9711-99

TASK ORDER NUMBER 44

This Task Order No. 44 is an amendment to, and made a part hereof, the Consulting Agreement for Engineering Services Related to the Rehabilitation and Reconfiguration of Taxiway "A" and "E" at the Gainesville Regional Airport, between Gainesville-Alachua County Regional Airport Authority (Owner) and AECOM Technical Services, Inc. Task Order No. 44 consists of Exhibit "A" Scope of Services, Exhibit "B" Cost Proposal, Project Exhibit, preliminary Bid Schedule Exhibit, subconsulting agreements with EDA Consultants and Cal-Tech Testing, Inc., Survey Exhibits "1" and "2" and Geotech Exhibit "1".

EXHIBIT A

A. SCOPE OF SERVICES

I. Project Description and Need:

The **CLIENT** hereby retains **AECOM** to furnish engineering and permitting services for:

- **Gainesville Regional Airport, Design and Bid/Award Phase Services and Drainage Permitting for the Taxiway A and Taxiway E Extension, Modification and Rehabilitation Work.**

The above described improvements are hereinafter called the **PROJECT**.

The design includes the following project elements (also shown graphically in the attached sketch):

- Remove existing Taxiway A pavement at Runway 7 and related airfield lighting and signage infrastructure.
- Remove pavement between Runway 7 and 11 and related airfield lighting and signage infrastructure.
- Remove Taxiway E pavement at Runway 29 end connector and adjust edge lighting.
- Remove taxiway connector pavement west of Taxiway A at Taxiway B (apron to runway direction connection) and related airfield lighting and signage infrastructure.
- Remove Taxiway D pavement and related airfield lighting and signage infrastructure.
- Remove existing hold pad at Taxiway B and Runway 25 and related airfield lighting and signage infrastructure.
- Remove existing hold pad on southwest end of Taxiway A and related airfield lighting and signage infrastructure.
- Remove existing Taxiway C pavement for realignment and related airfield lighting and signage infrastructure.
- ILS critical area grading and FAA coordination.
- Construct TDG-3 Geometry extension of Taxiway A connection to Runway 7.
  - All 5kV cable and transformers to be replaced. Replace and/or relocated existing taxiway edge light fixtures to accommodate geometry changes.
- Construct TDG-3 Geometry extension of Taxiway E connection to Runway 7.
  - All 5kV cable and transformers to be replaced on Taxiway E. Replace and/or relocate existing taxiway edge light fixtures to accommodate geometry changes.
- Realign Taxiway C between Taxiway A and Runway 7-25.
- Construct TDG 2A and 3 fillets between Taxiway A and the GA Apron area.
- Construct TDG3 fillets between Taxiway A and southernmost hangar area.
- Construct TDG 2A hold pad at south end of Taxiway A. AECOM will evaluate options for the Hold Pad geometry and maximize the aircraft capacity of the Hold Pad based on FAA criteria and setback criteria.
- Construct TDG 2A hold pad at Taxiway B. AECOM will evaluate options for the Hold Pad geometry and maximize the aircraft capacity of the Hold Pad based on FAA criteria and setback criteria
- Construct TDG 3 fillet geometry at intersection of Taxiway A & Taxiway B.
- Construct TDG 3 fillet geometry from Taxiway B to Runway 25.

- Widen Taxiway A from 40' to 50 for a distance of approximately 450'.
- Mill and overlay Taxiway E connectors inside hold bar.
- Inspect T/W A pavement section and subsoil conditions above the culvert that crosses beneath the north part of T/W A for cause of pavement distress. Perform a structural inspection of the culvert per AASHTO guidelines.
- Design scour prevention and wingwall repairs to the culvert under T/W A.
- The project plans will be segregated with 2 base bid schedules and approximately 7 additive alternate bid schedules.

The construction budget estimate for all **PROJECT** elements is $11.6M.

The **TASK** consists of engineering design services and drainage permitting with the St. Johns River Water Management District and the City of Gainesville for the **PROJECT.** The project scope includes topographical survey and geotechnical analysis of the project area. AECOM will prepare a flexible pavement design, design plans for the project elements as outlined above, a drainage system, and related work.

II. Services by Engineer

The engineering services that **AECOM** shall furnish to the **CLIENT** under this Agreement shall include those defined below.

A. Basic Services

1. Preliminary Phase

1.1. Confer with and provide general consultation and advice to the **CLIENT** with respect to project requirements, finances, schedules, and other pertinent preliminary design requirements of the **PROJECT**, including coordination with the Federal Aviation Administration (FAA), Florida Department of Transportation (FDOT), and other concerned agencies on matters affecting the **PROJECT**.

1.2. Evaluate planning and engineering considerations to assist in final project scope coordination with **CLIENT, FAA** and **FDOT**. Topics to include:

- Hold pad locations and geometry
- Taxiway A and E fillet connector geometry
- Taxiway A width
- Taxiway A and E rehabilitation methods
- Taxiway E Extension geometry
- Taxiway C Realignment

1.3. Cost estimating and project funding breakout support.

2. Design Phase

2.1 Perform engineering surveys as may be necessary for the proper design and construction of the PROJECT. A detailed description of these services is defined in the attached sub-consultant proposal.

2.2 Perform engineering testing of soils and pavement materials as may be necessary for the proper design and construction of the PROJECT. A detailed description of these services is defined in the attached sub-consultant proposal.

2.3 Provide general consultation and advice to the **CLIENT** with respect to the final design of the **PROJECT**, including meeting and design conferences to obtain information and to coordinate or resolve final design matters.

2.4 Prepare plans, specifications, contract documents and detailed construction cost estimates for award of a construction contract(s) as coordinated with, reviewed by and approved by the **CLIENT, FAA** and the **FDOT**. In providing opinions of probable construction costs, the **CLIENT** understands that the **CONSULTANT** has no control over costs or the price of labor, equipment, or materials, or over the Contractor's method of pricing, and that the opinions of probable construction costs provided herein are to be made on the basis of the **CONSULTANT'S** qualifications and experience. The **CONSULTANT** makes no warranty, expressed or implied, as the accuracy of such opinions as compared to bid or actual costs.

2.5 Prepare an Engineer's Report and a CSPP in accordance with FAA criteria and distribute to the **CLIENT**, FAA, and FDOT.

2.6 **AECOM** will furnish the **CLIENT** with pdf files and ten printed (10) sets of the submittal milestone plans and specifications for **CLIENT** review. Milestone tasks to include:

2.6.1 60% submittal including, but not limited to, 60% plans, draft construction cost estimate, draft technical specifications, and draft engineering report.

2.6.2 90% submittal including, but not limited to, updated plans, updated construction cost estimate, refined technical specifications, draft Construction Safety and Phasing Plan (CSPP), and draft engineering report.

2.6.3 100% submittal including, but not limited to, final plans, final construction cost estimate, and final technical specifications.

2.7 **AECOM** will prepare and submit **FAA** Notice of Proposed Construction or Alteration via OE/AAA online portal.

2.8 Complete the Environmental Resource Permit Modification:

2.8.1. Data Collection and Review

The ENGINEER will collect relevant data needed to design a stormwater management system which include drainage calculations from existing permits, soils information, land use maps, county comprehensive plan(s), FEMA floodplain maps, aerial photographs, USGS topographic maps, electronic topographical data, property boundary maps, legal description of the property, existing permits, and hydrologic data (rainfall and stage data).

2.8.2. Site Visits

The ENGINEER will perform detailed site reconnaissance of the project site. The senior drainage engineer involved in the hydrologic/hydraulic modeling and engineering design will inspect the project site, the contributing drainage basin to the project site and the drainage outfall(s) for the project site to accomplish the following activities:

- Confirm existing site conditions,
- Evaluate and observe existing drainage conditions,
- Evaluate the existing stormwater pond(s) within close proximity to the project site,
- Assess potential conveyance paths from the proposed project site to the proposed stormwater pond(s) and/or outfalls.
- Field verify drainage basins,
- Evaluate the runoff potential of existing land uses in the contributing drainage basin,
- Inspect ditches and existing drainage pipes,
- Field verify drainage nodes and drainage links to be modeled,
- Evaluate downstream drainage systems the project area ultimately discharges to,
- Identify existing drainage systems to be surveyed,
- Identify potential sites for stormwater treatment swales and,

- Identify locations where soil borings and percolation tests shall be performed at potential sites.

Two site visits will be required to accomplish the activities listed above.

2.8.3. Hydrologic and Hydraulic Computer Modeling

The modeling efforts will involve developing the following two hydrologic/hydraulic hydrodynamic stormwater computer models using the Interconnected Pond Routing (ICPR) Version 4 computer program by Streamline Technologies.

1. Existing Condition Model
2. Proposed Condition Model

An existing condition hydrologic/hydraulic model will be prepared for the drainage systems and basin associated with the project site. Drainage systems and basins outside of the project area will also be included in the model in order to accurately simulate the existing drainage condition.

The proposed condition model will be a modification of the existing condition model by including the changes in land use from paved surfaces associated with the new impervious surfaces, and all proposed conveyance and storage systems needed to accommodate the proposed development.

The existing and proposed condition hydrologic/hydraulic models will be evaluated for the 2.33-year, 24-hour (mean annual), 25-year, 24-hour, 100-year, 1-hour, 100-year, 2-hour, 100-year, 4-hour, 100-year, 8-hour, 100-year, 24-hour storm events (project storm events), which are design storms mandated by the SJRWMD and the City of Gainesville. The mean annual and 25-year, 24-hour storm events are required by the SJRWMD and the five 100-year storm events are required by the City of Gainesville and are identified as the 100 year critical storm events in the City of Gainesville Engineering Design and Construction Manual.

The purpose of the existing and proposed condition models is to evaluate the existing and proposed stormwater management systems, and to demonstrate the proposed stormwater management system for the proposed project meets the water quantity and water quality permitting requirements of the SJRWMD and the City of Gainesville.

The Natural Resource Conservation Service (NRCS) curve number method as outlined in the NRCS TR-55 Manual (Urban Hydrology for Small Watersheds) will be used to implement the existing and proposed condition hydrologic analysis. The NRCS method involves the development of a hydrologic computer model on measurable watershed characteristics. Watershed characteristics include soil type, moisture conditions, and land use. These characteristics are used to determine the input parameters of the model. The ENGINEER will determine these input parameters, which include rainfall amount/distribution, sub-basin drainage areas, curve numbers and time of concentrations.

2.8.4. Drainage Design

Using the information obtained during the previous tasks, a design comprised of proposed drainage structures, pipes, and swales, required to convey and store stormwater runoff from the project site. The drainage design will include treatment swales to treat storm water runoff from the proposed development. The proposed swales will be sized to treat stormwater runoff from the new taxiway pavement per criteria mandated by the SJRWMD and the City of Gainesville.

The proposed swales will be new swales located within the project area or in close proximity to the project area. The proposed swales will be designed to treat stormwater runoff from the contributing area that includes the proposed impervious surfaces for this project. Potential

sites for the swales will be considered and evaluated and will most likely be located in open grass spaces adjacent to both sides of the taxiway pavement.

Stormwater attenuation will be provided by installing ditch blocks with bleed downs weirs in existing ditches or the construction of dry detention ponds with bleed down weirs.

Dry Retention Ponds to treat and attenuate existing pavement outside the project area as compensatory treatment and attenuation for the proposed impervious areas added for this project will not be evaluated and designed in this scope of services. An amendment to the contract for additional compensation will be required to evaluate pond sites outside of the project area to treat and attenuate existing impervious areas as compensatory treatment and attenuation.

All storm sewer systems will be designed in accordance with the criteria stated in the City of Gainesville Engineering Design and Construction Manual. The storm sewer systems will be designed for the 10-year storm event where the hydraulic grade line is at least 12-inches below the grate elevations for inlets and top elevations for manholes for closed piped systems and 12 inches below the edge of pavement for open swale systems.

2.8.5. Pollutant Loading Calculations

The project area is located within the Little Hatchett Creek Watershed. Little Hatchett Creek flows through the project area and Airport property and ultimately discharges into Gum Root Swamp where the water slowly flows into Newnans Lake. Newnans Lake is an impaired water body for nitrogen and phosphorous as listed by the Florida Department of Environmental Protection (FDEP). Therefore, the SJRWMD will require a pollutant loading reduction analysis to demonstrate the project does not increase the nitrogen and phosphorous pollutant loads. The BMP Trains Version 4.3.1 Model will be utilized to determine the pre and post pollutant loads for the drainage sub-basins that contribute stormwater runoff to the proposed swales. The Swales will be designed where the post development concentrations of nitrogen and phosphorous in the stormwater runoff discharging from the swales is less than or equal to the pre-development concentration of nitrogen and phosphorous.

2.8.6. Floodplain Impacts and Mitigation

Portions of the project area are located within floodplains established by the Federal Emergency Management Agency (FEMA). The volume of floodplain volume lost from fill will be determined. An equal volume of floodplain volume will be replaced in the proposed open conveyances swales or ditches to provide floodplain mitigation. The swales designed for water quality will considered for floodplain mitigation.

2.8.7. Drainage Plan Report

A Drainage Report will be prepared incorporating the results of the previous Tasks. Included in this Task will be a location map, USGS quadrangle map, property map of the Airport, Drainage Plan Maps of the existing, and proposed drainage conditions, soil map and floodplain map. All maps are specific to the project site and are to be prepared in AutoCAD. One copy of the Drainage Design Report will be submitted to the OWNER when the permit applications are submitted to the SJRWMD and the City of Gainesville for review and comments. It is anticipated that the SJRWMD and the City of Gainesville will require two review submittals each. Therefore, The ENGINEER will address the comments and prepare one copy of the Final Report for submittal to the OWNER after all review comments have been addressed and approved by the SJRWMD and the City of Gainesville.

2.8.8. SJRWMD Environmental Resource Permit (ERP) Preparation

The ENGINEER shall prepare an ERP construction permit application for the proposed project pursuant to Chapter 40C-42, FAC, to be submitted to the SJRWMD. The ENGINEER will prepare all information associated with the stormwater portion of the ERP construction permit

application. This information includes the construction plans, drainage report with hydrologic/hydraulic model input and output, floodplain compensation calculations, water quality calculations, erosion control best management practices, permanent water quality and water quantity stormwater best management practices, stormwater conveyance systems and any other relevant information associated with drainage.

The engineer will schedule and attend a pre-application meeting with the SJRWMD to discuss the project and determine ERP requirements. The pre-application meeting will be held at the project site.

The ENGINEER shall respond to up to two (2) requests for additional information submitted by the SJRWMD. Responses may include revisions to the ERP application, drainage report, hydrologic/hydraulic models and construction plans.

Permit fees to the SJRWMD are not included in the scope of services. The OWNER is responsible for paying permit fees to the SJRWMD.

2.8.9. City of Gainesville Construction Permit Preparation

The ENGINEER shall prepare a construction permit application for the proposed project to be submitted to the City of Gainesville pursuant to the guidelines outlined in the City of Gainesville Engineering Design and Construction Manual. The permit application to the City of Gainesville will include all of the information submitted to the SJRWMD for the ERP application as described in Task 2.7.8 of this scope of services.

The engineer will schedule and attend a pre-application meeting with the City of Gainesville to discuss the project and determine ERP requirements. The pre-application meeting will be held at the project site or at the offices of City of Gainesville.

The ENGINEER shall respond to up to two (2) requests for additional information submitted by the City of Gainesville. Responses may include revisions to the permit application, drainage report, hydrologic/hydraulic models and construction plans.

Permit fees to the City of Gainesville are not included in the scope of services. The OWNER is responsible for paying permit fees to the City of Gainesville.

3. Environmental Services

AECOM will prepare a Documented Categorical Exclusion (CatEx) to satisfy the requirements of the National Environmental Policy Act of 1969 (NEPA) for the **PROJECT**. To date, NEPA documentation for this **PROJECT** have been prepared in the form of a CatEx checklist and submitted to the **FAA** as part of an Airport Improvement Program (AIP) pre-application for federal grant assistance. The Documented CatEx is offered as a contingency to address any additional NEPA requirements to be identified by the **FAA** based on their review of the pre-application for federal grant assistance. It is anticipated that the **FAA** will request the preparation of a Documented CatEx for the **PROJECT**.

3.1 Project Description

The Consultant will prepare a concise description and graphical representation of the proposed **PROJECT** to be included in the Documented CatEx. The description will identify the proposed **PROJECT** construction/development activities and indicate any impacts to environmental resources that would occur as a result of the proposed **PROJECT**. The justification for the proposed **PROJECT** will be conveyed to the **FAA** in a concise Purpose and Need narrative.

3.2 Evaluation of Environmental Categories

AECOM will evaluate, as necessary, each environmental resource category requiring analysis under Order 1050.1F and succinctly summarize the results and findings for the proposed

PROJECT. This Scope of Services does not include detailed or intensive environmental modeling or analysis to support this task. No field studies are proposed to support execution of the Documented CatEx, and it is assumed that all environmental and airport data necessary to complete the review are available via public sources, County sources, and previous planning studies performed for the airport. Based on preliminary review and the nature of the proposed **PROJECT**, it is assumed that the following categories will not require extensive analysis, and can be addressed via concise qualitative discussion only:

- Air Quality
- Climate
- Coastal Resources
- Farmlands
- FDOT Section 4(f) Resources
- Land Use
- Natural Resources and Energy Supply
- Noise and Noise Compatible Land Use
- Socioeconomics, Environmental Justice, and Children's Health and Safety Risks
- Light Emissions and Visual Effects
- Wild and Scenic Rivers

4. Culvert Inspection and Design Repair

4.1. Taxiway Culvert Inspection and Condition Evaluation Report

4.1.1. Organize a meeting with the Airport to discuss provisions for the Inspection and availability of any As-Built Plans
4.1.2. Perform a physical inspection of the Culvert and include field measurements of the overall Culvert and measurements of any deficiencies
4.1.3. Evaluate the LiDAR Survey results provided by Others
4.1.4. Develop a Condition Assessment based on field measurements, LiDAR survey results including any damage, deterioration or other potential defects that may cause a reduction in service life or design capacity
4.1.5. Perform a Preliminary Analysis to determine the structural condition of the Culvert
4.1.6. Submit a Condition Evaluation Report to the Airport in electronic PDF format that will include the following sections:
- A narrative description of the physical condition of the different components of the Culvert
- Culvert inspection field notes
- Results of the LiDAR survey describing any deformations of the inside of the Culvert
- Include photographs showing the culvert from each end, the culvert end walls and wingwalls, taxiway pavement above the culvert, and any deterioration or damage for each component of the culvert
- Provide a summary of findings including a list of maintenance and repair items
- Provide recommendations including estimate of repair costs

4.2. Bid Document Repair Plans (Optional Additional Services)

4.2.1. Develop repair plans for the recommendations in the Condition Evaluation Report
4.2.2. Develop CADD Plan drawings for the following:
- General Notes
- Quantities & Bid Item Notes
- Plan & Elevation
- Typical Section

- End Walls and Wing Walls
- Repair Details

4.2.3. Provide Bid Quantities for all repair items

4.2.4. Develop any Technical Special Provisions as needed to supplement the Airport's Standard Specifications

4.2.5. Organize meetings with the Airport at scheduled milestones tasks

4.2.6. Perform a field review prior to the submittal of the final Repair Plans to determine if any changed conditions have occurred since the original Culvert Inspection and Condition Evaluation Report were completed

4.3. Exclusions

4.3.1. Geotechnical services by others

4.3.2. Roadway/Drainage/TTCP services by others

4.3.3. Excludes Culvert Load Rating

4.3.4. Excludes Construction Phase Services

5. Bid and Award Phase

5.1. Assist the **CLIENT** with project advertising, conduct or be present at the Pre-Bid Conference, issue addenda as required to respond to questions and requests for clarification during bidding, and related bidding phase tasks.

5.2. Assist the **CLIENT** in obtaining proposals from construction contractors for the construction of the **PROJECT**, review technical qualifications of bidders, review and tabulate all proposals received by the **CLIENT** and make recommendations to the **CLIENT** for the award of construction contracts subject to the **CLIENT**'s investigation of the bidder's financial qualifications and to the concurrence of the **CLIENT**'s legal counsel.

B. Additional Services

If authorized in writing by the **CLIENT, AECOM** will furnish or obtain from specialty consultants the following services in connection with the **PROJECT**.

1. Design the replacement of the culvert under the north section of T/W A.

2. Make major revisions to completed or partially completed design plans and specifications to incorporate changes made to the scope of work after approval of said element of the project by reviewing agencies provided that these revisions are not attributable to any errors or omissions of **AECOM**.

3. Prepare construction contract change orders or supplemental agreements involving major changes or revisions of the completed construction plans, specifications or to construction operations which are not attributable to any error or omissions on the part of **AECOM**.

4. Prepare to serve as a consultant, witness or representative for the **CLIENT** in any public hearing, public information meeting or other administrative proceeding involving the **PROJECT**. Such consultation and representation in connection with litigation or other legal proceedings involving the **PROJECT** shall be covered under subsequent supplemental agreement.

5. Assist the **CLIENT** in performing any inspection of facilities constructed under this Agreement after final acceptance of the work but prior to the expiration of any contractor's warranty periods imposed in construction contract documents.

6. Furnish additional copies of final plans, specifications and contract documents beyond the ten (10) called previously for use in advertising for construction bids or other review purposes.

7. Perform services involving the preparation of rate schedules, earnings and expense statements, feasibility studies, appraisals, evaluations or other similar detailed analysis that are not normally required in the scope of the **PROJECT**.

8. Prepare drawings from field measurements or existing construction when required for planning additions or alterations thereto where they are not included in the original scope of the **PROJECT**.

9. Perform additional engineering surveys as may be necessary for the proper design and construction of the **PROJECT.**

10. Represent the **CLIENT** in the Pre-Construction Conference.

11. Provide general consultation and advice to the **CLIENT** with respect to the Construction of the **PROJECT**.

12. Perform weekly inspections (not including the services of full-time inspectors) of the **PROJECT** while construction is in progress to observe the progress, workmanship and quality of material for conformity with the plans, specifications and construction schedule and provide appropriate reports to the **CLIENT**.

13. Perform or arrange for the services of a full-time Resident Project Representative to perform observations of the performance of the work of the contractor during the construction of the **PROJECT**.

14. Review and approve, if acceptable, for compliance with the design concept of the **PROJECT** and compliance with the information given in the construction contract documents, all detailed construction shop and erection drawings and materials samples submitted by the Contractor(s).

15. Perform quality assurance testing of materials as may be necessary for the proper construction of the project. Review reports of field inspections and testing activities performed by the contractor, testing laboratory or others.

16. Prepare routine change orders or routine supplemental agreements as may become necessary during construction of the work, it being understood that change orders or supplemental agreements involving major changes or revisions to plans, specifications or construction operations will be performed in accordance with "Additional Services", described herein.

17. Review and recommend for approval, monthly and final progress payments to the contractor, change orders, supplemental agreements and time extensions.

18. Perform final inspection with representatives of the **CLIENT** and appropriate governmental agencies of the completed **PROJECT**.

19. Provide project closeout documentation and record drawings based on the observations of the engineer, the inspector, and the contractor's marked up drawings.

20. Prepare and /or verify "as-built" information provided by the construction contractor(s) by means of a survey crew.

21. Perform other than routine services when required by audit subsequent to the completion of the **PROJECT**.

22. Additional services not otherwise provided for by this Supplemental Agreement as may be determined as necessary to accomplish the **PROJECT** and authorized in writing by the **CLIENT**. Compensation for changes to the scope of the project, additional services or additional work are subject to negotiations between the **CLIENT** and **AECOM**.

III. CLIENT'S RESPONSIBILITIES

The **CLIENT's** responsibilities shall include the following:

1. Coordinate the **CLIENT's** requirement for the **PROJECT** with **AECOM**.

2. Provide copies of pertinent documents, reports, plans, specifications, photography, standard forms and other similar data available to the **CLIENT** that are required by **AECOM** for the proper performances of his services.

3. Provide information and make decisions as may be required to prosecute the work in a timely manner.

4. Perform, or authorize **AECOM** to arrange to have specialty consultants perform, all necessary test borings, sub-surface investigations, testing of soil samples and engineering surveys as may be required by **AECOM**.

5. Reimburse **AECOM** for the costs of printing contract plans, specifications and contract documents required for the securing of bids for the **PROJECT** and for the use by contractors, sub-contractors, testing laboratories and others having need for such documents, less any amount paid to **AECOM** by prospective bidders or others, for copies of these documents.

6. Advertise for and accept proposals from bidders, review **AECOM's** recommendations on the technical qualifications of the bidders and investigate the bidder's financial and legal qualifications.

7. Review insurance documents submitted by contractor(s) for conformance with the construction contract documents.

8. Authorize **AECOM** to arrange for the hiring of a full-time or part-time Resident Project Representative (RPR) to perform observation of the performance of the work of the contractor during the construction of the **PROJECT**.

9. Provide payment of permit application fees directly to the agency(ies) as necessary to complete submittal requirements to respective management and permitting agencies.

IV. DESIGNATION OF STAFF

AECOM hereby designates the following staff to this project. Any changes to staff that may be required due to staff loss or unforeseen circumstances shall only occur after consultation with and approval from GACRAA staff.

Project Principal – Steven G. Henriquez
Project Manager/Senior Engineer – William R. Prange
Senior Engineer – Kelli Piercy
Senior Drainage Engineer – Russ Pratt

B. PROJECT SCHEDULE

The project is anticipated to be complete within eighteen months of notice to proceed, with an expected bid opening in May 2022. A design milestone schedule will be presented at the project kick-off meeting.

C. PAYMENT

Total contract amount of **$1,215,981.56** based on the attached Exhibit B. Invoices will be presented monthly and will be supported by a Progress Report.

D. EFFECTIVE DATE

This Task Order No. 44 shall be effective as of August 20, 2021.

E. ORIGINAL AGREEMENT

All Terms and Conditions of the Agreement dated July 12, 2021 as amended shall remain the same and shall apply hereto.

F. ACCEPTANCE

By signature, the parties hereto accept the provisions of this Task Order No. 44.

ARCHITECT/ENGINEER:

AECOM Technical Services, Inc.

By: _____
Vice President

Date: 6/29, 2021

OWNER:

GAINESVILLE-ALACHUA COUNTY REGIONAL AIRPORT AUTHORITY

By: _____
Chief Executive Officer

Date: 7-12, 2021

Federal Aviation Administration

By: _____

Date: _____, 2021

Florida Department of Transportation

By: _____

Date: _____, 2021

April 16, 2021
Revised May 18, 2021

AECOM
Attn: Bill Prange, P.E.
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Via Email: bill.prange@aecom.com

Re: Gainesville Regional Airport – GNV Taxiway A & Taxiway E

Dear Mr. Prange:

In response to your request for a proposal for our professional engineering and surveying services for the above referenced project, we hereby submit the following for your review and approval:

Engineering Services

Design Development Phase

eda will prepare and submit a complete Development Plan Application to the City, required by the City of Gainesville Land Development Code (LDC), which will include the following services:

A. Application Process / Representation of Client

eda will serve as a liaison between the client, project consultants and the City of Gainesville and will attend all required meetings throughout the application review process. These services include the following:

- **First Step Meeting**: Schedule meeting and represent client at the required First Step Meeting and any other necessary meetings with City Staff.
- **Public Hearing (Airport Board)**: **eda** shall attend and participate as a design team member of the presentation of the project to the Airport Board which serves as the official reviewing body for the application.
- **Additional Meetings**: Throughout the application process, **eda** will represent the client at all required meetings with project consultants, city representatives and/or members of the public.

B. Development Plan Design / Project Coordination

- Coordinate with project consultants (landscape architect, lighting engineer and geotechnical engineer, as required) to prepare and submit a complete Development Plan for processing through the City of Gainesville Planning and Public Works staff.
    - Help with permit application package, including getting Project Dox project, and coordination with AECOM staff to submit and process applications and submit the required applications to the City of Gainesville/GRU.
- Participate in design stormwater system for proposed improvements and prepare application for the St. Johns River Water Management District (SJRWMD)
- Provide coordination between the client and the City of Gainesville
- Provide coordination between the client and other agencies
- Represent the applicant in all City, water management district, GRU and any other required meetings.

Construction Documents 90%

Response to Agency(s) – **eda** shall coordinate with the design team to respond to comments and resubmit to agency(s).

Review Meeting – **eda** shall attend a meeting to discuss the 90% plans and specifications with the design team.

Construction Documents 100%

Agency Submittal – **eda** shall submit final plans to all required agencies for final approval.

Review Meeting – **eda** shall attend one review meeting with the design team and the Authority to discuss the details of the design and identify where further detail is needed.

Surveying Services

Project:
Gainesville Regional Airport
Taxiway Alpha and Taxiway Echo
Extension, Modification and Rehabilitation Work
(See attached exhibit for specific extents and scope of topographic survey)

- **Topographic Survey**: Prepare a Topographic Survey of the project (as shown within Exhibit 1) which meets the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17, Florida Board of Administrative Code, pursuant to Section 472.027 Florida Statutes
  The topographic survey will include:
    - Spot elevations sufficient to generate 1' contours and all significant grade breaks.
        - Taxiways will be cross-sectioned every 25 feet, more or less.
        - Ground shots will be provided on a nominal 50'x50' grid.

        - Old abandoned and partially covered concrete and asphalt will not be cleaned off. Only the limits of exposed pavement will be shown.
    - The location of all fixed above ground improvements.
    - The location of all trees 8" and greater in diameter (measured 4.5 feet above grade).
    - The location, size, depth, and material type of all accessible sanitary and storm sewer inverts.
    - **eda** will utilize the Michael Baker International Mobile LiDAR truck to obtain the Topographic Survey of the Asphalt Pavement. This proposal includes all necessary coordination with Michael Baker International and their associated sub-contractor fees.

- **Underground Utilities**: Locate all traceable underground utilities subject to our Utility Location Agreement (attached), and show their location upon the above proposed Topographic Survey.

- **Drainage Culvert 3D Laser Scan**: **eda** will perform a 3D Laser Scan of the interior of the approximately 25-foot diameter drainage culvert beneath Taxiway Alpha (generally described as being between the Sheriff's Hangar and the Fuel Farm) and the pavement directly above said culvert.
    - Deliverables:
        - **eda** will provide a topographic survey verifying the diameter of the drainage culvert pipe along with any deflection or damage in the pipe and elevations on the asphalt directly above said culvert.
        - An AutoCAD DWG can be provided.
        - **eda** will provide a point cloud file of the culvert pipe in .pts format for use in modeling software.

- **Additional Drainage Topographic Survey**: Due to uncertainties about Drainage Requirements eda is proposing to provide up to Five (5) additional days of Survey Field Work within areas to be defined later. This "Not to Exceed" includes up to Five (5) Days for a Survey Field Crew, up to Three (3) Days for a Utility Locator, and the associated office time associated with this field work.

Fees

Engineering Services

• Design Development Phase	$ 7,500.00	
• Construction Documents (90%)	$10,000.00	
• Construction Documents (100%)	$10,000.00	

Surveying Services

• Topographic Survey with Underground Utilities	$115,000.00	Lump Sum
• 3D Scan of Drainage Culvert	$ 8,500.00	Lump Sum
• Additional Drainage Topographic Survey	$ 15,000.00	Not to Exceed

Printing, overnight mailing, neighborhood meeting advertisements, and other miscellaneous costs will be billed as direct reimbursable. Invoicing will be done monthly based on work completed.

If this proposal meets with your approval, please authorize **eda** consultants inc. to proceed with the work outlined above by signing the attached contract and initialing the fee schedule.

If you have any questions, please feel free to contact our office.

Sincerely,

Sergio Reyes, PE
President

Utility Location Agreement

This utility location agreement is an attachment to a fee proposal by **eda** consultants inc. to provide engineering and/or surveying or utility location services. Acceptance of the engineering and/or surveying or utility location services fee proposal is also an acceptance of the terms and conditions of this agreement.

eda will attempt to locate all traceable public utility lines that are made evident by above ground fixtures and/or signage within the limits designated in the fee proposal using state-of-the-art electronic location equipment and/or ground penetrating radar. Tracing of irrigation lines/control wires and other minor private utility lines is not included unless otherwise specifically noted in the surveying scope of services portion of the proposal. A certification as to the existence of septic tanks, drain fields and underground tanks will not be made unless otherwise specifically noted in the surveying scope of services portion of the proposal.

Utility lines will be marked with flags and/or paint or chalk using "Guidelines for marking underground facilities" published by the American Public Works Association (APWA). The surveyor is not responsible for removing any paint marks or flags after the survey is completed.

No excavation of utilities is proposed. Should excavation be required for design purposes, **eda** can coordinate with a third party firm to provide those services as additional services.

There are many factors outside the control of the utility locator that affect the electronic or radar location of underground utilities including, but not limited to: broken, non-grounded, or non-existing trace wires on non-metallic lines, fiber optic cables with no metallic sheath or trace wire, clay or wet soils, crossed trace wires, lines in close proximity to each other, lines not evidenced by any above ground fixtures or signage, etc.

eda has an excellent record of accurate locates. However, because of the above noted factors that are beyond the control of the surveyor, the following note will be placed on the survey (prepared by **eda** or others if **eda** provides location services to another firm) and is a condition of **eda** providing these services:

> THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN WERE BASED ON ABOVE GROUND FIXTURES, UTILITY COMPANY MAPS AVAILABLE TO THE SURVEYOR, AND ELECTRONIC DETECTION METHODS. UNLESS NOTED OTHERWISE ON THE GRAPHIC POTION OF THIS SURVEY, NO UTILITIES WERE UNCOVERED TO VERIFY THEIR LOCATION.
>
> NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED BY THE SURVEYOR THAT THE LOCATIONS SHOWN REPRESENT THE ACTUAL LOCATIONS OF THOSE UTILITIES, THE UTILITY TYPE, OR THAT NO OTHER UTILITIES EXIST ON THE SITE.
>
> PRIOR TO THE DESIGN OF UTILITY CONNECTIONS, THE PROPOSED CONNECTION POINTS SHOULD BE EXCAVATED AS NECESSARY TO CONFIRM THEIR EXACT LOCATION, DEPTH AND CHARACTERISTICS. IN ACCORDANCE WITH FLORIDA STATUTE CHAPTER 556, PRIOR TO ANY EXCAVATION, THE EXCAVATOR SHOULD CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770.

Client Contract

CONSULTANT:

eda consultants inc.
720 SW 2nd Avenue, South Tower, Suite 300
Gainesville, FL 32601
P: (352) 373-3541

CLIENT:

AECOM
Attn: Bill Prange, P.E.
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Client requests and authorizes CONSULTANT to perform the following services:

SCOPE: per proposal dated May 18. 2021 for Gainesville Regional Airport – GNV Taxiway A & Taxiway E

COMPENSATION by CLIENT to CONSULTANT will be:

SERVICE	COST		INITIAL FOR APPROVAL
Engineering Services	$27,500.00		
Surveying Services	$138,500.00		
Total	**$166,000.00**		

Other Terms: Retainer of 20% due upon proposal acceptance; funds to be applied toward final invoice. Invoices due and payable within fifteen (15) days of presentation.

Services covered by this AGREEMENT will be performed in accordance with the Provisions listed below and any attachments or schedules. This AGREEMENT supersedes all prior agreements and understanding and may only be changed by written amendments executed by both parties.

PROVISIONS

1. **Authorization to Proceed.** Execution of the AGREEMENT by CLIENT will be authorization for CONSULTANT to proceed with the work.

2. **Per Diem Rates.** CONSULTANT'S Per Diem Rates, when stated as basis of compensation, are those hourly rates charged for work performed on the PROJECT by CONSULTANT'S employees for the indicated classification. These rates are subject to adjustments upon 60-day notice and include all allowances for salary, overhead and fees, but do not include allowances for Direct Expenses.

3.1 Cost Opinions. Any cost opinions or other PROJECT economic evaluations provided by CONSULTANT will be on a basis of experience and judgment, but since CONSULTANT has no control over market conditions or bidding procedures, CONSULTANT can in no way warrant that bids, construction costs, or other project economics will not differ from the cost opinions or other PROJECT economic evaluation provided.

3.2 The CLIENT agrees that CONSULTANT has given no guarantees regarding the outcome or resolution of this engagement. Specifically, as it relates to land use/zoning or other development approval(s), the CLIENT agrees that CONSULTANT has not and cannot guarantee that the applications will be approved, or approved with conditions acceptable to the CLIENT, since the government approval process necessarily involves review of the applications in the legislative and political process, which carries with it a high degree of discretion, risk, and uncertainty. The CLIENT also agrees that the approval process requires the professional judgment of CONSULTANT, in consultation with other professional consultants and the CLIENT, none of whom can control the behavior of public officials or guarantee the outcome of a public body's vote on an application.

3.3 To the extent that actions or inactions by the government require additional services beyond those estimated in the scope of work and Compensation sections of this Agreement, CONSULTANT will be entitled to payment by CLIENT for those services upon presentation of the invoice.

4. **Standard of Care.** The Standard of Care applicable to CONSULTANT'S services will be the degree of skill and diligence normally employed by professional Engineers, Surveyors & Mappers, Planners or CONSULTANTS

performing the same or similar services in Alachua Co., Florida at the time CONSULTANT'S services are performed. CONSULTANT will re-perform any services not meeting this Standard of Care without additional compensation.

5. Termination. This AGREEMENT may be terminated for convenience on 30 days written notice, or for cause, if either party fails substantially to perform through no fault of the other and does not commence correction of such nonperformance within 5 days of written notice and diligently complete the correction thereafter. Should CLIENT not pay any invoices within 30 days of receipt, the CONSULTANT reserves the right to discontinue work and/or terminate this agreement for cause by providing the client 5 days written notice. On termination, CONSULTANT will be paid for all authorized services performed up to the termination date plus expenses, such as, but not limited to, reassignment of personnel, subcontract termination costs, and related closeout costs. If no notice of termination is given, relationships and obligations created by this AGREEMENT, except Provisions 8 through 12, will be terminated upon completion of all applicable requirements of this AGREEMENT.

6. Payment to Consultant. Monthly invoices will be issued by CONSULTANT for all services provided under this AGREEMENT. Invoices are due and payable on receipt. Interest at a rate of 1-1/2 percent per month, or that permitted by law, will be charged on all past-due amounts starting 15 days after the date of the invoice. Payment will first be credited to interest and then to principal. If payment is not received within 30 days of invoice date the CONSULTANT will stop work and inform the CLIENT that work has stopped, and legal means will be pursued to obtain payment. No information/data associated with the project will be provided to any party involved (including official agencies) until full payment of past due invoices is received. In the event of a disputed or contested invoice, only that portion so contested will be withheld from payment, and the undisputed portion will be paid.

CLIENT will exercise reasonableness in contesting any invoice or portion of the invoice until mutually resolved. If any action, in law or equity, is brought to enforce or interpret the provisions of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees as determined by the court in the same action.

7. Limitation of Liability. In recognition of the relative risks, rewards and benefits of the Project to both the CLIENT and the CONSULTANT, the risks have been allocated so that the CLIENT agrees that, to the fullest extent permitted by law, CONSULTANT'S other liability to CLIENT for any and all injuries, claims, losses, expenses, damages or claim expenses arising out of this AGREEMENT, from any cause or causes, shall not exceed the compensation received by CONSULTANT under this AGREEMENT. This Provision takes precedence over any conflicting Provision of this AGREEMENT or any document incorporated into it by reference.

8. Severability and Survival. If any of the Provisions contained in this AGREEMENT are held illegal, invalid or unenforceable, the enforceability of all remaining Provisions shall not be impaired thereby. Limitation of Liability, indemnities and other express representations shall survive termination of this AGREEMENT for any cause.

9. Interpretations. The limitations of liability will apply whether CONSULTANT'S liability arise under breach of contract or warranty; tort, including negligence; strict liability; statutory liability; or any other cause of action, except the limitations will not apply to willful misconduct or gross negligence for limitations of liability or sole negligence for indemnification. Said limitations shall apply to CONSULTANT'S officers, affiliated corporations, employees and subcontractors.

10. Construction Phase Services. (a) if the Consultant prepared construction documents and the Consultant is not retained to make periodic site visits, the Client assumes all responsibility for interpretation of the documents and for construction observation, and the Client waives any claims against the Consultant in any way connected thereto. (b) The Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall Consultant have any authority or responsibility to stop or direct the work of any contractor. The Consultant's visits will be for the purpose of endeavoring to provide the Client a greater degree of confidence that the completed work of its contractors will generally conform to the construction documents prepared by the Consultant. Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents. (c) The Consultant is not responsible for any duties assigned to it in the construction contract that are not expressly provided for in this Agreement. The Client agrees that each contract with any contractor shall state that the contractor shall be solely responsible for job site safety and its means and methods; that the contractor shall indemnify the Client and the Consultant for all claims and liability arising out of job site accidents; and that the Client and the Consultant shall be made additional insureds under the contractor's general liability insurance policy.

11. No Third-Party Beneficiaries. This AGREEMENT gives no rights or benefits to anyone other than CLIENT and CONSULTANT and has no third-party beneficiaries. CONSULTANT'S services are defined solely by this AGREEMENT, and not by any other contract or agreement that may be associated with the PROJECT.

12. Assignments. This is a bilateral personal services AGREEMENT. Neither party shall have the power to or will assign any of the duties or rights or any claim arising out of or relating to this AGREEMENT, whether arising out of tort, contract, or otherwise, without the written consent of the other party. Any unauthorized assignment is void and unenforceable. These conditions and the entire AGREEMENT are binding on the heirs, successors and assigns of the parties hereto.

13. Dispute Resolution. The parties shall attempt to amicably resolve any disputes arising under this Agreement. Should judicial relief be necessary, such an action will only be commenced in a state court of competent jurisdiction in the Eighth Judicial Circuit in and for Alachua County, Florida. This Agreement shall be construed and interpreted under Florida law. The prevailing party in any action shall be entitled to an award of reasonable attorney's fees and all costs, whether taxable or not, for proceedings at the trial and appellate level, plus interest, and the costs of collection.

14. PURSUANT TO FS 558.0035, EMPLOYEES OF CONSULTANT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE UNDER THIS AGREEMENT.

APPROVED FOR **CLIENT**	ACCEPTED BY **eda**
BY_____	BY_____
_____	_____
Print Name & Title	Sergio Reyes, PE - President
Date: _____	Date: _____

Cal -Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056
Tel (386) 755-3633 • Fax (386) 752-5456

450 SR 13N, Suite 106-308, Jacksonville, FL 32259
Tel (904) 381-8901 • Fax (904) 381-8902

April 13, 2021 (Revised on April 28, 2021)

Mr. Bill Prange, P.E.
AECOM Corporation
7650 W. Courtney Campbell Cswy
Tampa, Florida 33607

RE: Proposal for Geotechnical Engineering Exploration & Pavement Evaluation GNV-Taxiway A & E Extension, Modification & Rehabilitation Work Gainesville, Florida

Dear Mr. Bill Prange, P.E.,

Cal-Tech Testing, Inc. (CTTI) is pleased to submit this proposal to perform a geotechnical engineering exploration and pavement evaluation for the proposed Taxiway A and E Extension, Modification and Rehabilitation work at the Gainesville Regional Airport in Gainesville, Florida.

PROJECT INFORMATION

The information contained in the Geotechnical Exhibit 1 and 2 you provided to us indicates the project design requires determination of pavement sections and subsurface soil conditions, including pertinent permeability parameters, at discrete locations along the existing taxiways A and E and proposed extensions.

SCOPE OF SERVICES

Based on your request, the scope of services will consist of drilling 60 Standard Penetration Test (SPT) borings to a depth 15 ft, core the existing asphalt pavement at 30 locations and perform five (5) Double Ring Infiltration (DRI) tests. In addition, we will bulk-sample near-surface soils from six (6) locations for laboratory determination of the subgrade California Bearing Ration (CBR). The SPT boring, pavement core, DRI and CBR locations will be laid out by our field crew from coordinates you provided to us and using a hand-held Global Positioning System (GPS) device.

Our services will also include a Ground Penetrating Radar (GPR) survey (by our specialty geophysical subcontractor) for an area of approx. 100 ft wide by 200 ft. long around the existing 25-ft diameter, metal, culvert by the north end of Taxiway A.

The SPT and DRI tests will be performed in general accordance with applicable ASTM standards. The boreholes will be grouted and asphalt-patched, where required, at completion.

CTTI will transport the boring soil samples to our laboratory for examination and classification by our geotechnical engineer in general accordance with the Unified Soil Classification System.

Prior to the drilling work, we will contact the Sunshine One-Call Center to mark-out the location of known underground utilities in the area of the proposed borings.

At completion of the field and laboratory work, we will prepare an engineering report summarizing the work done and presenting the subsurface soil profile and the pavement sections along with our geotechnical recommendations for construction of the project and the result of our analyses in regards to the soil vertical and horizontal unsaturated Hydraulic Conductivity and estimated Seasonal High Groundwater Table (SHGWT).

Similarly, our specialty geophysical subcontractor will issue a separate report presenting the results of the GPR survey data and interpretation prepared by a register professional geologist.

ESTIMATED FEE

Based on the scope of services the fee for our geotechnical exploration and pavement evaluation is as follows:

Mobilization	**$ 2,050.00**
GPR Survey and Report	**$ 4,000.00**
SPT Borings (900 ft. @ $13.50/ft)	**$12,150.00**
Pavement Core (30 @ $125.00 each)	**$ 3,750.00**
Double Ring Infiltration test (5 @ $400.00 each)	**$ 2,000.00**
Laboratory CBR (6 @ $400.00 each)	**$ 2,400.00**
Laboratory for Soil Classification	**$ 4,500.00**
Borehole Grouting and Patching (900 ft. at $4.00/ft)	**$ 3,600.00**
Management (utility clearance, layout, badge, etc.)	**$ 1,800.00**
Report Preparation	**$ 6,500.00**
Administration	**$ 55.00**
Total	**$42,805.00**

Schedule

We anticipate that our field work will encompass 18 working days. Our report should be issued within 8 working days of completion of the field and laboratory work.

Limitations

The soil boring detailed in this proposal presumes standard geotechnical drilling and does not include provisions for drilling through contaminated material. If environmental contaminants are encountered, we will cease drilling operations and notify you.

Authorization

If this proposal is acceptable, please authorize us to proceed with the proposed services by signing below and return to our office. A sub-contract agreement will also be sufficient as authorization.

Closing

CTI appreciates the opportunity to provide this proposal and we look forward to serving you on this and future projects. Should you have any questions concerning this proposal or the services proposed, please do not hesitate to contact me at our Lake City, FL office (386) 755-3633.

Sincerely,

Cal-Tech Testing, Inc.

Ivan E. Marcano, P.E.
Sr. Geotechnical Engineer

Mike Stalvey, Jr.
Vice-President

Proposal for Geotechnical Engineering Exploration & Pavement Evaluation-GNV, Taxiway A & E Expansion, Modification & Rehabilitation Work, Gainesville Florida	
Name of Representative (Print)	Date
Title:	
Representative Signature:	