,909.08 |



April 15, 2022

Mr. Michael Coppage, P.E.
AVCON Engineers & Planners
5110 Sunforest Drive, Suite 150
Tampa, FL 33634

PROJECT: Tampa Executive Airport – Box Culvert Inspections
AVCON PROJECT NO.: 2022.283.01

SCOPE FOR DIVING SERVICES – PHASE I – INITIAL ASSESSMENT/DESIGN PHASE

Volkert Divers will perform the initial assessment inspection of the two Culverts for rehabilitation purposes:

- Visually inspect the Headwalls, Wingwalls, Deck Underside/Ceiling (entire interior), Footings and Channel. Deficiencies will be noted and photographed as appropriate, including the structure orientation and deficiency locations. A final report will be submitted signed by the Lead Certified Bridge Inspector in the format previously used for Tampa Executive Airport (Runway 5-23 & Taxiway E in 2019). Both Volkert and AVCON will determine/discuss corrective action/repairs based on findings. The inspection will be in accordance with FDOT guidelines.

Please refer to <https://www.fdot.gov/maintenance/inspection.shtm>, Bridge Inspection Manual.

Volkert will also perform all pre-dive procedures, including performing operational checks on necessary inspection equipment, safety equipment, and underwater photography equipment. Unusual on-site safety hazards will be identified, and safety/emergency procedures verified.

To abide by OSHA and ADC regulations a 4 Person Crew will be used for all SCUBA diving or surface supplied diving projects.

Volkert to Provide:

- Qualified 4 Person Diving Inspection Team
- All Dive Equipment, Including Inspection and Safety Equipment
- Underwater Digital Camera
- Written report of findings

AVCON to Provide:

- Representative to coordinate activities on site
- Previous reports and plans (Provided 04/13/2022)

LUMP SUM FEE OF: \$4,345.40

SCOPE FOR DIVING SERVICES – PHASE II – FINAL ASSESSMENT OF REPAIRS

Volkert Divers will perform the following services:

- Verify repairs are in accordance with rehabilitation plans provided by Client, using the Initial Assessment Report. The initial assessment report will be revised to findings and noted as follows: REPAIRED, NO CHANGE, INCREASE, DECREASE or NEW.

LUMP SUM FEE OF: \$2,970.41



May 5, 2022 – Revised 8/25/22

Mr. Michael Coppage
AVCON
5110 Sunforest Dr
Suite 140
Tampa, FL 33634
mcoppage@avconinc.com

**Ref: FY 2023 VDF Tampa Executive Airport Geotech
Tampa, FL
Madrid Proposal No. 14157.01 – Rev2. 8/25/2022**

Dear Mr. Coppage:

Madrid Engineering Group, Inc., dba Madrid CPWG, (Madrid) has been requested to provide a revised estimate for a geotechnical exploration and evaluation for a proposed runway and multiple taxiways rehabilitation at the Tampa Executive Airport (VDF) in Tampa, Florida. The purpose of the exploration is to collect existing pavement and subsurface soil information in order to provide data and geotechnical recommendations for the proposed design and construction. A final report with a summary of the exploration including a discussion of subsurface conditions, boring profiles, laboratory test results, and geotechnical evaluation with general geotechnical recommendations will be provided.

Madrid proposes the following scope of work:

Scope of Work:

- Site reconnaissance and stake borings;
- Utility locates via Sunshine One Call (required 3 days prior to the field work);
- Mobilization to the site;
- Fifteen (15) SPT borings to a depth of 10 feet along the proposed runway and taxiways, within expected pavement widening areas – include estimate of seasonal high;
- Fifty-Six (56) AC Pavement Cores with base and subgrade depth check (cores to be filled with asphalt cold patch) within existing pavement areas;
- Fifty-Six (56) Field determinations of CBR of base and subgrade soils encountered in the pavement cores using Dual Mass (hand) CPT. These estimated CBR values will be correlated to approximate elastic modulus;

AT THE READY

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

Athletic Complex Design

Commercial Development

Construction Engineering and Inspection (CEI)

Construction Management

Environmental Services and Water Resources

Geotechnical Engineering

Landscape Architecture

Land Development

Materials Testing

Municipal Services

Parks and Recreation

Pavement Management

Planning

Power Services

Roadway Design

Stormwater Services

Sinkhole Services

Structural Engineering

Surveying and Mapping

Transportation Utilities



- Fourteen (14) test pits to a depth of approximately 2 feet bgs to collect bulk samples for California Bearing Ratio (CBR) testing;
- Daily MOT around work area (signs & 20 cones only);
- Review of reported seasonal high water table (SHWT) and soil map unit(s) from NRCS Soil Survey;
- Classification and laboratory testing (as needed) on soils from the borings will be performed;
- Provide an electronic copy of the report signed and sealed by a registered professional geotechnical engineer which will include:
 - A brief summary of NRCS soil survey including published seasonal high groundwater data
 - Summary of laboratory testing
 - Soil characterization including boring logs/profiles
 - CAD Figures
 - General geotechnical recommendations for pavements
 - General earthwork recommendations, including fill and compaction requirements
 - Discussion of any deleterious soil conditions encountered

Services Not Included in Scope of Work

- Survey of boring locations by Madrid (stakes may be left at boring locations for later survey if desired)
- Delineation of any deleterious materials encountered
- Construction Documents and Specifications
- Design/engineering services other than those described herein
- Evaluation of subsurface conditions in other areas of the site other than those described herein



TASK 1: FIELD SERVICES

| | QUANTITY | RATE | UNIT | COST |
|---|-----------------|-------------|---|---------------------|
| DRILL RIG & WATER TRUCK MOBILIZATION | 1 | \$ 650.00 | /LS | \$ 650.00 |
| CORING EQUIPMENT MOBILIZATION | 1 | \$ 500.00 | /LS | \$ 500.00 |
| MOT - SIGNS & CONES | 10 | \$ 75.00 | /DAY | \$ 750.00 |
| 4" AC PAVEMENT CORE W/ BASE AND SUBGRADE CHECK | 56 | \$ 175.00 | /EA | \$ 9,800.00 |
| DUAL MASS CPT FOR CBR ESTIMATE (BASE & SUBGRADE)+HA TO 5' | 56 | \$ 75.00 | /EA | \$ 4,200.00 |
| SPT BORINGS (0-50') (53 @ 10') | 150 | \$ 15.00 | /LF | \$ 2,250.00 |
| BOREHOLE GROUT/BACKFILL (0-50') (15 @ 10') | 150 | \$ 5.50 | /LF | \$ 825.00 |
| TEST PIT/BULK SAMPLE COLLECTION | 14 | \$ 75.00 | /EA | \$ 1,050.00 |
| SUPPORT TRUCK | 12 | \$ 125.00 | /DAY | \$ 1,500.00 |
| SAFETY/SITE ACCESS MEETING AND PROCEDURES | 12 | \$ 70.00 | /HR | \$ 840.00 |
| SITE RECON/STAKE BORINGS (FIELD TECH) | 5 | \$ 70.00 | /HR | \$ 350.00 |
| | | | Proposed Budget for Field Services | \$ 22,715.00 |

TASK 2: LABORATORY TESTING OF SOILS

| | | | | |
|---|----|-----------|---|---------------------|
| VISUAL CLASS/BORING LOGS/PHOTO LOG (LAB TECH) | 6 | \$ 65.00 | /HR | \$ 390.00 |
| CBR TESTS ON BULK SAMPLES | 14 | \$ 375.00 | /EA | \$ 5,250.00 |
| GRADATION OF CBR | 14 | \$ 75.00 | /EA | \$ 1,050.00 |
| ORGANIC CONTENT | 6 | \$ 45.00 | /EA | \$ 270.00 |
| ATTERBERG LIMITS | 4 | \$ 125.00 | /EA | \$ 500.00 |
| MINUS 200 SIEVE PERCENT | 44 | \$ 47.00 | /EA | \$ 2,068.00 |
| MOISTURE CONTENT | 44 | \$ 16.00 | /EA | \$ 704.00 |
| | | | Proposed Budget for Laboratory Testing | \$ 10,232.00 |

TASK 3: PROFESSIONAL SERVICES AND REPORT

| | | | | |
|----------|---|--------------|--|---------------------|
| LUMP SUM | 1 | \$ 12,602.50 | /LS | \$ 12,602.50 |
| | | | Proposed Budget for Professional Services | \$ 12,602.50 |

TOTAL PROPOSED BUDGET \$ 45,549.50

Madrid requests an AutoCAD drawing of the site plans including topography, if available. The proposal assumes site access with standard two-wheel drive equipment and no clearing or permits are required to complete the field work. Borings will be located and cleared for utilities prior to field activities with support and coordination from client and airport representatives. This proposal is valid for 180 days from the date estimated. Project will be billed by task (not-to-exceed the Total Proposed Budget shown above), based on the scope provided. We anticipate beginning the field work approximately 3 weeks after receiving the authorization to proceed and field services will take up to 10 days to complete. The final report summarizing our findings will be complete approximately 3 to 4 weeks following completion of the field work (CBR testing will drive schedule). No additional work shall be completed without the client's prior approval. Should any additional work be required (such as additional drilling depth or delineation of deleterious materials based on findings), it will be billed at our standard unit rates.



Please refer to Madrid project number 14157.01 on all correspondence. If this proposal meets your approval, please sign in the space provided for Authorization to Proceed or provide a Purchase/Task Order and email a copy to our office. Should you have any questions or comments, please feel free to contact us.

Madrid Engineering Group, Inc.

John E Delashaw, P.E.
Principal

AUTHORIZATION TO PROCEED

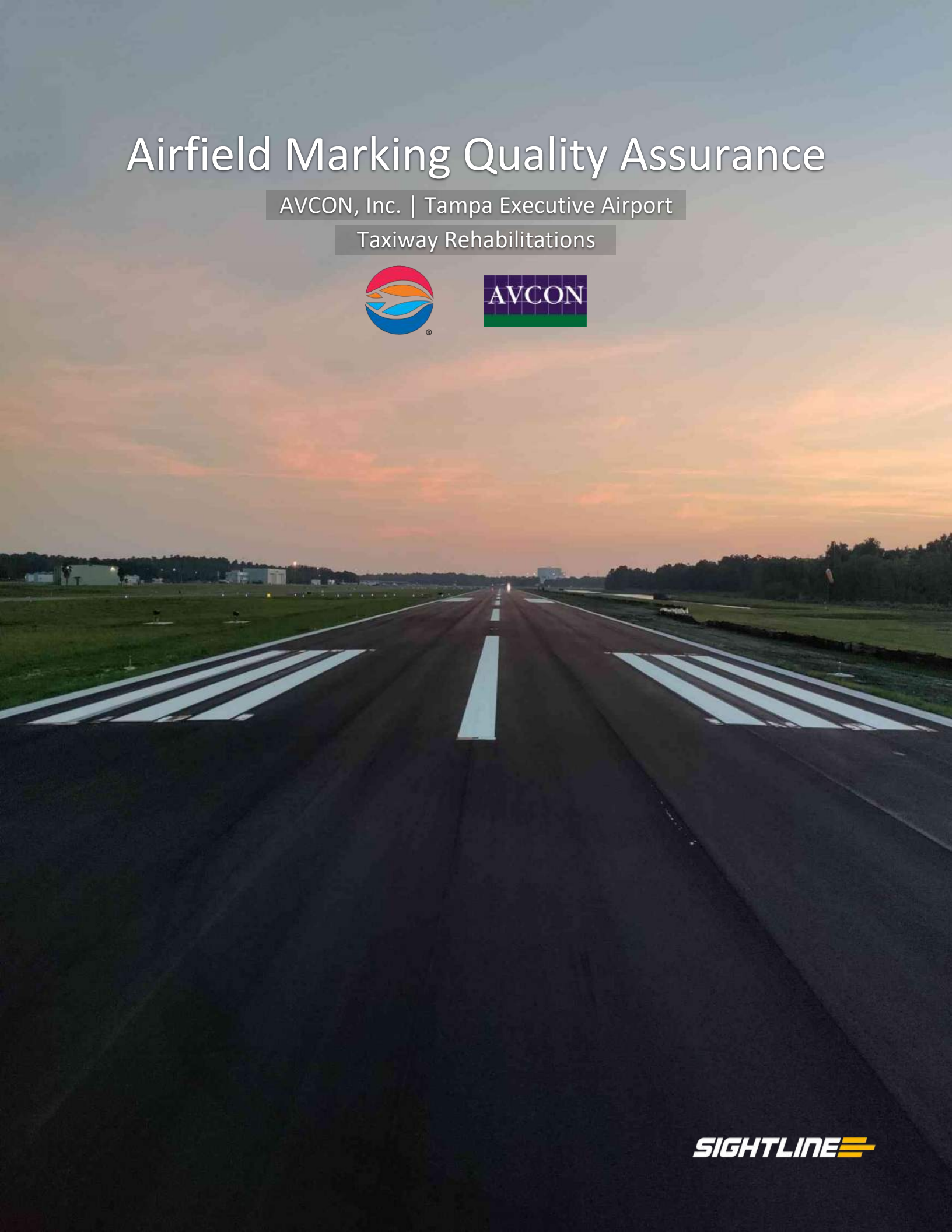
Signature

Date

Airfield Marking Quality Assurance

AVCON, Inc. | Tampa Executive Airport

Taxiway Rehabilitations



Introduction

Sightline, Inc. is a Disadvantaged Business Enterprise (DBE Certified) woman-owned consultant specializing in airfield pavement markings. We do not paint – our involvement in your projects will improve quality, safety, performance and life-cycle of the markings – adding value to your client’s project.



Scope of Work

Remote Tasks. Sightline will provide the following tasks remotely:

- 1) Review all project marking specifications and plans in the design phase.
- 2) Participate in a pre-activity meeting to discuss project requirements, specifications, and expectations of the striping contractor.

On-Site Tasks. Sightline will provide one technician to conduct on-site quality assurance for temporary and permanent applications to ensure specifications are met to include:

- 1) Verifying accurate marking layouts/placement of temporary markings.
- 2) Verifying surface is properly prepared for marking installation.
- 3) Collecting material certifications and retains.
- 4) Establishing a baseline for quality.
- 5) Continuously monitoring application quality.
- 6) Routinely quantifying/calculating material coverage rates.
- 7) Inspecting marking performance to include reflectivity analysis, in conformance with FAA AC 5370-10 and ASTM E1710.

A final summary report, including a georeferenced overlay of initial marking retro-reflectance, will be delivered within 10 days of the Technician’s departure from the project site.

Cost Proposal

Phase 1 | Taxiways A, D, E and J

Task 1.1 Project Document Review

| | |
|--------------------------------------|-----------------|
| Specification & Plan Review (Remote) | \$ 1,000 |
| Cost for QA Task 1.1 | \$ 1,000 |

Task 2.1 Temporary Striping

| | |
|---|------------------|
| Mobilization | \$ 3,500 |
| Day 1 – Verification of Layouts & Surface Preparation | \$ 2,500 |
| Day 2 – Calibration, Control Strip, Inspection | \$ 2,500 |
| Day 3 – Temporary Application Inspection | \$ 2,500 |
| Cost for QA Task 2.1 | \$ 11,000 |

Task 2.2 Permanent Application

| | |
|--|------------------|
| Mobilization | \$ 3,500 |
| Day 1 – Calibration, Control Strip, Night Inspection | \$ 2,500 |
| Day 2 – Permanent Application Inspection | \$ 2,500 |
| Day 3 – Permanent Application Inspection & Retro Testing | \$ 2,500 |
| Retro-Reflectance Testing Equipment | \$ 1,500 |
| Cost for QA Task 2.2 | \$ 12,500 |

Total Cost for Phase 1 **\$ 24,500**

Assumptions

This construction phasing for this project has yet to be determined nor has it been awarded to a prime/stripping contractor. Without knowing the number of mobilizations required or capability of the eventual marking subcontractor, we cannot know with any certainty about expected production rates (in terms of daily square footage) during this project. Therefore, we have developed this proposal under the assumptions that 1) no more than two mobilizations will be necessary to accomplish the scope of work and 2) typical production rates for yellow (15,000 sqft/day) markings will be attainable.

Requirements

The requirements are as follows:

- 1) Client shall provide a point of contact for logistic support
- 2) Client shall ultimately be responsible for the enforcement of the project's specifications as they relate to the contractor and its performance
- 3) Client shall advise the applicators of Sightline's role in the project, and shall ensure cooperation by all parties to the greatest extent possible

Qualifications

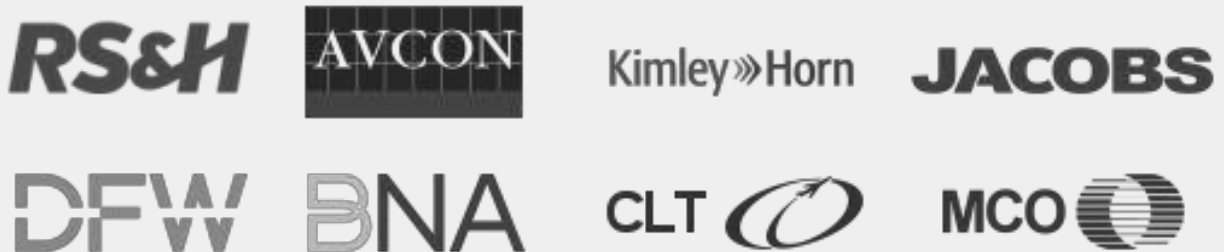
Sightline, Inc. is a specialty consultant committed to improving airfield marking performance around the world. Owned and operated by Donna J. Speidel, we are based in Culpeper, Virginia. Our experts bring over 50 years of experience to this specialized field.

At its core, we are a training organization dedicated to educating the aviation industry about the proper methodology associated with designing and maintaining highly effective airport marking systems. From our knowledge base, we have developed services, including the Airfield Marking Assessment, Quality Control, and On-Site Training, to assist airports of every size realize safe, sustainable markings systems.

In 2006, we were awarded a research project to author a *Best Practices Airfield Marking Handbook* for the Innovative Pavement Research Foundation through a Cooperative Research Agreement with the Federal Aviation Administration (FAA). The manual, published in 2008, provides the industry with definitive guidance on the details of applying airfield markings properly.

The publishing of the Handbook has positioned us as the recognized authority on the subject. The Handbook is currently used as the course literature in Airfield Marking Symposiums; training courses we present around the world. We have had the honor of training the Part 139 airport safety certification inspectors at the FAA's recurrent training in 2010, and many FAA employees continue to use our experts as a resource for markings.

Our clients are airports of every size and the consulting engineers that serve them; some of them are the busiest airports in the world including ATL, LAX, DFW, DEN, CLT, JFK, SFO, BOS, etc. References to these and other organizations may be available upon request.



Acceptance of Proposal

On behalf of Client, I _____, an authorized representative of the organization, do hereby accept this proposal, including scope of work, associated fees and requirements, described herein.

Signature

Title

Date

Respectfully submitted,



Mike Speidel
Vice President
Sightline
(540) 272-3583
mike@sightline.us
www.sightline.us



2nd Revision: June 20, 2022
Revised May 5, 2022
May 3, 2022

AVCON, Inc.
5555 East Michigan Street, Suite 200
Orlando, Florida 32822
Email: mcoppage@avconinc.com
Phone: 727-902-3938

Attention: Mr. Michael Coppage, P.E., Project Manager

Re: **Proposal for Construction Materials Testing Services
Taxiways A, D, E, and J Rehabilitation
Tampa Executive Airport
Tampa, Florida
TSF Proposal No.: 2205-280**

Dear Michael:

As requested, TSFGEO is pleased to submit this proposal for providing QA Construction Material Testing for the above referenced project. Herein, we provide a general discussion of services that we understand will be required for this project, present our Schedule of Fees for such services.

PROJECT DESCRIPTION

Our proposal is based on construction documentation provided to this office, technical specifications and FAA/FDOT general provisions. We understand that the project will include embankment, subgrade, base and asphalt reconstruction/resurfacing. Backfill for electrical conduit and fixtures are also anticipated.

SCOPE OF SERVICES

The following scope of services will be required at this project:

- Density tests (using nuclear density methods) on embankment fill and backfill along with representative Proctor tests, gradation and organic content tests;
- Density tests (using nuclear density methods) on stabilized subgrade and basecourse material, along with representative LBR tests and gradation tests;

- Provide senior engineering technician to assist with asphalt plant inspections and testing during production; and,
- Issue daily reports in FAA format to Civil Designer.

QUALIFICATIONS

TSFGeo will provide experienced technical personnel to perform the necessary testing and inspection services in accordance with the project specifications. We propose to accomplish the scope of our services on a unit rate basis in accordance with the attached fee breakdown. TSFGeo's fees will be determined by the actual amount of technical time expended for this project and the amount of laboratory testing performed.

TSFGeo's laboratory and personnel fully comply with the standards of ASTM, ACI, AASHTO, AISC, AWS and FAA standards. Our laboratory maintains CMEC and FDOT certification and is staffed by experienced and certified field and laboratory personnel. In addition, we are currently providing similar services in vicinity airports and are very familiar with the general site conditions as well as the local construction practices.

ESTIMATED FEES


We proposed to accomplish the above services on a unit rate schedule basis using the attached rates for an estimated amount of **\$ 39,940.00**.

We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,
TSFGEO



Stephen Hey
Engineering Specialist



R. Morgan Dickinson, P.E.
Principal Engineer

Attachments: Fee Breakdown

**Fees Breakdown for
Construction Materials Testing Services**

I Laboratory Testing Services

| | |
|---|------------------|
| Moisture-Density (Modified Proctor Test), 7 tests @ \$100.00/each | \$ 700.00 |
| LBR Tests-subbase and base materials, 2 tests @ \$300.00/test | \$ 600.00 |
| Grain Size, 9 tests @ \$65.00/each | \$ 585.00 |
| Organic Content Tests, 9 tests @ \$35.00/each | <u>\$ 315.00</u> |

SUBTOTAL: \$ 2,200.00

II Construction Services-Soil Testing

| | |
|--|--------------------|
| Nuclear Density Tests (Minimum 5 per trip), 80 tests @ \$20.00/each | \$ 1,600.00 |
| Eng. Technician earthwork, sample pick-up, stand-by Estimate 100 hours @ \$60.00/hour | \$ 6,000.00 |
| Concrete Compressive Strength Testing (5-cylinders per set), 20 sets @ \$60.00/set | <u>\$ 1,200.00</u> |

SUBTOTAL: \$ 8,800.00

III Asphalt Plant Inspection

| | |
|--|---------------------|
| Asphalt Plant Inspection-During production, 28 days @ \$980.00/day | <u>\$ 27,440.00</u> |
|--|---------------------|

SUBTOTAL: \$ 27,440.00

VI Professional Services

| | |
|--|--------------------|
| Senior Engineer, P.E, (Review Reports, Coordination, Sign & Seal), 10 hours @ \$150.00/hour | <u>\$ 1,500.00</u> |
|--|--------------------|

SUBTOTAL: \$ 1,500.00

TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$39,940.00

General Notes:

Please note the following procedures will apply to our services:

- 1- Field work hours for inspectors are Monday thru Friday, 8:00AM to 5:00PM.
- 2- We need 24 hours' notice by contacting our office (561) 687-8536 prior to any site visit.
- 3- We can accommodate weekend inspections, if necessary, with a minimum of 48 hours' notice.
- 4- Field work beyond 8 hours/day, nighttime, and weekends (OT) will be billed at the regular rate times 1.5
- 5- Stand-by time will be billed at hourly rate listed.

AUTHORIZATION

| AUTHORIZED BY: | INVOICE TO: |
|-----------------------|--------------------|
| Firm: | Firm: |
| Name: | Name: |
| Title: | Address: |
| Date: | Phone #: |
| | Fax #: |

SCOPE OF SERVICES FOR**Professional Engineering Services For
FY 2024 Project – Runway 18-36, Taxiway Connectors A1-A6, FBO Apron &
Taxiways C & F Rehabilitation
HCAA Project Number: 7150 23****Tampa Executive Airport (VDF)****AVCON, INC.**

A. Project Description

This project is a continuation of the airfield pavement rehabilitation program that was initiated in 2020. Lessons learned from the design and construction of the Runway 5-23 Rehabilitation project will be applied to the remaining airfield pavement at Tampa Executive Airport (VDF). The remaining pavement will be designed and constructed in two bid packages (subject to available funding):

1. **FY 2023 Project:**
Taxiway A, Taxiway D, Taxiway E, Taxiway J, and part of Taxiway F
2. **FY 2024 Project:**
Runway 18-36, Taxiway Connectors A1-A6, FBO Apron, Taxiway C, and remaining portions of Taxiway F

This scope of work is focused on the **FY 2024 Project**, which corresponds to the areas of pavement that are being funded by the FDOT.

Runway 18-36 and Connector Taxiways A1-A6

Constructed in the mid-80's and last overlaid in 2003, Runway 18-36 and Connector Taxiways A1-A6 were the original runway and taxiway system for Vandenberg Airport. At 3,200' long and 75' wide, Runway 18-36 now serves as the crosswind/secondary runway at the renamed Tampa Executive Airport. With the PCI value just now hitting the threshold (65) for pavement rehabilitation, the existing pavement has held up extremely well for its age. The asphalt distresses are primarily age and environmental related. The observed asphalt pavement distresses included longitudinal and transverse cracks, and low and medium-severity weathering and raveling. These pavement distresses are causing raveling of the asphalt surface, which is creating an increased risk of FOD.

FBO Apron (Apron C)

Constructed in the late-90's (1999), The FBO Apron (Apron C) provides based aircraft tie-downs and transient parking for aircraft visiting VDF. This 47,000 SY asphalt apron is just now hitting the threshold (65) for pavement rehabilitation. The asphalt distresses are primarily

age and environmental related. The observed asphalt pavement distresses included depressions, longitudinal and transverse cracks, and low and medium-severity weathering and raveling.

Taxiways C & F

Taxiway C provides access from Runway 18-36 to the FBO apron, and Taxiway F provides access from the East hangar complex back to the FBO apron. These taxiways were constructed in the late 1990's (1998/1999) and have all exceeded their 20-year design life. Similar to the other pavement at VDF, the asphalt distresses associated with these taxiways are primarily age and environmental related.

This project will include an asphalt mill and overlay for the apron and taxiway pavement, along with upgrades to the taxiway edge lighting.

Project Team

The professional engineering services will be performed by the following team members:

- **AVCON** – Project Management, Airfield Engineering, Airfield Lighting Design, Navigational Aid Design, Structural Engineering, Cost Estimating, Scheduling, Construction Administration
- **Northwest Surveying** – Topographical Surveying (under separate work order)
- **Madrid** – Geotechnical Engineering
- **Tierra South Florida** - Construction Materials Testing
- **Sightline** – Airfield Pavement Markings Consultant

B. Project Scope, Design Assumptions, and Limits of Work

Exhibits C-1 and C-2 show the limits of work and project scope elements. During design, the project scope may have to be modified due to budget limitations. The currently anticipated FY24/25 Rehabilitation package includes:

- Pavement rehab for Runway 18-36
- Pavement rehab for Taxiway Connectors A1-A6
- Pavement rehab for FBO Apron (Apron C)
- Pavement rehab for Taxiways C and F
- Geometry modifications to Taxiway connectors and intersections
- Replacement of the taxiway edge lights and guidance signs

A more detailed description of the project scope elements and design assumptions is presented in the following sections:

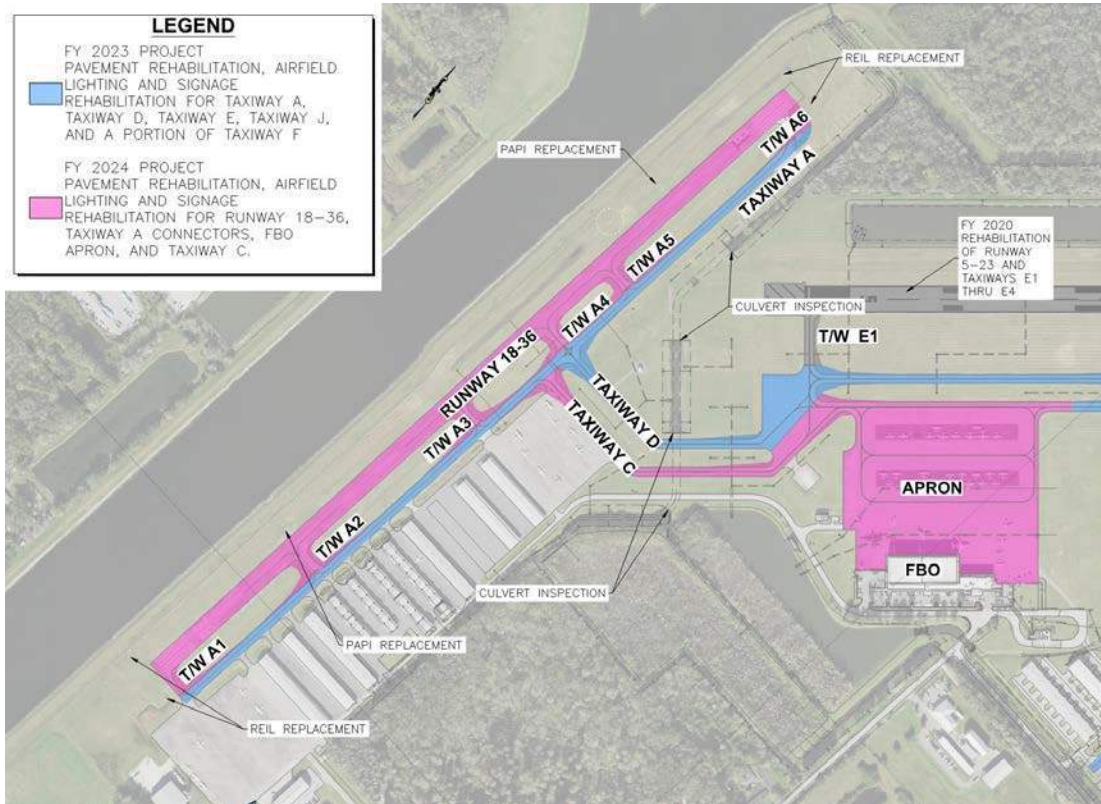


Exhibit C1

PAVEMENT EVALUATION

A preliminary visual inspection of the pavement will be conducted by AVCON prior to the survey and geotechnical investigation. Based on the findings of the inspection and investigations, the proposed rehabilitation method will be validated to determine whether it can address the pavement distresses while meeting the budget constraints.

Strengthening of the Runway 18-36, Apron and/or Taxiway pavement is not anticipated. It is expected that the rehabilitation of the Runway, Apron, and Taxiway surfaces can be milled and resurfaced. To confirm the record drawings and validate the APMS, pavement cores and borings will be taken to verify existing pavement section, evaluate causes of pavement distresses, and assess ground water conditions.

ASPHALT SURFACE REHABILITATION

It is assumed that a similar rehabilitation method as the one used on Runway 5-23 (mill and overlay) will address the pavement distresses, correct any grading deficiencies, and meet the FAA minimum requirements for asphalt surface course (3 to 4-inch of HMA P-401 (Gyratory Compaction)). The minimum milling depth and overlay thickness will be determined during the pavement evaluation effort. The design will also evaluate the existing shoulder drop off to re-establish pavement edge drainage.

A portion of the asphalt millings from the project may be kept on-site, while the remainder will be hauled off.

GEOMETRY DESIGN

Based on the fleet mix, the taxiways at VDF are classified as either Taxiway Design Group 1 or Group 2 (TDG 1 or TDG 2). Applying the criteria to the existing taxiway geometry confirms that most of the existing taxiway intersection and connector geometry does not meet the FAA's requirements. Each of the taxiway intersections and connectors will require construction of additional full-depth pavement structure outside the existing limits of pavement.

AIRFIELD LIGHTING AND SIGNAGE

Changes in the taxiway connector geometry will require adjustment of the taxiway edge lights and signage in these areas. In addition, AVCON will evaluate and adjust the edge spacing of taxiway edge lights as needed to meet the current FAA requirements.

Existing edge light cans and sign pads will be replaced. Existing manholes will be replaced with junction can plazas. The existing quartz taxiway edge lights will be replaced with light emitting diode (LED) fixtures, along with new transformers and cabling. The condition of the airfield signs supports a full replacement as well.

AVCON will recommend equipping the taxiway lighting circuits with field lightning arrestors, which have demonstrated their value on other airfield electrical systems around the State by reducing lightning strike related damage.

Proposed airfield lighting system upgrades would include:

Runway 18-36

- Evaluate and adjust (as needed) edge light spacing to meet current FAA requirements
- New LED Medium Intensity Runway Light (MIRL) system in cans and conduit system.
- New LED Runway Exit Signs to Taxiway A
- New LED Taxiway Direction Signs, Size 1

Taxiway Connectors A1 – A6

- Evaluate need for six (6) taxiway connectors. If one is determined not to be needed, remove associated lighting and signage.
- Evaluate and adjust (as needed) edge light spacing to meet current FAA requirements
- New LED Medium Intensity Taxiway Light (MITL) system cans and conduit system
- New LED Mandatory Hold Signs to Runway 18-36, Size 1
- New LED Taxiway Guidance Signs, Size 1

Taxiway C and F

- Evaluate and adjust (as needed) edge light spacing to meet current FAA requirements
- New LED Medium Intensity Taxiway Light (MITL) system cans and conduit system
- New LED Mandatory Hold Signs to Runway 18-36, Size 1
- New LED Taxiway Guidance Signs, Size 1

Electrical System

- Assess Airfield Lighting Constant Current Regulator (CCR) sizes and replace regulators to accommodate revised loads (as needed).
- New CCR's shall be Ferro-resonant due to the higher operating efficiency and lower loads applied to these regulators with the implementation of LED fixtures.
- L-823 Superkit or Complete Kit connectors shall be specified to be used for all airfield lighting cable terminations. L-823 connectors shall be installed in each cable connecting to a L-830 lighting transformer, lighting fixture, sign, etc. A L-823 connector shall only be installed where connections to devices are made.
- All associated L-824 cables shall be replaced, including the homeruns to the Airfield Lighting Vault.
- All L-824 cables shall be identified with an 18-gauge, 2" diameter stainless steel ID tag stamped with its respective circuit/loop number at all accessible locations and colored tape per Tampa criteria to identify the circuit type.
- Junction can plazas shall be used for all airfield lighting circuits. The can plaza system isolates the series circuits from collateral damage. The use of a junction can plaza, in lieu of a manhole, also mitigates the need for airport personnel to be exposed to the hazards associated with entering a confined space.

NAVAID's

Runway 18-36 is equipped with Runway End Indicator Lights (REIL) on both ends, and both Runways 18 and 36 have Precision Approach Path Indicator (PAPI) lighting systems. The existing PAPI on Runway 18 is a 4-Light unit, while the existing PAPI on Runway 36 is a 2-Light unit. The age and condition of these NAVAID's supports full replacement of the equipment as well.

Proposed NAVAID upgrades would include:

- Replacement of existing Runway 18-36 Runway End Indicator Lights (REIL) with new LED units
- Replacement of PAPI lighting systems for both Runway 18 and 36
- Relocated PAPI master control box and disconnect in accordance with EB79 siting criteria
- Coordination with the FAA (Flight Operations) on scheduling and conducting flight checks on the new NAVAID equipment.

C. SCOPE OF PROFESSIONAL SERVICES

1) Schematic Design (30%)

- 1.1 **Project Management** – Project Management will include the development of a Project Control Plan (Work Plan), which includes scope, schedule, and budget controls. AVCON will then use these tools to track the schedule, monitor budgets, and document progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 1.2 **Project Kick-Off Meeting** – AVCON will prepare for and attend one (1) project kick-off meeting with the Authority and the design team to review project design goals, schedule, administrative procedures, safety requirements, and to address any questions related to the project. AVCON will provide meeting minutes and distribute to all attendees.
- 1.3 **Data Collection and Review** – AVCON will collect, review, compile, and summarize all existing data pertaining to the project. The Authority will provide AVCON will all available documentation, such as as-builts, survey data, record drawings, permits, reports, and test results. The information will be reviewed, and design assumptions will be validated. Any potential deviations from the scope of work will immediately be brought to the Authority's attention.
- 1.4 **Preliminary Site Visit / Visual Inspection** – AVCON will conduct a site investigation and visual inspection of the apron and taxiway pavement, airfield electrical systems, and surrounding environment to validate existing as-built/record drawing information and to better understand the physical site conditions and constraints. Any potential deviations from the scope will immediately be brought to the Authority's attention. A technical memo will be provided summarizing the results of the preliminary site visit and visual inspection.
- 1.5 **Conduct Site Investigations** – AVCON will coordinate with the specialty team members (survey and geotech). Efforts will include developing subcontract agreements, coordinating technical requirements and project goals, and location diagrams. AVCON will also coordinate with the Airport on access and potential operational impacts associated with the site investigations.
 - 1.5.1 **Geotechnical Investigation** - AVCON's Teammate, Madrid, will complete the field work and testing. Refer to the attached scope of work.
 - 1.5.2 **Topographic Survey** - AVCON's Teammate, Northwest Surveying, will complete the field work and development of base files. Refer to the attached scope of work.

- 1.6 **Review of Site Investigation Reports/Data** – Review and incorporate data into 30% design documents
- 1.7 **Pavement Design** – Define pavement design parameters and proposed pavement design methodologies. Develop the pavement design based on existing soils and materials conditions and consideration of the loading of the design aircraft. Assess the most technically and economically appropriate alternative for the pavement rehabilitation. Coordinate the results and analysis with the Authority.
- 1.8 **Drawing Preparation** – Drawings will be prepared in an 11” x 17” PDF format only and the submittal will be made electronically to HCAA Records Management. Drawings prepared in this phase include, but are not limited to:

Anticipated Project Sheets

Cover Sheet

Summary of Quantities

General Notes

Contract Layout Plan (Site Plan)

Horizontal and Vertical Control

Project Construction Haul Route and Staging Plan

Construction Safety and Phasing Notes

Construction Safety Phasing Plans

Demolition Plans

Geometry Plans

Airfield Lighting Plans

- 1.9 **Construction Safety and Phasing Plan (CSPP)** – AVCON will prepare the outline CSPP. This document will be submitted to the Authority and the FAA and serve as the basis for the final CSPP. It is not anticipated that a Safety Risk Management panel will be required for this project and participating in the SRM process is not included in this scope of work.
- 1.10 **Technical Specifications** – AVCON will prepare an outline of technical specification needed for the project. Specifications will follow FAA format using unit cost where applicable.
- 1.11 **Engineer’s Report** – AVCON will prepare a draft engineer’s report, which will include a discussion of design criteria, standards, test results, design methodology, construction sequencing, etc. This report will include data/reports from the various site investigations and direction and/or decisions provided by the Authority in previous meetings/discussions.
- 1.12 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail

included in the submittal. The estimate will validate the current PMP budget established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 20% contingency. The estimate will include the Owner's Allowance as necessary.

- 1.13 **Quality Control** – AVCON will develop a QA/QC Management Plan specific to this project, which will be submitted to the Authority prior to the start of design. AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.
- 1.14 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 30% design. All documents will be submitted electronically:
- Technical memo – existing conditions
 - 11"x17" plans
 - Outline of technical specifications
 - 30% Engineer's Report
 - CSPP Outline
 - 30% Engineer's Opinion of Probable Costs
 - Quality Control Review documentation
- 1.15 **30% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

2) **Design Development (60%)**

The information obtained during the Schematic Design Phase (30%) will be reviewed and refined during the Design Development Phase (60%). This phase will encompass the professional services required to furnish the Authority with a set of 60% documents, including technical specifications, 60% drawings, construction phasing and safety plans, and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance FAA standards and will provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

- 2.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.

- 2.2 **Drawing Preparation** – Drawings prepared under the 30% phase will be refined and expanded to the 60% level. Drawings prepared in this phase include, but are not limited to:

Anticipated Project Sheets

Cover Sheet

Summary of Quantities

General Notes

Contract Layout Plan (Site Plan)

Horizontal and Vertical Control

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Construction Safety and Phasing Notes

Construction Safety Phasing Plans

Demolition Plans

Geometry Plans

Paving Plans

Typical Sections

Grading & Drainage Plans

Marking Plans and Details

Airfield Lighting Plans

Airfield Lighting Details

Vault plans and details

- 2.3 **Technical Specifications** – AVCON will prepare 60% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant an FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text. This task will include submitting a request to the FAA for Modifications of Standards (MOS), if required.
- 2.4 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail included in the submittal. The estimate will validate the current PMP budget established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 10% contingency. The estimate will include the Owner's Allowance as necessary.
- 2.5 **Quality Control** – AVCON will develop a QA/QC Management Plan specific to this project, which will be submitted to the Authority prior to the start of design. AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.

- 2.6 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 60% design. All documents will be submitted electronically:
- 11"x17" plans
 - Technical specifications
 - 60% Engineer's Report
 - 60% Engineer's Opinion of Probable Costs
 - Quality Control Review documentation
- 2.7 **60% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

3) Construction Documents (90%)

The information obtained during the Design Development Phase (60%) will be reviewed and refined during the Construction Document Phase (90%). This phase will encompass the professional services required to furnish the Authority with a set of 90% documents, including technical specifications, 90% drawings, construction phasing and safety plans, engineer's report, and cost estimates to reflect any adjustments to the project since the previous phase. These documents will be developed and prepared in accordance FAA standards and will provide sufficient detail for the review of proposed design by the Authority and all other appropriate parties.

- 3.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 3.2 **Drawing Preparation** – Drawings prepared under the 60% phase will be refined and expanded to the 90% level. Drawings prepared in this phase include, but are not limited to:

Anticipated Project Sheets

Cover Sheet
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 General Notes
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 Horizontal and Vertical Control
 Project Construction Haul Route and Staging Plan
 Construction Safety and Phasing Notes

Construction Safety Phasing Plans
 Demolition Plans
 Geometry Plans
 Paving Plans
 Typical Sections
 Grading & Drainage Plans
 Marking Plans and Details
 Airfield Lighting Plans
 Airfield Lighting Details
 Vault plans and details

- 3.3 **Technical Specifications** – AVCON will prepare 90% technical specifications. Specifications will follow FAA format using unit cost where applicable. All technical specifications shall conform to the latest FAA Advisory Circular. Changes to the specifications that do not warrant an FAA Modification of Standards (MOS) will be identified by strike-through and bold-italic text. The task will include coordinating with the FAA for Modifications of Standards (MOS), if required.
- 3.4 **Engineer’s Report** – AVCON will update the draft engineer’s report based on direction and/or decisions provided by the Authority in previous meetings/discussions.
- 3.5 **Construction Safety and Phasing Plan (CSPP)** – AVCON will prepare the final CSPP. AVCON will coordinate the project construction phasing and sequencing plan with the Authority and affected stakeholders. This document will supplement the technical specifications and serve as a guide for the selected Contractor when preparing the Safety Plan Compliance Document (SPCD). AVCON will submit (through the Authority) the final CSPP to the FAA.
- 3.6 **Cost Estimate Development** – AVCON will determine project quantities for all items of work and develop a project construction cost estimate which will accompany the design submittal and will be commensurate with the level of detail included in the submittal. The estimate will validate the current PMP budget established by the Authority and will include contingencies as appropriate for the level of design accomplished. At this phase of design, the estimate will carry a 5% contingency. The estimate will include the Owner’s Allowance as necessary. As part of the 90% Cost Estimating process, AVCON will provide HCAA with potential DBE construction percentages for use in the determination of DBE project goals.
- 3.7 **Quality Control** – AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.

- 3.8 **Airfield Marking QA** - AVCON's teammate, Sightline, may conduct an airfield marking plan and technical specification review. Refer to the attached scope of work from Sightline.
- 3.9 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 90% design. All documents will be submitted electronically:
- 11"x17" plans
 - Technical specifications
 - 90% Engineer's Report
 - 90% Engineer's Opinion of Probable Costs
 - Final CSPP
 - DBE Construction Percentages
 - Quality Control Review documentation
- 3.10 **90% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority's staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

4) **Bid Documents (100%)**

During this phase the final bid documents will be prepared. All comments received from the Authority and/or Permitting Agencies will be addressed to complete the bid documents.

- 4.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the design of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 4.2 **Drawing Preparation** – Drawings prepared under the 90% phase will be refined and finalized for bidding. Drawings prepared in this phase include, but are not limited to:

Anticipated Project Sheets

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 Construction Safety Phasing Plans
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 Paving Plans
 Typical Sections
 Grading & Drainage Plans
 Marking Plans and Details
 Airfield Lighting Plans
 Airfield Lighting Details
 Vault plans and details

- 4.3 **Technical Specifications and Front-End Document Assistance** – AVCON will prepare the final technical specifications and assist the Authority with preparing the front-end documents and bid advertisement. This includes, but is not limited to, a project description, anticipated construction duration, index of drawings, list of technical specifications, and list of anticipated sub-contractors.
- 4.4 **Engineer’s Report** – As part of the final bid documents phase, an engineer’s report will be submitted to the Authority. The report will be a continuation of the report started during the Schematic Design phase and updated during the Construction Document phase.
- 4.5 **Cost Estimate Development** – AVCON will finalize the project cost estimate with all contingencies removed. The estimate will include the final Owner’s Allowance.
- 4.6 **Quality Control** – AVCON will conduct internal quality control reviews of all elements of the submittal in advance of the formal submittal to the Authority and in accordance with the QA/QC Management Plan. Copies of all quality control documentation, including mark-ups, will accompany the design submittal.
- 4.7 **Deliverable** – AVCON will package and deliver the following to the Authority at the completion of the 90% design. All documents will be submitted electronically:
- 11”x17” plans
 - Technical specifications
 - 100% Engineer’s Report
 - 100% Engineer’s Opinion of Probable Costs
 - Quality Control Review documentation
- 4.8 **100% Design Review Meeting** – AVCON will participate in one review meeting at the HCAA offices to review the submittal made as part of this design phase with the Authority’s staff. AVCON will be prepared to fully discuss each element of the submittal to make the necessary decisions to advance the design with the next phase of the project. AVCON will provide minutes of the meeting and will distribute to all attendees.

- 4.9 **Issued for Bid Documents** – Final plan drawings and technical specifications will be developed to include a complete level of design for the Issued for Bid Documents. Comments received as part of the 100% Design Review Meeting will be addressed and incorporated as necessary. PDF copies of both the plan drawings (11" x 17") and technical specifications will be provided to the Authority for incorporation into the final Issued for Bid set.

5) Permitting

Coordination with the FAA for compliance with NEPA is required, whether the project is federally funded or not. This project should qualify for a Short Form CatEx pursuant to FAA Order 1050.1F.

In addition to NEPA compliance, this project will require coordination with Southwest Florida Water Management District (SWFWMD) for a modification to the existing ERP permit. This project should qualify for a minor modification. Any permitting application fees will be paid by HCAA.

AVCON will provide a supplemental scope for review and approval if more detailed environmental or stormwater permitting is required.

6) Bid and Award

- 6.1 **Pre-Bid Meeting and Site Visit** – AVCON shall assist the Authority with preparation of a presentation for use during the Pre-Bid Meeting. AVCON will also attend and participate in the pre-bid meeting at the Airport, which may include a site visit. In accordance with Authority procedures, no formal meeting minutes will be distributed.
- 6.2 **Bidder Questions** – AVCON shall respond to questions from plan holders, via the Authority, related to the Bid Documents. Questions which require clarification or additional information will be transmitted to all plan holders formally via the addendum process.
- 6.3 **Preparation of Addenda** – AVCON shall assist the Authority with preparation of all required technical related addenda to revise plans and specifications and/or respond to questions in order to provide necessary clarification or to correct discrepancies. The Authority shall issue all addenda.
- 6.4 **Bid Tabulation and Recommendation of Award** – AVCON shall develop a tabulation of all bids received and conduct an evaluation, which will check for correctness of the bid schedule and identify the low bidder. Upon completion of

the evaluation process, AVCON shall make a written recommendation of award to the Authority.

- 6.5 **Preparation of Conformed Documents** – AVCON shall incorporate all addendum information into the plans and technical specifications to prepare a conformed set of documents. PDF copies of both the plan drawings (11” x 17”) and technical specifications will be provided to the Authority for incorporation into the final Conformed Documents set. Additionally, AutoCAD files for the plan drawings and Word files for the technical specifications will be provided to the Authority. In accordance with Authority procedures, the comprehensive set of Conformed Documents, including front-end specifications, will be compiled, and issued to the Contractor by the Authority.

7) Construction Administration

- 7.1 **Project Management** – Project Management will include tracking the schedule, monitoring budgets, and documenting progress during the construction administration of the project. Project management will also include direct client coordination, project status/schedule updates, and general contract management.
- 7.2 **Pre-Construction Conference** – AVCON will attend and participate in a Pre-Construction Conference at the Airport, record the minutes of the conference, and distribute the minutes to the Authority’s authorized representative, conference attendees, and other interested parties.
- 7.3 **Construction Site Visit and Field Report** – AVCON will conduct periodic site visits to the construction site to observe and familiarize themselves generally with the progress and quality of the work and to determine if the work is generally proceeding in accordance with the contract documents and the contractor’s construction schedule. See the Project Fee Estimate for the number of visits. To avoid misunderstandings or questions, AVCON understands and agrees that the Authority shall have the responsibility for the general management of the construction contract. AVCON will provide continuing counsel to the Authority’s authorized representative throughout the construction of the Project.
- 7.4 **Weekly Construction Coordination Meetings** – AVCON shall attend weekly construction progress meetings and prepare meeting minutes. See the Project Fee Spreadsheet for the number of meetings.
- 7.5 **Shop Drawing Submittal Review and Approval** – AVCON shall review and approve or take other appropriate action upon shop drawings, samples, and other submissions furnished by the contractor and submitted to AVCON. AVCON will maintain a log of all contractor submittals which shall include the submittal date, the action taken, and the date returned.

- 7.6 **Responses to Contractor RFI's** – AVCON will provide prompt responses to all technical related requests for information (RFI's).
- 7.7 **Preparation of ESI's** – AVCON will prepare engineer's supplemental instructions (ESI's) to provide clarification or additional information with regards to elements included in the contract documents as necessary to complete the project.
- 7.8 **Preparation of CCD's and CO's** – AVCON will assist the Authority in preparing routine construction change directives and change orders as required. AVCON shall provide design clarification and recommendations to assist the Authority in resolving field problems related to the construction. AVCON shall evaluate contractor change and cost proposals and substitutions and recommend to the Authority to either approve or disapprove the contractor's proposal or substitution.
- 7.9 **Monthly Pay Application Approval** – AVCON will verify quantities of work performed and quantities of materials in place and sign-off on monthly pay applications.
- 7.10 **Substantial Completion Inspection** – AVCON will perform, together with the Authority's authorized representative, one initial inspection to determine if the project has been completed in accordance with the contract documents and if the contractor has fulfilled all its obligations. AVCON will assist the Authority in the preparation of a punch list based on the inspection.
- 7.11 **Final Completion Inspection** – AVCON will perform, together with the Authority's authorized representative, one final inspection to determine if the project has been completed in accordance with the contract documents and if the contractor has fulfilled all its obligations for issuance of final acceptance by the Authority including completion of punch list work. Upon final acceptance of the project, AVCON will provide the Engineer's Certification of Compliance associated with the Authority's Public Transportation Grant Agreement (PTGA) through FDOT.
- 7.12 **Record Drawings** – AVCON will provide one set of "Record Drawings", along with PDF and AutoCAD files, which shall become the property of the Authority. The Conformed Documents will be corrected to show significant changes made in the work during construction of the project. Such corrections shall be based upon "as-built" prints, drawings, surveys, field sketches, and other data furnished to AVCON by the Authority and/or Contractor.

D. DESIGN DELIVERABLES

The anticipated deliverables are listed below:

- ❖ Kick-off Meeting Minutes
- ❖ Schematic Design (30%) Submittal, Cost Estimate, and QC Documentation
- ❖ Schematic Design (30%) Review Meeting Minutes
- ❖ Design Development (60%) Submittal, Cost Estimate, and QC Documentation
- ❖ Design Development (60%) Review Meeting Minutes
- ❖ Construction Documents (90%) Submittal, Cost Estimate, and QC Documentation
- ❖ Construction Documents (90%) Review Meeting Minutes
- ❖ Bid Documents (100%) Submittal, Cost Estimate, and QC Documentation
- ❖ Bid Documents (100%) Review Meeting Minutes
- ❖ SWFWMD ERP application
- ❖ FAA CatEx
- ❖ Issued for Bid Documents – plans and specifications
- ❖ Initial and Final Construction Safety and Phasing Plan (CSPP)
- ❖ Bid Tabulation and Recommendation of Award
- ❖ Conformed Documents
- ❖ Pre-Construction Conference Meeting Minutes
- ❖ Construction Progress Meeting Minutes
- ❖ Record Drawings
- ❖ Engineer’s Certification of Compliance for FDOT

E. TRAVEL REQUIREMENTS

All work on the project is being done out of Tampa or Orlando. As a result, no “out of town” travel is required for this project.

F. SUSTAINABILITY

This project will be designed in accordance with the Authority’s Sustainable Design Criteria Manual. Specifically, the project will incorporate, where applicable, sustainable design solutions that will be appropriately investigated and presented to the Authority for consideration during the design process.

G. PROJECT SCHEDULE

A preliminary schedule has been developed for the Runway 18-36, FBO Apron, & Taxiways C & F Rehabilitation project. This is a tentative schedule, which will be updated in the future. A summary of milestone dates is provided below.

| Milestone | Date |
|--------------------------|-------------------|
| NTP for Design | October 9, 2023 |
| 30% Submittal | December 15, 2023 |
| 60% Submittal | January 26, 2024 |
| 90% Submittal | March 1, 2024 |
| 100% Submittal | March 15, 2024 |
| Issued for Bid Documents | March 29, 2024 |
| Pre-Bid Meeting | April 17, 2024 |
| Bid Opening | May 16, 2024 |
| NTP for Construction | August 26, 2024 |
| Substantial Completion | May 16, 2025 |
| Project Closeout | July 18, 2025 |

H. PROJECT FEE

AVCON and all subconsultants will be compensated on a cost of work not-to-exceed for all Basic Services (i.e., labor) and on a time-and-materials basis with a not-to-exceed for Direct and Reimbursable Expenses (i.e., expenses).

Refer to the attached fee spreadsheets for a detailed breakdown of manhours and fees for each task.

EXHIBIT B FEE ESTIMATE

| Project Fee Proposal - AVCON, INC. - Summary Sheet | | | | | | | | | | | | | |
|---|---------------------------------|--------------|---------------|---------------|--------------|--------------|---------------|--------------|----------------|---------------|--------|-------|----------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | | |
| Basic Design Services | | 30% | 60% | 90% | 100% | | Total | Bid and | Construction | Total | DBE % | % DBE | % Construction |
| Engineering & Preconstruction Services | | Schematic | Design Dev. | Const. Docs | Bid Docs | Permitting | | Award | Administration | | of Fee | Goal | Cost |
| | AVCON | \$103,663.60 | \$ 108,696.95 | \$ 106,688.58 | \$ 62,987.52 | \$ 11,118.61 | \$ 393,155.26 | \$ 14,005.36 | \$ 173,953.97 | \$ 581,114.60 | | | |
| | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | Design Phase Sub Total | \$103,663.60 | \$ 108,696.95 | \$ 106,688.58 | \$ 62,987.52 | \$ 11,118.61 | \$ 393,155.26 | \$ 14,005.36 | \$ 173,953.97 | \$ 581,114.60 | | | |
| Reimbursable Expenses | | | | | | | | | | | | | |
| DBE | Madrid | \$ 32,863.00 | \$ - | \$ - | \$ - | \$ - | \$ 32,863.00 | \$ - | \$ - | \$ 32,863.00 | 4.5% | | |
| DBE | Northwest Surveying - Survey | \$ 32,770.00 | \$ - | \$ - | \$ - | \$ - | \$ 32,770.00 | \$ - | \$ - | \$ 32,770.00 | 4.5% | | |
| DBE | Sightline - Pavement Marking QA | \$ - | \$ - | \$ 1,000.00 | \$ - | \$ - | \$ 1,000.00 | \$ - | \$ 32,000.00 | \$ 33,000.00 | 4.6% | | |
| DBE | TSGGeo | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 44,920.00 | \$ 44,920.00 | 6.2% | | |
| | Reimbursable Expenses Sub Total | \$ 65,633.00 | \$ - | \$ 1,000.00 | \$ - | \$ - | \$ 66,633.00 | \$ - | \$ 76,920.00 | \$ 143,553.00 | | | |
| Total Fee, Allowances, Reimbursable Expenses | | \$169,296.60 | \$ 108,696.95 | \$ 107,688.58 | \$ 62,987.52 | \$ 11,118.61 | \$ 459,788.26 | \$ 14,005.36 | \$ 250,873.97 | \$ 724,667.60 | 19.8% | 13.0% | |

30% Design Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | |
|---|---|-----------|-----------|--------------|-------------|-------------|-------------|-------------|------|------|------|---------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | |
| Scope/Task | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | | Total |
| | | Hours | Hours | Hours | Hours | Hours | Hours | | | | | |
| Basic Design Services | | | | | | | | | | | | |
| Task 1 - Schematic Design-30% (AVCON) | | | | | | | | | | | | |
| 1.1 | Project Management | 4 | 40 | | | | 10 | | | | | 54 |
| 1.2 | Project Kick-Off Meeting | | 4 | 4 | | | 2 | | | | | 10 |
| 1.3 | Data Collection and Review | | 2 | 4 | 8 | | 2 | | | | | 16 |
| 1.4 | Preliminary Site Visit/Visual Inspection | | 8 | 16 | 16 | | | | | | | 40 |
| 1.5 | Conduct Site Investigations: | | | | | | | | | | | |
| 1.5.1 | Geotechnical Investigation | | 2 | 4 | 32 | 4 | | | | | | 42 |
| 1.6 | Review of Site Investigation Reports/Data | | 4 | 12 | | | | | | | | 16 |
| 1.7 | Pavement Design | | 4 | 12 | 20 | 8 | | | | | | 44 |
| 1.8 | Drawing Preparation | | 10 | 38 | 74 | 82 | | | | | | 204 |
| 1.90 | Construction Safety and Phasing Plan (CSPP) | | 6 | 16 | 20 | 16 | | | | | | 58 |
| 1.10 | Technical Specifications | | 1 | 4 | | | 8 | | | | | 13 |
| 1.11 | Engineer's Report | | 8 | 16 | 16 | | 4 | | | | | 44 |
| 1.12 | Cost Estimate Development | | 4 | 16 | 40 | | | | | | | 60 |
| 1.13 | Quality Control | 4 | 32 | | | | 4 | | | | | 40 |
| 1.14 | Deliverable | | 2 | 8 | | 8 | 16 | | | | | 34 |
| 1.15 | 30% Design Review Meeting | | 4 | 4 | | | 2 | | | | | 10 |
| | Subtotal Hours | | 8.00 | 131.00 | 154.00 | 226.00 | 118.00 | 48.00 | - | - | - | 685 |
| | Rate | | \$ 99.03 | \$ 99.03 | \$ 56.95 | \$ 33.92 | \$ 25.75 | \$ 34.66 | | | | |
| | Subtotal Direct Labor | | \$ 792.24 | \$ 12,972.93 | \$ 8,770.30 | \$ 7,665.92 | \$ 3,038.50 | \$ 1,663.68 | \$ - | \$ - | \$ - | \$ 34,903.57 |
| | Subtotal Burdened Labor @ | | | 2.97 | | | | | | | | \$ 103,663.60 |

60% Design Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | |
|---|---------------------------|-----------|--------------|-------------|-------------|-------------|-------------|------|------|------|---------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | |
| Scope/Task | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | Total |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | | | | |
| Task 2 - Design Development-60% (AVCON) | | | | | | | | | | | |
| 2.1 | Project Management | 4 | 28 | | | | 7 | | | | 39 |
| 2.2 | Drawing Preparation | | 24 | 100 | 182 | 182 | | | | | 488 |
| 2.3 | Technical Specifications | | 8 | 24 | 32 | | 24 | | | | 88 |
| 2.4 | Cost Estimate Development | | 4 | 16 | 40 | | | | | | 60 |
| 2.5 | Quality Control | 4 | 40 | 16 | | | 4 | | | | 64 |
| 2.6 | Deliverable | | 2 | 8 | | 8 | 16 | | | | 34 |
| 2.7 | 60% Design Review Meeting | | 4 | 4 | | | 2 | | | | 10 |
| Subtotal Hours | | 8.00 | 110.00 | 168.00 | 254.00 | 190.00 | 53.00 | - | - | - | 783 |
| Rate | | \$ 99.03 | \$ 99.03 | \$ 56.95 | \$ 33.92 | \$ 25.75 | \$ 34.66 | \$ - | \$ - | \$ - | |
| Subtotal Direct Labor | | \$ 792.24 | \$ 10,893.30 | \$ 9,567.60 | \$ 8,615.68 | \$ 4,892.50 | \$ 1,836.98 | \$ - | \$ - | \$ - | \$ 36,598.30 |
| Subtotal Burdened Labor @ | | | 2.97 | | | | | | | | \$ 108,696.95 |

100% Design Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | |
|---|--|--------------------|-----------------|------------------|-------------------|---------------------|----------------|------|------|------|--------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | |
| Scope/Task | | Principal Hours | Sr. PM Hours | Sr. Eng Hours | Proj Eng Hours | CAD Design Hours | Admin Hours | | | | Total |
| Basic Design Services | | | | | | | | | | | |
| Task 4 - Bid Documents-100% (AVCON) | | | | | | | | | | | |
| 4.1 | Project Management | 4 | 24 | | | | | | | | 28 |
| 4.2 | Drawing Preparation | | 12 | 42 | 46 | 48 | | | | | 148 |
| 4.3 | Technical Specifications and Front-End Document Assistance | | 8 | 20 | 12 | | 24 | | | | 64 |
| 4.4 | Engineer's Report | | 2 | 12 | | | 4 | | | | 18 |
| 4.5 | Cost Estimate Development | | 4 | 8 | 12 | | | | | | 24 |
| 4.6 | Quality Control | 2 | 24 | 12 | | | 2 | | | | 40 |
| 4.7 | Deliverable | | 2 | 4 | | 8 | 12 | | | | 26 |
| 4.8 | 100% Design Review Meeting | | 4 | 4 | | | 2 | | | | 10 |
| 4.9 | Issued for Bid Documents | | 4 | 8 | | 16 | 8 | | | | 36 |
| Subtotal Hours | | 6.00 | 84.00 | 110.00 | 70.00 | 72.00 | 52.00 | - | - | - | 394 |
| Rate | | \$ 99.03 | \$ 99.03 | \$ 56.95 | \$ 33.92 | \$ 25.75 | \$ 34.66 | \$ - | \$ - | \$ - | |
| Subtotal Direct Labor | | \$ 594.18 | \$ 8,318.52 | \$ 6,264.50 | \$ 2,374.40 | \$ 1,854.00 | \$ 1,802.32 | \$ - | \$ - | \$ - | \$ 21,207.92 |
| Subtotal Burdened Labor @ | | | 2.97 | | | | | | | | \$ 62,987.52 |

Permitting Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | |
|---|--|--|-----------|-----------|-------------|-------------|------------|----------|------|------|------|--------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | |
| Scope/Task | | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | Total |
| | | | Hours | Hours | Hours | Hours | Hours | Hours | | | | |
| Basic Design Services | | | | | | | | | | | | |
| Task 5 - Permitting (AVCON) | | | | | | | | | | | | |
| 5.1 | Documented Categorical Exclusion (CATEX) NEPA Compliance | | | 4 | 8 | | | | | | | 12 |
| 5.2 | SWFWD Permitting | | | 4 | 20 | 40 | | | | | | 64 |
| Subtotal Hours | | | - | 8.00 | 28.00 | 40.00 | - | - | - | - | - | 76 |
| Rate | | | \$ 99.03 | \$ 99.03 | \$ 56.95 | \$ 33.92 | \$ 25.75 | \$ 34.66 | \$ - | \$ - | \$ - | |
| Subtotal Direct Labor | | | \$ - | \$ 792.24 | \$ 1,594.60 | \$ 1,356.80 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 3,743.64 |
| Subtotal Burdened Labor @ | | | | 2.97 | | | | | | | | \$ 11,118.61 |

Bidding and Award Fee

| Project Fee Proposal - AVCON, INC. Team | | | | | | | | | | | | | |
|---|--|--|-----------|----------|-------------|-------------|-------------|-----------|-----------|------|------|------|--------------|
| Runway 18-36, Connector Taxiways A1-A6, FBO Apron & Taxiways C & F (FY 24 Project) | | | | | | | | | | | | | |
| HCAA Project Number 7150 23 | | | | | | | | | | | | | |
| 9/19/2022 | | | | | | | | | | | | | |
| Scope/Task | | | Principal | Sr. PM | Sr. Eng | Proj Eng | CAD Design | Admin | | | | | Total |
| Basic Design Services | | | Hours | Hours | Hours | Hours | Hours | Hours | | | | | |
| Task 6 - Bid and Award (AVCON) | | | | | | | | | | | | | |
| 6.1 | Pre-Bid Meeting and Site Visit | | | 4 | 4 | | | 2 | | | | | 10 |
| 6.2 | Bidder Questions | | | 2 | 6 | 12 | | 4 | | | | | 24 |
| 6.3 | Preparation of Addenda | | | 2 | 4 | 6 | 8 | 4 | | | | | 24 |
| 6.4 | Bid Tabulation and Recommendation of Award | | | 1 | 2 | | | | | | | | 3 |
| 6.5 | Preparation of Conformed Documents | | | 2 | 8 | 12 | 16 | 8 | | | | | 46 |
| | Subtotal Hours | | | - | 11.00 | 24.00 | 30.00 | 24.00 | 18.00 | - | - | - | 107 |
| | Rate | | | \$ 99.03 | \$ 99.03 | \$ 56.95 | \$ 33.92 | \$ 25.75 | \$ 34.66 | \$ - | \$ - | \$ - | |
| | Subtotal Direct Labor | | | \$ - | \$ 1,089.33 | \$ 1,366.80 | \$ 1,017.60 | \$ 618.00 | \$ 623.88 | \$ - | \$ - | \$ - | \$ 4,715.61 |
| | Subtotal Burdened Labor @ | | | | 2.97 | | | | | | | | \$ 14,005.36 |



May 5, 2022 – Revised 8/25/22

Mr. Michael Coppage
AVCON
5110 Sunforest Dr
Suite 140
Tampa, FL 33634
mcoppage@avconinc.com

**Ref: FY 2024 VDF Tampa Executive Airport Geotech
Tampa, FL
Madrid Proposal No. 14157.02 – Rev2. 8/25/2022**

Dear Mr. Coppage:

Madrid Engineering Group, Inc., dba Madrid CPWG, (Madrid) has been requested to provide a revised estimate for a geotechnical exploration and evaluation for a proposed runway and multiple taxiways rehabilitation at the Tampa Executive Airport (VDF) in Tampa, Florida. The purpose of the exploration is to collect existing pavement and subsurface soil information in order to provide data and geotechnical recommendations for the proposed design and construction. A final report with a summary of the exploration including a discussion of subsurface conditions, boring profiles, laboratory test results, and geotechnical evaluation with general geotechnical recommendations will be provided.

Madrid proposes the following scope of work:

Scope of Work:

- Site reconnaissance and stake borings;
- Utility locates via Sunshine One Call (required 3 days prior to the field work);
- Mobilization to the site;
- Eleven (11) SPT borings to a depth of 10 feet along the proposed runway and taxiways, within expected pavement widening areas – include estimate of seasonal high;
- Forty (40) AC Pavement Cores with base and subgrade depth check (cores to be filled with asphalt cold patch) within existing pavement areas;
- Forty (40) Field determinations of CBR of base and subgrade soils encountered in the pavement cores using Dual Mass (hand) CPT. These estimated CBR values will be correlated to approximate elastic modulus;

AT THE READY

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

Athletic Complex Design

Commercial Development

Construction Engineering and Inspection (CEI)

Construction Management

Environmental Services and Water Resources

Geotechnical Engineering

Landscape Architecture

Land Development

Materials Testing

Municipal Services

Parks and Recreation

Pavement Management

Planning

Power Services

Roadway Design

Stormwater Services

Sinkhole Services

Structural Engineering

Surveying and Mapping

Transportation Utilities



- Nine (9) test pits to a depth of approximately 2 feet bgs to collect bulk samples for California Bearing Ratio (CBR) testing;
- Review of reported seasonal high water table (SHWT) and soil map unit(s) from NRCS Soil Survey;
- Classification and laboratory testing (as needed) on soils from the borings will be performed;
- Provide an electronic copy of the report signed and sealed by a registered professional geotechnical engineer which will include:
 - A brief summary of NRCS soil survey including published seasonal high groundwater data
 - Summary of laboratory testing
 - Soil characterization including boring logs/profiles
 - CAD Figures
 - General geotechnical recommendations for pavements
 - General earthwork recommendations, including fill and compaction requirements
 - Discussion of any deleterious soil conditions encountered

Services Not Included in Scope of Work

- Survey of boring locations by Madrid (stakes may be left at boring locations for later survey if desired)
- Delineation of any deleterious materials encountered
- Construction Documents and Specifications
- Design/engineering services other than those described herein
- Evaluation of subsurface conditions in other areas of the site other than those described herein



TASK 1: FIELD SERVICES

| | QUANTITY | RATE | UNIT | COST |
|--|---|-------------|-------------|---------------------|
| DRILL RIG & WATER TRUCK MOBILIZATION | 1 | \$ 700.00 | /LS | \$ 700.00 |
| CORING EQUIPMENT MOBILIZATION | 1 | \$ 550.00 | /LS | \$ 550.00 |
| MOT - SIGNS & CONES | 8 | \$ 80.00 | /DAY | \$ 640.00 |
| 4" AC PAVEMENT CORE W/ BASE AND SUBGRADE CHECK | 40 | \$ 185.00 | /EA | \$ 7,400.00 |
| DUAL MASS CPT FOR CBR ESTIMATE (BASE & SUBGRADE) | 40 | \$ 80.00 | /EA | \$ 3,200.00 |
| SPT BORINGS (0-50') (11 @ 10') | 110 | \$ 16.00 | /LF | \$ 1,760.00 |
| BOREHOLE GROUT/BACKFILL (0-50') (11 @ 10') | 110 | \$ 6.00 | /LF | \$ 660.00 |
| TEST PIT/BULK SAMPLE COLLECTION | 9 | \$ 80.00 | /EA | \$ 720.00 |
| SUPPORT TRUCK | 8 | \$ 130.00 | /DAY | \$ 1,040.00 |
| SAFETY/SITE ACCESS MEETING AND PROCEDURES | 10 | \$ 75.00 | /HR | \$ 750.00 |
| SITE RECON/STAKE BORINGS (FIELD TECH) | 5 | \$ 75.00 | /HR | \$ 375.00 |
| | Proposed Budget for Field Services | | | \$ 17,795.00 |

TASK 2: LABORATORY TESTING OF SOILS

| | | | | |
|---|---|-----------|-----|--------------------|
| VISUAL CLASS/BORING LOGS/PHOTO LOG (LAB TECH) | 6 | \$ 70.00 | /HR | \$ 420.00 |
| CBR TESTS ON BULK SAMPLES | 9 | \$ 375.00 | /EA | \$ 3,375.00 |
| GRADATION OF CBR | 9 | \$ 75.00 | /EA | \$ 675.00 |
| ORGANIC CONTENT | 6 | \$ 45.00 | /EA | \$ 270.00 |
| ATTERBERG LIMITS | 4 | \$ 125.00 | /EA | \$ 500.00 |
| MINUS 200 SIEVE PERCENT | 26 | \$ 47.00 | /EA | \$ 1,222.00 |
| MOISTURE CONTENT | 26 | \$ 16.00 | /EA | \$ 416.00 |
| | Proposed Budget for Laboratory Testing | | | \$ 6,878.00 |

TASK 3: PROFESSIONAL SERVICES AND REPORT

| | | | | |
|----------|--|-------------|-----|--------------------|
| LUMP SUM | 1 | \$ 8,190.00 | /LS | \$ 8,190.00 |
| | Proposed Budget for Professional Services | | | \$ 8,190.00 |

TOTAL PROPOSED BUDGET \$ 32,863.00

Madrid requests an AutoCAD drawing of the site plans including topography, if available. The proposal assumes site access with standard two-wheel drive equipment and no clearing or permits are required to complete the field work. Borings will be located and cleared for utilities prior to field activities with support and coordination from client and airport representatives. This proposal is valid for 455 days from the date estimated. Project will be billed by task (not-to-exceed the Total Proposed Budget shown above), based on the scope provided. We anticipate beginning the field work within 3 weeks after receiving the authorization to proceed and field services will take up to 8 days to complete. The final report summarizing our findings will be complete approximately 3 weeks following completion of the field work. No additional work shall be completed without the client's prior approval. Should any additional work be required (such as additional drilling depth or delineation of deleterious materials based on findings), it will be billed at our standard unit rates in place at the time of the work.



Please refer to Madrid project number 14157.02 on all correspondence. If this proposal meets your approval, please sign in the space provided for Authorization to Proceed or provide a Purchase/Task Order and email a copy to our office. Should you have any questions or comments, please feel free to contact us.

Madrid Engineering Group, Inc.

John E Delashaw, P.E.
Principal

AUTHORIZATION TO PROCEED

Signature

Date



June 17, 2022

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

RE: Tampa Executive Airport; FY 24
Taxiways C & F
NSI Proposal No. 220404

REVISION NO. 2

Dear Mr. Coppage:

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

The scope of work included in this proposal is a 50' grid topographic survey of the area shown in magenta on your attached reference map.

Specifically, we will locate and map all topographic features within the survey limits, obtain elevations at all ground breaks, locate sanitary and storm structures, obtain pipes sizes, shape, type material and invert elevations of all structures where access is possible. Actual pavement elevations will be surveyed by GDB Geospatial utilizing mobile LIDAR.

The horizontal datum will be NAD 83/2011 adjustment and the vertical datum will be NAVD 88 and tied to the airport control points.

The deliverables will consist of a completed 3D TIN with 0.20 contours, an Autocad Civil 3D file and 2D signed hard copy maps, all to be delivered within 30 days of your notice to proceed date.

| | |
|---|--------------------|
| Our fee to perform the services discussed above will be a LUMP SUM of | \$22,770.00 |
| The fee for our Subconsultant, GDB Geospatial be a LUMP SUM of | <u>\$10,000.00</u> |
| Our total fee will be a LUMP SUM of | \$32,770.00 |

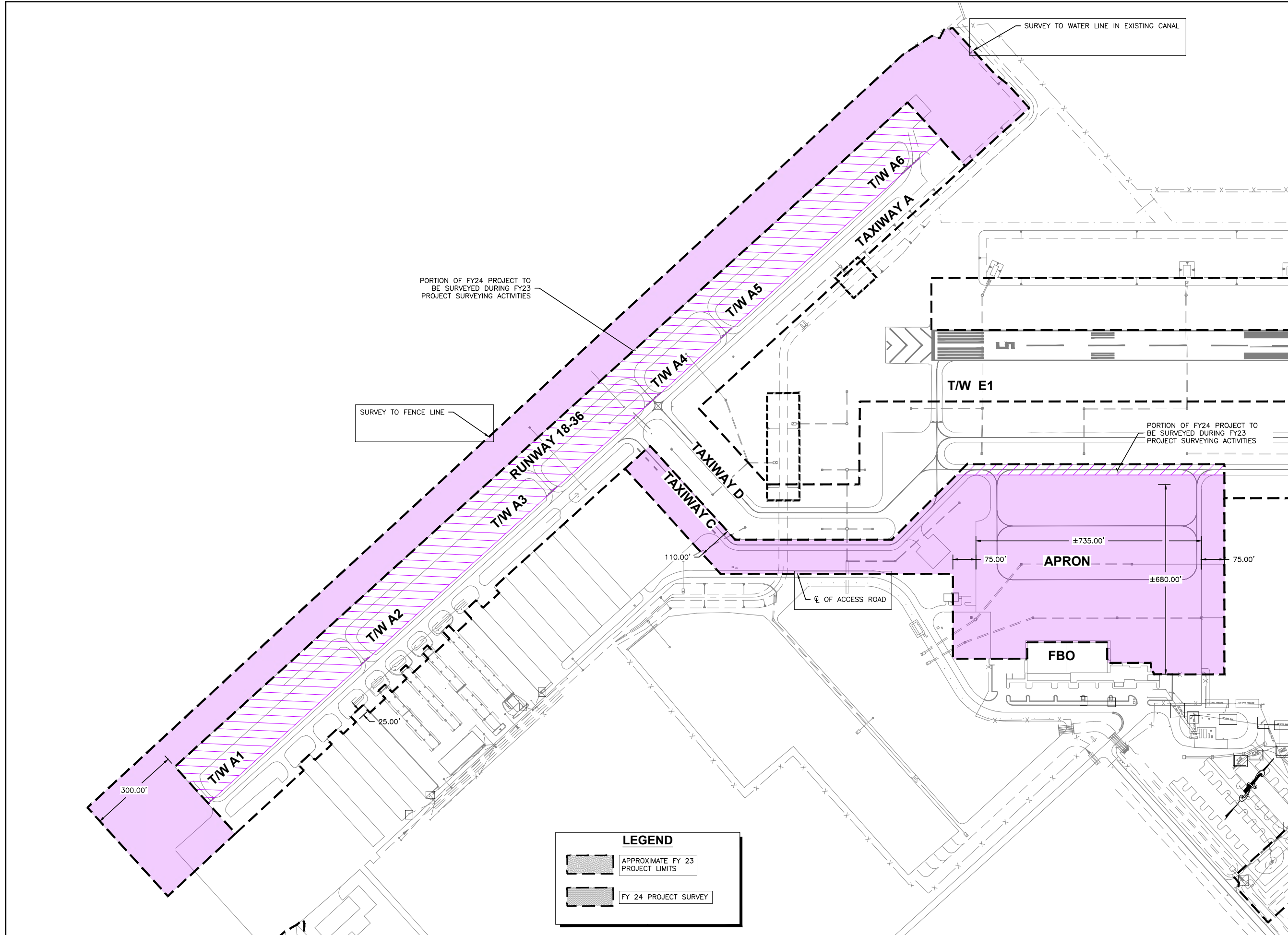
All of the work will be performed under the direct supervision of a Professional Land Surveyor and will meet or exceed the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J17.050 to 5J17.052, Florida Administrative Code, pursuant to Section 472.027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

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

Sincerely,

NORTHWEST SURVEYING, INC.

Gerald Silva, PSM
President



PORTION OF FY24 PROJECT TO BE SURVEYED DURING FY23 PROJECT SURVEYING ACTIVITIES

SURVEY TO FENCE LINE

PORTION OF FY24 PROJECT TO BE SURVEYED DURING FY23 PROJECT SURVEYING ACTIVITIES

LEGEND

- APPROXIMATE FY 23 PROJECT LIMITS
- FY 24 PROJECT SURVEY

| DATE | REVISIONS | BY |
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HILLSBOROUGH COUNTY AVIATION AUTHORITY

AVCON, INC.
ENGINEERS & PLANNERS
5110 SUNFORD DR., STE. 140, TAMPA, FLORIDA 33634
OFFICE: (813) 321-5888
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 957
www.avcon.com

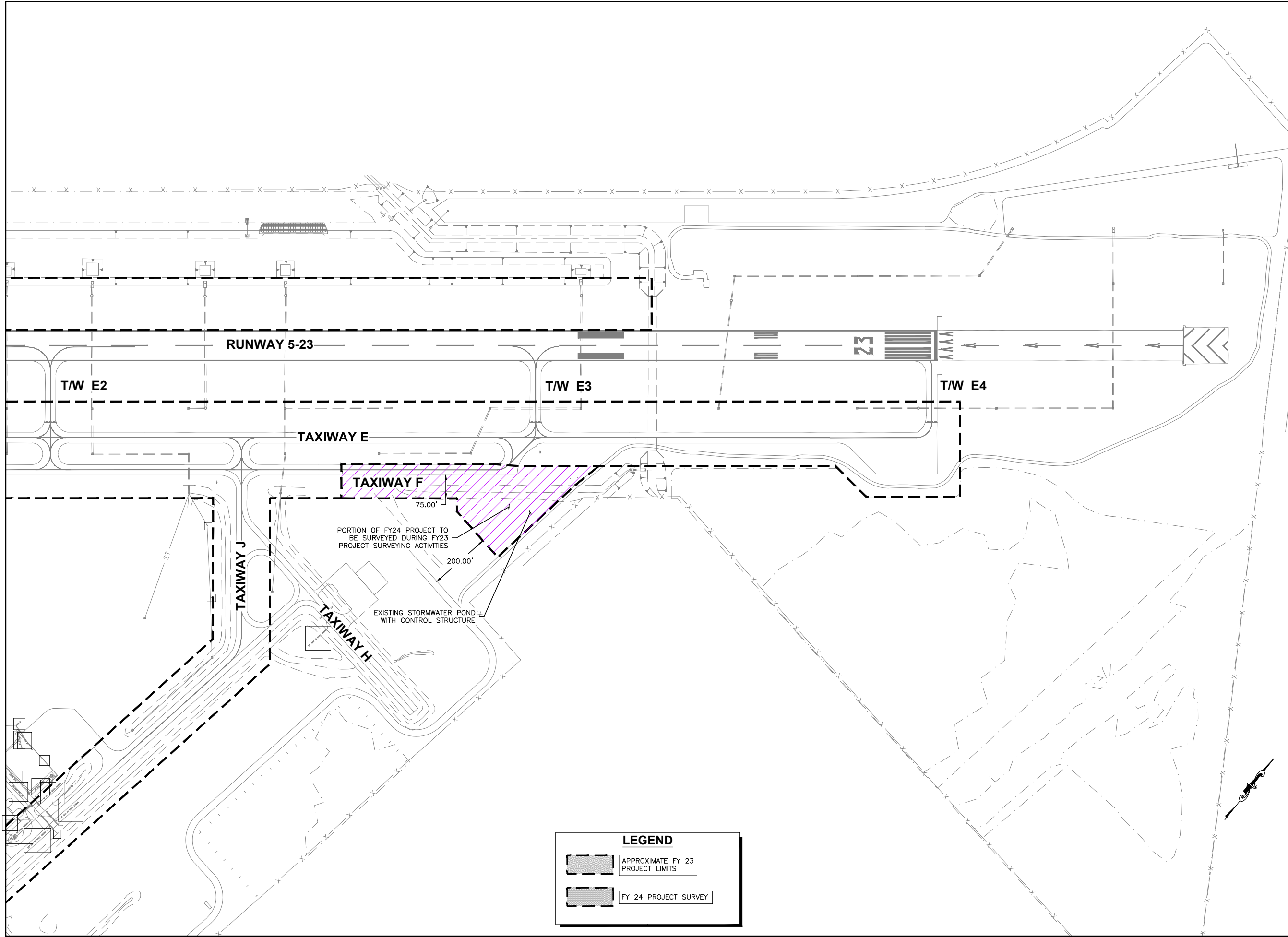


PROJECT NAME
RUNWAY 18-36 AND TAXIWAYS A, C, D, E, F, AND J REHABILITATION

SHEET TITLE
FY 2024 PROJECT SURVEY LIMITS

| | |
|-----------|--------------|
| DESIGNED: | |
| DRAWN: | |
| CHECKED: | |
| HCAA NO.: | 7150 23 |
| JOB NO.: | 2022.0283.01 |
| DATE: | JUNE 2022 |

EX. 3 OF 4



| LEGEND | |
|--------|----------------------------------|
| | APPROXIMATE FY 23 PROJECT LIMITS |
| | FY 24 PROJECT SURVEY |

| DATE | REVISIONS | BY |
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HILLSBOROUGH COUNTY AVIATION AUTHORITY

AVCON, INC.
ENGINEERS & PLANNERS
5110 SUNFOREST DR., STE. 140, TAMPA, FLORIDA 33634
OFFICE: (813) 321-5888
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5657
www.avconinc.com



PROJECT NAME
 RUNWAY 18-36 AND TAXIWAYS A, C, D, E, F, AND J REHABILITATION

SHEET TITLE
 FY 2024 PROJECT SURVEY LIMITS

| | |
|-----------|--------------|
| DESIGNED: | |
| DRAWN: | |
| CHECKED: | |
| HCAA NO.: | 7150 23 |
| JOB NO.: | 2022.0283.01 |
| DATE: | JUNE 2022 |

June 16, 2022

Mr. Gerald Silva
Northwest Surveying, Inc.
8409 Sunstate Street
Tampa, Florida 33634

***Proposal for Pavement Scanning Services associated with:
Tampa Executive Airport Runways 18-36 Taxiways A, C, D, E, F, & J Rehabilitation, Tampa, FL***

Dear Gerald,

GdB Geospatial LS, P.C. (GdB) is pleased to present the following proposal for providing Pavement Scanning Services on the Tampa Executive Airport Runways Rehabilitation project in Tampa, FL. Based on our understanding of the project as provided in a document titled Project Survey Limits on June 6, 2022, the scope of services is as follows:

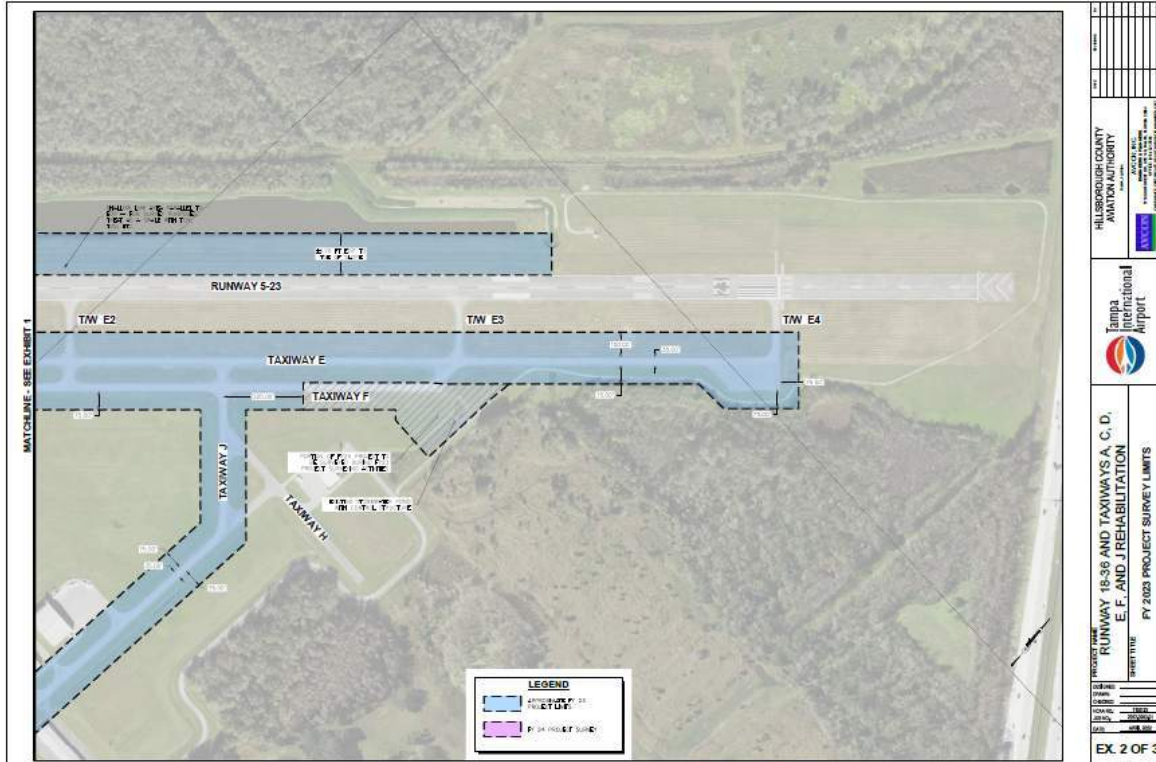
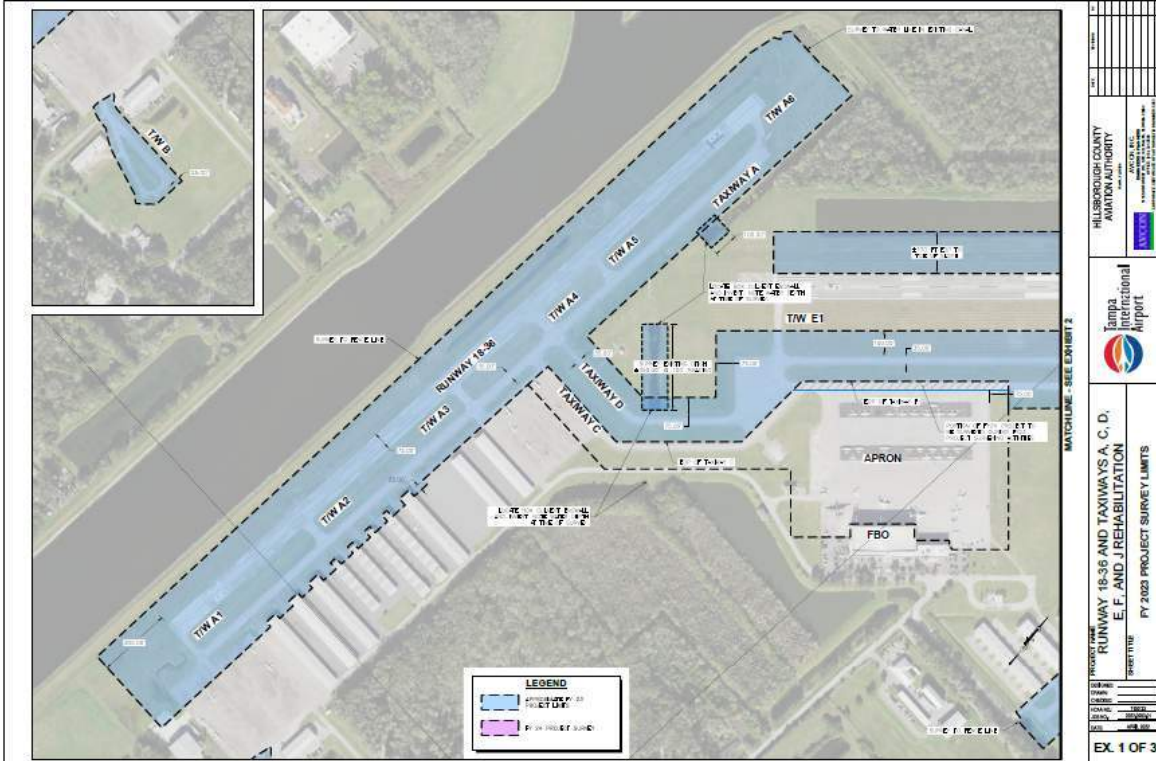
SCOPE OF SERVICES:

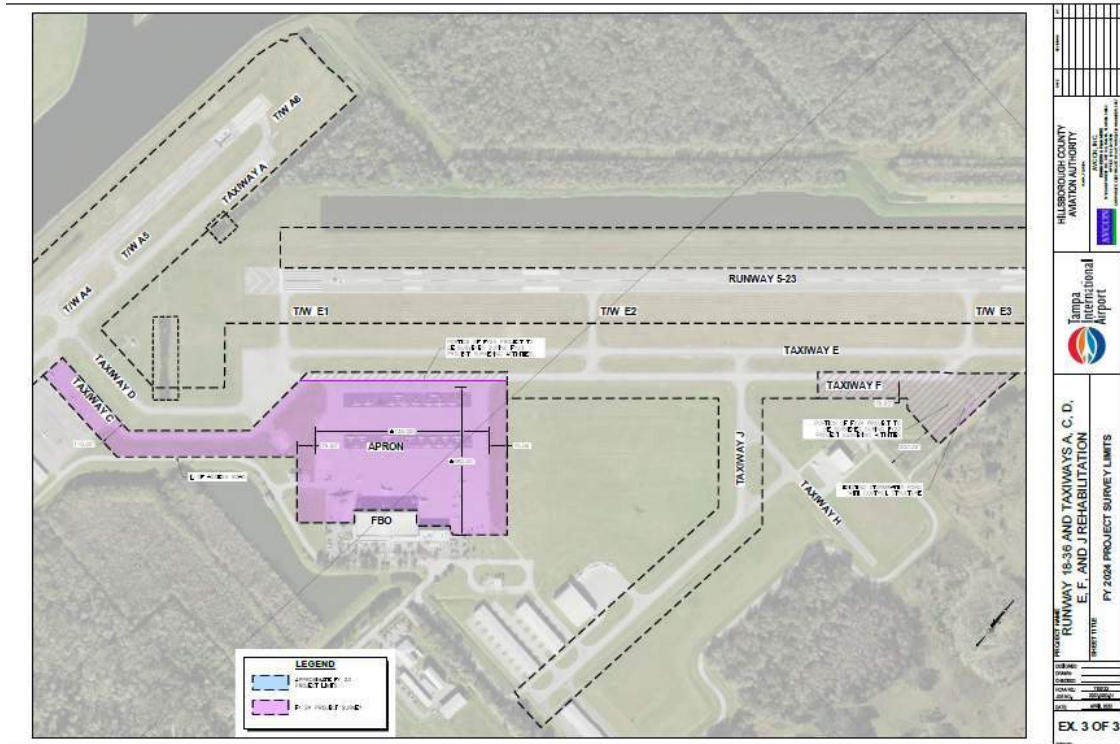
- ***Existing Conditions Pavement Scan***
 - Surveyors will utilize a Mobile 3D laser scanner to capture precise elevations and site features within the limits of pavement rehabilitation provided within Phases FY 23 & FY 24.
 - Project limits are shown below in Exhibit A. FY23 is shown in Blue. FY24 shown in Pink. Scanning will take place within the limits of the asphalt. All areas outside of the asphalt will be collected by NSI.
 - Control points with known coordinates and elevation (2) will be provided by NSI for GPS Base station use during the scanning operations.
 - Ground checks shots are to be provided by NSI. Locations to be determined onsite, between GdB and NSI.
 - Access to complete site will be provided, for duration of scan, day or night is acceptable to accommodate for plane traffic.
 - A Digital Terrain Model (DTM) will be created to provide a base surface model for engineering design purposes.
 - Ground elevations will be plotted on a grid for comparison as specified by the project mapping requirements.
 - Mapping will be provided in electronic AutoCAD v2020 and PDF format.

TECHNICAL ASSUMPTIONS:

- If requested, Total Station Verification will be based on eight hours field time, travel time, data processing, and product delivery.
- This estimate includes operational expenses such as travel time, field supplies and company vehicle mileage, overnight travel, per diem and over-time premiums. All work will be performed in one mobilization.
- This estimate includes efforts needed for airport security badging/training of field personnel.
- Area to be mobile scanned will be free of vehicles and barriers.

EXHIBIT A:





BASIS OF COMPENSATION – (LUMP SUM):

| | |
|---|---------------------|
| Existing Conditions Pavement Scan (FY23) | \$27,500 |
| Existing Conditions Pavement Scan (FY24) | \$10,000 |

SCHEDULE:

- GdB is expected to mobilize within 10 business days upon authorization to proceed. We will make every reasonable attempt to schedule the work in a manner that meets the Client’s needs.

We appreciate the opportunity to submit our proposal and are looking forward to working with you and seeing this project through to a successful conclusion. If you have any questions or need additional information, please do not hesitate to contact me at 585.484.8100 Ext 209.

Sincerely,

Justin M. Roloson, L.S.
Project Manager

By signing below, the client is agreeing to the terms set forth in this proposal and authorizing a notice to proceed with the work.
Agreed and Accepted:

Signature _____ Title _____

Printed Name _____ Date _____

Airfield Marking Quality Assurance

AVCON, Inc. | Tampa Executive Airport

Runway 18-36, FBO Apron, Taxiways C and F Rehabilitations



Introduction

Sightline, Inc. is a Disadvantaged Business Enterprise (DBE Certified) woman-owned consultant specializing in airfield pavement markings. We do not paint – our involvement in your projects will improve quality, safety, performance and life-cycle of the markings – adding value to your client’s project.



Scope of Work

Remote Tasks. Sightline will provide the following tasks remotely:

- 1) Review all project marking specifications and plans in the design phase.
- 2) Participate in a pre-activity meeting to discuss project requirements, specifications, and expectations of the striping contractor.

On-Site Tasks. Sightline will provide one technician to conduct on-site quality assurance for temporary and permanent applications to ensure specifications are met to include:

- 1) Verifying accurate marking layouts/placement of temporary markings.
- 2) Verifying surface is properly prepared for marking installation.
- 3) Collecting material certifications and retains.
- 4) Establishing a baseline for quality.
- 5) Continuously monitoring application quality.
- 6) Routinely quantifying/calculating material coverage rates.
- 7) Inspecting marking performance to include reflectivity analysis, in conformance with FAA AC 5370-10 and ASTM E1710.

A final summary report, including a georeferenced overlay of initial marking retro-reflectance, will be delivered within 10 days of the Technician’s departure from the project site.

Cost Proposal

Phase 2 | Runway 18-36, FBO Apron, Taxiways C and F

Task 1.1 Project Document Review

| | |
|--------------------------------------|-----------------|
| Specification & Plan Review (Remote) | \$ 1,000 |
| Cost for QA Task 1.1 | \$ 1,000 |

Task 2.1 Temporary Striping

| | |
|---|------------------|
| Mobilization | \$ 3,500 |
| Day 1 – Verification of Layouts & Surface Preparation | \$ 2,500 |
| Day 2 – Calibration, Control Strip, Temporary Application | \$ 2,500 |
| Day 3 – Temporary Application | \$ 2,500 |
| Day 4 – Temporary Application | \$ 2,500 |
| Day 5 – Temporary Application | \$ 2,500 |
| Cost for QA Task 2.1 | \$ 16,000 |

Task 2.2 Permanent Application

| | |
|---|------------------|
| Mobilization | \$ 3,500 |
| Day 1 – Calibration, Control Strip, Permanent Application | \$ 2,500 |
| Day 2 – Permanent Application | \$ 2,500 |
| Day 3 – Permanent Application | \$ 2,500 |
| Day 4 – Permanent Application | \$ 2,500 |
| Retro-Reflectance Testing Equipment | \$ 1,500 |
| Cost for QA Task 2.2 | \$ 15,000 |

Total Cost for Phase 2 **\$ 32,000**

Assumptions

This construction phasing for this project has yet to be determined nor has it been awarded to a prime/stripping contractor. Without knowing the number of mobilizations required or capability of the eventual marking subcontractor, we cannot know with any certainty about expected production rates (in terms of daily square footage) during this project. Therefore, we have developed this proposal under the assumptions that 1) no more than two mobilizations will be necessary to accomplish the scope of work and 2) typical production rates for white (30,000 sqft/day) and yellow (15,000 sqft/day) markings will be attainable.

Requirements

The requirements are as follows:

- 1) Client shall provide a point of contact for logistic support
- 2) Client shall ultimately be responsible for the enforcement of the project's specifications as they relate to the contractor and its performance
- 3) Client shall advise the applicators of Sightline's role in the project, and shall ensure cooperation by all parties to the greatest extent possible

Qualifications

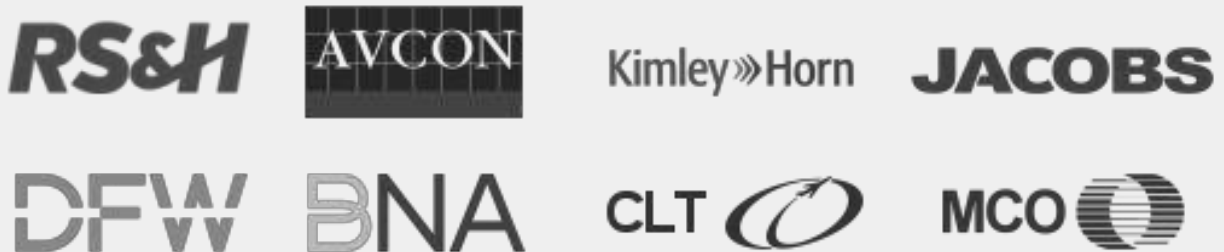
Sightline, Inc. is a specialty consultant committed to improving airfield marking performance around the world. Owned and operated by Donna J. Speidel, we are based in Culpeper, Virginia. Our experts bring over 50 years of experience to this specialized field.

At its core, we are a training organization dedicated to educating the aviation industry about the proper methodology associated with designing and maintaining highly effective airport marking systems. From our knowledge base, we have developed services, including the Airfield Marking Assessment, Quality Control, and On-Site Training, to assist airports of every size realize safe, sustainable markings systems.

In 2006, we were awarded a research project to author a *Best Practices Airfield Marking Handbook* for the Innovative Pavement Research Foundation through a Cooperative Research Agreement with the Federal Aviation Administration (FAA). The manual, published in 2008, provides the industry with definitive guidance on the details of applying airfield markings properly.

The publishing of the Handbook has positioned us as the recognized authority on the subject. The Handbook is currently used as the course literature in Airfield Marking Symposiums; training courses we present around the world. We have had the honor of training the Part 139 airport safety certification inspectors at the FAA's recurrent training in 2010, and many FAA employees continue to use our experts as a resource for markings.

Our clients are airports of every size and the consulting engineers that serve them; some of them are the busiest airports in the world including ATL, LAX, DFW, DEN, CLT, JFK, SFO, BOS, etc. References to these and other organizations may be available upon request.



Acceptance of Proposal

On behalf of Client, I _____, an authorized representative of the organization, do hereby accept this proposal, including scope of work, associated fees and requirements, described herein.

Signature

Title

Date

Respectfully submitted,



Mike Speidel
Vice President
Sightline
(540) 272-3583
mike@sightline.us
www.sightline.us



Revised June 20, 2022
May 3, 2022

AVCON, Inc.
5555 East Michigan Street, Suite 200
Orlando, Florida 32822
Email: mcoppage@avconinc.com
Phone: 727-902-3938

Attention: Mr. Michael Coppage, P.E., Project Manager

Re: **Proposal for Construction Materials Testing Services
Runway 18-36, FBO Apron, Taxiways C and F Rehabilitation
Tampa Executive Airport
Tampa, Florida
TSF Proposal No.: 2205-281**

Dear Michael:

As requested, TSFGEO is pleased to submit this proposal for providing QA Construction Material Testing for the above referenced project. Herein, we provide a general discussion of services that we understand will be required for this project, present our Schedule of Fees for such services.

PROJECT DESCRIPTION

Our proposal is based on construction documentation provided to this office, technical specifications and FAA/FDOT general provisions. We understand that the project will include embankment, subgrade, base and asphalt reconstruction/resurfacing. Backfill for electrical conduit and fixtures are also anticipated.

SCOPE OF SERVICES

The following scope of services will be required at this project:

- Density tests (using nuclear density methods) on embankment fill and backfill along with representative Proctor tests, gradation and organic content tests;
- Density tests (using nuclear density methods) on stabilized subgrade and basecourse material, along with representative LBR tests and gradation tests;
- Provide senior engineering technician to assist with asphalt plant inspections and testing during production; and,
- Issue daily reports in FAA format to Civil Designer.

QUALIFICATIONS

TSFGeo will provide experienced technical personnel to perform the necessary testing and inspection services in accordance with the project specifications. We propose to accomplish the scope of our services on a unit rate basis in accordance with the attached fee breakdown. TSFGeo's fees will be determined by the actual amount of technical time expended for this project and the amount of laboratory testing performed.

TSFGeo's laboratory and personnel fully comply with the standards of ASTM, ACI, AASHTO, AISC, AWS and FAA standards. Our laboratory maintains CMEC and FDOT certification and is staffed by experienced and certified field and laboratory personnel. In addition, we are currently providing similar services in vicinity airports and are very familiar with the general site conditions as well as the local construction practices.


ESTIMATED FEES

We proposed to accomplish the above services on a unit rate schedule basis using the attached rates for an estimated amount of **\$ 44,920.00**.

We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,
TSFGEO


S
Engineering Specialist


Principal Engineer

A
Stephen Hey
Attachments:

Fee Breakdown

R. M

**Fees Breakdown for
Construction Materials Testing Services**

I Laboratory Testing Services

| | |
|---|------------------|
| Moisture-Density (Modified Proctor Test), 6 tests @ \$100.00/each | \$ 600.00 |
| LBR Tests-subbase and base materials, 2 tests @ \$300.00/test | \$ 600.00 |
| Grain Size, 8 tests @ \$65.00/each | \$ 520.00 |
| Organic Content Tests, 8 tests @ \$35.00/each | <u>\$ 280.00</u> |

SUBTOTAL: \$ 2,000.00

II Construction Services-Soil Testing

| | |
|--|--------------------|
| Nuclear Density Tests (Minimum 5 per trip), 70 tests @ \$20.00/each | \$ 3,400.00 |
| Eng. Technician earthwork, sample pick-up, stand-by Estimate 120 hours @ \$60.00/hour | \$ 7,200.00 |
| Concrete Compressive Strength Testing (5-cylinders per set) 25 sets @ \$60.00/set | <u>\$ 1,500.00</u> |

SUBTOTAL: \$ 12,100.00

III Asphalt Plant Inspection

| | |
|--|---------------------|
| Asphalt Plant Inspection-During production, 29 days @ \$980.00/day | <u>\$ 28,420.00</u> |
|--|---------------------|

SUBTOTAL: \$ 28,420.00

VI Professional Services

| | |
|--|--------------------|
| Senior Engineer, P.E, (Review Reports, Coordination, Sign & Seal Reports), 16 hours @ \$150.00/hour | <u>\$ 2,400.00</u> |
|--|--------------------|

SUBTOTAL: \$ 2,400.00

TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$44,920.00

General Notes:

Please note the following procedures will apply to our services:

- 1- Field work hours for inspectors are Monday thru Friday, 8:00AM to 5:00PM.
- 2- We need 24 hours' notice by contacting our office (561) 687-8536 prior to any site visit.
- 3- We can accommodate weekend inspections, if necessary, with a minimum of 48 hours' notice.
- 4- Field work beyond 8 hours/day, nighttime, and weekends (OT) will be billed at the regular rate times 1.5
- 5- Stand-by time will be billed at hourly rate listed.

AUTHORIZATION

| AUTHORIZED BY: | INVOICE TO: |
|-----------------------|--------------------|
| Firm: | Firm: |
| Name: | Name: |
| Title: | Address: |
| Date: | Phone #: |
| | Fax #: |