

CONTRACT FOR CONSULTING/PROFESSIONAL SERVICES

This Contract is made as of the 11th day of July, 2023 by and between **Palm Beach County**, a Political Subdivision of the State of Florida, by and through its Board of Commissioners, hereinafter referred to as the **COUNTY**, and **AECOM Technical Services, Inc.**, [] an individual, [] a partnership, [X] a corporation authorized to do business in the State of Florida, hereinafter referred to as the **CONSULTANT**, whose Federal I.D. is 95-2661922.

In consideration of the mutual promises contained herein, the COUNTY and the CONSULTANT agree as follows:

ARTICLE 1 - SERVICES

The CONSULTANT'S responsibility under this Contract is to provide professional/consultation services in the area of Civil Planning, Design, Engineering and Construction Management Professional Services, as more specifically set forth in the Scope of Work detailed in Exhibit "A".

The COUNTY'S representative/liaison during the performance of this Contract shall be Mr. Michael Giambrone, telephone no. 561-471-7423.

The CONSULTANT'S representative/liaison during the performance of this Contract shall be Mr. Andrew Kacer, telephone no. 352-634-4363.

ARTICLE 2 – PERFORMANCE PERIOD

The CONSULTANT shall commence services upon execution of this Contract and written Notice to Proceed from COUNTY. The term of this Contract shall be two (2) years, with three (3) one (1) year renewal options, the exercise of which are within COUNTY'S sole control and discretion. Continued performance of on-going services related to tasks authorized prior to the expiration of the Contract shall extend the term presented above to allow completion of the task. If required, an Amendment to the Contract may be issued to expand the scope of services to include any additional services needed to complete a task authorized prior to expiration of this Contract.

Reports and other items of work shall be delivered or completed in accordance with the detailed schedule set forth in Exhibit "C" and in individual Consultant Services Authorizations (CSA)s.

ARTICLE 3 - PAYMENTS TO CONSULTANT

- A. The total amount to be paid by the COUNTY under this Contract for all services and materials including, if applicable, "out of pocket" expenses (specified in paragraph C below) shall not exceed a total contract amount of Two million one hundred and twenty-six thousand six-hundred and twenty-nine Dollars and seventy-eight Cents (\$2,126,629.78). The CONSULTANT shall notify the COUNTY's representative in writing when 90% of the

"not to exceed amount" has been reached. The CONSULTANT will bill the COUNTY on a monthly basis, or as otherwise provided, at the amounts set forth in Exhibit "B" for services rendered toward the completion of the Scope of Work. Where incremental billings for partially completed items are permitted, the total billings shall not exceed the estimated percentage of completion as of the billing date.

- B. COUNTY shall pay all undisputed portions of CONSULTANT's invoices within 45 days of receipt without holdback or retention in accordance with Local Government Prompt Payment Act. COUNTY shall notify CONSULTANT within ten (10) days of the receipt of the invoice of any disputed items. Such notice must be accompanied by a detailed description of any disputed items and include supporting documentation. Invoices received from the CONSULTANT pursuant to this Contract will be reviewed and approved by the COUNTY's representative, to verify that services have been rendered in conformity with the Contract. Approved invoices will then be sent to the Finance Department for payment. All invoices shall be submitted to the COUNTY'S representative within six (6) months of providing the invoiced services.
- C. All requests for payment of "out-of-pocket" reimbursable expenses eligible for reimbursement under the terms of this Agreement shall include copies of said receipts, invoices, or other documentation acceptable to the Palm Beach County Finance Department. Such documentation shall be sufficient to establish that the expense was actually incurred and necessary in the performance of the scope of work described in this Agreement. Mileage charges shall identify the destination, number of miles, rate, and purpose of travel. Duplication charges shall describe the documents, purpose of duplicating, and rate charged. Any travel, per diem, mileage, meals, or lodging expenses, which may be reimbursable under the terms of this Agreement, will be paid in accordance with the rates and conditions set forth in Section 112.061, Florida Statutes and Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009. Requests for reimbursement of travel expenses shall include the use of Florida Department of Transportation Contractor Travel Form No. 300-000-06 to be submitted with the request for payment. CONSULTANT shall submit all portions of the travel-related reimbursable expenses at the same time in one request. The COUNTY has the right to disallow any travel-related expenses that a granting agency or the State of Florida has disallowed.
- D. Lump sum project phases will be invoiced on a monthly basis based on total percentage complete. For lump sum projects, DBE subcontractors will be tracked separately. Time & Material task orders will be invoiced monthly based on total labor hours plus reimbursable expenses in accordance with a not to exceed amount.
- E. Final Invoice: In order for both parties herein to close their books and records, the CONSULTANT will clearly state "final invoice" on the CONSULTANT'S final/last billing to the COUNTY. This shall constitute CONSULTANT'S certification that all services have been properly performed and all charges and costs have been invoiced to Palm Beach County. Any other charges not properly included on this final invoice are waived by the CONSULTANT.
- F. In order to do business with Palm Beach County, CONSULTANTS are required to create a Vendor Registration Account OR activate an existing Vendor Registration Account through the Purchasing Department's Vendor Self Service (VSS) system, which can be accessed at

<https://pbcvssp.co.palm-beach.fl.us/webapp/vssp/AltSelfService>. If CONSULTANT intends to use sub-consultants, CONSULTANT must also ensure that all sub-consultants are registered as consultants in VSS. All subcontractor agreements must include a contractual provision requiring that the sub-consultant register in VSS. COUNTY will not finalize a contract award until the COUNTY has verified that the CONSULTANT and all of its sub-consultants are registered in VSS.

ARTICLE 4 - TRUTH-IN-NEGOTIATION CERTIFICATE

Signature of this Contract by the CONSULTANT shall also act as the execution of a truth-in-negotiation certificate certifying that the wage rates, over-head charges, and other costs used to determine the compensation provided for in this Contract are accurate, complete and current as of the date of the Contract and no higher than those charged the CONSULTANT'S most favored customer for the same or substantially similar service.

The said rates and costs shall be adjusted to exclude any significant sums should the COUNTY determine that the rates and costs were increased due to inaccurate, incomplete or noncurrent wage rates or due to inaccurate representations of fees paid to outside consultants. The COUNTY shall exercise its rights under this Article 4 within three (3) years following final payment.

ARTICLE 5 - TERMINATION

This Contract may be terminated by the CONSULTANT upon sixty (60) days' prior written notice to the COUNTY in the event of substantial failure by the COUNTY to perform in accordance with the terms of this Contract through no fault of the CONSULTANT. It may also be terminated, in whole or in part, by the COUNTY, with cause upon fifteen (15) business days' written notice to the CONSULTANT or without cause upon ten (10) business days' written notice to the CONSULTANT. CONSULTANT shall be afforded a reasonable time to cure any alleged deficiencies. CONSULTANT shall be paid for services rendered to the COUNTY'S satisfaction through the date of termination. Compensation will not include anticipated profit on non-performed services. After receipt of a termination notice, except as otherwise directed by the COUNTY, in writing, the CONSULTANT shall:

- A. Stop work on the date and to the extent specified.
- B. Terminate and settle all orders and subcontracts relating to the performance of the terminated work.
- C. Transfer all work in process, completed work, and other materials related to the terminated work to the COUNTY, including, but not limited to, all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by the CONSULTANT under this Contract, whether complete or partially complete.
- D. Continue and complete all parts of the work that have not been terminated.

ARTICLE 6 - PERSONNEL

The CONSULTANT represents that it has, or will secure at its own expense, all necessary personnel required to perform the services under this Contract. Such personnel shall not be employees of or have any contractual relationship with the COUNTY.

All of the services required under this Contract shall be performed by the CONSULTANT or under its supervision, and all personnel engaged in performing the services shall be fully qualified and, if required, authorized or permitted under state and local law to perform such services.

Any changes or substitutions in the CONSULTANT'S key personnel, as may be listed in Exhibit "A", must be made known to the COUNTY'S representative and written approval must be granted by the COUNTY'S representative before said change or substitution can become effective.

The CONSULTANT warrants that all services shall be performed by skilled and competent personnel in accordance with the degree of professional skill, quality and care ordinarily exercised by members of the same profession currently practicing in the same locality under comparable circumstances.

All of the CONSULTANT'S personnel (and all Subcontractors), while on COUNTY premises, will comply with all COUNTY requirements governing conduct, safety and security.

ARTICLE 7 - SUBCONTRACTING

The COUNTY reserves the right to accept the use of a subcontractor or to reject the selection of a particular subcontractor and to inspect all facilities of any subcontractors in order to make a determination as to the capability of the subcontractor to perform properly under this Contract. The CONSULTANT is encouraged to seek Disadvantaged Business Enterprises ("DBE"), as defined in 49 CFR Part 26, for participation in subcontracting opportunities. For services rendered by subcontractors retained by the CONSULTANT in connection with all services, the COUNTY shall pay the actual subcontractor fees to be paid by the CONSULTANT for these services.

The following subcontractors are anticipated to be utilized by the CONSULTANT, as necessary and approved by the COUNTY, to assist in the completion of various task authorizations:

- **Brown & Phillips, Inc. (DBE)**
- **Chandler, Campbelle & Daschle (DBE)**
- **Chen Moore & Associates, Inc.**
- **Cyriacks Environmental Consulting Services, Inc. (DBE)**
- **Harris, Miller, Miller, & Hanson, Inc. (DBE)**
- **Quantum Electrical Engineering, Inc. (DBE)**
- **Ricondo & Associates, Inc.**
- **Sightline, Inc.**
- **Scalar Consulting Group, Inc.**
- **Thomas Geotechnical Services**

- **Tierra South Florida (DBE)**
- **Urban Design Studios**
- **WGI, Inc.**

If a subcontractor fails to perform or make progress, as required by this Contract, and it is necessary to replace the subcontractor to complete the work in a timely fashion, the CONSULTANT shall promptly do so, subject to acceptance of the new subcontractor by the COUNTY and the provisions of this Article related to termination or substitution of DBE subcontractors set forth in Article 8.

The CONSULTANT agrees to pay each subcontractor under this Contract for satisfactory performance of its contract no later than seven (7) days from the receipt of each payment the CONSULTANT receives from the COUNTY. Any delay or postponement of payment from the above referenced timeframe may occur only for good cause following written approval of the COUNTY. This clause applies to both DBE and non-DBE subcontractors.

The CONSULTANT shall certify in writing that all subcontractors and suppliers have been paid for accepted work and materials from previous progress payments received by the CONSULTANT prior to receipt of any further progress payments. The CONSULTANT shall provide documentation to COUNTY, in a form and substance acceptable to the Department, to certify payment has been made to its subcontractors or suppliers. This provision in no way creates any contractual relationship between any subcontractor or supplier and the COUNTY or any liability on the COUNTY for the CONSULTANT'S failure to make timely payment to the subcontractor or supplier.

ARTICLE 8 – DISADVANTAGED BUSINESS ENTERPRISES

A. The CONSULTANT shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The CONSULTANT shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of Department of Transportation-assisted contracts. Failure by the CONSULTANT to carry out these requirements is a material breach of this Contract, which may result in the termination of this contract or such other remedy as the COUNTY deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the CONSULTANT from future bidding as non-responsible.

The CONSULTANT shall include the aforementioned provision in each subcontract that the CONSULTANT signs under this Contract and shall require subcontractors to include this provision in their subcontracts.

B. It is the policy of the COUNTY that DBEs shall have the opportunity to participate in the performance of contracts under this Agreement. The DBE requirements of federal and state laws and regulations apply to this Contract. The CONSULTANT and its subcontractors agree to ensure that DBEs have the opportunity to participate in the performance of this Contract. In

this regard, CONSULTANT shall take all necessary and reasonable steps in accordance with federal and state laws and regulations to ensure that the DBEs have the opportunity to compete for and perform contracts under this Contract.

- C. CONSULTANT has committed to a minimum of minimum of 22.0 % DBE participation in this Contract (“DBE goal”)
- D. Only those firms certified as DBEs by the Unified Certification Program for the State of Florida shall be counted toward the established DBE goal. It is the responsibility of the CONSULTANT to confirm the certification of any proposed DBE.
- E. Reporting/Inspection Requirements
 - (1) The CONSULTANT shall be required to submit regular progress reports, in a form and substance as required by the COUNTY, related to the DBE goal and other affirmative action efforts. Progress reports shall be completed and submitted with each payment request or application for payment. Failure to provide the required progress reports as instructed may result in a delay in processing payment or disapproval of the invoice until the progress report is submitted, as required.
 - (2) Within ten (10) days of the COUNTY’s request, the CONSULTANT shall provide any additional information requested by the COUNTY to substantiate DBE participation, including, but not limited to, complete copies of the written subcontract or agreement between the CONSULTANT and any subcontractor or supplier, including DBE and non-DBE firms, for the work relative to this Contract. CONSULTANT shall provide complete copies of all DBE subcontracts to the COUNTY with the first payment request or application for payment and a complete list of the names of all non-DBE subcontractors and the dollar amount of each non-DBE subcontract.
 - (3) It shall be the responsibility of the CONSULTANT to ensure that the DBE firms performing services under this Contract perform a Commercially Useful Function (as defined in 49 CFR Part 26). The CONSULTANT shall ensure that work committed to a DBE firm as a part of this Contract is actually performed by the DBE firm and shall notify the COUNTY in the event work committed to the DBE firm is actually performed by a non-DBE subcontractor.
 - (4) The CONSULTANT shall maintain records and documents of payments to DBE firms performing under this Contract for a minimum of five (5) years from the termination date of this Contract. The records shall be made available to the COUNTY and/or the U.S Department of Transportation, the Florida Department of Transportation or any of their respective agencies, for inspection upon request. The CONSULTANT shall also require its DBE subcontractors and suppliers maintain their records and documents of payments from the CONSULTANT for a minimum of five (5) years from the termination date of this Contract and ensure that the records are made available to the COUNTY and/or the U.S Department of Transportation, the Florida Department of Transportation or any of their respective agencies, for inspection upon request.

F. DBE Substitution/Termination.

- (1) The CONSULTANT acknowledges and agrees that the Schedule 1A (List of Proposed Disadvantaged Business Enterprises) and Schedule 2A (Letter of Intent) forms, attached hereto and incorporated herein, are a material part of this Contract. By entering this Contract, CONSULTANT is committing to utilize the DBE firms listed in Schedule 1A in the performance of this Contract for the services and at the percentages listed therein.
- (2) The CONSULTANT shall not be permitted to terminate a DBE subcontractor listed in Schedule 1A, List of Proposed DBE Firms, without the COUNTY's prior written consent, and unless the COUNTY's consent is provided, the CONSULTANT shall not be entitled to any payment for work or material unless it is performed by the DBE subcontractor originally designated to perform such work or supply such material. This includes, but is not limited to, instances in which the CONSULTANT seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm or with another DBE firm. The CONSULTANT may only replace a DBE subcontractor for good cause as set forth in 49 CFR §26.53, as now or hereafter amended, and shall not be permitted to terminate a DBE subcontractor for convenience. Such terminations or substitutions must be done with another certified DBE in order to maintain the DBE percentages established in this Contract. If CONSULTANT cannot find a certified DBE to replace the originally proposed DBE, the CONSULTANT must establish that it has exercised good faith efforts to do so.
- (3) Before transmitting a request to terminate and/or substitute a DBE subcontractor, the CONSULTANT will be required to give notice in writing to the DBE subcontractor, with a copy to the COUNTY, of its intent to request approval to terminate and/or substitute the DBE subcontractor, and the reason for the request. The CONSULTANT must give the DBE subcontractor five (5) days to: (i) respond to the notice; and (ii) advise the COUNTY and the CONSULTANT of the reasons, if any, why it objects to the proposed termination of its subcontract and why the COUNTY should not approve the CONSULTANT's action.

ARTICLE 9 - FEDERAL AND STATE TAX

The COUNTY is exempt from payment of Florida State Sales and Use Taxes. The COUNTY will sign an exemption certificate submitted by the CONSULTANT. The CONSULTANT shall not be exempted from paying sales tax to its suppliers for materials used to fulfill contractual obligations with the COUNTY, nor is the CONSULTANT authorized to use the COUNTY'S Tax Exemption Number in securing such materials.

The CONSULTANT shall be responsible for payment of its own and its share of its employees' payroll, payroll taxes, and benefits with respect to this contract.

ARTICLE 10 - AVAILABILITY OF FUNDS

The COUNTY'S performance and obligation to pay under this contract for subsequent fiscal years is contingent upon annual appropriations for its purpose by the Board of County Commissioners.

ARTICLE 11 - INSURANCE

- A. CONSULTANT shall, at its sole expense, agree to maintain in full force and effect at all times during the life of this Contract, insurance coverages and limits (including endorsements), as described herein. CONSULTANT shall agree to provide the COUNTY with at least ten (10) day prior notice of any cancellation, to the insurance coverages. The requirements contained herein, as well as COUNTY'S review or acceptance of insurance maintained by CONSULTANT are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by CONSULTANT under the contract.
- B. **Commercial General Liability** CONSULTANT shall maintain Commercial General Liability at a limit of **\$5,000,000** Each Occurrence and in the aggregate. Coverage shall not contain any endorsement excluding Contractual Liability or Cross Liability unless granted in writing by County's Risk Management Department. CONSULTANT shall provide this coverage on a primary basis.
- B. **Business Automobile Liability** CONSULTANT shall maintain Business Automobile Liability at a limit of liability of **\$5,000,000** Each Accident for all owned, non-owned and hired automobiles. In the event CONSULTANT doesn't own any automobiles, the Business Auto Liability requirement shall be amended allowing CONSULTANT to agree to maintain only Hired & Non-Owned Auto Liability. This amended requirement may be satisfied by way of endorsement to the Commercial General Liability, or separate Business Auto coverage form. CONSULTANT shall provide this coverage on a primary basis.
- C. **Worker's Compensation Insurance & Employers Liability** CONSULTANT shall maintain Worker's Compensation & Employers Liability in accordance with Florida Statute Chapter 440. CONSULTANT shall provide this coverage on a primary basis.
- D. **Professional Liability** CONSULTANT shall maintain Professional Liability or equivalent Errors & Omissions Liability at a limit of liability of **\$5,000,000** Each Claim. When a self-insured retention (SIR) or deductible exceeds **\$10,000**, COUNTY reserves the right, but not the obligation, to review and request a copy of CONSULTANT'S most recent annual report or audited financial statement. For policies written on a "Claims-Made" basis, CONSULTANT shall maintain a Retroactive Date prior to or equal to the effective date of this Contract. The Certificate of Insurance providing evidence of the purchase of this coverage shall clearly indicate whether coverage is provided on an "occurrence" or "claims - made" form. If coverage is provided on a "claims - made" form the Certificate of Insurance must also clearly indicate the "retroactive date" of coverage. In the event the policy is canceled, non-renewed, switched to an Occurrence Form, retroactive date advanced, or any other event triggering the right to purchase a Supplement Extended Reporting Period (SERP) during the life of this Contract, CONSULTANT shall purchase a SERP with a minimum reporting period

not less than 3 years. CONSULTANT shall provide this coverage on a primary basis.

Additional Insured CONSULTANT shall include the COUNTY as an Additional Insured with a CG 2026 Additional Insured - Designated Person or Organization endorsement, or its equivalent, to the Commercial General Liability. The Additional Insured endorsement shall read "Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents." CONSULTANT shall provide the Additional Insured endorsements coverage on a primary basis.

- E. **Waiver of Subrogation** CONSULTANT hereby waives any and all rights of Subrogation against the COUNTY, its officers, employees and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement to waive subrogation without an endorsement to the policy, then CONSULTANT shall agree to notify the insurer and request the policy be endorsed with a Waiver of Transfer of rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy, which specifically prohibits such an endorsement, or which voids coverage should CONSULTANT enter into such an agreement on a pre-loss basis.
- F. **Certificate(s) of Insurance** On execution of this Contract, renewal, within forty-eight hours of a request but COUNTY, and upon expiration of any of the required coverage throughout the term of this Agreement, the CONSULTANT shall deliver to the COUNTY or the COUNTY's designated representative a signed Certificate(s) of Insurance evidencing that all types and minimum limits of insurance coverage required by this Contract have been obtained and are in full force and effect. Certificates shall be issued to:

Palm Beach County Board of County Commissioners
c/o Palm Beach County Department of Airports
846 Palm Beach International Airport
West Palm Beach, Florida 33406-1470

The required certificate(s) must be signed by the authorized representative of the Insurance Company shown on the certificate. The certificate(s) of Insurance shall reference the project name and contract number.

- G. **Umbrella or Excess Liability** If necessary, CONSULTANT may satisfy the minimum limits required above for Commercial General Liability, Business Auto Liability, and Employer's Liability coverage under Umbrella or Excess Liability. The Umbrella or Excess Liability shall have an Aggregate limit not less than the highest "Each Occurrence" limit for either Commercial General Liability, Business Auto Liability, or Employer's Liability. The COUNTY shall be specifically endorsed as an "Additional Insured" on the Umbrella or Excess Liability, unless the Certificate of Insurance notes the Umbrella or Excess Liability provides coverage on a "Follow-Form" basis.
- H. **Right to Review** COUNTY, by and through its Risk Management Department, in cooperation with the contracting/monitoring department, reserves the right to review, modify, reject or

accept any requirement including limits, coverages, or endorsements, herein from time to time throughout the term of this Contract. COUNTY reserves the right, but not the obligation, to review and reject any insurer providing coverage because of its poor financial condition or failure to operate legally.

ARTICLE 12 - INDEMNIFICATION

CONSULTANT shall indemnify and hold COUNTY, its officers and employees from liabilities, damages, losses, and costs including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of CONSULTANT and other persons employed or utilized by the CONSULTANT in the performance of this Contract.

IN ACCORDANCE WITH SECTION 558 ET SEQ OF THE FLORIDA STATUTES AND TO THE FULLEST EXTENT PERMITTED BY LAW, OWNER ACKNOWLEDGES AND AGREES THAT NO INDIVIDUAL EMPLOYEE OR AGENT OF PROFESSIONAL SHALL BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE OCCURRING WITHIN THE SCOPE AND COURSE OF THIS AGREEMENT

ARTICLE 13 - SUCCESSORS AND ASSIGNS

The COUNTY and the CONSULTANT each binds itself and its partners, successors, executors, administrators and assigns to the other party and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the COUNTY nor the CONSULTANT shall assign, sublet, convey or transfer its interest in this Contract without the prior written consent of the other.

ARTICLE 14 - REMEDIES

This Contract shall be governed by the laws of the State of Florida. Any legal action necessary to enforce the Contract will be held in a court of competent jurisdiction located in Palm Beach County, Florida. No remedy herein conferred upon any party is intended to be exclusive of any other remedy, and each and every such remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity, by statute or otherwise. No single or partial exercise by any party of any right, power, or remedy hereunder shall preclude any other or further exercise thereof.

No provision of this Contract is intended to, or shall be construed to, create any third party beneficiary

or to provide any rights to any person or entity not a party to this Contract, including but not limited to any citizen or employees of the COUNTY and/or CONSULTANT.

ARTICLE 15 - CONFLICT OF INTEREST

The CONSULTANT represents that it presently has no interest and shall acquire no interest, either direct or indirect, which would conflict in any manner with the performance of services required hereunder, as provided for in Chapter 112, Part III, Florida Statutes, and the Palm Beach County Code of Ethics. The CONSULTANT further represents that no person having any such conflict of interest shall be employed for said performance of services.

The CONSULTANT shall promptly notify the COUNTY's representative, in writing, by certified mail, of all potential conflicts of interest of any prospective business association, interest or other circumstance which may influence or appear to influence the CONSULTANT'S judgement or quality of services being provided hereunder. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that the CONSULTANT may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute a conflict of interest if entered into by the CONSULTANT. The COUNTY agrees to notify the CONSULTANT of its opinion by certified mail within thirty (30) days of receipt of notification by the CONSULTANT. If, in the opinion of the COUNTY, the prospective business association, interest or circumstance would not constitute a conflict of interest by the CONSULTANT, the COUNTY shall so state in the notification and the CONSULTANT shall, at its option, enter into said association, interest or circumstance and it shall be deemed not in conflict of interest with respect to services provided to the COUNTY by the CONSULTANT under the terms of this Contract.

ARTICLE 16 - EXCUSABLE DELAYS

The CONSULTANT shall not be considered in default by reason of any failure in performance if such failure arises out of causes reasonably beyond the control of the CONSULTANT or its subcontractors and without their fault or negligence. Such causes include, but are not limited to, acts of God, force majeure, natural or public health emergencies, epidemics, pandemics, lockdowns, labor disputes, freight embargoes, and abnormally severe and unusual weather conditions.

Upon the CONSULTANT'S request, the COUNTY shall consider the facts and extent of any failure to perform the work and, if the CONSULTANT'S failure to perform was without it or its subcontractors fault or negligence, the Contract Schedule and/or any other affected provision of this Contract shall be revised accordingly, subject to the COUNTY'S rights to change, terminate, or stop any or all of the work at any time.

ARTICLE 17 - ARREARS

The CONSULTANT shall not pledge the COUNTY'S credit or make it a guarantor of payment or surety for any contract, debt, obligation, judgement, lien, or any form of indebtedness. The CONSULTANT further warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms of this Contract.

ARTICLE 18 - DISCLOSURE AND OWNERSHIP OF DOCUMENTS

The CONSULTANT shall deliver to the COUNTY's representative for approval and acceptance, and before being eligible for final payment of any amounts due, all documents and materials prepared specifically and exclusively for the COUNTY under this Contract. Any reuse, misuse, modification or use of incomplete work product is at the sole risk of COUNTY or any other third party relying on the work product and without liability to CONSULTANT.

To the extent allowed by Chapter 119, Florida Statutes, all written and oral information not in the public domain or not previously known, and all information and data obtained, developed, or supplied by the COUNTY or at its expense will be kept confidential by the CONSULTANT and will not be disclosed to any other party, directly or indirectly, without the COUNTY'S prior written consent unless required by a lawful court order. All drawings, maps, sketches, programs, data base, reports and other data developed, or purchased, under this Contract for or at the COUNTY'S expense shall be and remain the COUNTY'S property and may be reproduced and reused at the discretion of the COUNTY.

All covenants, agreements, representations and warranties made herein, or otherwise made in writing by any party pursuant hereto, including but not limited to any representations made herein relating to disclosure or ownership of documents, shall survive the execution and delivery of this Contract and the consummation of the transactions contemplated hereby.

Notwithstanding any other provision in this Contract, all documents, records, reports and any other materials produced hereunder shall be subject to disclosure, inspection and audit, pursuant to the Palm Beach County Office of the Inspector General, Palm Beach County Code, Sections 2-421 - 2-440, as amended.

ARTICLE 19 - INDEPENDENT CONTRACTOR RELATIONSHIP

The CONSULTANT is, and shall be, in the performance of all work services and activities under this Contract, an Independent Contractor, and not an employee, agent, or servant of the COUNTY. All persons engaged in any of the work or services performed pursuant to this Contract shall at all times, and in all places, be subject to the CONSULTANT'S sole direction, supervision, and control. The CONSULTANT shall exercise control over the means and manner in which it and its employees perform the work, and in all respects the CONSULTANT'S relationship and the relationship of its employees to the COUNTY shall be that of an Independent Contractor and not as employees or agents of the COUNTY.

The CONSULTANT does not have the power or authority to bind the COUNTY in any promise, agreement or representation.

ARTICLE 20 - CONTINGENT FEES

The CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure this Contract and that

it has not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, gift, or any other consideration contingent upon or resulting from the award or making of this Contract.

ARTICLE 21 - ACCESS AND AUDITS

The CONSULTANT shall maintain adequate records to justify all charges, expenses, and costs incurred in estimating and performing the work for at least three (3) years after completion or termination of this Contract. The COUNTY shall have access to such books, records, and documents as required in this Section for the purpose of inspection or audit during normal business hours, at the CONSULTANT'S place of business.

Palm Beach County has established the Office of the Inspector General in Palm Beach County Code, Section 2-421 - 2-440, as may be amended. The Inspector General's authority includes but is not limited to the power to review past, present and proposed COUNTY contracts, transactions, accounts and records, to require the production of records, and to audit, investigate, monitor, and inspect the activities of the CONSULTANT, its officers, agents, employees, and lobbyists in order to ensure compliance with contract requirements and detect corruption and fraud.

Failure to cooperate with the Inspector General or interfering with or impeding any investigation shall be in violation of Palm Beach County Code, Section 2-421 - 2-440, and punished pursuant to Section 125.69, Florida Statutes, in the same manner as a second degree misdemeanor.

ARTICLE 22 - NONDISCRIMINATION

A. Non-Discrimination in County Contracts. The COUNTY is committed to assuring equal opportunity in the award of contracts and complies with all laws prohibiting discrimination. Pursuant to Palm Beach County Resolution R2017-1770, as may be amended, the CONSULTANT warrants and represents that throughout the term of the Contract, including any renewals thereof, if applicable, all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status, familial status, sexual orientation, gender identity or expression, or genetic information. Failure to meet this requirement shall be considered default of the Contract.

As a condition of entering into this Agreement, CONSULTANT represents and warrants that it will comply with the County's Commercial Nondiscrimination Policy as described in Resolution 2017-1770 as amended. As part of such compliance, CONSULTANT shall not discriminate on the basis of race, color, national origin, religion, ancestry, sex, age, marital status, familial status, sexual orientation, gender identity or expression, disability, or genetic information in the solicitation, selection, hiring or commercial treatment of subcontractors, vendors, suppliers, or commercial customers, nor shall the company retaliate against any person for reporting instances of such discrimination. CONSULTANT shall provide equal opportunity for subcontractors, vendors and suppliers to participate in all of its public sector and private sector subcontracting and supply opportunities, provided that nothing contained in this clause shall prohibit or limit otherwise lawful efforts to remedy the effects of marketplace discrimination that have occurred or are occurring in the County's relevant marketplace in Palm Beach County. CONSULTANT understands and agrees that a

material violation of this clause shall be considered a material breach of this agreement and may result in termination of this agreement, disqualification or debarment of the CONSULTANT from participating in County contracts, or other sanctions. This clause is not enforceable by or for the benefit of, and creates no obligation to, any third party. CONSULTANT shall include this language in its subcontracts.

B. Federal Nondiscrimination Covenants.

1. Civil Rights General. The CONSULTANT agrees that it will comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance. This provision binds the CONSULTANT from the solicitation period through the completion of this Contract. This provision is in addition to Title VI of the Civil Rights Act of 1964.
2. Title VI Clauses for Compliance with Nondiscrimination Requirements. During the performance of this Contract, the CONSULTANT, for itself and its assignees and successors in interest, agrees as follows:
 - a. Compliance with Regulations: The CONSULTANT will comply with the Title VI List of Pertinent Nondiscrimination Statutes and Authorities (“Acts and Regulations”) (as defined in Exhibit “E”), as they may be amended from time to time, which are herein incorporated by reference and made a part of this Contract.
 - b. Nondiscrimination: The CONSULTANT, with regard to the work performed by it during the Contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The CONSULTANT will not participate directly or indirectly in the discrimination prohibited by the Acts and Regulations, including employment practices when the Contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.
 - c. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the CONSULTANT for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the CONSULTANT of the CONSULTANT’s obligations under this Contract and the Acts and Regulations relative to non-discrimination on the grounds of race, color, or national origin.
 - d. Information and Reports: The CONSULTANT will provide all information and reports required by the Acts and Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of

information, and its facilities as may be determined by the COUNTY or the Federal Aviation Administration to be pertinent to ascertain compliance with the Acts and Regulations, and instructions. Where any information required of the CONSULTANT is in the exclusive possession of another who fails or refuses to furnish the information, the CONSULTANT will so certify to the COUNTY or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

- e. Sanctions for Noncompliance: In the event of the CONSULTANT's noncompliance with the non-discrimination provisions of this Contract, COUNTY will impose such Contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
 - 1. Withholding payments to the CONSULTANT under this Contract until the CONSULTANT complies; and/or
 - 2. Cancelling, terminating, or suspending this Contract, in whole or in part.
- f. Incorporation of Provisions: The CONSULTANT will include the provisions of this Article 22 in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts and Regulations and directives issued pursuant thereto. The CONSULTANT will take action with respect to any subcontract or procurement as the COUNTY or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the CONSULTANT becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the CONSULTANT may request the COUNTY to enter into any litigation to protect the interests of the COUNTY. In addition, the CONSULTANT may request the United States to enter into the litigation to protect the interests of the United States.
- g. For purposes of this Contract, the term "Title VI List of Pertinent Nondiscrimination Statutes and Authorities" includes the non-discrimination statutes, regulations and authorities listed in Exhibit "E", as may be amended.

ARTICLE 23 - AUTHORITY TO PRACTICE

The CONSULTANT hereby represents and warrants that it has and will continue to maintain all licenses and approvals required to conduct its business, and that it will at all times conduct its business activities in a reputable manner. Proof of such licenses and approvals shall be submitted to the COUNTY's representative upon request.

ARTICLE 24 - SEVERABILITY

If any term or provision of this Contract, or the application thereof to any person or circumstances shall, to any extent, be held invalid or unenforceable, the remainder of this Contract, or the application of such terms or provision, to persons or circumstances other than those as to which it is held invalid

or unenforceable, shall not be affected, and every other term and provision of this Contract shall be deemed valid and enforceable to the extent permitted by law.

ARTICLE 25 - PUBLIC ENTITY CRIMES

As provided in F.S. 287.132-133, by entering into this contract or performing any work in furtherance hereof, the CONSULTANT certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the 36 months immediately preceding the date hereof. This notice is required by F.S. 287.133(3)(a).

ARTICLE 26 - MODIFICATIONS OF WORK

The COUNTY reserves the right to make changes in Scope of Work, including alterations, reductions therein or additions thereto. Upon receipt by the CONSULTANT of the COUNTY'S notification of a contemplated change, the CONSULTANT shall, in writing: (1) provide a detailed estimate for the increase or decrease in cost due to the contemplated change, (2) notify the COUNTY of any estimated change in the completion date, and (3) advise the COUNTY if the contemplated change shall affect the CONSULTANT'S ability to meet the completion dates or schedules of this Contract.

If the COUNTY so instructs in writing, the CONSULTANT shall suspend work on that portion of the Scope of Work affected by a contemplated change, pending the COUNTY'S decision to proceed with the change.

If the COUNTY elects to make the change, the COUNTY shall initiate a Contract Amendment and the CONSULTANT shall not commence work on any such change until such written amendment is signed by the CONSULTANT and approved and executed on behalf of Palm Beach County.

ARTICLE 27 - NOTICE

All notices required in this Contract shall be sent by certified mail, return receipt requested, hand delivery or other delivery service requiring signed acceptance. If sent to the COUNTY, notices shall be addressed to:

Mr. Michael Giambrone, Director of Planning
Palm Beach County Department of Airports/Planning & Development
846 Palm Beach International Airport
West Palm Beach, Florida 33406-1470

With copy to:

Palm Beach County Attorney's Office
301 North Olive Ave.
West Palm Beach, Florida 33401

If sent to the CONSULTANT, notices shall be addressed to:

Andrew Kacer, PE
7650 West Courtney Campbell Causeway
Tampa, FL 33607

With copy to:

Karen Brandon, PE
2090 Palm Beach Lakes Blvd.
Suite 600
West Palm Beach, FL 33409

ARTICLE 28 - ENTIRETY OF CONTRACTUAL AGREEMENT

The COUNTY and the CONSULTANT agree that this Contract sets forth the entire agreement between the parties, and that there are no promises or understandings other than those stated herein. None of the provisions, terms and conditions contained in this Contract may be added to, modified, superseded or otherwise altered, except by written instrument executed by the parties hereto in accordance with Article 26- Modifications of Work.

List of Attachments:

CERTIFICATE OF INSURANCE

EXHIBIT "A" – GENERAL SCOPE OF SERVICES

EXHIBIT "B" – DETAILED FEES, EXPENSES, AND PAYMENTS....

EXHIBIT "C" – PROPOSED SCHEDULES

EXHIBIT "D" – DBE

SCHEDULE 1A – LIST OF PROPOSED DBE FIRMS

SCHEDULE 2A – LETTERS OF INTENT

**EXHIBIT "E" – ADDITIONAL CONTRACT REQUIREMENTS FOR STATE AND
FEDERALLY FUNDED PROJECTS**

ARTICLE 29 - CRIMINAL HISTORY RECORDS CHECK

The CONSULTANT, CONSULTANT'S employees, subcontractors of CONSULTANT and employees of subcontractors shall comply with Palm Beach County Code, Section 2-371 - 2-377,

the Palm Beach County Criminal History Records Check Ordinance (“Ordinance”), for unescorted access to critical facilities (“Critical Facilities”) or criminal justice information facilities (“CJI Facilities”) as identified in Resolutions R2013-1470 and R2015-0572, as amended. The CONSULTANT is solely responsible for the financial, schedule, and/or staffing implications of this Ordinance. Further, the CONSULTANT acknowledges that its Contract price includes any and all direct or indirect costs associated with compliance with this Ordinance, except for the applicable FDLE/FBI fees that shall be paid by the COUNTY.

This Contract may include sites and/or buildings which have been designated as either “critical facilities” or “criminal justice information facilities” pursuant to the Ordinance and above referenced Resolutions, as amended. COUNTY staff representing the COUNTY department will contact the CONSULTANT(S) and provide specific instructions for meeting the requirements of this Ordinance. Individuals passing the background check will be issued a badge. The CONSULTANT shall make every effort to collect the badges of its employees and its subcontractors’ employees upon conclusion of the contract and return them to the COUNTY. If the CONSULTANT or its subcontractor(s) terminates an employee who has been issued a badge, the CONSULTANT must notify the COUNTY within two (2) hours. At the time of termination, the CONSULTANT shall retrieve the badge and shall return it to the COUNTY in a timely manner.

The COUNTY reserves the right to suspend the CONSULTANT if the CONSULTANT 1) does not comply with the requirements of County Code Section 2-371 - 2-377, as amended; 2) does not contact the COUNTY regarding a terminated CONSULTANT employee or subcontractor employee within the stated time; or 3) fails to make a good faith effort in attempting to comply with the badge retrieval policy.

ARTICLE 30 - REGULATIONS; LICENSING REQUIREMENTS

The CONSULTANT shall comply with all laws, ordinances and regulations applicable to the services contemplated herein, to include those applicable to conflict of interest and collusion. CONSULTANT is presumed to be familiar with all federal, state and local laws, ordinances, codes and regulations that may in any way affect the services offered.

ARTICLE 31 - SCRUTINIZED COMPANIES

- A. As provided in F.S. 287.135, by entering into this Contract or performing any work in furtherance hereof, the CONSULTANT certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the Scrutinized Companies that boycott Israel List, or is engaged in a boycott of Israel, pursuant to F.S. 215.4725.

- B. **When contract value is greater than \$1 million:** As provided in F.S. 287.135, by entering into this Contract or performing any work in furtherance hereof, the CONSULTANT certifies that it, its affiliates, suppliers, subcontractors and consultants who will perform hereunder, have not been placed on the Scrutinized Companies With Activities in Sudan List or Scrutinized Companies With Activities in The Iran

Petroleum Energy Sector List created pursuant to F.S. 215.473 or is engaged in business operations in Cuba or Syria.

If the COUNTY determines, using credible information available to the public, that a false certification has been submitted by CONSULTANT, this Contract may be terminated and a civil penalty equal to the greater of \$2 million or twice the amount of this Contract shall be imposed, pursuant to F.S. 287.135. Said certification must also be submitted at the time of Contract renewal, if applicable.

ARTICLE 32 - PUBLIC RECORDS

Notwithstanding anything contained herein, as provided under Section 119.0701, F.S., if the CONSULTANT: (i) provides a service; and (ii) acts on behalf of the COUNTY as provided under Section 119.011(2) F.S., the CONSULTANT shall comply with the requirements of Section 119.0701, Florida Statutes, as it may be amended from time to time. The CONSULTANT is specifically required to:

- A. Keep and maintain public records required by the COUNTY to perform services as provided under this Contract.
- B. Upon request from the COUNTY's Custodian of Public Records, provide the COUNTY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119 or as otherwise provided by law. The CONSULTANT further agrees that all fees, charges and expenses shall be determined in accordance with Palm Beach County PPM CW-F-002, Fees Associated with Public Records Requests, as it may be amended or replaced from time to time.
- C. Ensure that public records that are exempt, or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the Contract, if the CONSULTANT does not transfer the records to the public agency.
- D. Upon completion of the Contract the CONSULTANT shall transfer, at no cost to the COUNTY, all public records in possession of the CONSULTANT unless notified by COUNTY's representative/liaison, on behalf of the COUNTY's Custodian of Public Records, to keep and maintain public records required by the COUNTY to perform the service. If the CONSULTANT transfers all public records to the COUNTY upon completion of the Contract, the CONSULTANT shall destroy any duplicate public records that are exempt, or confidential and exempt from public records disclosure requirements. If the CONSULTANT keeps and maintains public records upon completion of the Contract, the CONSULTANT shall meet all applicable requirements for retaining public records. All records stored electronically by the CONSULTANT must be provided to COUNTY, upon request of the COUNTY's Custodian of Public Records, in a format that is compatible with the information technology systems of COUNTY, at no cost to COUNTY.

Failure of the CONSULTANT to comply with the requirements of this Article shall be a material breach of this Contract. COUNTY shall have the right to exercise any and all remedies available to it, including but not limited to, the right to terminate for cause. CONSULTANT acknowledges that it has familiarized itself with the requirements of Chapter 119, F.S., and other requirements of state law applicable to public records not specifically set forth herein.

IF THE CONSULTANT HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONSULTANT'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, PLEASE CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT RECORDS REQUEST, PALM BEACH COUNTY PUBLIC AFFAIRS DEPARTMENT, 301 N. OLIVE AVENUE, WEST PALM BEACH, FL 33401, BY E-MAIL AT RECORDSREQUEST@PBCGOV.ORG OR BY TELEPHONE AT 561-355-6680.

ARTICLE 32 – COUNTERPARTS

This Contract, including the exhibits referenced herein, may be executed in one or more counterparts, all of which shall constitute collectively but one and the same Contract. The COUNTY may execute the Contract through electronic or manual means. CONSULTANT shall execute by manual means only, unless the COUNTY provides otherwise.

ARTICLE 33 - E-VERIFICATION REQUIREMENTS

CONSULTANT warrants and represents that it is in compliance with section 448.095, Florida Statutes, as may be amended, and that it: (1) is registered with the E-Verify System (E-Verify.gov), and beginning January 1, 2021, uses the E-Verify System to electronically verify the employment eligibility of all newly hired workers; and (2) has verified that all of CONSULTANT's subconsultants performing the duties and obligations of this CONTRACT are registered with the E-Verify System, and beginning January 1, 2021, use the E-Verify System to electronically verify the employment eligibility of all newly hired workers.

CONSULTANT shall obtain from each of its subconsultants an affidavit stating that the subconsultant does not employ, contract with, or subcontract with an Unauthorized Alien, as that term is defined in section 448.095(1)(k), Florida Statutes, as may be amended. CONSULTANT shall maintain a copy of any such affidavit from a subconsultant for, at a minimum, the duration of the subcontract and any extension thereof. This provision shall not supersede any provision of this CONTRACT which requires a longer retention period.

COUNTY shall terminate this CONTRACT if it has a good faith belief that CONSULTANT has knowingly violated Section 448.09(1), Florida Statutes, as may be amended. If COUNTY has a good faith belief that CONSULTANT's subconsultant has knowingly violated section 448.09(1), Florida Statutes, as may be amended, COUNTY shall notify CONSULTANT to terminate its contract with the subconsultant and CONSULTANT shall immediately terminate its contract with the subconsultant. If COUNTY terminates this CONTRACT pursuant to the above, CONSULTANT shall be barred from being awarded a future contract by COUNTY for a period of one (1) year from the date on which this

CONTRACT was terminated. In the event of such contract termination, CONSULTANT shall also be liable for any additional costs incurred by COUNTY as a result of the termination.

ARTICLE 34 - FAA/FDOT PROVISIONS

The CONSULTANT shall comply with the provisions contained in Exhibit E.

ARTICLE 35 – RESILIENCY AND SUSTAINABILITY

The design must meet the requirements of PPM CW-O-093, “Resiliency and Sustainability in County Capital Construction Projects,” Attachment J. The design professional shall provide the County a complete resiliency and sustainability checklist for the project. Pursuant to Florida Statutes 255.2575, all County buildings shall be constructed to comply with a sustainable building rating system or national model green building code. The project should use the most recent version of the Southeast Florida Regional Climate Change Compact’s Unified Sea Level Rise Projection to plan for future sea level rise.



IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Contract on behalf of the COUNTY and CONSULTANT has hereunto set its hand the day and year above written.

ATTEST:
JOSEPH ABRUZZO
CLERK OF THE CIRCUIT COURT
& COMPTROLLER

By: 
Deputy Clerk


WITNESS: Martin, Clint

Digitally signed by Martin, Clint
DN: cn=Martin, Clint,
ou=USTPA1,
email=Clint.Martin@aecom.com
Date: 2023.06.12 16:19:16 -04'00'

SIGNATURE

Clint Martin
Name (type or print)

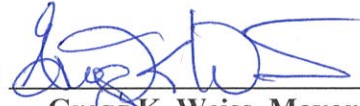
APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: 
County Attorney

APPROVED AS TO TERMS
AND CONDITIONS

By: 
Director of Airports

R2023 0980 JUL 11 2023
PALM BEACH COUNTY, FLORIDA
BOARD OF COUNTY COMMISSIONERS:

By: 
Gregg K. Weiss, Mayor

CONSULTANT:

AECOM Technical Services, Inc. _____

COMPANY NAME

Andrew Kacer

Digitally signed by Andrew Kacer
DN: C=US, E=andy.kacer@aecom.com,
O=AECOM, CN=Andrew Kacer
Date: 2023.06.12 16:16:05-04'00'

Signature

Andrew Kacer
Name (type of print)

Vice President

Title

(Corporate Seal)



AECOM Technical Services, Inc. 213.593.8100 tel
300 South Grand Avenue 213.593.8730 fax
9th Floor
Los Angeles, CA 90071
www.aecom.com

SECRETARY'S CERTIFICATE

AECOM TECHNICAL SERVICES, INC. a California corporation

I, Armond Tatevossian, DO HEREBY CERTIFY that I am a duly elected and acting Secretary of AECOM Technical Services, Inc., a corporation organized under the laws of the State of California ("ATS" or "Corporation"), and the keeper of its records and corporate seal.

I FURTHER CERTIFY that the Corporation's principal place of business is 300 South Grand Avenue, 9th Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on May 22, 2023, and attached hereto as Exhibit A, Andrew Kacer has signatory authority for ATS and is authorized to execute contracts and other documents on behalf of the Corporation.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 6th day of June, 2023.

Armond Tatevossian
Secretary



**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS
OF
AECOM TECHNICAL SERVICES, INC.**

The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action:

RESOLVED: That, "the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation within the boundaries of specific Regions and Business Lines as noted and effective as of the dates set forth below:"

Effective May 22, 2023:

| Last Name | First Name | Region | Business Line |
|-----------|------------|--------|----------------|
| Kacer | Andrew | East | Transportation |

IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands this 22nd day of May, 2023.



Allison Hall



Matthew Crane



Karl Jensen



Armond Tatevossian



Palm Beach County Compliance Summary Report

| Vendor Number | Vendor Name | AM Best Rating | Insurance Carrier | Policy # | Eff. Date | Exp. Date | Coverage | Contract Number | Contract Name |
|---------------|--------------------------------|----------------|--|-----------------|-----------|-----------|------------------------|-----------------|----------------------------------|
| DX00002334 | AECOM Technical Services, Inc. | Modified | Compliant with Minor/Expiring Deficiencies | | | | | DOA 22-13 | Consulting Professional Services |
| | | A++g, XV | ACE American Insurance Company | ISA H10735531 | 4/1/2023 | 4/1/2024 | Auto Liability | | |
| | | A++g, XV | ACE American Insurance Company | HDO G47334275 | 4/1/2023 | 4/1/2024 | General Liability | | |
| | | A++g, XV | Illinois Union Insurance Company | EONG21654693005 | 4/1/2023 | 4/1/2024 | Professional Liability | | |
| | | A++g, XV | Indemnity Insurance Company of North America | WLR C50710129 | 4/1/2023 | 4/1/2024 | Workers Comp | | |

Risk Profile : Standard - Professional Services

Required Additional Insured : Palm Beach County Board of County Commissioners

Ownership Entity :

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PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT A

GENERAL SCOPE OF SERVICES

This document serves as a formal description of the scope of services for the initial efforts (Work Program #1) to be performed by the general consultant team (the CONSULTANT, or as specifically referred to by company name) led by AECOM Technical Services, Inc. It includes a variety of well defined tasks, as well as on demand (on-call) consulting services that will be provided to the Palm Beach County Department of Airports (DOA or the COUNTY).

GENERAL

The services to be provided will be on a general-consulting basis. Services will be divided into three general tasks. Task I shall be "Basic," which consists of all efforts relating to specific planning, design, and construction projects. Task II shall consist of "Annual Services." Task III shall consist of "Miscellaneous Planning and Engineering" services. Each task is further described below.

Specifically authorized projects will be described in Consultant Service Authorizations (CSA)s. The CONSULTANT will prepare CSAs and provide to the COUNTY representative for action and approval. Services on any assignment shall be undertaken only upon written acceptance and notice to proceed of the CSA by the COUNTY.

The CONSULTANT agrees to provide professional services in accordance with the project schedule and phasing established within each CSA. Fees for the services are as shown in Exhibit B and will be included in each CSA. If there are any inconsistencies between this Exhibit "A" General Scope of Services and the CSA, it is agreed that the CSAs are more exact for the specific project and will govern.

Most Professional Services will be divided into two categories of services: Basic Services and Special Services in accordance with industry standards. Basic Services shall be completely defined within the CSA by a scope, fee, and schedule. Special Services are services that can reasonably be anticipated but cannot be defined until further into the effort. Special Services shall be performed as approved by the COUNTY representative in writing and as funds are available. A preset maximum funding for Special Services will be included in the CSA. If additional funding is required due to field conditions, COUNTY and CONSULTANT will either modify the project or COUNTY will commit additional funding.

LEVEL I TASKS - PLANNING, DESIGN, CONSTRUCTION AND FINANCIAL

A. General

CONSULTANT will perform professional planning, design and construction related services in connection with specifically authorized projects as described herein. Services will consist of:

1. Horizontal infrastructure design, such as general civil and airfield electrical design of runways, taxiways, and aircraft parking aprons, as well as site development, utility planning and design, and roadway facility planning and design;
2. Stormwater and environmental planning, design, permitting and agency coordination in support of the design
3. Geotechnical
4. Land Surveying and Mapping
5. Construction Administration (CA), Construction Management (CM), and Construction
6. Engineering and Inspection (CEI) Services
7. Disadvantaged Business Enterprise (DBE) outreach and support services

The projects to be performed by the Airports Engineering Design Consultants will be in accordance with the approved Airport Master Plan(s) and those projects required to enhance the level of services, safety, capacity, and financial viability of the Palm Beach County Airport System at each of the County's four (4) owned and operated airports including Palm Beach International Airport (PBI), Palm Beach County Park Airport (LNA), North Palm Beach County General Aviation Airport (F45) and Palm Beach County Glades Airport (PHK).

Specific tasks contemplated by the Department of Airports during the period of this agreement, may include, but are not limited to the following:

1. New Cargo Ramp Expansion at PBI;
2. Cargo Apron Taxilane Mill, Overlay & Slurry Seal at PBI;
3. Turnage Boulevard Rehabilitation at PBI;
4. Miscellaneous Pavement or Drainage Repairs;
5. Holding Apron at Taxiway A and C at PBI;
6. Taxiway M, M1, M2 Pavement Reconstruction & Electrical Improvements at PBI;
7. New Taxiway Connector at Taxiway C and Taxiway M at PBI;
8. Rehabilitation of Entrance Road at PHK;
9. Taxiway Connectors at Runways 28 and 34 End at LNA;
10. Interior Airfield Service Road Rehabilitation at PBI;
11. Security Camera Improvements;
12. Construction Administration/Construction Management/Construction Engineering; and,
13. Disadvantaged Business Enterprise (DBE) Outreach Program.

B. Planning Studies

Planning studies are unique to each project and must be described in detail in a Task Authorization. In general, the CONSULTANT will prepare interim reports as the study progresses for COUNTY review and comment. A draft of all submittals will first be provided to the COUNTY'S representative for review prior to release elsewhere. The CONSULTANT and COUNTY will coordinate all of the services required.

C. Design Services

The CONSULTANT'S performance is divided into two categories of services: Basic Services and Special Services. Basic Services shall be performed as detailed in the Task Authorization. Special Services will be performed as authorized by the COUNTY'S representative.

Basic Services

Typically basic services will follow five distinct phases. Phase 1 consists of Planning and Programming (Phase 1A) and Schematic Design (Phase 1B). Phase 2 is Design Development (Approximately 30% Completion). Phase 3 consists of sixty percent (60%) design completion of the Contract Documents (Phase 3A), ninety percent (90%) design completion (Phase 3B), and final design completion (100%) of Bid Documents (Phase 3C). Phase 4 consists of Bidding and Award of Contract requirements. Phase 5 consists of Construction Administration.

For most projects, DOA will have prepared a Project Book prior to entering into negotiations with the A/E. This Project Book will include substantial information on the program, design criteria, as-built conditions, existing site conditions, etc.

A brief definition follows for each of the Phases:

PHASE 1A - Analyze and review all Program information as furnished by DOA. Identify any deficiencies or conflicts.

PHASE 1B - Prepare a graphic and written response to the Program, including the conceptual development of all significant project elements and the projected costs for the project.

PHASE 2 - Develop the approved Schematic Design Document from Phase 1B to define all Project elements and solidify all major components prior to the start of the Contract Documents. Determine the Project budget for construction costs and develop preliminary schedule/phasing plans.

PHASE 3A - Develop the Contract Documents to a predetermined completion milestone (60% of completion). Determine the Project Preliminary Cost Estimate and prepare Schedule/Phasing Plans.

PHASE 3B - Complete the Contract Documents to 90% to allow the Project to be reviewed and preliminarily submitted for permitting. Determine the CONSULTANT'S Project Cost Estimate.

PHASE 3C - Complete the Contract Documents to 100% to allow the Project to be permitted, bid, and constructed. Determine the CONSULTANT'S Final Project Cost Estimate.

PHASE 4 - Assist the COUNTY in obtaining Bids and in the award of a Contract as required.

PHASE 5 - Assist the COUNTY in administration of the construction contract.

The following paragraphs synopsizes the CONSULTANT'S typical requirements:

PHASE 1A – PLANNING AND PROGRAMMING

The CONSULTANT will review the accuracy and adequacy of all drawings, budget costs, and other data and information furnished by DOA with emphasis on the following areas:

1. Examine program reports and drawings and review project physical spatial characteristics, user requirements, and program completeness.
2. Examine record drawings for completeness and accuracy and review all as-built conditions as well as existing conditions in the field.
3. Examine in detail the DOA estimated project construction costs, and inform DOA in writing of any serious discrepancies and/or deficiencies that would require additional funds to construct and complete the Project.
4. Examine available site utilities information and review that existing utilities are or are not in conflict with proposed construction and are or are not sufficient to provide the proposed additional facilities with an acceptable level of services.
5. Evaluate survey information provided (if any) and review probable accuracy and adequacy for the project.
6. Examine available soils data provided (if any) and prepare soil boring location plan and specify other required soil tests and investigations.
7. Identify any apparent deficiencies in the available information and prepare specific requirements in writing depicting any further investigations required to develop that additional information. Review and assume responsibility for the validity, interpretation, application, and use of all such supplemental information and data obtained by others.
8. Identify and review Federal and State funding for the project, if applicable.

PHASE 1B - SCHEMATIC DESIGN

The CONSULTANT will only begin this sub-phase when satisfied that all program requirements have been identified, all budget costs verified, and the COUNTY Representative has issued a phase authorization to prepare the Schematic Design Documents.

The CONSULTANT will review preliminary Project concepts with the COUNTY Representative, and other DOA Divisions as appropriate for the type of Project and with all Agencies and other approval authorities with respect to the Project. Those changes and/or modifications that were jointly agreed upon will be addressed by the CONSULTANT and the necessary inclusions made in subsequent phases to the Contract Documents. The purpose of the review and comment solicitation is to endeavor to ensure that the Contract Documents and all facilities constructed in accordance

therewith will meet all applicable requirements for later obtaining the necessary permits and approvals for the Project.

The CONSULTANT will prepare scaled planning stage schematic drawings that clearly depict the limits of construction, airport operations during and after Project completion, general utilities, drainage, environmental impact if any, required surveying and subsurface investigations and probable construction costs. The Schematic Design Concepts will be presented in exhibit form to DOA and other interested Agencies and Authorities. A detailed Schematic Design Narrative Report documenting all of the Schematic Sub-Phase findings and recommendations will be submitted to DOA for review and approval. As a part of this Sub-Phase, the CONSULTANT will prepare the following:

- A) **Construction Schedule**
A conceptual Project Construction Schedule will be submitted in an approved format and will consist of a preliminary schedule showing the proposed probable completion date of each Phase and Sub-Phase for the Project through Design Development, 60%, 90% and 100% Contract Documents, Bid Documents, Bidding of Work, performance of the Work by the Contractor and final acceptance of the Work by the COUNTY.
- B) **Schematic Design Studies**
These Schematic Design Studies should be preliminary in nature and scope, be further defined, and amplifying details will be developed by the CONSULTANT during subsequent phases of the Project design.
- C) **Grading, Paving, Drainage, and Utilities (if applicable)**
The CONSULTANT will prepare Plan(s) showing pavement and drainage layout(s) with direction of storm water flows to each ponding area and/or inlet. The Schematic Design Narrative Report will provide paving, grading, drainage, and utilities calculations in sufficient detail to give assurance that the Project can be used under the approved design aircraft/service vehicle loadings and design storm conditions.
- D) **Maintenance of Traffic (MOT) and Safety Plans (if applicable)**
The CONSULTANT will prepare conceptual construction MOT and Airside Operations Area (AOA) Security and Safety Plan(s) in sufficient detail to show how construction can be accomplished while meeting DOA Airside or Landside Operational Constraints. The Security and Safety Plan(s) will delineate the nature, extent and location(s) of site access and haul routes and depict all required barricading, signing, marking and safety lighting required for the Project. The Security and Safety Plans will meet FAA Advisory Circular AC 150/5370-2G, current edition criteria for “Operational Safety on Airports during Construction.”
- E) **Work Staging**
The CONSULTANT will develop a conceptual Work Staging Plan, which minimizes and avoids adverse impacts to existing Airside Airline Operations. The CONSULTANT will advise the COUNTY Representative, in writing, of any potential adverse impacts and any estimated increase in Project costs and/or any time extension effect that would result from such a Work Staging Plan. If identified in the Scope of Services, a series of alternative Work Staging Plan(s) may be developed by the CONSULTANT with associated cost and time extension and also be submitted to the COUNTY Representative, along with an analysis of pertinent factors and relative merits of each Plan, even if such alternative Plan(s) would

adversely impact Airside or Landside Airline Operations. The decision as to which Work Staging Plan to issue will be made by the COUNTY, and the CONSULTANT will be informed of such decision in writing by the COUNTY Representative.

- F) Preliminary Outline Specifications
The CONSULTANT will prepare preliminary Outline Specifications, which will describe the technical requirements of all construction work being proposed for the Project, all of which will be considerations in developing the Project Budget Costs during the subsequent Design Development Phase.
- G) Phase Submittal Requirements
The CONSULTANT will submit four (4) copies of the Schematic Design Narrative Report required under this Phase for review and approval by the COUNTY. The CONSULTANT will not proceed with the following "Phase 2 - Design Development" until the Schematic Design has been reviewed and approved by the COUNTY Representative, the interested Department of Airports Divisions, the affected Airlines and other airport Users; and written approval with appropriate comments are received from the COUNTY and approval has been issued to the CONSULTANT by the COUNTY Representative.

PHASE 2 - DESIGN DEVELOPMENT (30% DESIGN)

Following Schematic Design approval and upon receipt of the COUNTY Representative's written authorization to initiate Phase 2, the CONSULTANT will prepare Design Development Documents from the approved Schematic Design Documents which clearly define the engineering and/or architectural elements of the Project. Design Development may proceed concurrently with exploratory subsurface investigations and an engineering survey, if required.

- A) The Design Development Documents will consist of and further define:
1. All horizontal and critical elements of vertical geometry
 2. Limits of construction
 3. Clearing and demolition requirements
 4. Drainage systems
 5. Existing utilities
 6. Existing utility relocation
 7. Proposed utilities
 8. Typical grading, paving and drainage sections and details
 9. Schematic architectural layout
 10. Schematic floor plans and elevations
 11. Update construction schedule
 12. Outline specifications
 13. Other major engineering elements and architectural elements to the degree required to provide a complete understanding of the elements of the Design Project, the CONSULTANT's proposed design treatment of these elements and the development of probable Project Budget Costs for construction.
- B) The Plans to be provided for the Design Development review submittal will include, but are not limited to:
1. Cover Sheet
 2. Project Area Plan

3. Project Key Sheet
4. Site Location Plan
5. Typical Sections
6. Preliminary Paving and Geometry Plans
7. Preliminary Grading and Drainage Plans
8. Preliminary Site Utility Plans (Existing, Relocated and Proposed)
9. Airfield Lighting, Roadway Lighting and Apron Lighting Plans, if applicable
10. Architectural Plans (Concept)
11. Landscape Concept(s)
12. Typical Details for Pavements, Pavement Markings, Signage, Drainage, Utilities and other Miscellaneous Details

Design Development Layout and Location Plans should be the same scale as intended for the Construction Documents set. Plans should be sufficiently detailed to convey the CONSULTANT'S design intentions and to confirm the feasibility of space arrangements. Profiles, grading contours (initially only, show spot elevations), precise dimensioning and specific detailing may be omitted in this Phase.

The CONSULTANT will prepare and submit an Engineer's Design Report covering all findings and recommendations developed throughout the Design Development Phase including an updated Construction Schedule and estimate of probable Project Budget Costs for Construction.

The CONSULTANT jointly with the COUNTY Representative, to the extent applicable based on changes and/or modifications affected during the Design Development Phase will review pertinent Documents with the Agencies and Authorities previously consulted in Phase 1B having permitting or other approval Authority with respect to the Project, in order to obtain any changes in the comments and judgment of such agencies. Any further changes and/or modifications that were jointly agreed upon must be addressed by the CONSULTANT and the necessary inclusions made to the Contract Documents in Phase 2, as applicable.

The CONSULTANT will submit four (4) copies of all Documents required under this Phase 2 for review comments and approval by the COUNTY. The CONSULTANT will not proceed with the following Phase 3 - Contract Documents until the Design Development has been reviewed and approved by the COUNTY Representative; the interested Department of Airports Divisions; Air Transport Association (ATA.); the affected Airlines and other Airport Users; and written approval with appropriate comments is received from the COUNTY and approval has been issued to initiate the Contract Documents 60% Submittal Phase.

PHASE 3 - CONTRACT DOCUMENTS

Following Design Development approval and upon receipt from the COUNTY Representative of written authorization to initiate Phase 3A, the CONSULTANT will develop 60% Complete Contract Documents from the approved Design Development Documents. The COUNTY and the CONSULTANT will mutually agree upon the content to be provided in these documents.

PHASE 3A - 60% SUBMITTAL

The 60% Complete Contract Documents should include, but are not limited to:

1. Sections and Details

2. Survey Control Plan, including Horizontal Control Points and Vertical
1. Benchmarks
2. Layout Plan(s) with specific dimensions
3. Details and Sections of miscellaneous items
4. Grading, Paving, Drainage and Site Utilities Plans
5. Schedule/Phasing Plans
6. Lighting Plans (Airfield and/or Apron and Roadway)
7. Preliminary MOT and Safety Plans
8. Draft Engineer's Report (FAA-AIP Projects)
9. 60% Building Plans (Architectural, Structural, Mechanical & Electrical)
10. Draft Technical Specifications
11. Preliminary Project Construction Cost Estimate
12. Define Quality Assurance and Quality Control Procedures

This submittal will include a Preliminary Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Probable Project Construction Budget Cost Estimates.

The CONSULTANT will submit four (4) copies of all Contract Documents required under this Phase 3A for review comments and approval by the COUNTY. The CONSULTANT will not proceed with Phase 3B until the 60% Complete Contract Documents have been reviewed and approved by the COUNTY Representative, the interested Department of Airports Divisions, and written approval is received from the COUNTY.

PHASE 3B - 90% SUBMITTAL

The 90% Complete Contract Documents should include, but are not limited to:

1. Pre-Final Plans from previous submittal(s), as applicable
2. Complete Sections and Details
3. Complete Plans and Details showing all dimensions and miscellaneous items
4. Pre-Final Grading, Paving, Drainage and Utilities Plans
5. Pre-Final Lighting Plans (Airfield and/or Apron and Roadway)
6. Pre-Final MOT and Safety Plans
7. Complete Documents ready for Bidding and Permitting
8. Complete Contract Specifications ready to be printed for issuance to Bidders
9. Pre-Final Project CONSULTANT'S Cost Estimate
10. Completed Construction Schedule
11. Pre-Final Engineer's Report (FAA -AIP Projects)

This submittal will include a 90% Cost Estimate for construction and an estimate of the probable Construction Schedule, and any changes in the size and scope of the Project, if such changes substantially alter the amount of previous Probable Project Construction Budget Cost Estimates.

The CONSULTANT will submit four (4) copies of all Contract Documents required under this Phase 3B for review comments and approval by the COUNTY. The CONSULTANT will not proceed with Phase 3C until the 90% Complete Contract Documents have been reviewed and approved by the

COUNTY Representative, the interested Department of Airports Divisions, and written approval is received from the COUNTY.

PHASE 3C - 100% SUBMITTAL

Following the 90% Complete Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by COUNTY, Permit Agencies, or other authorized reviewers, as directed by COUNTY.

If any further change(s) in the size and scope of the Project has occurred, which will substantially alter the amount of previous Construction Cost Estimates, then such changes should be addressed in a written report prepared by the CONSULTANT to the COUNTY Representative.

The CONSULTANT will provide signed and sealed plans for the COUNTY to use to file for a building permit at the earliest practicable time during the performance of the Design Services, provide the necessary portions of the Contract Documents for approval by COUNTY, State and/or Federal Authorities having jurisdiction over the project by law or contract with the COUNTY, and assist in obtaining any such applicable certifications of "permit approval" by such authorities prior to approval by the COUNTY of the Phase 3C 100% Complete Review set submittal and printing of the Contract Documents. The CONSULTANT will incorporate all dates into the Advertisement and Instructions to Bidders, DBE and SBE requirements, FAA labor provisions (on AIP Projects), etc. filled in and Contract Documents ready to be printed and issued to prospective Bidders.

The CONSULTANT will recommend and justify to COUNTY any Allowance Account amounts to be incorporated into the Contract Documents.

In providing opinions of probable construction costs, the COUNTY 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 to the accuracy of such opinions as compared to bid or actual costs.

PHASE 4 - BIDDING AND AWARD OF CONTRACT

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the COUNTY in advertising for and obtaining bids for each separate prime contract for construction, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, and receive and process deposits for Bidding Documents; assist the COUNTY in conducting a pre-bid conference for each separate prime contract to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret, clarify or expand the Bidding Documents; print and distribute sets of Bidding Documents to Prospective Bidders and plan offices (McGraw-Hill Dodge, Construction Journal, Reed Construction Data, and iSqFt Plan Room) during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist COUNTY in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

PHASE 5 - CONSTRUCTION ADMINISTRATION

Construction Administration Services will generally be authorized by the Task Authorization, which included the design efforts for a particular project, although these services could be authorized in a separate Task Authorization depending upon the specific project. The CONSULTANT will provide professional services during construction to assist in obtaining a complete project. Basic Services will consist of the following:

1. Participate in preconstruction conference and assist with the preparation of a contract between the COUNTY and the successful bidder; Prepare four (4) sets of conformed contract plans and documents for submittal to the successful bidder for Contract execution; Prepare four (4) sets of conformed contract plans and documents for construction use by the successful bidder;
2. The CONSULTANT will make periodic 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. The CONSULTANT will make periodic written reports to the COUNTY representative to advise of any deviation from the contract documents or the contractor's construction schedule observed by or brought to the attention of the CONSULTANT. Such reports will be submitted in a timely manner so as not to cause delay in the progress of the work. In performing these services, the personnel provided by the CONSULTANT will be under the supervision of a registered professional engineer and/or architect. The CONSULTANT will provide personnel experienced in the administration of construction contracts. Supporting personnel will be provided from the project design team when specialized knowledge of the project design is required. On the basis of its on-site observations, the CONSULTANT will keep the COUNTY representative informed as to the progress and quality of the work and will endeavor to protect the COUNTY against defects and deficiencies in the work of the construction contractors, but the CONSULTANT will not have control or charge of and will not be responsible for construction means, methods, techniques, sequences or procedures or for the safety precautions and programs in connection with the project construction, for the acts or omissions of the contractor, subcontractors, any of their agents or the subcontractor's employees, or any other person performing any of the work or for the failure of such persons to carry out the work in accordance with the contract

documents; provided however, that the CONSULTANT will not be relieved from its obligation to notify the COUNTY representative of any such act, omission or failure on the part of the construction contractor observed by the CONSULTANT during on-site visits;

3. Review and approve or take other appropriate action upon the shop drawings, samples, and other submissions furnished by the contractor and submitted to the CONSULTANT. The CONSULTANT will determine if the shop drawings, samples and other submissions reasonably conform to the design concept of the project and the requirements of the contract documents. Such action(s) will be taken with reasonable promptness so that the progress of the construction of the project will not be delayed. The CONSULTANT will maintain a log of all contractor submittals which will include the submittal date, the action taken, and the date returned;
4. Prepare routine change orders as required; act as interpreter of the terms and conditions of the contract documents and judge of the performance thereunder by the parties thereto and make decisions on claims of COUNTY and contractor(s) relating to the execution and progress of the work and other matters and questions related thereto; but CONSULTANT will not be liable for the results of any such interpretation or decisions rendered by it in good faith,
5. Review laboratory, shop, and mill tests of material and equipment and report to the COUNTY representative, in writing, on such matters;
6. Provide design clarifications and recommendations to assist the COUNTY representative in resolving field problems relating to the construction;
7. Evaluate contractor change and cost proposals and substitutions and recommend to the COUNTY representative to either approve or disapprove the contractor's proposal or substitution;
8. Review contractor(s) monthly applications for payment and supporting data, review the amount owing to contractor(s) and approve in writing all payments to contractor(s) in accordance with the contract documents;
9. Perform, together with the COUNTY'S representative, inspections of the construction site to determine if the project is substantially complete and a final inspection to determine if the project has been completed in accordance with the contract documents and if each contractor has fulfilled all of its obligations thereunder so that CONSULTANT may approve if applicable in writing, final payment to each contractor;
10. The CONSULTANT will assist the COUNTY'S representative in receiving and forwarding to the COUNTY written warranties and related documents assembled by the contractors; and
11. Provide one set of reproducible drawings and CADD files "record drawings," which shall become the property of the COUNTY, corrected to show significant changes made in the work during the construction of the project. Such corrections shall be based upon "as-built" prints, drawings, field sketches and other data furnished to the CONSULTANT by the COUNTY and the contractor, upon change orders issued during construction.

In the event that the COUNTY and the CONSULTANT deem it advisable that all resident construction inspection services on the site, during the project construction, be provided by the CONSULTANT, a Task Authorization which specifies the services will be negotiated and approved.

To avoid misunderstandings or questions, the CONSULTANT understands and agrees that the COUNTY shall have the responsibility for the general administration of the construction contract. Accordingly, the CONSULTANT will not have the authority or responsibility to issue direct instructions to the contractor, to reject work done by the contractor, or to require special inspections and/or tests. The CONSULTANT, however, will provide continuing counsel to the COUNTY representative throughout the construction of the project.

Special Services

Special Services will be authorized in writing by the COUNTY Representative, describing the scope and fee for the services prior to beginning. Special Services cannot be included as Basic Services because their need or exact scope cannot be fully established until underway. Each Task Authorization will estimate the need and scope of Special Services and will authorize additional funding to be approved by the COUNTY Representative should additional services be required.

Special Services during Phases 1, 2, 3, and 4 may be, but are not limited to, a selection(s) from the following:

1. Perform or obtain the services of a Subcontractor to perform subsurface investigations, including performance of test borings, soil samples, and other foundation investigations, laboratory analyses of the samples, and engineering analyses not anticipated as Basic Services. The CONSULTANT or the subcontractor will prepare a detailed report of all findings and the CONSULTANT will deliver to the COUNTY Representative two (2) copies of the report;
2. Perform or obtain the services of a Registered Professional Surveyor subcontractor to perform field surveys and investigations in order to establish or verify boundaries and monuments, perform topographic surveys, perform route surveys, prepare property or easement descriptions, perform associated office work under the directions of a Registered Professional Surveyor, and deliver to the COUNTY Representative a mylar of all final plats, with field notes, in bound standard-size filed books, or in such other form as approved by the COUNTY;
3. Make revisions to drawings, specifications, or other documents when such revisions are inconsistent with approvals or instructions previously given by the COUNTY Representative;
4. Perform or obtain the services of a specialized subcontractor to perform aerial photography and computer mapping;
5. Travel to points outside the COUNTY if such travel is reasonably necessary to accomplish a task;
6. Prepare special studies and reports, such as environmental documents (including representation and testimony at hearings and community meetings), grant applications, etc.;
7. Provide the services of an independent cost estimator (as a subcontractor) to make a comprehensive cost estimate for the project in a form satisfactory to the COUNTY (which independent cost estimate will be in addition to the cost estimates prepared by the CONSULTANT);

8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner (including the making of record prints of drawings, etc.);
9. Assist the COUNTY representative in securing any special licenses or permits (Water Management District, DER, etc.) which may be required for the completion of the project, it being understood by the parties that the fees for said special licenses and permits will be paid by the COUNTY.
10. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproductions for the office use of the CONSULTANT and the CONSULTANT'S subconsultants;
11. Provide a scale model of the project when requested by the COUNTY,
12. Provide any other additional services related to the project not otherwise included in the Basic Services or other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

Special Services may also be requested for the Phase 5 construction phase. These services may include, but are not limited to:

1. Consult with the COUNTY concerning replacement of any construction work damaged by fire or any other causes and furnish professional services as may be required in connection with the replacement of such work;
2. Assist the COUNTY in making arrangements for the work to proceed in the event that the construction contractor is declared in default by the COUNTY for any reason;
3. Assist the COUNTY as expert witnesses and/or factual witnesses in any legal proceedings or litigation arising from the development, permitting or construction of the project. The witnesses will be designated by and at the sole discretion of the COUNTY Attorney;
4. Travel to points outside the COUNTY if such travel is reasonably necessary to accomplish a task;
5. Prepare special studies and reports, such as environmental documents (including representation and testimony at hearings and community meetings), grant applications, etc.;
6. Reproduce plans, specifications, reports, and other materials other than those reproductions included in the Basic Services and excluding reproductions for the office use of the CONSULTANT and the CONSULTANT'S subconsultants;
7. Provide the services of an independent cost estimator (as a subcontractor) to make a comprehensive cost estimate for the project in a form satisfactory to the COUNTY (which independent cost estimate will be in addition to the cost estimates prepared by the CONSULTANT);
8. Provide, in the event of termination, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner (including the making of record prints of drawings, etc.);
9. Provide, in the event the project construction exceeds the time stated in the project contract documents, the continuing services required to be done by the CONSULTANT during construction of the project;

10. Provide any other services related to the project not otherwise included in the Basic Services or other Special Services and not customarily furnished in accordance with generally accepted architectural and engineering practice.

LEVEL II TASKS - ANNUAL SERVICES

Annual Services are those that the COUNTY requires performed on a recurring annual basis. They shall be described in detail within each Task Authorization, but shall consist of:

1. Automated Project Management.
2. Land Acquisitions.
3. Annual airports facility inspections and reporting.
4. Airports pavement analysis.
5. Annual update of COUNTY'S Capital Improvement Program.
6. Annual update and negotiation of FAA and FDOT grant programs.
7. Annual preparation of FAA AIP grant preapplication and application forms.
8. Annual preparation of FDOT Joint Participation Agreements.
9. Participation in FAA Joint Planning Conferences.
10. Participation in CFASPP meetings.
11. Other duties as requested by the COUNTY and agreed to by the CONSULTANT.

LEVEL III TASKS - MISCELLANEOUS SERVICES

If authorized in writing by COUNTY and agreed to in writing by CONSULTANT, CONSULTANT will furnish or obtain from subconsultant or subcontractor additional services of the service types below which are not defined as "Basic" Planning, Design and Construction (Task I), or "Annual Services" (Task II). Each Task Authorization shall describe the exact scope of services to be performed.

1. Staff Extension Services for Planning, Design, Construction and Administration.
2. Micro-Level Planning Studies including:
 - a. Environmental
 - b. Site Planning
 - c. Aviation Planning
 - d. NAVAID Studies
 - e. Aviation Business Development
 - f. Airside
 - g. Landside
 - h. Terminal
 - i. Conceptual Planning
 - j. Feasibility Studies
 - k. Review and Analysis of Proposed Improvements
 - l. Miscellaneous Planning Studies
3. Design Services including:
 - a. Architectural
 - b. Structural
 - c. Mechanical
 - d. Electrical

- e. Civil
 - f. Landscaping
 - g. Interiors
 - h. Miscellaneous
4. Environmental services including:
 - Environmental Audits
 - Compliance Actions
 - Regulatory Review
 - Monitoring
 5. Technical Reviews
 6. Value Engineering
 7. Specific Grant Services including:
 - Preparation of FAA AIP grant preapplications and applications
 - Preparation of FDOT Joint Participation Agreements
 - Assist COUNTY in negotiations with FAA or FDOT
 8. Financial Consultation, including:
 - Consult with COUNTY' fiscal agents and bond attorneys
 - Provide necessary engineering data
 - Provide financial analyses
 9. Property Procurement Assistance:
 - Determine land and easement requirements and provide consultation and assistance on property procurement as relates to professional engineering services being performed.
 10. Administrative Assistance:
 - Provide Contract and Project Administration Services to the COUNTY as authorized. These may include scope definitions, proposals for additional projects, scheduling, weekly coordination, including Tasks I, II, and III.
 11. Obtaining Services for Others:
 - Provide subconsultant services to the COUNTY from approved subconsultants as authorized.
 12. Furnish renderings or models of projects, when requested and authorized, for the COUNTY'S use.
 13. Miscellaneous Studies:
 - Investigations involving detailed consideration of operations, maintenance and overhead expenses, and the preparation of rate schedules, earnings and expense statements; feasibility studies; appraisals and valuations; detailed quantity surveys of material, equipment and labor; and audits or inventories required in connection with construction performed by the COUNTY.
 14. Extraordinary Construction-Related Services, including:
 - Additional or extended services during construction made necessary by (1) work damaged by fire or other cause during construction, (2) a significant amount of defective or neglected work on any contract, (3) prolongation of the construction contract time of any prime construction contract by more than 60 days, (4) acceleration of the work schedule involving services beyond normal working hours, and (5) default by Contractor under any prime construction contract.

- Consultation or other services after completion of the Construction Phase, such as frequent inspections during any guarantee period and reporting observed discrepancies under guarantees called for in any construction contract.
 - Preparing to serve or serving as a witness for the COUNTY in any litigation or other proceeding involving project.
15. Preparation of an operating manual for use by the COUNTY.
16. Extra Services:
- Services not specifically defined heretofore that may be authorized by the COUNTY.
17. Resident Services During Construction.
- If requested by the COUNTY or recommended by the CONSULTANT and agreed to in writing by the other party, a Resident Project Representative and assistants will be furnished and shall act as directed by CONSULTANT in order to provide more extensive representation at the Project site during the Construction Phase. The Resident Project Representative, through more extensive on-site observations of the work in progress, field checks of materials and equipment, and maintenance of job site records on conditions and activities, will assist the CONSULTANT in determining that the Project is proceeding in accordance with the Contract Documents, but the furnishings of such resident project representation shall not make the CONSULTANT responsible for construction means, methods, techniques, sequences or procedures or for safety precautions or programs, or for Contractor's failure to perform the construction work in accordance with the Contract Documents.
18. Assist the COUNTY with Aviation Capital Improvements Program.
19. Assist the COUNTY with DBE program.
- DBE Training
20. Provide FAA-required "third-party review" of professional service contracts.
21. Miscellaneous Services. Miscellaneous services to be provided shall include, but not be limited to, the following:
- a. Certify compliance with financial covenants
 - b. Prepare scope of work packages including preliminary designs (35 percent complete) for preparation of final designs by others
 - c. Develop and implement Project Information Management Systems
 - d. Develop, implement and maintain Facilities Management Information Systems
 - e. Inventory existing facilities, update changes, maintain current computer program for use of facilities
 - f. Monitor and update lease exhibits as required
 - g. Prepare land acquisition engineering analyses, soils investigations, legal descriptions and surveys
 - h. Participate in compatible land-use planning in the vicinity of airports
 - i. Develop forecasts of facilities requirements
 - j. Participate in public information programs and/or public hearings relating to airport planning/development projects
 - k. Evaluate reliever airport needs and commercial development plans
 - l. Develop and monitor airport development schedules, budgets and cost estimates for the Capital Improvements Program
 - m. Monitor project costs associated with bond programs/interim financing programs

- n. Coordinate interfaces between multiple contractors/designers work
 - o. Maintain and update CADD-based Airport Layout Plans
 - p. Maintain CADD-based Exhibit "A" Property Maps
 - q. Review technical studies for compliance with COUNTY objectives and prepare technical studies upon request
 - r. Coordinate land use development plans
 - s. Ensure that FAA Form 7460, Notice of Intent to Construct, is submitted on timely basis for all proposed construction
 - t. Monitor projects to assure compliance with "Assurances" relating to federal and state grant covenants
 - u. Evaluate technical operations and maintenance problems with existing facilities
 - v. Schedule cash-flow requirements and participate in economic analyses
 - w. Assist in preparation of PFC applications
 - x. Maintain and implement SIMMOD computer model and database
 - y. Anticipate planning needs and initiate planning efforts in a timely manner, evaluate existing facility utilization and recommend changes for increased efficiencies
 - z. Maintain and update utilities atlas
 - aa. Monitor and maintain ground and aerial surveys
 - bb. Monitor and maintain public information signage
 - cc. Prepare videotape presentations
 - dd. Other duties as requested by COUNTY and agreed to by CONSULTANT
22. Miscellaneous IT Support Services
23. Appraisal and Valuation Services, including, but not limited to, property appraisals, leasehold valuation, equipment/improvement valuation, market assessments, market rent studies, feasibility analysis, and rate analysis and related consulting services.

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-1

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI) Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation

OVERVIEW

The Palm Beach DOA Department of Airports (DOA) has requested AECOM Technical Services, Inc. (CONSULTANT) provide Professional Engineering Services associated with Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation Project (Project) at Palm Beach International Airport (PBI). The project consists of the rehabilitation of Taxiway R and Taxiway connectors R2, R3, and R4 and includes the removal of the direct access from the Southwest General Aviation Apron to Runway 10R-28L at Taxiway connectors R3 and R4. The work will include the necessary pavement rehabilitation, electrical modifications, and drainage improvements and/or South Florida Water Management District (SFWMD) permitting to align with the Taxiway R Rehabilitation. See Figure 1 below showing the limits of work and rehabilitation.

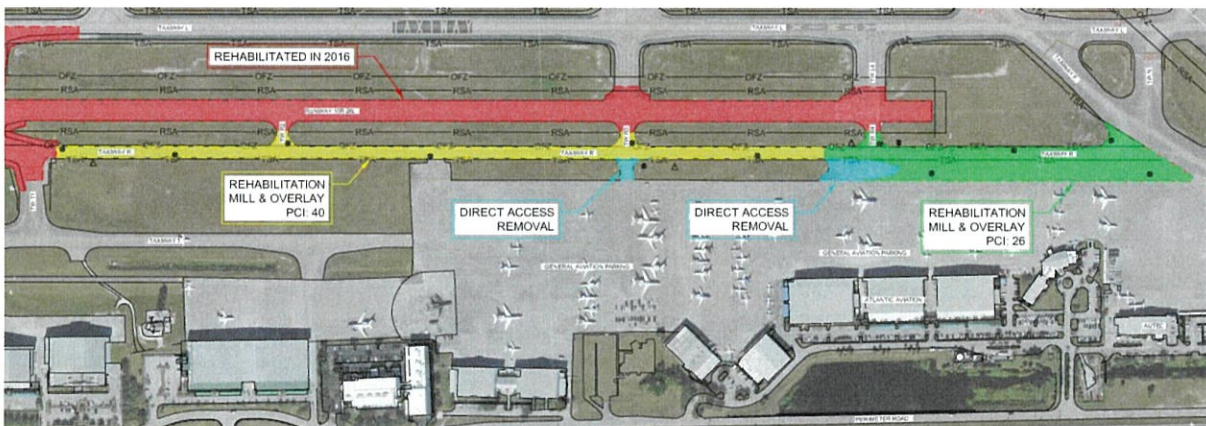


Figure 1: Taxiway R Rehabilitation Limits

The CONSULTANT will prepare Construction Documents (CDs) for design and bidding services of the Project. The rehabilitation of Taxiway R shall be in accordance with Federal Aviation Administration (FAA), Florida Department of Transportation (FDOT), and SFWMD requirements. The project geometric design and layout will be based on FAA AC 150/5300-13B Airport Design Standards. Construction specifications will be based on FAA AC 150/5370-10H, Standards for Specifying Construction of Airports and applicable FDOT Design Standards. The Construction Safety and Phasing Plan (CSPP)

This initial Work Program #1, as described herein, consists of nine tasks. As summarized below, these initial efforts have an overall budget of \$2,126,629.78.

LEVEL 1 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|--|------------------------|
| Task I-23-PBI-A-001 | PBI Taxiway R Rehabilitation | \$ 278,100.88 |
| Task I-23-PBI-A-002 | PBI Cargo Ramp Expansion | \$ 637,805.70 |
| Task I-23-DOA-A-003 | Miscellaneous Planning & Engineering Services 2023 | \$ 49,735.00 |
| Task I-23-PBI-A-004 | PBI Roof Replacement Resident Inspection Services | \$ 46,272.40 |
| Task I-23-PBI-A-005 | PBI Garage Repairs Threshold Inspection Services | \$ 83,152.96 |
| Task I-23-LNA-A-006 | LNA Phases 3 and 4 | \$ 633,327.84 |
| Task I-23-PBI-A-007 | PBI Wind Cone Relocation and Replacement (CM/CA/RPR) | \$ 48,194.00 |
| Task I-23-PBI-A-008 | PBI Repackage/Bid Garage Repairs | \$ 35,461.00 |
| Task I-23-PBI-A-009 | Landside Terminal Paging System Expansion | \$ 64,580.00 |
| Sub-total (Level 1) | | \$ 1,876,629.78 |

LEVEL 2 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|---|----------------|
| Task II-23-DOA-A-001 | Annual Environmental Compliance Monitoring, Inspection, and Training Services | \$ 0.00 |
| Sub-total (Level 2) | | \$ 0.00 |

LEVEL 3 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|--|----------------------|
| Task III-23-DOA-A-001 | Misc. AEP and Construction Consulting Services | \$ 250,000.00 |
| Task III-23-DOA-A-002 | Misc. Financial Consulting and Capital Programming | \$ 0.00 |
| Task III-23-DOA-A-003 | Misc. Environmental Consulting Services | \$ 0.00 |
| Sub-total (Level 3) | | \$ 250,000.00 |

| | |
|--------------------------------------|------------------------|
| Grand Total (Work Program #1) | \$ 2,126,629.78 |
|--------------------------------------|------------------------|

Exhibit B contains a series of tables that provide more detail associated with the establishment of the fees prescribed above.

will be prepared in compliance with FAA AC 150/5370-2G, Operational Safety on Airports During Construction.

In addition to the overall design of the Taxiway R Rehabilitation, the CONSULTANT will provide basic services including drainage design, construction phasing, survey, utility locations, and geotechnical engineering services. The CONSULTANT will prepare construction documents; and support the DOA during the bid and award services. A brief overview of pertinent tasks to be performed by the CONSULTANT for the Project include:

1. Attend One (1) DOA Design Kick-Off Meeting and prepare meeting minutes;
2. Coordinate One (1) Internal Design Team Kick-Off meeting;
3. Coordinate Data Collection, Records Research and Review of As-Built information;
4. Field Coordination Meetings (At beginning of survey and throughout geotechnical services);
5. Perform project site investigations: Existing Conditions Analysis for Pavement/Electrical/Drainage Systems, Topographic Survey, Utility Locations and Clearances, and Geotechnical Investigations;
6. Prepare PowerPoint Presentations, sketches and agenda for meetings (as applicable);
7. Validate Program Cost Estimate;
8. Facilitate Design Coordination meetings via conference calls and webinars;
9. Develop Construction Safety and Phasing Plans (CSPPs);
10. Prepare 60%, 90% and 100% Contract Documents, General Provisions, Technical Specifications, Drawings, Project Schedule, Engineer's Report, Cost Estimates, Submit Permitting Documents to SFWMD, Engineer's Report, and CSPP Report;
11. Attend Four (4) DOA Submittal Review Meetings. Prepare meeting agenda and meeting minutes (60%, 90%, and 100% Contract Documents);
12. Task Management/Task Administration – Coordination with DOA, FAA, DOA Operations, Permitting Agencies (if applicable), Subconsultants, and other stakeholders;
13. Provide Quality Assurance for all deliverables;
14. Prepare and Assemble Final Bid Documents: Project Manual, Technical Specifications and Drawings;
15. Assist DOA in Advertisement and Bidding of Task – Issue Addenda, attend Pre-bid conference, prepare meeting minutes, coordinate a site visit, and answer contractor questions;
16. Evaluate Bids and Prepare Bid Recommendations Award Letter and Bid Tabulations;
17. Task Management;
18. Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Other Consultants, and other interested project stakeholders); and,
19. Construction Administration Services and Resident Project Representative Services will not be included in this task authorization.

Project Team

The Project Team for Basic Services and Special Services, and the respective type of services to be provided by the Team are shown below:

| Firm Name (CONSULTANT/SUBCONSULTANT) | Type of Services |
|---|--|
| AECOM Technical Services, Inc. (AECOM) (CONSULTANT) | Project Management; Civil and Drainage Design/Permitting |
| Brown and Phillips (B&P) (SUBCONSULTANT) | Topographic Survey / Utility Locates |
| Quantum Electrical Engineering (QEE) (SUBCONSULTANT) | Electrical Engineering |
| Tierra South Florida (TSF) (SUBCONSULTANT) | Geotechnical Investigations |

SCOPE OF SERVICES

Our scope of services will follow two distinct phases: Phases 1 and 2. Phase 1 consists of three (3) design subphases: sixty percent (60%) design completion of the Contract Documents (Phase 1A); ninety percent (90%) design completion (Phase 1B); and final design completion (100%) of Bid Documents (Phase 1C). Phase 2 consists of Bidding and Award of Contract requirements.

A brief definition for each of the Phases included in the scope of services is provided below:

PHASE 1A -CONSULTANT will develop the Contract Documents to a predetermined completion milestone (60% of completion). CONSULTANT will develop the Program Costs and prepare Schedule/Phasing Plans.

PHASE 1B -CONSULTANT will develop the Contract Documents to 90% completion to allow the Project to be reviewed and preliminarily submitted for applicable permitting agencies. CONSULTANT will update Program Costs, Schedule and Phasing Plans.

PHASE 1C -CONSULTANT will complete the Contract Documents to 100% completion to allow the Project to be permitted, bid, and constructed. CONSULTANT will prepare the Final Program Cost Estimate, Schedule and Phasing Plans.

PHASE 2 - CONSULTANT will assist the DOA in obtaining Bids and in the Award of a Construction Contract, as required.

The following paragraphs summarize the CONSULTANT'S Basic Services for Phases 1 and 2:

1.0 PHASE 1A – 60% CONTRACT DOCUMENTS

The CONSULTANT will prepare a presentation/agenda for the Project's Kick Off meeting. All key stakeholders will be invited to this meeting: DOA/Airport Staff, CONSULTANT'S key staff; and Subconsultants. The Kick-Off meeting's discussion items will include: stakeholder identifications, project limits, safety and operational impacts, permitting, design services, design standards, schedule, budget and construction constraints. The CONSULTANT will prepare and distribute the meeting minutes which will highlight outstanding action items and meeting details. Immediately following the Kick-Off Meeting, field investigative services associated with the survey and geotechnical services will begin. All airfield investigative services will be coordinated with DOA Operations prior to beginning work.

The CONSULTANT will prepare the following as a part of Phase 1A:

1.1. Documents Data Collection and Records Research

The Consultant will review existing DOA designs, as-builts, record drawings, and information regarding the proposed Project components and gather information for use during subsequent design phases. All pertinent record documents associated with Taxiway R and adjacent areas will be obtained from the DOA records database.

1.2. Field Investigative Services and Design Development

1.2.1 Site Evaluation

The AECOM Team will perform two site visits to evaluate the existing conditions and collect data. This includes at the beginning of the topographic survey and throughout the geotechnical investigations. The AECOM Team will evaluate the existing condition of the pavement, lighting, drainage infrastructure, and any other above ground infrastructure within the project limits.

1.2.2 Topographic Survey and Utility Locates

B&P will perform the surveying services for this task. The major components of the survey are the development of a topographic survey within the area shown on **Attachment B** of the attached B&P detailed scope and fee. The topographic survey will obtain data including: pavement, utilities, and drainage structures. The points on paved surfaces will be taken at a 25' x 25' grid, the off-pavement data will be collected on a 50' x 50' grid, with all grade breaks or other visible surface anomalies picked up. B&P will also perform utility clearances for the geotechnical data collection. See the attached B&P scope and fee for a more detailed description of the B&P services.

1.2.3 Geotechnical/subsurface investigations

TSF will perform the geotechnical/subsurface investigations services for this contract, specifically tailored to the rehabilitation of Taxiway R. The major components of the geotechnical/subsurface investigations services include the following items:

- Perform two (2) SPT borings to a depth of 10 feet to determine the existing subsurface conditions;
- Perform three (3) California bearing ratio (CBR) tests;
- Perform eleven (11) asphalt pavement cores, to identify existing asphalt pavement thickness and base depth.

1.2.4 Pavement Condition Evaluation

AECOM will review the full-strength taxiway pavement condition within the project limits. This analysis will include an onsite pavement condition evaluation and review of the latest PBI Airfield Pavement Management System Study, for comparison with our findings. Based on this evaluation, we will determine the final location of the geotechnical data acquisition.

1.2.5 Geometry

AECOM will evaluate the existing Taxiway R geometry, including the connectors for geometric conformance to the latest FAA Standards, utilizing the Design Aircraft as shown in the latest PBI ALP. Any recommended or proposed changes will be coordinated with PBI, prior to moving forward. In addition, the two direct access points from the southwest general aviation ramp to Runway 10R-28L will be removed as part of this rehabilitation project to conform with the latest FAA safety standards.

1.2.6 Airfield Electrical

QEE will perform electrical design services for this contract. The scope of work will include new airfield lighting and signage for the rehabilitation of Taxiway R, including taxiway connectors Taxiway R2, R3, and R4. This includes the removal of the Taxiway R3 and R4 connectors between Taxiway R and the Southwest Cargo Ramp and updating the ALCMS Graphics.

1.2.7 Grading and Drainage Design/Permitting

AECOM will prepare the pavement grading and drainage plans in accordance with the latest FAA standards. The existing drainage system will be examined and evaluated for conformance with the standards. Additionally, any modification or additions/reductions to the system, based on the proposed geometry will be evaluated to ensure that there are no negative hydraulic impacts to the adjacent system. A permit modification is anticipated and will be obtained through the SFWMD to incorporate any changes to the contributing impervious area based on geometry revisions.

1.3. The **60% Plans** will include, but are not limited to:

1. Cover Sheet (60%).
2. Drawings Index (60%).
3. Summary of Quantities/General Notes (60%).
4. Safety and Security Plan (60%).
5. Staging and Haul Route Plan (60%).
6. Overall Phasing Plan (60%).
7. Phasing Plans, Details and Maintenance of Traffic (60%).
8. Survey Control Plan (60%).
9. Existing Conditions Plan (60%).
10. Demolition Plan (60%).
11. Grading and Drainage Plans (60%).
12. Geometry Plans (60%).
13. Marking Plans (60%).
14. Marking Details (60%).
15. Stormwater Pollution Prevention Plans (60%).
16. Stormwater Pollution Prevention Notes and Details (60%).
17. Drainage Details (60%).
18. Miscellaneous Details (60%).
19. Cross Section Layout Plan (60%).
20. Electrical Demolition Plans (60%).
21. Electrical Plans (60%).
22. Electrical Circuiting Plans (60%).
23. Airfield Sign Schedule (60%).
24. Misc. Electrical Details (60%).

The CONSULTANT will prepare and submit an Engineer's Design Report covering all findings and recommendations developed throughout the 60% Design Development Phase including a Construction Schedule and estimate of probable Project Program Costs thru Construction.

1.4. Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Design K.O. Meeting;
- b. Team Coordination Meetings;
- c. Regulatory permitting agencies meetings, as applicable; and
- d. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1A for review comments and approval by the DOA.

1.5. Deliverables

The CONSULTANT will deliver the following major Deliverables (pdf):

- a. K.O. Meeting Minutes;

- b. Topographic Survey;
- c. Geotechnical Report;
- d. Meeting minutes from all applicable meetings of this Phase;
- e. Regulatory permitting agencies documentation;
- f. 60% Drawings;
- g. 60% Technical Specifications;
- h. 60% Construction Safety and Phasing Plan;
- i. 60% Project Cost Estimates;
- j. 60% Project Schedule; and,
- k. 60% Engineer's Report containing Geotechnical Report.

1.6. Schedule

The anticipated duration of this phase is 60 calendar days.

2.0 PHASE 1B - 90% SUBMITTAL

Following the 60% Complete Contract Documents approval the CONSULTANT will develop 90% Complete Contract Documents from the approved 60% Complete Contract Documents. These 90% documents will consist of the information contained in the 60% documents, as well as incorporate any comments provided by the DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

2.1 The 90% Plans will include, but are not limited to:

- 1. Cover Sheet (90%).
- 2. Drawings Index (90%).
- 3. Summary of Quantities/General Notes (90%).
- 4. Safety and Security Plan (90%).
- 5. Staging and Haul Route Plan (90%).
- 6. Overall Phasing Plan (90%).
- 7. Phasing Plans, Details and Maintenance of Traffic (90%).
- 8. Survey Control Plan (90%).
- 9. Existing Conditions Plan (90%).
- 10. Demolition Plan (90%).
- 11. Grading and Drainage Plans (90%).
- 12. Geometry Plan (90%).
- 13. Marking Plans (90%).
- 14. Marking Details (90%).
- 15. Stormwater Pollution Prevention Plans (90%).
- 16. Stormwater Pollution Prevention Notes and Details (90%).
- 17. Drainage Details (90%).
- 18. Miscellaneous Details (90%).
- 19. Cross Section Layout Plan (90%).
- 20. Cross Sections Plans (90%).
- 21. Electrical Demolition Plans (90%).

22. Electrical Plans (90%).
23. Electrical Circuiting Plans (90%).
24. Airfield Sign Schedule (90%).
25. Misc. Electrical Details (90%).

2.2 **Meetings**

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Coordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,
- c. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1B for review comments and approval by the DOA.

2.3

Deliverables

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Response to DOA 60% Design review comments;
- c. Regulatory permitting agencies documentation;
- d. 90% Contract Drawings;
- e. 90% Project Manual - Technical Specifications, Front End and FAA General Provisions;
- f. Construction Safety and Phasing Plan;
- g. 90% Project Cost Estimates;
- h. 90% Project Schedule; and,
- i. 90% Engineer's Report.

2.4 **Schedule**

The anticipated duration of this phase is 45 calendar days.

3 **PHASE 1C - 100% SUBMITTAL**

Following the 90% Complete Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

3.1 The **100% Plans** will include, but are not limited to:

1. Cover Sheet (100%).
2. Drawings Index (100%).
3. Summary of Quantities/General Notes (100%).
4. Safety and Security Plan (100%).
5. Staging and Haul Route Plan (100%).

6. Overall Phasing Plan (100%).
7. Phasing Plans, Details and Maintenance of Traffic (100%).
8. Survey Control Plan (100%).
9. Existing Conditions Plan (100%).
10. Demolition Plan (100%).
11. Grading and Drainage Plans (100%).
12. Geometry Plans (100%).
13. Marking Plans (100%).
14. Marking Details (100%).
15. Stormwater Pollution Prevention Plans (100%).
16. Stormwater Pollution Prevention Notes and Details (100%).
17. Drainage Details (100%).
18. Miscellaneous Details (100%).
19. Cross Section Layout Plan (100%).
20. Cross Sections (100%).
21. Electrical Demolition Plans (100%).
22. Electrical Plans 100%.
23. Electrical Circuiting Plans (100%).
24. Airfield Sign Schedule (100%).
25. Misc. Electrical Details (100%).

In providing opinions of probable construction costs, the DOA 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 shall be on the basis of the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

3.2 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Co-ordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,
- c. One (1) DOA Review Submittal Meeting.

3.3 Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Response to DOA 90% Design review comments;
- c. Regulatory permitting agencies documentation;
- d. 100% Contract Drawings;
- e. 100% Project Manual - Technical Specifications, Front End and FAA General Provisions;
- f. Construction Safety and Phasing Plan;
- g. 100% Project Cost Estimates;
- h. 100% Project Schedule; and,
- i. 100% Engineer's Report.

3.4 Schedule

The anticipated duration of this phase is 30 calendar days.

4.0 PHASE 4 - BIDDING AND AWARD OF CONTRACT

Bid & Award Services

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid conference to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

5.1 Deliverables

- a. PDF copy of the Bid Documents
- b. Pre-Bid Conference Agenda and Meeting Minutes
- c. Addenda as required during the bid process
- e. Bid Tabulation
- f. Bid Recommendation Letter

5.1 Schedule

The anticipated duration of this phase is 45 calendar days.

Assumptions:

1. DOA will provide all record documents applicable to this task.
2. DOA will pay for all permitting costs.
3. Construction Administration and Resident Project Representative Services are not included in this scope of services. If requested, the CONSULTANT will perform Construction Administration and Resident Project Representative Services via a separate task order.
4. In providing opinions of probable construction costs, the DOA 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 shall be based on the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.
5. CONSULTANT shall not be responsible for the means, methods, techniques, and sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. The CONSULTANT shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation

| | | | | | | | | | | | | | | | | |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 340 | \$ | 236 | \$ | 270 | \$ | 201 | \$ | 215 | \$ | 128 | \$ | 129 | \$ | 96 |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | | Fee Estimate (\$) | | | | |
|--|------------------------|-------------|------------------------|-------------------------------|-----------------------------------|------------------|-----------|-----------|------------|-----------------|--------------|-------------------|--|--|--|--|
| | Principal | QC Reviewer | Senior Project Manager | Design / Construction Manager | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total | | | | |
| Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation | | | | | | | | | | | | | | | | |
| Phase 1A (60% CONSTRUCTION DOCUMENTS) | 0 | 16 | 24 | 82 | 78 | 206 | 26 | 12 | 444 | \$74,382 | \$750 | \$75,132 | | | | |
| Attend One (1) DOA Kick-Off Meeting, Agenda & Minutes | | | 1 | 2 | 2 | 2 | | | 7 | \$ 1,358 | - | \$ 1,358 | | | | |
| Internal Design Team Kick-Off Meeting | | | 1 | 1 | 2 | 2 | 2 | | 8 | \$ 1,415 | - | \$ 1,415 | | | | |
| Documents Data Collection and Records Research | | | | 2 | 2 | 4 | 4 | 2 | 14 | \$ 2,052 | - | \$ 2,052 | | | | |
| Field Coordination Meetings | | | | 2 | 2 | 8 | | | 12 | \$ 1,856 | - | \$ 1,856 | | | | |
| Site Visits/Evaluations | | | | 8 | 2 | 8 | | | 18 | \$ 3,062 | \$ 500 | \$ 3,562 | | | | |
| Cover Sheet (60%). | | | | 1 | 1 | 2 | | | 3 | \$ 471 | - | \$ 471 | | | | |
| Drawings Index (60%). | | | | 2 | 2 | 4 | | | 4 | \$ 686 | - | \$ 686 | | | | |
| Summary of Quantities/General Notes (60%). | | | | 2 | 1 | 4 | | | 7 | \$ 1,129 | - | \$ 1,129 | | | | |
| Safety and Security Plan (60%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | - | \$ 1,344 | | | | |
| Staging and Haul Route Plan (60%). | | | | 4 | 2 | 8 | | | 14 | \$ 2,258 | - | \$ 2,258 | | | | |
| Overall Phasing Plans (60%). | | | 2 | 2 | 2 | 4 | | | 10 | \$ 1,884 | - | \$ 1,884 | | | | |
| Individual Work Area Phasing Plans (90%). | | | 2 | 1 | 4 | 16 | | | 23 | \$ 3,649 | - | \$ 3,649 | | | | |
| Construction Phasing and Security Notes and Details (60%). | | | | 2 | 1 | 4 | | | 7 | \$ 1,129 | - | \$ 1,129 | | | | |
| Survey Control Plan (60%). | | | | 1 | 1 | 2 | | | 4 | \$ 672 | - | \$ 672 | | | | |
| Existing Conditions Plan (60%). | | | | 4 | 2 | 12 | | | 18 | \$ 2,770 | - | \$ 2,770 | | | | |
| Demolition Plan (60%). | | | | 2 | 1 | 4 | | | 7 | \$ 1,129 | - | \$ 1,129 | | | | |
| Grading and Profile Plans (60%). | | | 1 | 2 | 2 | 16 | | | 21 | \$ 3,150 | - | \$ 3,150 | | | | |
| Drainage Plans (60%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | - | \$ 1,344 | | | | |
| Geometry Plans (60%). | | | | 2 | 2 | 4 | 12 | | 20 | \$ 2,892 | - | \$ 2,892 | | | | |
| Marking Plans (60%). | | | | 2 | 2 | 16 | | | 20 | \$ 2,880 | - | \$ 2,880 | | | | |
| Stormwater Pollution Prevention Plans (60%). | | | | 2 | 2 | 4 | | | 6 | \$ 942 | - | \$ 942 | | | | |
| Stormwater Pollution Prevention Notes and Details (60%). | | | | 2 | 2 | 4 | | | 6 | \$ 942 | - | \$ 942 | | | | |
| Drainage Details (60%). | | | | 2 | 2 | 4 | | | 6 | \$ 942 | - | \$ 942 | | | | |
| Miscellaneous Details (60%). | | | | 2 | 2 | 8 | | | 12 | \$ 1,856 | - | \$ 1,856 | | | | |
| Cross Section Layout Plan (60%). | | | | 2 | 1 | 4 | | | 7 | \$ 1,129 | - | \$ 1,129 | | | | |
| Pavement Design | | | | 4 | 4 | 8 | | | 16 | \$ 2,688 | - | \$ 2,688 | | | | |
| 60% Technical Specifications | | | | 4 | 2 | 8 | | | 15 | \$ 2,528 | - | \$ 2,528 | | | | |
| 60% Construction Safety and Phasing Plan | | | 1 | 2 | 2 | 8 | | | 12 | \$ 1,856 | - | \$ 1,856 | | | | |
| 60% Project Construction Cost Estimate | | | 2 | 12 | 2 | 8 | | | 24 | \$ 4,406 | - | \$ 4,406 | | | | |
| 60% Project Schedule | | | | 2 | 2 | 4 | | | 4 | \$ 832 | - | \$ 832 | | | | |
| 60% Engineer's Report w/ Geotechnical Report | | | 1 | 4 | 4 | 16 | | | 25 | \$ 3,982 | - | \$ 3,982 | | | | |
| Coordination with Permitting and Regulatory Agencies | | | 2 | 2 | 2 | 4 | | | 6 | \$ 1,372 | - | \$ 1,372 | | | | |
| ISO 9001 - QA/QC Review | | 16 | | | | | 4 | | 20 | \$ 4,292 | - | \$ 4,292 | | | | |
| Team Coordination Meetings | | | 2 | 2 | 2 | 4 | 4 | | 14 | \$ 2,400 | - | \$ 2,400 | | | | |
| One (1) DOA Review Submission Meeting | | | 1 | 1 | 2 | 2 | 4 | 2 | 8 | \$ 1,349 | \$ 250 | \$ 1,599 | | | | |
| Task Management and Coordination | | | 8 | 2 | 8 | | | 8 | 26 | \$ 5,050 | - | \$ 5,050 | | | | |

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation

| | | | | | | | | | | | | | | | | |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 340 | \$ | 236 | \$ | 270 | \$ | 201 | \$ | 215 | \$ | 128 | \$ | 129 | \$ | 96 |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | | Fee Estimate (\$) | | |
|---|------------------------|-------------|------------------------|-------------------------------|-----------------------------------|------------------|-----------|-----------|------------|-----------------|--------------|-------------------|--|--|
| | Principal | QC Reviewer | Senior Project Manager | Design / Construction Manager | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total | | |
| Phase 1B (90% CONSTRUCTION DOCUMENTS) | 0 | 14 | 13 | 70 | 74 | 164 | 13 | 2 | 350 | \$59,655 | \$250 | \$59,905 | | |
| Cover Sheet (90%). | | | | | 1 | 1 | | | 2 | \$ 343 | \$ - | \$ 343 | | |
| Drawings Index (90%). | | | | | 1 | 2 | | | 3 | \$ 471 | \$ - | \$ 471 | | |
| Summary of Quantities/General Notes (90%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | \$ - | \$ 1,344 | | |
| Safety and Security Plan (90%). | | | | 1 | 1 | 4 | 1 | | 7 | \$ 1,057 | \$ - | \$ 1,057 | | |
| Staging and Haul Route Plan (90%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | \$ - | \$ 1,344 | | |
| Overall Phasing Plans (90%). | | | | 2 | 1 | 4 | | | 7 | \$ 1,129 | \$ - | \$ 1,129 | | |
| Individual Work Area Phasing Plans (90%). | | | | 4 | 4 | 20 | | | 28 | \$ 4,224 | \$ - | \$ 4,224 | | |
| Construction Phasing and Security Notes and Details (90%). | | | | 1 | 1 | 4 | | | 6 | \$ 928 | \$ - | \$ 928 | | |
| Survey Control Plan (90%). | | | | | | 1 | | | 1 | \$ 128 | \$ - | \$ 128 | | |
| Existing Conditions Plan (90%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | \$ - | \$ 1,344 | | |
| Demolition Plan (90%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | \$ - | \$ 1,344 | | |
| Typical Sections (90%). | | | | 2 | 2 | 8 | | | 12 | \$ 1,856 | \$ - | \$ 1,856 | | |
| Geometry Plans (90%). | | | | 2 | 2 | 4 | | | 8 | \$ 1,344 | \$ - | \$ 1,344 | | |
| Marking Plans (90%). | | | | 2 | 2 | 4 | 4 | | 10 | \$ 1,458 | \$ - | \$ 1,458 | | |
| Marking Details (90%). | | | | | 2 | 4 | | | 6 | \$ 942 | \$ - | \$ 942 | | |
| Grading Plans (90%). | | | | 2 | 4 | 16 | | | 22 | \$ 3,310 | \$ - | \$ 3,310 | | |
| Drainage Plans (90%). | | | | 2 | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Stormwater Pollution Prevention Plans (90%). | | | | 2 | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Stormwater Pollution Prevention Notes and Details (90%). | | | | 2 | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Miscellaneous Details (90%). | | | | 1 | 1 | 4 | | | 6 | \$ 942 | \$ - | \$ 942 | | |
| Cross Section Layout Plan (90%). | | | | 2 | 2 | 12 | | | 16 | \$ 2,368 | \$ - | \$ 2,368 | | |
| Cross Sections (90%). | | | | 4 | 4 | 8 | | | 16 | \$ 2,688 | \$ - | \$ 2,688 | | |
| Pavement Design | | | | 8 | 4 | 8 | | | 20 | \$ 3,492 | \$ - | \$ 3,492 | | |
| 90% Technical Specifications | | | | 8 | 4 | 8 | | | 20 | \$ 3,492 | \$ - | \$ 3,492 | | |
| 90% Front End Specifications & FAA General Provisions | | | | 8 | 4 | 8 | | | 16 | \$ 2,980 | \$ - | \$ 2,980 | | |
| 90% Construction Safety and Phasing Plan | | | | 4 | 2 | 8 | | | 14 | \$ 2,258 | \$ - | \$ 2,258 | | |
| 90% Project Construction Cost Estimate | | | | 4 | 2 | 8 | | | 14 | \$ 2,258 | \$ - | \$ 2,258 | | |
| 90% Project Schedule | | | | 4 | 2 | 2 | | | 6 | \$ 1,234 | \$ - | \$ 1,234 | | |
| 90% Engineer's Report w/ Geotechnical Report | | | 2 | 4 | 2 | 8 | | | 14 | \$ 2,258 | \$ - | \$ 2,258 | | |
| Coordination with Permitting and Regulatory Agencies | | | | 4 | 2 | 2 | | | 8 | \$ 1,174 | \$ - | \$ 1,174 | | |
| ISO 9001 - QA/QC Review | | 12 | | | | | | | 16 | \$ 3,348 | \$ - | \$ 3,348 | | |
| Team Coordination Meetings | | 2 | | | 2 | 4 | | | 16 | \$ 2,872 | \$ - | \$ 2,872 | | |
| One (1) DOA Review Submittal Meeting | | | 1 | | 2 | 2 | | | 8 | \$ 1,349 | \$ 250 | \$ 1,599 | | |
| Task Management and Coordination | | | 8 | | 8 | 2 | | | 18 | \$ 4,282 | \$ - | \$ 4,282 | | |
| Phase 1C (100% CONSTRUCTION DOCUMENTS) | 0 | 10 | 15 | 27 | 81 | 91 | 16 | 14 | 254 | \$44,308 | \$0 | \$44,308 | | |
| Cover Sheet (100%). | | | | | | 1 | | | 1 | \$ 128 | \$ - | \$ 128 | | |
| Drawings Index (100%). | | | | | | 1 | | | 1 | \$ 128 | \$ - | \$ 128 | | |
| Summary of Quantities (100%). | | | | | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Safety and Security Plan (100%). | | | | | 2 | 2 | 4 | | 8 | \$ 1,202 | \$ - | \$ 1,202 | | |
| Staging and Haul Route Plan (100%). | | | | | 2 | 2 | 0 | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Overall Phasing Plans (100%). | | | | | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Individual Work Area Phasing Plans (90%). | | | | | 4 | 12 | | | 16 | \$ 2,396 | \$ - | \$ 2,396 | | |
| Construction Phasing and Security Notes and Details (100%). | | | | | 2 | 2 | | | 4 | \$ 686 | \$ - | \$ 686 | | |
| Survey Control Plan (100%). | | | | | | 2 | | | 2 | \$ 256 | \$ - | \$ 256 | | |
| Existing Conditions Plan (100%). | | | | 1 | 1 | 4 | | | 6 | \$ 928 | \$ - | \$ 928 | | |
| Demolition Plan (100%). | | | | 2 | 2 | 4 | | | 6 | \$ 942 | \$ - | \$ 942 | | |
| Geometry Plans (100%). | | | | 2 | 2 | 4 | | | 6 | \$ 942 | \$ - | \$ 942 | | |
| Marking Plans (100%). | | | | 2 | 2 | 3 | | | 5 | \$ 814 | \$ - | \$ 814 | | |
| Marking Details (100%). | | | | | 2 | 2 | 4 | | 8 | \$ 1,202 | \$ - | \$ 1,202 | | |
| Grading Plans (100%). | | | | | 2 | 6 | | | 8 | \$ 1,198 | \$ - | \$ 1,198 | | |
| Drainage Plans (100%). | | | | | 2 | 2 | | | 2 | \$ 430 | \$ - | \$ 430 | | |
| Stormwater Pollution Prevention Plans (100%). | | | | | 2 | 2 | | | 2 | \$ 430 | \$ - | \$ 430 | | |
| Stormwater Pollution Prevention Notes and Details (100%). | | | | | 2 | 2 | | | 2 | \$ 430 | \$ - | \$ 430 | | |

Table B
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation

Billing Rate: \$ 340 \$ 236 \$ 270 \$ 201 \$ 215 \$ 128 \$ 129 \$ 96

| Task Description | Principal | QC Reviewer | Senior Project Manager | Design/ Construction Manager | Labor Estimate (Hours) | | | | | Fee Estimate (\$) | | | |
|--|--------------|-------------|------------------------|------------------------------|-----------------------------------|------------------|-----------|-----------|--------------|-------------------|----------------|------------------|----------|
| | | | | | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total | |
| Miscellaneous Details (100%). | | | | | | 2 | 2 | | | | \$ 686 | \$ - | \$ 686 |
| Cross Section Layout Plan (100%). | | | | | | 2 | 2 | | | | \$ 686 | \$ - | \$ 686 |
| Cross Sections (100%). | | | | | | 2 | 6 | | | | \$ 1,198 | \$ - | \$ 1,198 |
| Pavement Design | | | | 4 | 4 | 4 | 8 | | | | \$ 2,688 | \$ - | \$ 2,688 |
| 100% Technical Specifications | | | | 4 | 4 | 2 | 2 | | | | \$ 1,920 | \$ - | \$ 1,920 |
| 100% Front End Specifications & FAA General Provisions | | | | 2 | 8 | 4 | 4 | | | | \$ 2,634 | \$ - | \$ 2,634 |
| 100% Construction Safety and Phasing Plan | | | | 2 | 8 | 2 | 2 | | | | \$ 2,634 | \$ - | \$ 2,634 |
| 100% Project Construction Cost Estimate | | | | 5 | 2 | 2 | 2 | | | | \$ 1,691 | \$ - | \$ 1,691 |
| 100% Project Schedule | | | | 2 | 2 | 2 | 2 | | | | \$ 1,088 | \$ - | \$ 1,088 |
| 100% Engineer's Report w/ Geotechnical Report | | | | 2 | 2 | 2 | 0 | | | | \$ 832 | \$ - | \$ 832 |
| Coordination with Permitting and Regulatory Agencies | | | | 2 | 2 | 2 | 4 | | | | \$ 1,344 | \$ - | \$ 1,344 |
| ISO 9001 - QA/QC Review | | 8 | | 2 | 0 | 4 | 4 | | | | \$ 2,404 | \$ - | \$ 2,404 |
| Team Coordination Meetings | | 2 | | 2 | 2 | 4 | 4 | | | | \$ 3,256 | \$ - | \$ 3,256 |
| One (1) DOA Review Submittal Meeting | | 1 | | 1 | 2 | 2 | 2 | | | | \$ 1,349 | \$ - | \$ 1,349 |
| Task Management and Coordination | | 12 | | 8 | 8 | 8 | 8 | | | | \$ 5,728 | \$ - | \$ 5,728 |
| Phase 2 BID AND AWARD SERVICES | Total | 0 | 13 | 28 | 29 | 39 | 4 | 0 | 116 | \$21,589 | \$500 | \$22,089 | |
| Bid Drawings | | | 1 | 4 | 4 | 8 | | | | | \$ 2,958 | \$ 250 | \$ 3,208 |
| Bid Technical Specifications | | | 2 | 2 | 2 | 4 | | | | | \$ 1,884 | \$ - | \$ 1,884 |
| Bid Front End Specifications & FAA General Provisions | | | 2 | 2 | 2 | 4 | | | | | \$ 1,372 | \$ - | \$ 1,372 |
| Bid Construction Phasing and Safety Plan Report | | | 2 | 2 | 2 | 4 | | | | | \$ 1,344 | \$ - | \$ 1,344 |
| Bid Project Construction Cost Estimate | | | | 2 | 2 | 4 | | | | | \$ 1,344 | \$ - | \$ 1,344 |
| ISO 9001 - QA/QC Review | | | | 2 | 2 | 4 | | | | | \$ 516 | \$ - | \$ 516 |
| Task Management and Coordination | | | 2 | 2 | 2 | 4 | | | | | \$ 1,372 | \$ - | \$ 1,372 |
| Assist DOA in Advertisement and Processing of Bid Documents | | | 2 | 2 | 2 | 4 | | | | | \$ 1,372 | \$ - | \$ 1,372 |
| Prepare and attend Pre-Bid Meeting, Prepare Minutes | | | 2 | 2 | 2 | 4 | | | | | \$ 1,344 | \$ - | \$ 1,344 |
| Prepare and Maintain Bid Holders Log | | | | 4 | 4 | 4 | | | | | \$ 512 | \$ - | \$ 512 |
| Respond to Contractor's Request for Information (RFI's) | | | 2 | 4 | 4 | 4 | | | | | \$ 2,204 | \$ - | \$ 2,204 |
| Prepare and Issue Addenda | | | 2 | 4 | 4 | 4 | | | | | \$ 3,188 | \$ - | \$ 3,188 |
| Attend Bid Opening Meeting | | | | 1 | 1 | 1 | | | | | \$ 378 | \$ 250 | \$ 628 |
| Prepare, Review and Evaluate Bid Tabulation and Bid Forms | | | | 1 | 1 | 2 | | | | | \$ 471 | \$ - | \$ 471 |
| Prepare and Submit Recommendation of Bid Award Letter to DOA | | | 1 | 2 | 2 | 4 | | | | | \$ 1,580 | \$ - | \$ 1,580 |
| Total Fee - AECOM Technical Services, Inc. | 0 | 43 | 65 | 207 | 262 | 500 | 59 | 28 | 1,164 | \$199,934 | \$1,500 | \$201,434 | |

| | |
|--------------|---------------------|
| Lump Sum | \$233,354.00 |
| T&M | \$43,246.88 |
| Expenses | \$1,500.00 |
| TOTAL | \$278,100.88 |

| | |
|---|----------------------|
| Subconsultant Fees | |
| 1 Total Subconsultant Fee - Brown and Phillips (LS) | \$ 26,624.00 |
| 2 Total Subconsultant Fee - Terra (LS) | \$ 16,622.88 |
| 3 Total Subconsultant Fee - Quantum Electrical Engineering (LS) | \$ 33,420.00 |
| Total Fee - Subconsultants | \$ 76,666.88 |
| GRAND TOTAL FEE - BASIC ENGINEERING SERVICES | \$ 278,100.88 |

Prepared by: AECOM Technical Services, Inc.



June 6, 2023

Mr. Andrew Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

**Re: Palm Beach International Airport (PBI) Taxiway R Rehabilitation
Topographic Survey**

Dear Andy:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site and all found monumentation will be tied in. The survey will be oriented to Palm Beach County International Airport horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County International Airport benchmarks (NAVD 1988). At least two benchmarks will be set onsite.

III. TIE IN IMPROVEMENTS AND CROSS SECTIONS

A complete topographic survey will be done at the site, tying in all above ground features. This will include but not be limited to buildings, pavement, walks, utilities, and drainage structures. We will obtain elevations on the site on an approximate 50' grid. We will locate sufficient points to give an accurate representation of the lay of the land. The approximate limits of the survey are highlighted in red on Attachment 'B'.

IV. AS-BUILT

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

OPTIONAL S.U.E. SERVICES

V. UTILITY TARGETING SERVICES

We will scan the area highlighted in red on Attachment 'B' and mark the underground utilities that service the site. We will then locate the designates and add them to the survey.

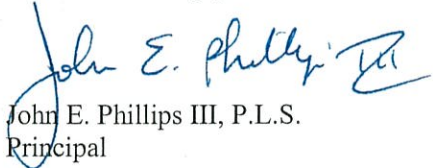
VI. TEST HOLES

If underground utilities are found on the site, we will perform two (2) test holes at locations to be determined by you. We will then locate the test holes and add them to the survey.

VII. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide AECOM with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. We will perform the scope of services for **an hourly, not to exceed fee of \$26,624.00** (\$21,624.00 for the survey, \$4,000.00 for utility targeting [daily rate of \$2,000 times 2 days] and \$1,000.00 for 2 test holes), see Attachment 'A' for an hourly estimate. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

Attachment

JEP/mb

This Proposal accepted this ____ day of _____, 2023

By: _____

AECOM

Print Name: _____

Title: _____



BROWN & PHILLIPS, Inc.
PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

Palm Beach International Airport (PBI) Taxiway R Rehabilitation

Type of Survey: Topographic

Size: ±4200'

Date: June 6, 2023

| TASK | SURVEY CREW | CADD TECH | SURVEY TECH | PLS | COMMENTS |
|---|-------------|------------|-------------|------------|---|
| Meetings and Coordination | | | | 2 | |
| Horizontal Project Network Control | 16 | | 4 | 1 | Set control points |
| Vertical Project Network Control | 16 | | 4 | 1 | Establish onsite benchmarks |
| Tie In Improvements, Cross Sections and As-builts | 60 | | 14 | 5 | Locate above ground features, 50' cross sections and spot elevations, obtain asbuilt data |
| Topographic Survey | | 30 | 5 | 3 | Prepare topographic survey |
| | | | | | |
| Total Hours: | 92 | 30 | 27 | 12 | |
| Rate/Hour | \$156.00 | \$96.00 | \$96.00 | \$150.00 | |
| Subtotal: | \$14,352.00 | \$2,880.00 | \$2,592.00 | \$1,800.00 | |
| Total Labor Cost: | | | | | \$21,624.00 |

| <u>Optional S.U.E.Services:</u> | <u>quantity</u> | <u>unit</u> | <u>cost/unit</u> | <u>total</u> | |
|---------------------------------|-----------------|-------------|------------------|--------------|--------------------|
| Utility Targeting | 2 | day | \$2,000.00 | \$4,000.00 | |
| Test Holes | 2 | each | \$500.00 | \$1,000.00 | |
| Total S.U.E. Services: | | | | | \$5,000.00 |
| TOTAL PRICE | | | | | \$26,624.00 |

Attachment 'B'





May 24, 2023; Revised June 5, 2023

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, Florida 33607

Attention: Mr. Andy Kacer, P.E., SE Aviation Manager

**Re: Proposal for Geotechnical Services
Proposed Taxiway R Rehabilitation
Palm Beach International Airport
West Palm Beach, Florida
TSF Proposal No.: 2305-336.1**

Dear Andy:

As requested, **TSFGEO** is pleased to submit this proposal for the above-referenced project. The proposal is based on information provided by AECOM via email on May 23, 2023. We understand that the project will include rehabilitation of Taxiway R at PBI. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

Geotechnical Investigation Services will include the following:

- Attend One (1) DOA Design Kick-Off Meeting;
- Perform two (2) SPT borings to a depth of 10 feet to determine the subsurface conditions;
- Perform eleven (11) Pavement cores;
- Work Plan and Utility Coordination;
- Laboratory tests including CBR (3), sieve analysis, organic, and moisture content;
- Soil Boring Location Plan;
- Soil Boring profile denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, northing and easting, date performed, and depth in feet;

The Geotechnical Report will include a summary of findings, laboratory results including CBR, Moisture Content %, Organic Content %, and Percent Finer than No. 200 Sieve, and will be signed and sealed by a registered professional geotechnical engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings.

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned or airside utilities. **All utilities will be cleared via GPR by a specialty utility locating company, provided through AECOM.** We believe that significant coordination will likely be required to perform the field operations and it is our understanding that the work will be conducted during the nighttime. **Our field work will be performed by TSF personnel, escorted by AECOM personnel.**

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, the estimated total fee is:

| | |
|--|--------------------|
| FIELD INVESTIGATION - Night | \$5,766.00 |
| LABORATORY TESTING | \$2,250.00 |
| ENGINEERING/COORDINATION/MANAGEMENT | \$8,606.88 |
| TOTAL | \$16,622.88 |

Our estimate covers the work needed to present our findings in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are functions of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice. Based on our understanding of the project a breakdown is attached.

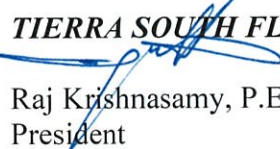
SCHEDULE AND AUTHORIZATION


TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 2 to 3 days to complete. The written report can be submitted in about three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary results can be provided to appropriate parties prior to submittal of the written report.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.


Raj Krishnasamy, P.E.
President

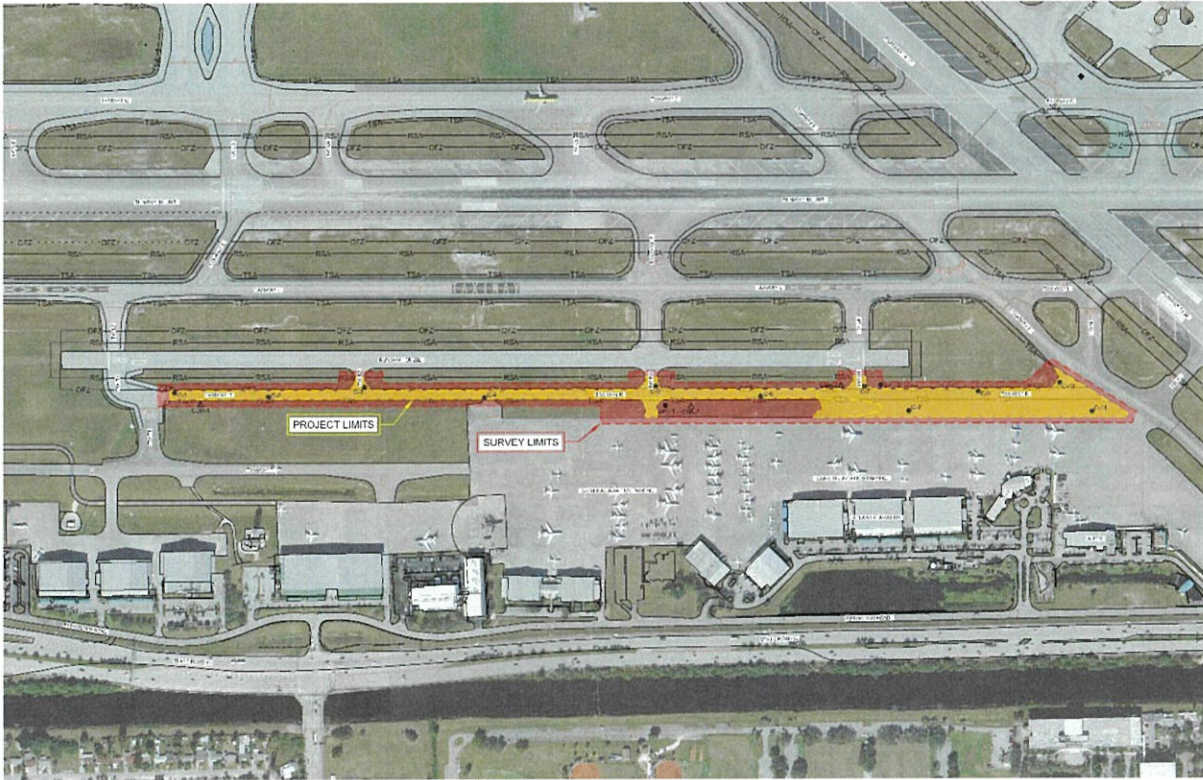

Ramakumar Vedula, P.E.
Principal Engineer

- Attachments: 1. Fee Estimate
2. Core Location Plan
3. GPR Proposal

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

NIGHT TIME SERVICES

| | Unit | # of Units | Unit Price | | Total |
|---|-----------|------------|------------|---------|------------------|
| I. FIELD INVESTIGATION | | | | | |
| Mobilization of Men and Equipment | | | | | |
| Truck-Mounted Equipment | LS | 2 | \$ | 450.00 | \$ 900.00 |
| Support Vehicle | DAY | 2 | \$ | 150.00 | \$ 300.00 |
| Standard Penetration Test Borings (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 42 | \$ | 20.00 | \$ 840.00 |
| Grout-Seal Boreholes (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 42 | \$ | 8.00 | \$ 336.00 |
| Casing (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 20 | \$ | 9.50 | \$ 190.00 |
| Pavement Cores, Asphalt | Each | 11 | \$ | 250.00 | \$ 2,750.00 |
| Coring Machine + Generator Rental | Trip | 1 | \$ | 450.00 | \$ 450.00 |
| I.A GPR | by others | 0 | \$ | 4300.00 | \$ 0.00 |
| II. LABORATORY TESTING | | | | | |
| Natural Moisture Content Tests | Test | 4 | \$ | 15.00 | \$ 60.00 |
| Grain-Size Analysis - Full Gradation | Test | 4 | \$ | 65.00 | \$ 260.00 |
| Grain-Size Analysis - Single Sieve | Test | 4 | \$ | 35.00 | \$ 140.00 |
| Organic Content Tests | Test | 4 | \$ | 50.00 | \$ 200.00 |
| Atterberg Limit Tests | Test | 1 | \$ | 90.00 | \$ 90.00 |
| Laboratory CBR + Sampling | Test | 3 | \$ | 500.00 | \$ 1,500.00 |
| III ENGINEERING/COORDINATION/MANAGEMENT | | | | | |
| Project Manager | Hour | 6 | \$ | 253.06 | \$ 1,518.36 |
| Principal Engineer | Hour | 2 | \$ | 269.40 | \$ 538.80 |
| Project Engineer | Hour | 20 | \$ | 166.53 | \$ 3,330.60 |
| Senior Technician | Hour | 24 | \$ | 91.68 | \$ 2,200.32 |
| CADD | Hour | 10 | \$ | 101.88 | \$ 1,018.80 |
| | | | | \$ | 16,622.88 |



May 25, 2023

AECOM Technical Services, Inc.
Mr. Clint Martin, P.E.
Project Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach International Airport Taxiway R Rehabilitation Project.

Dear Clint:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM an electrical design services fee proposal for Palm Beach International Airport (PBI) Taxiway R Rehabilitation Project. The proposal is based upon information provided by AECOM via email on 5/23/2023. The following tasks are included in our scope of services:

Task 1: Design Documents

- Includes design coordination meetings with the DOA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Design new airfield lighting and signage systems for the rehabilitation/reconstruction of Taxiway R. Includes the removal of existing Taxiway connector R3 and R4 between the Apron and Taxiway R and the construction of a new connector between the Apron and Taxiway R. Also includes plan layouts, details, schedules and electrical calculations.
- Includes providing electrical and signage specifications, cost estimates and bid line items.
- Includes electrical plans reflecting the modification to the existing ALCMS graphic.

Task 2: Bid & Award

- Includes Bid and Award Services, addenda and RFI responses and revisions, review of bid pricing results and electrical recommendation.

Assumptions and Exclusions:

- AECOM shall provide all base drawings to QUANTUM on AutoCAD 2022 or higher.
- AECOM to provide marking files, electrical locations of equipment will be based off of the marking files.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for 60%, 90%, 100%, Bid Set reviews and Bid Set documents.
- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase and construction phases.

➤ Does not include construction services.

| | |
|---|--------------------|
| Our proposed Lump-Sum fee for Task 1 is: | \$ 31,790.00 |
| Our proposed Lump-Sum fee for Task 2 is: | \$ 1,630.00 |
| Our proposed total Lump-Sum fee is | \$33,420.00 |

Sincerely,



Amy L. Champagne-Baker, PE
President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- TAXIWAY R REHABILITATION
QUANTUM ELECTRICAL ENGINEERING, INC.
SCOPE FEE SUMMARY
FEE PROPOSAL ELECTRICAL SERVICES to AE 5/25/2023

| Rate | | | | | | | Total | Expenses | TOTAL |
|---|---------------|--------------------|--------------------|-------------------|---------------|-----------------|------------|----------|--------------------|
| | \$170.00 | \$150.00 | \$145.00 | \$85.00 | \$140.00 | \$50.00 | | | |
| | Proj. Mgr. | Prof. Eng | Proj. Eng | CADD/Tech | Field Eng. | Clerical | Hours | | |
| PHASE OF WORK | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | TASK COST |
| Task 1: Design Documents | | | | | | | | | |
| 60% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA and AE | | 1 | | | | | 1 | | \$150.00 |
| Site Investigation, Record Drawing Review and Discovery | | 8 | | | | | 8 | | \$1,200.00 |
| Electrical Design Drawings | | 24 | 32 | 48 | | | 104 | | \$12,320.00 |
| Specifications & Cost Estimate | | 8 | 8 | | | 4 | 20 | | \$2,560.00 |
| QA/QC & Comment Incorporation | | 4 | 2 | 4 | | | 10 | | \$1,230.00 |
| Subtotal | 0 | 45 | 42 | 52 | 0 | 4 | 143 | | \$17,460.00 |
| 90% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA and AE | | 1 | | | | | 1 | | \$150.00 |
| Electrical Design Drawings | | 16 | 24 | 24 | | | 64 | | \$7,920.00 |
| Specifications & Cost Estimate | | 4 | 4 | | | 2 | 10 | | \$1,280.00 |
| QA/QC & Comment Incorporation | | 4 | 2 | 4 | | | 10 | | \$1,230.00 |
| Subtotal | 0 | 25 | 30 | 28 | 0 | 2 | 85 | | \$10,580.00 |
| 100% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA and AE | | 1 | | | | | 1 | | \$150.00 |
| Electrical Design Drawings | | 4 | 8 | 8 | | | 20 | | \$2,440.00 |
| Specifications & Cost Estimate | | 2 | 2 | | | 2 | 6 | | \$690.00 |
| QA/QC & Comment Incorporation | | 2 | | 2 | | | 4 | | \$470.00 |
| Subtotal | 0 | 9 | 10 | 10 | 0 | 2 | 31 | | \$3,750.00 |
| Task 1 Total Hours | 0 | 79 | 82 | 90 | 0 | 8 | 259 | | |
| Task 1 Total Labor Cost | \$0.00 | \$11,850.00 | \$11,890.00 | \$7,650.00 | \$0.00 | \$400.00 | | | \$31,790.00 |
| Task 2: Bid & Award | | | | | | | | | |
| Attend Pre-Bid Meeting | | 1 | | | | | 1 | | \$150.00 |
| RFI Responses and Addendum Revisions | | 4 | 2 | 4 | | 1 | 11 | | \$1,280.00 |
| Review of Bid Results & Recommendation | | 1 | | | | 1 | 2 | | \$200.00 |
| Subtotal | 0 | 6 | 2 | 4 | 0 | 2 | 14 | | \$1,630.00 |
| Task 2 Total Hours | 0 | 6 | 2 | 4 | 0 | 2 | 14 | | |
| Task 2 Total Labor Cost | \$0.00 | \$900.00 | \$290.00 | \$340.00 | \$0.00 | \$100.00 | | | \$1,630.00 |
| Grand Total Hours | 0 | 85 | 84 | 94 | 0 | 10 | 273 | | |
| Grand Total Labor Cost | \$0.00 | \$12,750.00 | \$12,180.00 | \$7,990.00 | \$0.00 | \$500.00 | | | \$33,420.00 |

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-2

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBIA) Task I-23-PBI-A-002 PBI Cargo Ramp Expansion

OVERVIEW

The Palm Beach DOA Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Professional Engineering Services associated with Task I-23-PBI-A-002 PBI Cargo Ramp Expansion Project (Project) at Palm Beach International Airport (PBIA). The project consists of expansion of the cargo ramp, as shown below in Figure 1. This new cargo ramp will include one additional remote parking positions for B767-300F and aligns with the ultimate buildout of the air cargo layout as shown in the ALP. This task also includes the realignment of the vehicle service road, removal of portions of the existing vehicle service road and relocation of gate CPE 2. The design related services for the realignment of Taxiway M1 as shown below in red, will not be incorporated into this project and will be included in a future project. This Project will include data collection for the future project area in red.

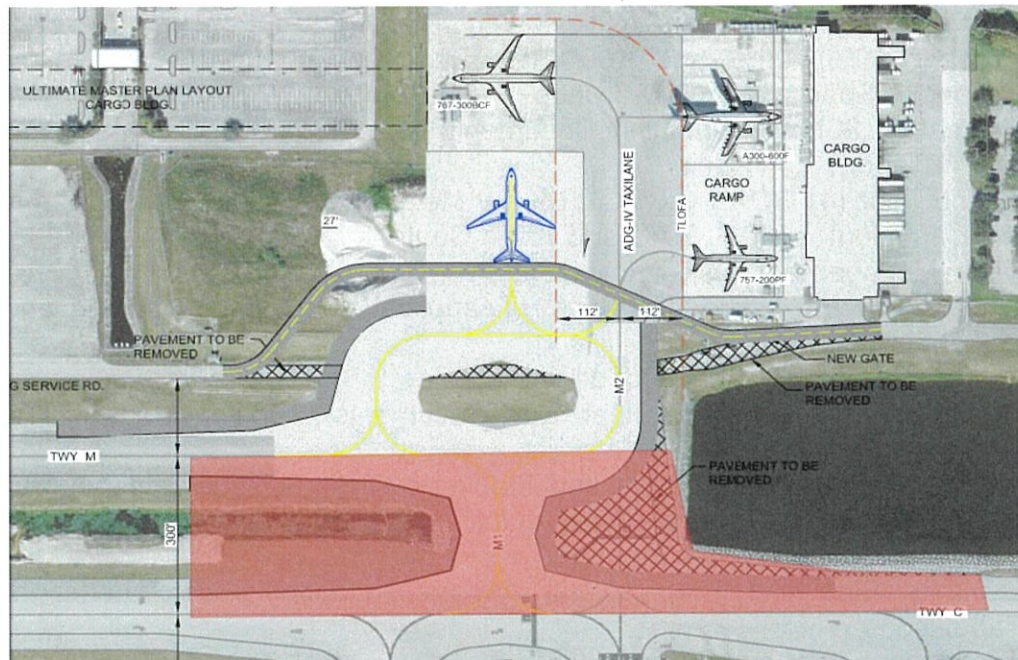


Figure 1: PBI Cargo Ramp Expansion Limits

The CONSULTANT will prepare Construction Documents (CDs) for the design and bidding services of the Project. The cargo ramp expansion design shall be in accordance with Federal Aviation Administration (FAA), Florida Department of Transportation (FDOT), and SFWMD requirements. The project geometric design and layout will be based on FAA AC 150/5300-13B Airport Design Standards. The construction specifications will be based on FAA AC 150/5370-10H, Standards for Specifying Construction of Airports and applicable FDOT Design Standards. The Construction Safety and Phasing Plans (CSPP) will be prepared in compliance with FAA AC 150/5370-2G Operational Safety on Airports During Construction.

In addition to the overall design and layout of the new cargo ramp expansion, the CONSULTANT will provide basic services including drainage design, construction phasing, survey, utility locations, and geotechnical engineering services. The CONSULTANT will prepare construction documents; and support the DOA during the bid and award services. A brief overview of pertinent tasks to be performed by the CONSULTANT for the Project includes:

1. Attend One (1) DOA Design Kick-Off Meeting and prepare meeting minutes;
2. Coordinate One (1) Internal Design Team Kick-Off Meeting;
3. Coordinate Data Collection, Records Research and Review of As-Built information;
4. Field Coordination Meetings (At beginning of survey and throughout geotechnical services);
5. Prepare PowerPoint Presentations, sketches and agenda for meetings (as applicable);
6. Validate Program Cost Estimate;
7. Facilitate Design Coordination meetings via conference calls and webinars;
8. Develop Construction Safety and Phasing Plans (CSPPs);
9. Prepare 60%, 90% and 100% Contract Documents, General Provisions, Technical Specifications, Drawings, Project Schedule, Engineer's Report, Cost Estimates, Submit Permitting Documents to SFWMD, Engineer's Report, and CSPP Report;
10. Attend Four (4) DOA Submittal Review Meetings. Prepare meeting agenda and meeting minutes (60%, 90%, and 100% Contract Documents);
11. Task Management/Task Administration – Coordination with DOA, FAA, DOA Operations, Permitting Agencies (if applicable), Subconsultants, and other stakeholders;
12. Provide Quality Assurance for all deliverables;
13. Prepare and Assemble Final Bid Documents: Project Manual, Technical Specifications and Drawings;
14. Assist DOA in Advertisement and Bidding of Task – Issue Addendums, attend Pre-bid conference, prepare meeting minutes, coordinate a site visit, and answer contractor questions;
15. Evaluate Bids and Prepare Bid Recommendations Award Letter and Bid Tabulations;
16. Task Management;

- 17. Task Coordination (FAA, ATCT, DOA Operations, SFWMD, Other Consultants, and other interested project stakeholders); and,
- 18. Construction Administration Services and Resident Project Representative Services will not be included in this task authorization.

Project Team

This Project Team for the Basic Services and Special Services and the respective type of services to be provided by the Team are provided below:

| Firm Name (CONSULTANT/SUBCONSULTANT) | Type of Services |
|---|---|
| AECOM Technical Services, Inc. (AECOM) (CONSULTANT) | Project Management; Civil and Drainage Design/Permitting |
| Brown and Phillips (B&P) (SUBCONSULTANT) | Topographic Survey / Utility Locates / Utility Clearances |
| Quantum Electrical Engineering (QEE) (SUBCONSULTANT) | Electrical Engineering |
| Chen Moore and Associates (CMA) (SUBCONSULTANT) | Stormwater/Permitting |
| Tierra South Florida (TSF) (SUBCONSULTANT) | Geotechnical Investigations |

SCOPE OF SERVICES

Our scope of services will follow two distinct phases: Phases 1 and 2. Phase 1 consists of three (3) subphases: sixty percent (60%) design completion of the Contract Documents (Phase 1A); ninety percent (90%) design completion (Phase 1B); and final design completion (100%) of Bid Documents (Phase 1C). Phase 2 consists of Bidding and Award of Contract requirements.

A brief definition for each of the Phases included in the scope of services is provided below:

PHASE 1A -CONSULTANT will develop the Contract Documents to a predetermined completion milestone (60% of completion). CONSULTANT will develop the Program Costs and prepare Schedule/Phasing Plans.

PHASE 1B -CONSULTANT will develop the Contract Documents to 90% to allow the Project to be reviewed and preliminarily submitted for applicable permitting agencies. CONSULTANT will update Program Costs, Schedule and Phasing Plans.

PHASE 1C -CONSULTANT will complete the Contract Documents to 100% to allow the Project to be permitted, bid, and constructed. CONSULTANT will prepare the Final Program Cost Estimate, Schedule and Phasing Plans.

PHASE 2 - CONSULTANT will assist the DOA in obtaining Bids and in the Award of a Construction Contract, as required.

The following paragraphs summarize the CONSULTANT'S Basic Services for Phases 1 and 2:

1.0 PHASE 1A – 60% CONTRACT DOCUMENTS

The CONSULTANT will prepare a presentation/agenda for the Project's Kick Off meeting. All key stakeholders will be invited to this meeting: DOA/Airport Staff, CONSULTANT'S key staff; and Subconsultants. The Kick-Off meeting's discussion items will include: stakeholder identifications, project limits, safety and operational impacts, permitting, design services, design standards, schedule, budget and construction constraints. The CONSULTANT will prepare and distribute the meeting minutes which will highlight outstanding action items and meeting details. Immediately following the Kick-Off Meeting, field investigative services associated with the survey and geotechnical services will begin. All airfield investigative services will be coordinated with DOA Operations prior to beginning work.

The CONSULTANT will prepare the following as a part of Phase 1A:

1.1. Documents Data Collection and Records Research

The Consultant will review existing DOA designs, as-builts, record drawings, and information regarding the proposed Project components and gather information for use during subsequent design phases. All pertinent record documents associated with the cargo ramp expansion and adjacent areas will be obtained from the DOA records database.

1.2. Field Investigative Services and Design Development

1.2.1 Site Evaluation

The AECOM Team will perform two site visits to evaluate the existing conditions and collect data. AECOM will also be on site at the beginning of the topographic survey and throughout the geotechnical investigations. The AECOM Team will evaluate the existing condition of the pavement, lighting, drainage infrastructure, and any other above ground infrastructure within the project limits.

1.2.2 Topographic Survey and Utility Locates

B&P will perform the surveying services for this task. The major components of the survey are the development of a topographic survey within the area shown on **Attachment B** of the attached B&P detailed scope and fee. The topographic survey will obtain data including: pavement, utilities, and drainage structures. The points on paved surfaces will be taken at a 25' x 25' grid, the off-pavement data will be collected on a 50' x 50' grid, with all grade breaks or other visible surface anomalies

picked up. B&P will also perform utility locates and clearances for the geotechnical data collection. See the attached B&P scope and fee for a more detailed description of the B&P services.

1.2.3 Geotechnical/subsurface investigations

TSF will perform the geotechnical/subsurface investigations services for this Project. The major components of the geotechnical/subsurface investigations services include the following items:

- Perform twenty-two (22) SPT borings to a depth of 13 feet to determine the subsurface conditions.
- Perform five (5) California bearing ratio (CBR) tests.
- Perform twenty-six (26) asphalt pavement cores, includes asphalt pavement thickness and base depth.
- Perform one (1) portland cement concrete pavement core, includes pavement thickness and base depth.

1.2.4 Pavement Condition Evaluation

AECOM will review the condition of the existing pavement within the project limits. This analysis will include an onsite pavement condition evaluation and review of the latest PBI Airfield Pavement Management Study, for comparison with our findings. Based on this evaluation, we will determine the final location of the geotechnical data acquisition.

1.2.5 Geometry

AECOM will utilize the recommended ramp layout from the previous Task I-22-PBI-A-63 PBI Cargo Expansion Project as the basis of design and will coordinate any necessary design changes with the DOA to align with the latest ALP. The new taxiway connectors tying into the ramp will be designed to the latest FAA Standards. AECOM will coordinate with the DOA and FedEx/UPS to ensure that we are utilizing the correct design aircraft for this cargo ramp expansion.

1.2.6 Airfield Electrical

QEE will perform the electrical design services for this contract. The scope of work will include the new taxiway connectors between Taxiway M and the new cargo ramp. This work will include the new airfield lighting and signage for the new taxiway connectors, as well as the high mast lighting for the apron. The work will also include an update to the ALCM graphic. Additionally, the re-routing of the service road, will require the relocation of gate CPE-2 and the electrical infrastructure controlling it.

1.2.7 Grading and Drainage Design/Permitting

CMA will perform all required services for the stormwater permitting, thru SFWMD, and the associated design, as described in their attached

detailed scope. This includes developing erosion and sediment control plans and notes and details.

1.3. The 60% Plans will include, but are not limited to:

1. Cover Sheet (60%).
2. Drawings Index (60%).
3. Summary of Quantities (60%).
4. Safety and Security Plan (60%).
5. Staging and Haul Route Plan (60%).
6. Overall Phasing Plan (60%)
7. Phasing Plans, Details and Maintenance of Traffic (60%).
8. Survey Control Plan (60%).
9. Existing Conditions Plan (60%).
10. Demolition Plan (60%).
11. Grading Plans (60%).
12. Geometry Plans (60%).
13. Marking Plans (60%).
14. Marking Details (60%).
15. Stormwater Pollution Prevention Plans (60%).
16. Stormwater Pollution Prevention Notes and Details (60%)
17. Miscellaneous Details (60%).
18. Cross Section Layout Plan (60%).
19. Electrical Demolition Plans (60%).
20. Electrical Plans (60%).
21. Electrical Circuiting Plans (60%).
22. Airfield Sign Schedule (60%).
23. Misc. Electrical Details (60%).

The CONSULTANT will prepare and submit an Engineer's Design Report covering all findings and recommendations developed throughout the 60% Design Development Phase including a Construction Schedule and estimate of probable Project Program Costs thru Construction.

1.4. Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Design K.O. Meeting;
- b. Team Coordination Meetings;
- c. Regulatory permitting agencies meetings, as applicable; and
- d. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1A for review comments and approval by the DOA.

1.5. Deliverables

The CONSULTANT will deliver the following major Deliverables (pdf):

- a. K.O. Meeting Minutes;
- b. Topographic Survey;
- c. Geotechnical Report;
- d. Meeting minutes from all applicable meetings of this Phase;
- e. Regulatory permitting agencies documentation;
- f. 60% Drawings;
- g. 60% Technical Specifications;
- h. 60% Construction Safety and Phasing Plan;
- i. 60% Project Program Cost Estimates;
- j. 60% Project Schedule; and,
- k. 60% Engineer's Report containing Geotechnical Report.

1.6. Schedule

The anticipated duration of this phase is 75 calendar days from the kick-off meeting.

2.0 PHASE 1B - 90% SUBMITTAL

Following the 60% Complete Contract Documents approval the CONSULTANT will develop 90% Complete Contract Documents from the approved 60% Complete Contract Documents. These 90% documents will consist of the information contained in the 60% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

2.1 The 90% Plans will include, but are not limited to:

1. Cover Sheet (90%).
2. Drawings Index (90%).
3. Summary of Quantities (Base Bid and Alternates, if applicable) [90%].
4. Safety and Security Plans (90%).
5. Staging and Haul Route Plans (90%).
6. Overall Phasing Plan (90%).
7. Phasing Plans, Details and Maintenance of Traffic (90%).
8. Survey Control Plan (90%).
9. Existing Conditions Plan (90%).
10. Demolition Plan (90%).
11. Grading Plan (90%).
12. Geometry Plan (90%).
13. Marking Plans (90%).
24. Marking Details (90%).
25. Stormwater Pollution Prevention Plans (90%).
14. Stormwater Pollution Prevention Notes and Details (90%)
15. Miscellaneous Details (90%).
16. Cross Section Layout Plan (90%).
17. Cross Sections Plans (90%).
18. Electrical Demolition Plans (90%).

19. Electrical Plans (90%).
20. Electrical Circuiting Plans (90%).
21. Airfield Sign Schedule (90%).
22. Misc. Electrical Details (90%).

2.2 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Coordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,
- c. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1B for review comments and approval by the DOA.

2.3

Deliverables

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Response to DOA 60% Design review comments;
- c. Regulatory permitting agencies documentation;
- d. 90% Contract Drawings;
- e. 90% Project Manual - Technical Specifications, Front Ends and FAA General Provisions;
- f. Construction Safety and Phasing Plan;
- g. 90% Project Cost Budget Estimates;
- h. 90% Project Schedule; and,
- i. 90% Engineer's Report.

2.4 Schedule

The anticipated duration of this phase is 45 calendar days.

3 PHASE 1C - 100% SUBMITTAL

Following the 90% Complete Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

3.1 The **100% Plans** will include, but are not limited to:

1. Cover Sheet (100%).
2. Drawings Index (100%).
3. Summary of Quantities (100%).
4. Safety and Security Plan (100%).
5. Staging and Haul Route Plan (100%).

6. Overall Phasing Plan (100%).
7. Phasing Plans, Details and Maintenance of Traffic (100%).
8. Survey Control Plan (100%).
9. Existing Conditions Plan (100%).
10. Demolition Plan (100%).
11. Grading Plans (100%).
12. Geometry Plans (100%).
13. Marking Plans (100%).
14. Marking Details (100%).
15. Stormwater Pollution Prevention Plans (100%).
16. Stormwater Pollution Prevention Notes and Details (100%).
17. Miscellaneous Details (100%).
18. Cross Section Layout Plan (100%).
19. Cross Sections (100%).
20. Electrical Demolition Plans (100%).
21. Electrical Plans (100%).
22. Electrical Circuiting Plans (100%).
23. Airfield Sign Schedule (100%).
24. Misc. Electrical Details (100%).

In providing opinions of probable construction costs, the DOA 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 shall be based on the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

3.2 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Coordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,
- c. One (1) DOA Review Submittal Meeting.

3.3 Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Response to DOA 90% Design review comments;
- c. Regulatory permitting agencies documentation;
- d. 100% Contract Drawings;
- e. 100% Project Manual - Technical Specifications, Front Ends and FAA General Provisions;
- f. Construction Safety and Phasing Plan;
- g. 100% Project Cost Budget Estimates;
- h. 100% Project Schedule; and,
- i. 100% Engineer's Report.

3.4 Schedule

The anticipated duration of this phase is 30 calendar days.

4.0 PHASE 4 - BIDDING AND AWARD OF CONTRACT

Bid & Award Services

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid conference to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

5.1 Deliverables

- a. PDF copy of the Bid Documents
- b. Pre-Bid Conference Agenda and Meeting Minutes
- c. Addenda as required during the bid process
- e. Bid Tabulation
- f. Bid Recommendation Letter

5.1 Schedule

The anticipated duration of this phase is 45 calendar days.

Assumptions:

1. DOA will provide all record documents applicable to this task.
2. DOA will pay for all permitting costs.
3. Construction Administration and Resident Project Representative Services are not included in this scope of services. If requested, the CONSULTANT will perform Construction Administration and Resident Project Representative Services via a separate task order.
4. In providing opinions of probable construction costs, the DOA 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 shall be based on the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.
5. CONSULTANT shall not be responsible for the means, methods, techniques, and sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. The CONSULTANT shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-002 PBI Cargo Ramp Expansion

| | | | | | | | | | | |
|----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|----|
| Billing Rate: | \$ | 340 \$ | 236 \$ | 270 \$ | 255 \$ | 201 \$ | 215 \$ | 128 \$ | 129 \$ | 96 |
|----------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | Fee Estimate (\$) | | |
|---|------------------------|-------------|------------------------|----------------|-------------------------------|-----------------------------------|------------------|-----------|-----------|------------|-------------------|----------------|------------------|
| | Principal | QC Reviewer | Senior Project Manager | Senior Planner | Design / Construction Manager | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total |
| Task I-23-PBI-A-002 PBI Cargo Ramp Expansion | | | | | | | | | | | | | |
| Phase 1A (60% CONSTRUCTION DOCUMENTS) | 0 | 35 | 31 | 24 | 199 | 135 | 404 | 30 | 40 | 898 | \$151,196 | \$2,000 | \$153,196 |
| Attend One (1) DOA Kick-Off Meeting, Agenda & Minutes | | | 1 | | 2 | 2 | 2 | | | 7 | \$ 1,358 | \$ - | \$ 1,358 |
| Internal Design Team Kick-Off Meeting | | 1 | 1 | | 1 | 1 | 2 | 2 | | 8 | \$ 1,436 | \$ - | \$ 1,436 |
| Documents Data Collection and Records Research | | | | | 8 | 4 | 8 | 8 | 2 | 30 | \$ 4,716 | \$ - | \$ 4,716 |
| Field Coordination for Survey and Geotechnical | | | 2 | | 4 | 4 | 32 | | | 42 | \$ 6,300 | \$ 1,000 | \$ 7,300 |
| Site Investigations (AECOM) | | | | | 8 | 8 | 8 | | | 24 | \$ 4,352 | \$ 1,000 | \$ 5,352 |
| Cover Sheet (60%) | | | | | | 1 | 2 | | | 3 | \$ 471 | \$ - | \$ 471 |
| Drawings Index (60%) | | | | | 4 | 4 | 4 | | | 16 | \$ 2,688 | \$ - | \$ 2,688 |
| Summary of Quantities/General Notes (60%) | | | | | 4 | 4 | 4 | 4 | | 16 | \$ 2,692 | \$ - | \$ 2,692 |
| Safety and Security Plan (60%) | | | | | 4 | 2 | 16 | | | 22 | \$ 3,282 | \$ - | \$ 3,282 |
| Staging and Haul Route Plan (60%) | | | | | 8 | 4 | 16 | | | 28 | \$ 4,516 | \$ - | \$ 4,516 |
| Overall Phasing Plans (60%) | | | 2 | | 8 | 4 | 32 | | | 46 | \$ 7,104 | \$ - | \$ 7,104 |
| Individual Work Area Phasing Plans (60%) | | | | | 4 | 2 | 12 | | | 18 | \$ 2,770 | \$ - | \$ 2,770 |
| Construction Phasing and Security Notes and Details(60%). | | | | | 4 | 2 | 4 | | | 10 | \$ 1,746 | \$ - | \$ 1,746 |
| Survey Control Plan (60%) | | | | | 8 | 4 | 24 | | | 36 | \$ 5,540 | \$ - | \$ 5,540 |
| Existing Conditions Plan (60%) | | | | | 8 | 4 | 16 | | | 28 | \$ 4,516 | \$ - | \$ 4,516 |
| Demolition Plan (60%) | | | | | 8 | 4 | 50 | | | 62 | \$ 8,868 | \$ - | \$ 8,868 |
| Grading Plans (60%) | | | | | 4 | 4 | 24 | 8 | | 64 | \$ 11,888 | \$ - | \$ 11,888 |
| Geometry Plans (60%) | | | | 24 | 4 | 4 | 12 | | | 20 | \$ 3,200 | \$ - | \$ 3,200 |
| Marking Plans (60%) | | | | | 2 | 2 | 12 | | | 16 | \$ 2,368 | \$ - | \$ 2,368 |
| Marking Details (60%) | | | | | 4 | 4 | 12 | | | 20 | \$ 3,200 | \$ - | \$ 3,200 |
| Miscellaneous Details (60%) | | | | | 2 | 2 | 12 | | | 16 | \$ 2,368 | \$ - | \$ 2,368 |
| Cross Section Layout Plan (60%) | | | | | 8 | 8 | 8 | | | 24 | \$ 4,352 | \$ - | \$ 4,352 |
| Pavement Design | | | | | 16 | 8 | 16 | | | 40 | \$ 6,984 | \$ - | \$ 6,984 |
| 60% Technical Specifications | | | | | 4 | 4 | 12 | | | 20 | \$ 3,200 | \$ - | \$ 3,200 |
| 60% Construction Safety and Phasing Plan | | | | | 32 | 4 | 12 | | | 48 | \$ 8,828 | \$ - | \$ 8,828 |
| 60% Project Construction Cost Estimate | | | | | 4 | 4 | 4 | | | 8 | \$ 1,664 | \$ - | \$ 1,664 |
| 60% Project Schedule | | | | | 8 | 8 | 8 | | | 40 | \$ 6,400 | \$ - | \$ 6,400 |
| 60% Engineer's Report w/ Geotechnical Report | | | | | 4 | 4 | 24 | | | 10 | \$ 2,204 | \$ - | \$ 2,204 |
| Coordination with Permitting and Regulatory Agencies | | | 2 | | 4 | 4 | 0 | | | 60 | \$ 11,780 | \$ - | \$ 11,780 |
| ISO 9001 - QA/QC Review | | 32 | | | 4 | 4 | 16 | 4 | | 20 | \$ 3,256 | \$ - | \$ 3,256 |
| Team Coordination Meetings | | 2 | | | 2 | 2 | 4 | 4 | | 9 | \$ 1,550 | \$ - | \$ 1,550 |
| One (1) DOA Review Submittal Meeting | | | 1 | | 8 | 8 | 2 | | | 20 | \$ 4,408 | \$ - | \$ 4,408 |
| Stakeholder Coordination | | | 4 | | 8 | 8 | 8 | | | 64 | \$ 10,720 | \$ - | \$ 10,720 |
| Task Management and Coordination | | | 16 | | 8 | 8 | | | | | | | |

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-002 PBI Cargo Ramp Expansion

| | | | | | | | | | | | | | | | | | | |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 340 | \$ | 236 | \$ | 270 | \$ | 255 | \$ | 201 | \$ | 215 | \$ | 128 | \$ | 129 | \$ | 96 |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | | | | Fee Estimate (\$) | | | | |
|--|------------------------|-------------|------------------------|----------------|-------------------------------|-----------------------------------|------------------|------------|-----------|-----------|------------|------------------|--------------|-------------------|--|--|--|--|
| | Principal | QC Reviewer | Senior Project Manager | Senior Planner | Design / Construction Manager | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total | | | | | |
| Task I-23-PBI-A-002 PBI Cargo Ramp Expansion | | | | | | | | | | | | | | | | | | |
| Phase 1B (90% CONSTRUCTION DOCUMENTS) | Total | 0 | 34 | 17 | 16 | 122 | 116 | 273 | 28 | 6 | 612 | \$105,288 | \$500 | \$105,788 | | | | |
| Cover Sheet (90%) | | | | | | | | 1 | | | | \$ 128 | \$ - | \$ 128 | | | | |
| Drawings Index (90%) | | | | | | | | 2 | | | | \$ 256 | \$ - | \$ 256 | | | | |
| Summary of Quantities/General Notes (90%) | | | | | | | | 2 | | | | \$ 686 | \$ - | \$ 686 | | | | |
| Safety and Security Plan (90%) | | | | | | | | 2 | 4 | | | \$ 1,604 | \$ - | \$ 1,604 | | | | |
| Staging and Haul Route Plan (90%) | | | | | | | | 1 | | | | \$ 1,787 | \$ - | \$ 1,787 | | | | |
| Overall Phasing Plans (90%) | | | | | | | | 16 | | | | \$ 3,282 | \$ - | \$ 3,282 | | | | |
| Individual Work Area Phasing Plans (90%) | | | | | | | | 24 | | | | \$ 5,540 | \$ - | \$ 5,540 | | | | |
| Construction Phasing and Security Notes and Details (90%) | | | | | | | | 2 | | | | \$ 658 | \$ - | \$ 658 | | | | |
| Survey Control Plan (90%) | | | | | | | | 2 | | | | \$ 256 | \$ - | \$ 256 | | | | |
| Existing Conditions Plan (90%) | | | | | | | | 12 | | | | \$ 3,200 | \$ - | \$ 3,200 | | | | |
| Demolition Plan (90%) | | | | | | | | 3 | | | | \$ 2,784 | \$ - | \$ 2,784 | | | | |
| Typical Sections (90%) | | | | | | | | 2 | | | | \$ 2,368 | \$ - | \$ 2,368 | | | | |
| Geometry Plans (90%) | | | | 16 | | | | 16 | 8 | | | \$ 8,824 | \$ - | \$ 8,824 | | | | |
| Marking Plans (90%) | | | | | | | | 2 | | | | \$ 942 | \$ - | \$ 942 | | | | |
| Marking Details (90%) | | | | | | | | 4 | | | | \$ 5,760 | \$ - | \$ 5,760 | | | | |
| Grading Plans (90%) | | | | | | | | 2 | | | | \$ 1,344 | \$ - | \$ 1,344 | | | | |
| Miscellaneous Details (90%) | | | | | | | | 4 | | | | \$ 942 | \$ - | \$ 942 | | | | |
| Cross Section Layout Plan (90%) | | | | | | | | 2 | | | | \$ 3,822 | \$ - | \$ 3,822 | | | | |
| Pavement Design | | | | | | | | 8 | | | | \$ 4,352 | \$ - | \$ 4,352 | | | | |
| 90% Technical Specifications | | | | | | | | 8 | | | | \$ 5,888 | \$ - | \$ 5,888 | | | | |
| 90% Front End Specifications & FAA General Provisions | | | | | | | | 12 | | | | \$ 2,688 | \$ - | \$ 2,688 | | | | |
| 90% Construction Safety and Phasing Plan | | | | | | | | 8 | | | | \$ 6,708 | \$ - | \$ 6,708 | | | | |
| 90% Project Construction Cost Estimate | | | | | | | | 4 | | | | \$ 1,664 | \$ - | \$ 1,664 | | | | |
| 90% Project Schedule | | | | | | | | 4 | | | | \$ 3,712 | \$ - | \$ 3,712 | | | | |
| 90% Engineer's Report w/ Geotechnical Report | | | | | | | | 16 | | | | \$ 2,204 | \$ - | \$ 2,204 | | | | |
| Coordination with Permitting and Regulatory Agencies | | | | | | | | 4 | | | | \$ 9,092 | \$ - | \$ 9,092 | | | | |
| ISO 9001 - QA/QC Review | | | | | | | | 8 | 4 | | | \$ 3,296 | \$ - | \$ 3,296 | | | | |
| Team Coordination Meetings | | | | | | | | 4 | 4 | | | \$ 1,372 | \$ 500 | \$ 1,872 | | | | |
| Perform One (1) Project Site Visit | | | | | | | | 2 | | | | \$ 1,349 | \$ - | \$ 1,349 | | | | |
| One (1) DOA Review Submittal Meeting | | | | | | | | 8 | | | | \$ 2,800 | \$ - | \$ 2,800 | | | | |
| Stakeholder Coordination | | | | | | | | 8 | | | | \$ 8,240 | \$ - | \$ 8,240 | | | | |
| Task Management and Coordination | | | | | | | | 16 | | | | \$ 79,647 | \$ 0 | \$ 79,647 | | | | |
| Phase 1C (100% CONSTRUCTION DOCUMENTS) | Total | 0 | 24 | 11 | 8 | 73 | 120 | 189 | 20 | 18 | 463 | \$79,647 | \$0 | \$79,647 | | | | |
| Cover Sheet (100%) | | | | | | | | 1 | | | | \$ 128 | \$ - | \$ 128 | | | | |
| Drawings Index (100%) | | | | | | | | 2 | | | | \$ 256 | \$ - | \$ 256 | | | | |
| Summary of Quantities (100%) | | | | | | | | 2 | | | | \$ 686 | \$ - | \$ 686 | | | | |
| Safety and Security Plan (100%) | | | | | | | | 2 | 4 | | | \$ 1,458 | \$ - | \$ 1,458 | | | | |
| Staging and Haul Route Plan (100%) | | | | | | | | 2 | | | | \$ 942 | \$ - | \$ 942 | | | | |
| Overall Phasing Plans (100%) | | | | | | | | 8 | | | | \$ 1,454 | \$ - | \$ 1,454 | | | | |
| Individual Work Area Phasing Plans (90%) | | | | | | | | 4 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Construction Phasing and Security Notes and Details (100%) | | | | | | | | 4 | | | | \$ 1,372 | \$ - | \$ 1,372 | | | | |
| Survey Control Plan (100%) | | | | | | | | 2 | | | | \$ 256 | \$ - | \$ 256 | | | | |
| Existing Conditions Plan (100%) | | | | | | | | 2 | | | | \$ 1,856 | \$ - | \$ 1,856 | | | | |
| Demolition Plan (100%) | | | | | | | | 4 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Typical Sections (100%) | | | | | | | | 4 | | | | \$ 4,956 | \$ - | \$ 4,956 | | | | |
| Geometry Plans (100%) | | | | | | | | 8 | 8 | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Marking Plans (100%) | | | | | | | | 4 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Marking Details (100%) | | | | | | | | 4 | | | | \$ 2,400 | \$ - | \$ 2,400 | | | | |
| Grading Plans (100%) | | | | | | | | 8 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Miscellaneous Details (100%) | | | | | | | | 4 | | | | \$ 1,856 | \$ - | \$ 1,856 | | | | |
| Cross Section Layout Plan (100%) | | | | | | | | 2 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Cross Sections (100%) | | | | | | | | 8 | | | | \$ 1,884 | \$ - | \$ 1,884 | | | | |
| Pavement Design | | | | | | | | 8 | | | | \$ 4,352 | \$ - | \$ 4,352 | | | | |
| 100% Technical Specifications | | | | | | | | 8 | | | | \$ 5,376 | \$ - | \$ 5,376 | | | | |
| 100% Front End Specifications & FAA General Provisions | | | | | | | | 12 | | | | \$ 4,214 | \$ - | \$ 4,214 | | | | |

Table B
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task L-23-PBI-A-002 PBI Cargo Ramp Expansion

| | | | | | | | | | | | | | | | | |
|----------------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 340 | \$ | 270 | \$ | 255 | \$ | 201 | \$ | 215 | \$ | 128 | \$ | 129 | \$ | 96 |
|----------------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | | Fee Estimate (\$) | | |
|--|------------------------|-------------|------------------------|----------------|-------------------------------|-----------------------------------|------------------|-----------|-----------|--------------|------------------|-------------------|------------------|--|
| | Principal | QC Reviewer | Senior Project Manager | Senior Planner | Design / Construction Manager | Project Manager / Senior Engineer | Project Engineer | Planner | Clerical | Total | Labor | Expenses | Total | |
| Task L-23-PBI-A-002 PBI Cargo Ramp Expansion | | | | | | | | | | | | | | |
| 100% Construction Safety and Phasing Plan | | | | | 4 | 4 | | | | 8 | | | 2,688 | |
| 100% Project Construction Cost Estimate | | | | | 16 | 4 | | | | 8 | | | 5,100 | |
| 100% Project Schedule | | | | | 4 | 4 | | | | 8 | | | 1,664 | |
| 100% Engineer's Report w/ Geotechnical Report | | | | | 4 | 4 | | | | 16 | | | 3,712 | |
| Coordination with Permitting and Regulatory Agencies | | | | | 4 | 4 | | | | 10 | | | 2,204 | |
| ISO 9001 - QA/QC Review | | | | | 24 | | | | | 28 | | | 6,180 | |
| Team Coordination Meetings | | | | | | 4 | | | | 8 | | | 1,372 | |
| One (1) DOA Review Submittal Meeting | | | | | 1 | 2 | | | | 2 | | | 1,349 | |
| Task Management and Coordination | | | | | 8 | 16 | | | | 48 | | | 8,744 | |
| Phase 2 BID AND AWARD SERVICES | | | | | 37 | 35 | 60 | 4 | 0 | 161 | \$29,902 | \$300 | \$29,902 | |
| Bid Drawings | | 9 | 16 | 1 | 2 | 2 | 12 | | | 17 | | | 2,638 | |
| Bid Technical Specifications | | | 2 | 1 | 1 | 1 | 1 | | | 5 | | | 1,084 | |
| Bid Front End Specifications & FAA General Provisions | | | 2 | 3 | 1 | 1 | | | | 6 | | | 1,358 | |
| Bid Construction Phasing and Safety Plan Report | | | | 1 | 1 | 1 | 3 | | | 5 | | | 800 | |
| Bid Project Construction Cost Estimate | | | | 1 | 1 | 1 | 2 | | | 4 | | | 672 | |
| ISO 9001 - QA/QC Review | | | | | 6 | | | | | 10 | | | 1,932 | |
| Task Management and Coordination | | | | | 4 | 4 | | | | 12 | | | 2,744 | |
| Assist DOA in Advertisement and Processing of Bid Documents | | | | | 4 | 4 | | | | 14 | | | 3,016 | |
| Prepare and attend Pre-Bid Meeting, Prepare Minutes | | | | | 4 | 4 | | | | 12 | | | 2,176 | |
| Prepare and Maintain Bid Holders Log | | | | | | | | | | 8 | | | 1,024 | |
| Respond to Contractor's Request for Information (RFI's) | | | | | 6 | 6 | | | | 14 | | | 3,036 | |
| Prepare and Issue Addenda | | | | | 8 | 8 | | | | 36 | | | 6,388 | |
| Attend Bid Opening Meeting | | | | | | | | | | 4 | | | 512 | |
| Prepare, Review and Evaluate Bid Tabulation and Bid Forms | | | | | 1 | 1 | | | | 2 | | | 672 | |
| Prepare and Submit Recommendation of Bid Award Letter to DOA | | | | | 2 | 2 | | | | 4 | | | 1,850 | |
| Total Fee - AECOM Technical Services, Inc. | 0 | 102 | 75 | 48 | 431 | 406 | 926 | 82 | 64 | 2,134 | \$365,733 | \$2,800 | \$368,533 | |

| | |
|--------------|---------------------|
| Lump Sum T&M | \$545,093.00 |
| Expenses | \$89,912.70 |
| TOTAL | \$637,805.70 |

| | |
|---|----------------------|
| Subconsultant Fees | |
| 1 Total Subconsultant Fee - Brown and Phillips (LS) | \$ 43,522.00 |
| Total Subconsultant Fee - Brown and Phillips (T&M) | |
| Total Subconsultant Fee - Brown and Phillips (Exp) | |
| 2 Total Subconsultant Fee - Tierra (Exp) | \$ 46,390.70 |
| Total Subconsultant Fee - Tierra (T&M) | \$ 34,930.00 |
| 3 Total Subconsultant Fee - Quantum Electrical Engineering (LS) | \$ 144,430.00 |
| 4 Total Subconsultant Fee - Chen Moore & Associates (LS) | |
| Total Fee - Subconsultants | \$ 269,272.70 |
| GRAND TOTAL FEE - BASIC ENGINEERING SERVICES | \$ 637,805.70 |

Prepared by: AECOM Technical Services, Inc.



June 5, 2023

Mr. Andrew Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

**Re: Palm Beach International Airport (PBI) Air Cargo Expansion Area
Topographic Survey**

Dear Andy:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site and all found monumentation will be tied in. The survey will be oriented to Palm Beach County International Airport horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County International Airport benchmarks (NAVD 1988). At least two benchmarks will be set onsite.

III. TIE IN IMPROVEMENTS AND CROSS SECTIONS

A complete topographic survey will be done at the site, tying in all above ground features. This will include but not be limited to buildings, pavement, walks, utilities, lakes, canals and drainage structures. We will obtain elevations on the site on an approximate 50' grid. We will locate sufficient points to give an accurate representation of the lay of the land. The approximate limits of the survey are highlighted in red on Attachment 'B'.

IV. AS-BUILT

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

OPTIONAL S.U.E. SERVICES

V. UTILITY TARGETING SERVICES

We will scan the area cross-hatched in red on Attachment 'B' and mark the underground utilities that service the site. We will then locate the designates and add them to the survey.

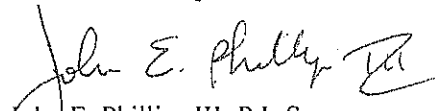
VI. TEST HOLES

If underground utilities are found on the site, we will perform up to ten (10) test holes at locations to be determined by you. We will then locate the test holes and add them to the survey.

VII. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide AECOM with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. We will perform the scope of services for **an hourly, not to exceed fee of \$43,522.00** (\$30,522.00 for the survey, \$8,000.00 for utility targeting [daily rate of \$2,000 times 4 days] and \$5,000.00 for ten test holes), see Attachment 'A' for an hourly estimate). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

Attachment

JEP/mb

This Proposal accepted this ____ day of _____, 2023

By: _____
AECOM

Print Name: _____

Title: _____

ATTACHMENT 'A'

Palm Beach International Airport (PBI) Air Cargo Expansion Area

Type of Survey: Topographic

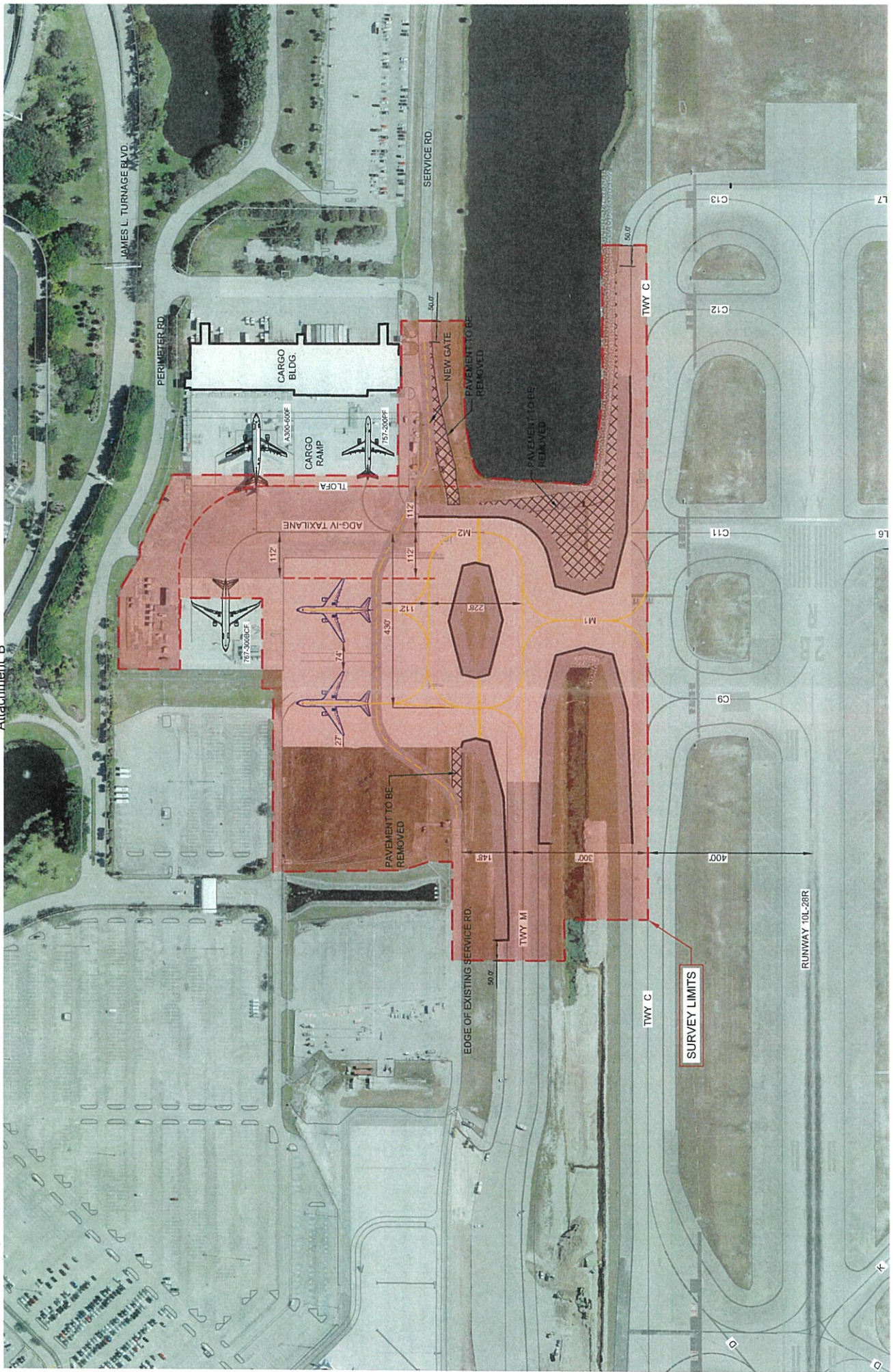
Size:

Date: June 5, 2023

| TASK | SURVEY CREW | CADD TECH | SURVEY TECH | PLS | COMMENTS |
|---|-------------|------------|-------------|------------|---|
| Meetings and Coordination | | | | 2 | |
| Horizontal Project Network Control | 16 | | 5 | 2 | Set control points |
| Vertical Project Network Control | 16 | | 3 | 1 | Establish onsite benchmarks |
| Tie In Improvements, Cross Sections and As-builts | 100 | | 16 | 5 | Locate above ground features, 50' cross sections and spot elevations, obtain asbuilt data |
| Underground Utilities | 8 | 2 | 2 | 1 | Locate marked utilities and test holes |
| Topographic Survey | | 32 | 7 | 4 | Prepare topographic survey |
| | | | | | |
| Total Hours: | 140 | 34 | 33 | 15 | |
| Rate/Hour | \$156.00 | \$96.00 | \$96.00 | \$150.00 | |
| Subtotal: | \$21,840.00 | \$3,264.00 | \$3,168.00 | \$2,250.00 | |
| Total Labor Cost: | | | | | \$30,522.00 |

| <u>Optional S.U.E.Services:</u> | <u>quantity</u> | <u>unit</u> | <u>cost/unit</u> | <u>total</u> | |
|---------------------------------|-----------------|-------------|------------------|--------------|--------------------|
| Utility Targeting | 4 | day | \$2,000.00 | \$8,000.00 | |
| Test Holes | 10 | each | \$500.00 | \$5,000.00 | |
| Total S.U.E. Services: | | | | | \$13,000.00 |
| TOTAL PRICE | | | | | \$43,522.00 |

Attachment 'B'





June 2, 2023

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607
Attn: Mr. Andrew Kacer, P.E., Southeast Aviation Manager
email: Andy.Kacer@aecom.com

Re: **Proposal for Geotechnical Services
Cargo Expansion Area
Palm Beach International Airport
West Palm Beach, Florida
TSFGEO Proposal No.: 2305-330.5**

Dear Andy:

As requested, **Tierra South Florida (TSFGEO)** is pleased to submit this proposal for the above-referenced project. The proposal is based on information provided by AECOM on May 22, 2023.

We understand that the cargo area will be expanded to the area north of Taxiway C and west of the existing Cargo Building.

This proposal includes an outline of our proposed scope of services to be performed, an estimate of the total fees, and our anticipated schedule for completion of the services.

PROPOSED SCOPE OF WORK

The proposed Geotechnical Investigation Services are summarized below in Table 1

| Table 1 – Proposed Field Testing | |
|---|--|
| Location | Proposed Services |
| Cargo Expansion Areas (Daytime) | Thirteen (13) Standard Penetration Test (SPT) Borings to approximately 13 feet below grade. |
| Cargo Expansion Areas (Nighttime) | Nine (9) SPT Borings to a depth of 13 feet Twenty-six (26) Pavement cores Five (5) CBR tests |

Following the completion of the field services with soil samples will be reviewed in the laboratory for engineering properties and a report will be prepared and submitted by a Geotechnical Engineer. The report will include the items summarized below in Table 2.

| Table 2 – Report to Include | |
|------------------------------------|--|
| Technical Area | Description of Report Items |
| General | <ul style="list-style-type: none"> - Summary of USDA Soil Information for the project area - Soil Profiles - Boring Location Plan - Results and Summary data for Laboratory Testing |
| Cargo Expansion Area | <ul style="list-style-type: none"> - Summary of soil suitability and restricted use conditions - Summary of Strata to be anticipated on the project. - California Bearing Ratio values from testing. - Summary of pavement and base course thickness |

The Geotechnical Report will also include a summary of findings, laboratory results including CBR, Moisture Content %, Organic Content %, and Percent Finer than No. 200 Sieve, and will be signed and sealed by a registered professional geotechnical engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings. Geotechnical related recommendations regarding site preparations and some construction considerations.

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned or airside utilities. **All utilities will be cleared via GPR by a specialty utility locating company.** We believe that significant coordination will likely be required to perform the field operations and it is our understanding that some of the work will be conducted during the nighttime. **Our field work will be performed by TSF personnel, escorted by AECOM personnel.**

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the services be performed pursuant to TSFGeo's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, the estimated total fee is:

| | |
|--|---------------------------|
| FIELD INVESTIGATION - Day | \$6,270.00 |
| FIELD INVESTIGATION - Night | \$13,437.50 |
| LABORATORY TESTING | \$5,165.00 |
| ENGINEERING/COORDINATION/MANAGEMENT | <u>\$21,518.20</u> |
| TOTAL | \$46,390.70 |

Our estimate covers the work needed to present our findings in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are functions of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.

SCHEDULE AND AUTHORIZATION

TSFGeo will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 3 to 4 days to complete. The written report can be submitted within three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary results can be provided to appropriate parties prior to submittal of the written report.

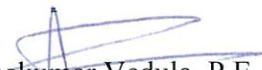
**Proposal for Geotechnical Services
Cargo Expansion Area
Palm Beach International Airport
West Palm Beach, Florida
TSFGeo Proposal No.: 2305-330
Page 4**

We at TSFGeo appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.

Raj Krishnasamy, P.E.
President


Ramakumar Vedula, P.E.
Principal Engineer

Attachments:

- General Conditions
- Fee Estimate
- Core Location Plan
- GPR Proposal

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

Proposal for Geotechnical Services
Cargo Expansion Area
Palm Beach International Airport
West Palm Beach, Florida
TSFGeo Proposal No.: 2305-330
Page 6

DAY TIME SERVICES

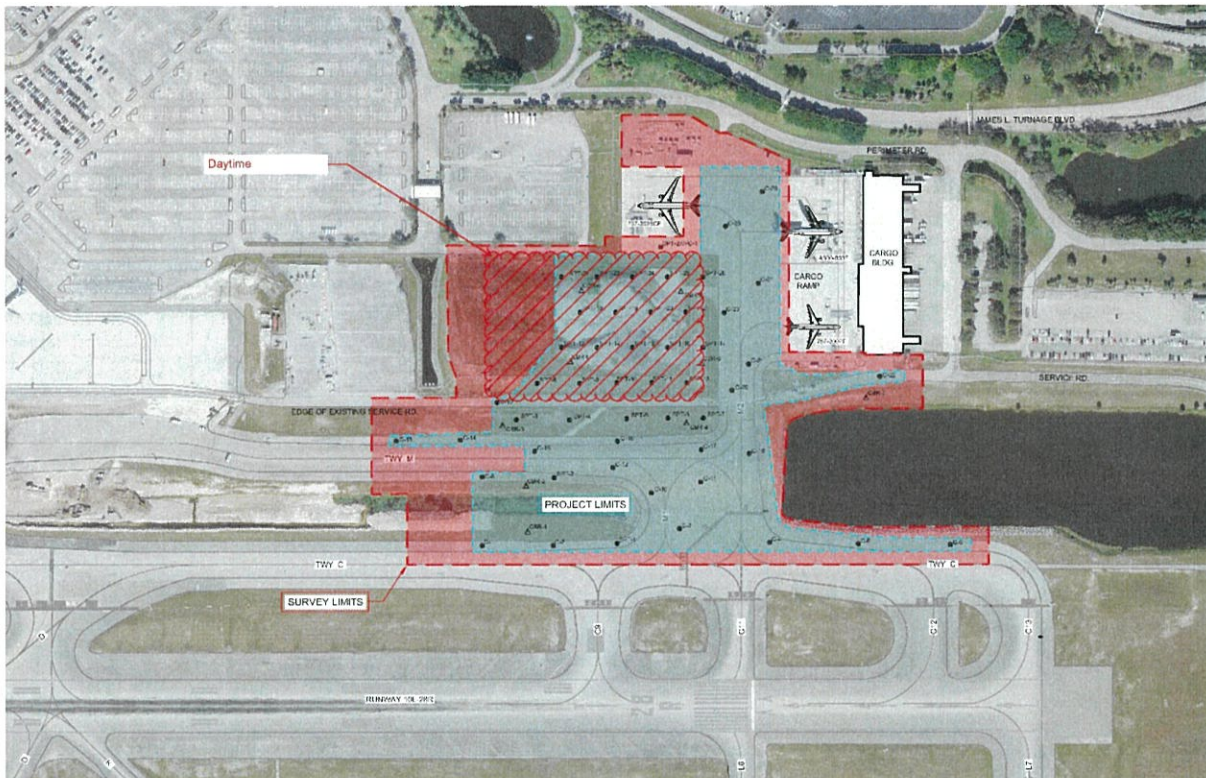
| | Unit | # of Units | Unit Price | | Total |
|---|------|------------|------------|--------|------------------|
| I. FIELD INVESTIGATION | | | | | |
| Mobilization of Men and Equipment | LS | 2 | \$ | 450.00 | \$ 900.00 |
| Truck-Mounted Equipment | DAY | 2 | \$ | 150.00 | \$ 300.00 |
| Support Vehicle | | | | | |
| Standard Penetration Test Borings (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 169 | \$ | 15.00 | \$ 2,535.00 |
| Grout-Seal Boreholes (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 169 | \$ | 7.00 | \$ 1,183.00 |
| Casing (By Truck-Mounted Equipment) | | | | | |
| Land: 0 - 50 ft depth | L.F. | 169 | \$ | 8.00 | \$ 1,352.00 |
| II. LABORATORY TESTING | | | | | |
| Natural Moisture Content Tests | Test | 10 | \$ | 15.00 | \$ 150.00 |
| Grain-Size Analysis - Full Gradation | Test | 10 | \$ | 65.00 | \$ 650.00 |
| Organic Content Tests | Test | 10 | \$ | 50.00 | \$ 500.00 |
| Atterberg Limit Tests | Test | 4 | \$ | 90.00 | \$ 360.00 |
| Laboratory CBR + Sampling | Test | 0 | \$ | 500.00 | \$ 0.00 |
| III. ENGINEERING/COORDINATION/MANAGEMENT | | | | | |
| Project Manager | Hour | 10 | \$ | 253.06 | \$ 2,530.60 |
| Principal Engineer | Hour | 6 | \$ | 269.40 | \$ 1,616.40 |
| Project Engineer | Hour | 24 | \$ | 166.53 | \$ 3,996.72 |
| Senior Technician | Hour | 24 | \$ | 91.68 | \$ 2,200.32 |
| CADD | Hour | 12 | \$ | 101.88 | \$ 1,222.56 |
| | | | | \$ | 19,496.60 |

**Proposal for Geotechnical Services
Cargo Expansion Area
Palm Beach International Airport
West Palm Beach, Florida
TSFGeo Proposal No.: 2305-330
Page 7**

NIGHT TIME SERVICES

| | Unit | # of Units | | Unit Price | | Total |
|---|------|------------|----|------------|----|------------------|
| I. FIELD INVESTIGATION | | | | | | |
| Mobilization of Men and Equipment | | | | | | |
| Truck-Mounted Equipment | LS | 2 | \$ | 450.00 | \$ | 900.00 |
| Support Vehicle | DAY | 2 | \$ | 150.00 | \$ | 300.00 |
| Standard Penetration Test Borings (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 117 | \$ | 20.00 | \$ | 2,340.00 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 23.00 | \$ | 0.00 |
| Grout-Seal Boreholes (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 117 | \$ | 8.00 | \$ | 936.00 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 9.50 | \$ | 0.00 |
| Casing (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 117 | \$ | 9.50 | \$ | 1,111.50 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 11.50 | \$ | 0.00 |
| Field Permeability (BHP) | Test | 0 | \$ | 450.00 | \$ | 0.00 |
| Pavement Cores, Asphalt | Each | 26 | \$ | 250.00 | \$ | 6,500.00 |
| Coring Machine + Generator Rental | Trip | 3 | \$ | 450.00 | \$ | 1,350.00 |
| II. LABORATORY TESTING | | | | | | |
| Natural Moisture Content Tests | Test | 5 | \$ | 15.00 | \$ | 75.00 |
| Grain-Size Analysis - Full Gradation | Test | 5 | \$ | 65.00 | \$ | 325.00 |
| Grain-Size Analysis - Single Sieve | Test | 5 | \$ | 35.00 | \$ | 175.00 |
| Organic Content Tests | Test | 5 | \$ | 50.00 | \$ | 250.00 |
| Atterberg Limit Tests | Test | 2 | \$ | 90.00 | \$ | 180.00 |
| Laboratory CBR + Sampling | Test | 5 | \$ | 500.00 | \$ | 2,500.00 |
| III ENGINEERING/COORDINATION/MANAGEMENT | | | | | | |
| Project Manager | Hour | 6 | \$ | 253.06 | \$ | 1,518.36 |
| Principal Engineer | Hour | 2 | \$ | 269.40 | \$ | 538.80 |
| Project Engineer | Hour | 20 | \$ | 166.53 | \$ | 3,330.60 |
| Senior Technician | Hour | 32 | \$ | 91.68 | \$ | 2,933.76 |
| CADD | Hour | 16 | \$ | 101.88 | \$ | 1,630.08 |
| | | | | | \$ | 26,894.10 |

BORING LOCATION PLAN



May 25, 2023

AECOM Technical Services, Inc.
Mr. Clint Martin, P.E.
Project Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach International Airport Cargo Expansion Project.

Dear Clint:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM an electrical design services fee proposal for Palm Beach International Airport (PBI) Cargo Expansion Project. The proposal is based upon information provided by AECOM via email on 5/24/2023. The following tasks are included in our scope of services:

Task 1: Design Documents

- Includes design coordination meetings with the DOA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Design new airfield lighting and signage systems for the (2) new taxiway connectors between Taxiway M and new Cargo Ramp. Includes modifications to existing conductor and conduit systems, play layouts, details, schedules, electrical calculations and demolition plans of existing airfield electrical systems.
- Includes airfield electrical plans reflecting the modification to the existing ALCMS graphic.
- Design apron lighting system comprised of (2) 80' lighting poles. Includes electrical calculations, point by point lighting calculations, plan layouts, details and riser diagrams. All photometric lighting calculations (point-by-point) shall be per the DOA requirements and Illuminating Engineering Society (IES) recommendations. Assume new apron lighting system will be powered from an existing electrical service point.
- Design relocation of electrical and communication systems for existing Perimeter Road Gate CPE2. Includes new gate arm operators, new card readers, new CCTV cameras, poles, pedestals, details, electrical calculations and riser diagrams. Card readers, CCTV cameras and gate arm operators (make and model) shall be provided to QUANTUM by the AECOM/DOA. Assumes existing gate control cabinet along with cabinet power and fiber optic cables are to remain.
- Design relocation of existing fiber optic cable/ductbank system for existing Gate V-3 impacted by cargo apron expansion. Includes plan layouts and details.
- Design new aircraft grounding system for new cargo apron expansion.

Task 2: Bid & Award

- Includes Bid and Award Services, addenda and RFI responses and revisions, review of bid pricing results and electrical recommendation.

Assumptions and Exclusions:

- AECOM shall provide all base drawings to QUANTUM on AutoCAD 2022 or higher.
- AECOM to provide marking files, electrical locations of airfield lighting and signage will be based off of the marking files.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for 60%, 90%, 100%, Bid Set reviews and Bid Set documents.
- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase and construction phases.
- Does not include any type design or specification of CCTV systems and access control systems.
- Does not include any kind of design for structural, foundation, gate layout or wind load calculations.
- Does not include construction services.

| | |
|---|--------------------|
| Our proposed Lump-Sum fee for Task 1 is: | \$ 33,300.00 |
| Our proposed Lump-Sum fee for Task 2 is: | \$ 1,630.00 |
| Our proposed total Lump-Sum fee is | \$34,930.00 |

Sincerely,



Amy L. Champagne-Baker, PE
President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - PBIA CARGO APRON EXPANSION PROJECT
QUANTUM ELECTRICAL ENGINEERING, INC.
SCOPE FEE SUMMARY
FEE PROPOSAL ELECTRICAL SERVICES to AE 5/25/2023

| PHASE OF WORK | Rate | \$170.00 | \$150.00 | \$145.00 | \$85.00 | \$140.00 | \$50.00 | Total | Expenses | TOTAL |
|---|---------------|-----------|--------------------|--------------------|-------------------|---------------|-----------------|------------|----------|--------------------|
| | Proj. Mgr. | Prof. Eng | Proj. Eng | CADD/Tech | Field Eng. | Clerical | Hours | | | |
| | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | TASK COST |
| Task 1: Design Documents | | | | | | | | | | |
| 60% Design Documents | | | | | | | | | | |
| Design Review Mtgs DOA and AE | | | 2 | | | | | 2 | | \$300.00 |
| Site Investigation, Record Drawing Review and Discovery | | | 8 | 4 | | | | 12 | | \$1,780.00 |
| Electrical Design Drawings | | | 16 | 32 | 48 | | | 96 | | \$11,120.00 |
| Specifications & Cost Estimate | | | 4 | 4 | | | 2 | 10 | | \$1,280.00 |
| QA/QC & Comment Incorporation | | | 4 | 2 | 4 | | | 10 | | \$1,230.00 |
| Subtotal | 0 | | 34 | 42 | 52 | 0 | 2 | 130 | | \$15,710.00 |
| 90% Design Documents | | | | | | | | | | |
| Design Review Mtgs DOA and AE | | | 1 | | | | | 1 | | \$150.00 |
| Electrical Design Drawings | | | 16 | 24 | 32 | | | 72 | | \$8,600.00 |
| Specifications & Cost Estimate | | | 4 | 4 | | | 1 | 9 | | \$1,230.00 |
| QA/QC & Comment Incorporation | | | 4 | 2 | 4 | | | 10 | | \$1,230.00 |
| Subtotal | 0 | | 25 | 30 | 36 | 0 | 1 | 92 | | \$11,210.00 |
| 100% Design Documents | | | | | | | | | | |
| Design Review Mtgs DOA and AE | | | 1 | | | | | 1 | | \$150.00 |
| Electrical Design Drawings | | | 8 | 16 | 16 | | | 40 | | \$4,880.00 |
| Specifications & Cost Estimate | | | 2 | 4 | | | | 6 | | \$880.00 |
| QA/QC & Comment Incorporation | | | 2 | | 2 | | | 4 | | \$470.00 |
| Subtotal | 0 | | 13 | 20 | 18 | 0 | 0 | 51 | | \$6,380.00 |
| Task 1 Total Hours | 0 | | 72 | 92 | 106 | 0 | 3 | 273 | | |
| Task 1 Total Labor Cost | \$0.00 | | \$10,800.00 | \$13,340.00 | \$9,010.00 | \$0.00 | \$150.00 | | | \$33,300.00 |
| Task 2: Bid & Award | | | | | | | | | | |
| Attend Pre-Bid Meeting | | | 1 | | | | | 1 | | \$150.00 |
| RFI Responses and Addendum Revisions | | | 4 | 2 | 4 | | 1 | 11 | | \$1,280.00 |
| Review of Bid Results & Recommendation | | | 1 | | | | 1 | 2 | | \$200.00 |
| Subtotal | 0 | | 6 | 2 | 4 | 0 | 2 | 14 | | \$1,630.00 |
| Task 2 Total Hours | 0 | | 6 | 2 | 4 | 0 | 2 | 14 | | |
| Task 2 Total Labor Cost | \$0.00 | | \$900.00 | \$290.00 | \$340.00 | \$0.00 | \$100.00 | | | \$1,630.00 |
| Grand Total Hours | 0 | | 78 | 94 | 110 | 0 | 5 | 287 | | |
| Grand Total Labor Cost | \$0.00 | | \$11,700.00 | \$13,630.00 | \$9,350.00 | \$0.00 | \$250.00 | | | \$34,930.00 |

June 02, 2023

SENT VIA E-MAIL (blehr@chenmoore.com)

Mr. Andrew Kacer
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

**Subject: PBI Cargo Apron Expansion – Phase 1
Civil Engineering Design Phase Scope of Services
CMA Proposal No. 23-0066.P0001-003**

Dear Mr. Kacer,

Chen Moore and Associates, Inc. (CMA) is pleased to submit the attached Scope of Services and associated fee estimate to assist your team with the drainage and permitting services for the referenced project.

PROJECT INTRODUCTION

This project includes expansion of the existing cargo ramp, realignment of the existing service road, proposed taxiway improvements, and related stormwater improvements from the northern most boundary of the project limits to the proposed connections to the centerline of Taxiway M. The impervious design for this phase shall include the apron pavement as shown in Figure 1 below. The drainage conveyance system design shall take into consideration the potential for additional impervious area based on the master plan cargo apron area expansion shown in Figure 2. Note, permitting efforts will only consider the apron pavement area shown in Figure 1.

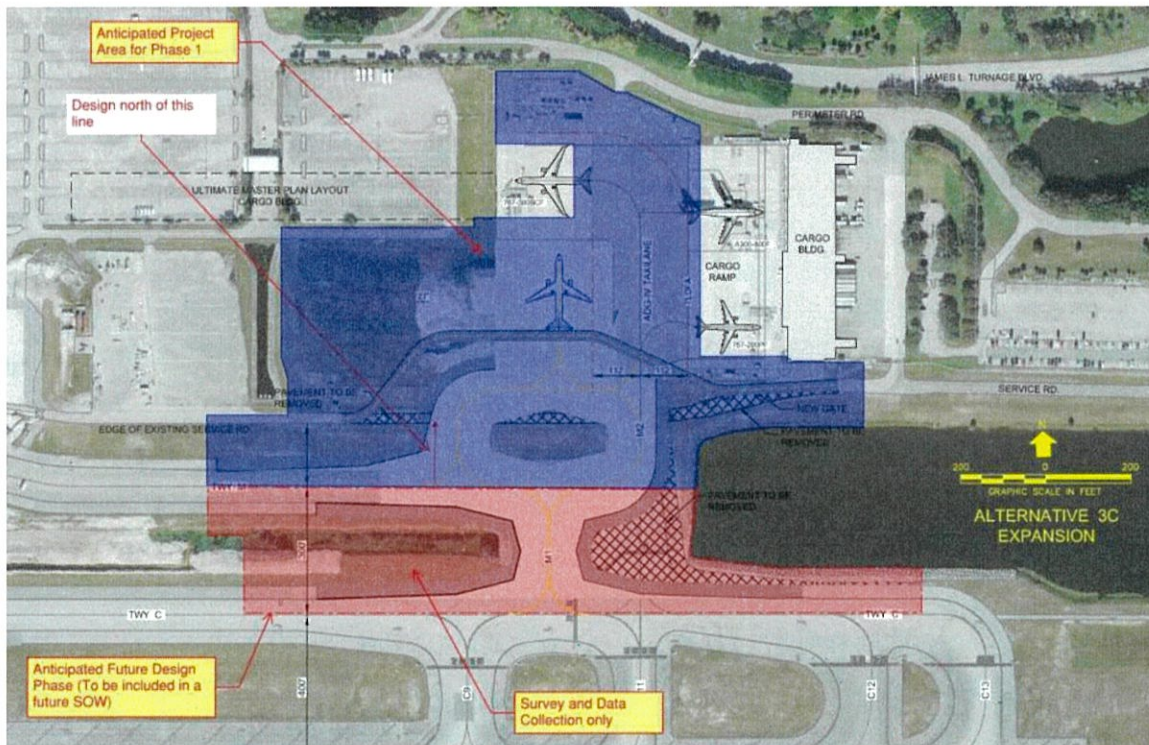


FIGURE 1: Depiction of Cargo Apron Area Expansion – Phase 1

TASK 2 – Engineering Design Services

Consultant shall include all relevant documentation required for 60%/90%/100% design phase submittals and shall provide Bidding Assistance as detailed below.

60% Preliminary Design

- Provide a preliminary closed drainage network and open channel conveyance layout, along with all corresponding hydraulic analyses and supporting calculations.
- Prepare 60% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination with other related disciplines. Submittal will include plan view, profile view, cross sections (where appropriate), and details.
- Assist with the creation or modification of Demolition Plans and Typical Section sheets, as needed. Electronic design files (digital CAD) will be provided for inclusion on the plan sheets, as required.
- Perform a Temporary Drainage Analysis for each phase of construction, based on the MOT design (developed by others).
- Prepare 60% technical specifications pertaining to the project's stormwater elements.
- Prepare 60% stormwater management design report, including relevant narrative, exhibits, and figures, and hydraulics and hydrologic analyses.
- Prepare 60% Erosion and Sediment Control plans and details.
- Provide a preliminary Opinion of Probable Cost for the project's stormwater elements.
- Attend one (1) meeting with the Owner/Client for project coordination.
- Coordinate with other project disciplines (Geotech, SUE, Airfield, Electrical) throughout this design phase.

90% Final Design

- Review and respond to Client/Owner comments from the previous submittal and update portions of the design, as appropriate, including written responses to provided comments pertaining to stormwater.
- Revised 90% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination and to submit for permits, including plan view, profile view, cross sections (where appropriate), and details.
- Assist with updating Demolition Plans and Typical Section sheets, as needed. Electronic design files (digital CAD) will be provided for inclusion on the plan sheets, as required.
- Revise the Temporary Drainage Analysis for each phase of construction, based on the MOT design (provided by others).
- Prepare 90% technical specifications pertaining to the project's stormwater elements.
- Revised stormwater management design report sufficient to submit for permit to the SFWMD.
- Revised 90% Erosion and Sediment Control plans and details.
- Provide an updated Opinion of Probable Cost for the project's stormwater elements.
- Attend one (1) meeting with the Owner/Client for project coordination.
- Coordinate with other project disciplines (Geotech, SUE, Airfield, Electrical) throughout this design phase.

100% Bid Plans

- Review and respond to Client/Owner comments from the previous submittal and update portions of the design, as appropriate, including written responses to provided comments pertaining to stormwater.

- Prepare 100% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination and to submit for permits, including plan view, profile view, cross sections (where appropriate), and details.
- Assist with finalizing Demolition Plans and Typical Section sheets, as needed. Electronic design files (digital CAD) will be provided for inclusion on the plan sheets, as required.
- Finalize the Temporary Drainage Analysis for each phase of construction, based on the MOT design (provided by others).
- Prepare 100% technical specifications pertaining to the project's stormwater elements.
- Provide Final stormwater management report.
- Prepare 100% Erosion and Sediment Control plans and details.
- Provide an updated Opinion of Probable Cost for the project's stormwater elements.
- Attend one (1) meeting with the Owner/Client for project coordination.
- Coordinate with other project disciplines (Geotech, SUE, Airfield, Electrical) throughout this design phase.

Bidding Assistance

- Attend one (1) pre-bid meeting.
- Participate in addendum preparation (up to two minor addenda).

TASK 3 – Permitting Services

Consultant shall prepare and submit permit applications for the following regulatory authority:

- Stormwater Management - South Florida Water Management District (SFWMD)

This task shall include the effort to schedule and conduct a pre-application meeting with the South Florida Water Management District (SFWMD) pertaining to stormwater design, including the preparation of a meeting agenda and meeting minutes. The task shall also include preparing applications, correspondence with regulatory reviewers, and any required responses for up to two rounds of comments and responses for Requests for Additional Information (RAI). Providing permit fees are not included and shall be the responsibility of the Owner. Based on the stormwater master plan for PBI, a water quantity analysis (ICPR) and modification of existing stormwater management features is not anticipated and is not included in this scope of work.

The basis for the above scope of services and associated fee(s) are based on the following:

- Design services are for Phase 1 of the expansion only. Consideration will be given during the design development for approximate pavement areas of future Apron Area expansion in sizing stormwater systems.
- Surveying, geotechnical investigation are to be performed by the Client, as required.
- If any off-site stormwater or off-site roadway improvements are required, they shall be rendered as an Additional Service.
- Franchise utility (such as FPL, telecom, and natural gas) relocation and/or service design shall be by others.
- Design services exclusively pertain to stormwater. Design associated with water, wastewater, landscape architecture, irrigation, site planning, pavement, signage and markings, Maintenance of Traffic, and detailed grading are not included.
- Site lighting is not included in this proposal.
- Client shall provide submittal fees for government agencies.
- This project is to be permitted for Phase 1 of the expansion only.
- Phased design and/or phased permitting may require an Additional Service.



- No construction management or construction administration services were included in this proposal. If requested, this effort shall be rendered as an additional service.

Information to be provided by the Client:

- A signed and sealed boundary and topographic survey and associated digital CAD File.
- A letter from the property owner granting access to the site and giving approval for Consultant to perform the services listed above.
- Filing and permit application fees, review fees, impact fees or any other associated assessments by other governments/agencies.
- Copies of all relevant data, including correspondence, traffic reports, plans or information in the Client’s possession which may be beneficial to the work effort performed by Consultant.
- Previous reports and assessments.
- Legal description of the site.

SCHEDULE AND FEES

Consultant shall schedule work upon receipt of signed approval for this project as required. Per discussions with your team, the goal is to start immediately upon notice to proceed and official authorization from the Client. The total lump sum fee for this project will be divided as follows:

| <u>TASK(s)</u> | <u>Task Description</u> | <u>Lump Sum</u> | <u>Hourly</u> | <u>Total Fees</u> |
|--|---|-----------------|---------------|---------------------|
| WATER RESOURCES ENGINEERING AND STORMWATER PERMITTING | | | | |
| TASK 1 | Project Initiation, Information Gathering, and Site Investigation | \$5,560.00 | - | \$5,560.00 |
| TASK 2 | Engineering Design Services | \$121,370.00 | - | \$116,250.00 |
| TASK 3 | Permitting Services | \$22,620.00 | - | \$22,620.00 |
| PROJECT TOTAL | | | | \$144,430.00 |

Reimbursable expenses for the tasks above are included in the lump sum price. Additional reimbursables requested by the client shall be rendered as Additional Services.

Should you have any questions, please do not hesitate to contact me at my office at +1 (561) 746-6900, my cell phone at +1 (904) 707-7724, or send me an electronic message at blehr@chenmoore.com.

Respectfully submitted,

Benjamin Lehr, PE, LEED AP
 Director – Transportation
 06/01/2023

Attachment(s):
 Fee Estimate

PBI Cargo Apron Expansion - Phase 1 - AECOM
Fee Estimate

Chen Moore and Associates, Inc.

CMA Project No. 23-0066.P0001-003

| Hourly Rate | Project | Principal | Senior | Project | Associate | Administrative | Total |
|---|-----------|-----------|------------|------------|------------|----------------|---------------------|
| | Principal | Engineer | Engineer | Engineer | Engineer | Staff | |
| | \$360.00 | \$250.00 | \$200.00 | \$150.00 | \$125.00 | \$90.00 | |
| TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE INVESTIGATION | | | | | | | |
| Initial Field Visit | | 4 | | 4 | | | \$1,600.00 |
| Existing Document Review | | 2 | 6 | 4 | | | \$2,300.00 |
| Project Kickoff Meeting and Project Setup | | 2 | 4 | | | 4 | \$1,660.00 |
| Task 1 Total | 0 | 8 | 10 | 8 | 0 | 4 | \$5,560.00 |
| TASK 2 – ENGINEERING DESIGN SERVICES | | | | | | | |
| 60% PRELIMINARY DESIGN SUBMITTAL | | | | | | | |
| Preliminary Closed Drainage Network and Open Channel Layout | | 2 | 8 | 20 | 16 | | \$7,100.00 |
| Preliminary Hydraulic Analysis and Supporting Calculations | | 4 | 12 | 20 | 16 | | \$8,400.00 |
| Plans Production and Details | | 2 | 8 | 16 | 16 | | \$6,500.00 |
| Plans Assistance for Demolition Plans and Typical Sections | | 2 | 8 | 12 | 8 | | \$4,900.00 |
| Temporary Drainage Analysis | | 4 | 12 | 20 | 8 | | \$7,400.00 |
| Technical Specifications | | 2 | 4 | 8 | 4 | | \$3,000.00 |
| Design Report | | 2 | 8 | 12 | 8 | | \$4,900.00 |
| Preliminary Erosion Control Sheets and Details | | 2 | 4 | 8 | 8 | | \$3,500.00 |
| Preliminary Opinion of Probable Cost | 1 | 2 | 4 | 4 | 4 | | \$2,760.00 |
| 60% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| Coordination with Others (Geotech, SUE, Airfield, Electrical) | | 2 | 4 | 2 | | | \$1,600.00 |
| QA/QC | 1 | 4 | 4 | 8 | 4 | | \$3,860.00 |
| 90% FINAL DESIGN SUBMITTAL | | | | | | | |
| Incorporate 60% Design Submittal Comments | | 2 | 4 | 8 | 8 | | \$3,500.00 |
| Update Hydraulic Analysis and Supporting Calculations | | 2 | 8 | 12 | 12 | | \$5,400.00 |
| Update Construction Plans and Details | | 1 | 6 | 12 | 8 | | \$4,250.00 |
| Plans Assistance for Updating Demolition Plans and Typical Sections | | 1 | 4 | 8 | 8 | | \$3,250.00 |
| Update Temporary Drainage Analysis | | 2 | 8 | 12 | 12 | | \$5,400.00 |
| Update Technical Specifications | | 1 | 4 | 4 | 2 | | \$1,900.00 |
| Update Design Report | | 1 | 4 | 8 | 4 | | \$2,750.00 |
| Update Erosion Control Sheets and Details | | 1 | 2 | 6 | 6 | | \$2,300.00 |
| Update Opinion of Probable Cost | 1 | 1 | 2 | 4 | 4 | | \$2,110.00 |
| 90% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| Coordination with Others (Geotech, SUE, Airfield, Electrical) | | 2 | 4 | 2 | | | \$1,600.00 |
| QA/QC | 1 | 2 | 4 | 4 | 4 | | \$2,760.00 |
| 100% ISSUED FOR BID | | | | | | | |
| Incorporate 90% Design Submittal Comments | | 1 | 2 | 6 | 4 | | \$2,050.00 |
| Finalize Hydraulic Analysis and Supporting Calculations | | 1 | 4 | 4 | 4 | | \$2,150.00 |
| Finalize Construction Plans and Details | | | 2 | 4 | 4 | | \$1,500.00 |
| Assistance for Finalizing Demolition Plans and Typical Sections | | | 2 | 4 | 4 | | \$1,500.00 |
| Finalize Temporary Drainage Analysis | | 1 | 2 | 6 | 4 | | \$2,050.00 |
| Finalize Technical Specifications | | 1 | 2 | 4 | 2 | | \$1,500.00 |
| Finalize Design Report | | 1 | 2 | 2 | 2 | | \$1,200.00 |
| Finalize Erosion Control Sheets and Details | | | 2 | 2 | 4 | | \$1,200.00 |
| Final Opinion of Probable Cost | 1 | 1 | 2 | 2 | 2 | | \$1,560.00 |
| 100% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| Coordination with Others (Geotech, SUE, Airfield, Electrical) | | 2 | 2 | 1 | | | \$1,050.00 |
| QA/QC | 1 | 2 | 4 | 4 | | | \$2,260.00 |
| Produce Signed and Sealed Construction Plans and Calculations | 1 | 1 | | 2 | | | \$910.00 |
| Revise and Resubmit (Assume 1 Occurrence) | 1 | 1 | 4 | 4 | 4 | | \$2,510.00 |
| BIDDING ASSISTANCE | | | | | | | |
| Pre-Bid Meeting | | | 2 | | | | \$400.00 |
| Addendum Preparation (up to two minor addenda) | 1 | 2 | 8 | | 4 | 4 | \$3,320.00 |
| Task 2 Total | 8 | 59 | 162 | 255 | 194 | 0 | \$116,250.00 |
| TASK 3 – PERMITTING SERVICES | | | | | | | |
| Existing Permit Review and Pre-Application Meeting Request | | 1 | 2 | 4 | | | \$1,250.00 |
| Pre-Application Meeting with SFWMD | | 1 | 1 | | | | \$450.00 |
| Pre-Application Meeting Minutes | | | 1 | 2 | | | \$500.00 |
| SFWMD ERP Application Documents | | 2 | 4 | 8 | 4 | | \$3,000.00 |
| Water Quality Analysis (BMP for Pine Lake Impairment) | | 2 | 8 | 12 | 12 | | \$5,400.00 |
| ERP Application Supporting Exhibits/Plan Production | | 1 | 4 | 12 | 8 | | \$3,850.00 |
| QA/QC | 1 | 2 | 4 | 4 | | | \$2,260.00 |
| Submit ERP Application Package to ePermitting Site | | | 2 | 4 | | | \$1,000.00 |
| Respond to RAIs (up to two occurrences) | 1 | 2 | 8 | 4 | 4 | | \$3,560.00 |
| Issue Final Permit Application | | 1 | 2 | | | 1 | \$1,350.00 |
| Task 3 Total | 3 | 13 | 36 | 50 | 28 | 1 | \$22,620.00 |
| TOTAL FEES | | | | | | | \$144,430.00 |

| TASK | Total Hrs/Task | Total \$/Task |
|--|----------------|---------------------|
| TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE | 30 | \$5,560.00 |
| TASK 2 – ENGINEERING DESIGN SERVICES | 678 | \$116,250.00 |
| TASK 3 – PERMITTING SERVICES | 131 | \$22,620.00 |
| TOTAL | 839 | \$144,430.00 |

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-3

Miscellaneous Planning, Engineering and Construction Services

**Palm Beach International Airport (PBI)
North Palm Beach County General Aviation Airport (F45)
Palm Beach County Park Airport (LNA)
Palm Beach County Glades Airport (PHK)
Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023**

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM or CONSULTANT) provide professional services for the Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023 Project (Project).

PROJECT TEAM

| Firm Name (CONSULTANT / SUBCONTRACTOR) | Type of Services |
|---|---------------------------------|
| AECOM Technical Services, Inc. (CONSULTANT) | Miscellaneous As-Needed Support |

AECOM will assist the DOA with general aviation planning support tasks, for the four (4) DOA airports, that are frequently requested and typically require only a few hours/days of effort and are required in a short timeframe. The specific tasks expected to be developed are described below:

SCOPE OF WORK

- 01: The DOA periodically requests the CONSULTANT to conduct Independent Fee Estimates (IFE) on various projects varying in size and scope of work. AECOM will submit an initial Independent Fee Estimate (Cover Letter plus Spreadsheet) for each of these tasks, followed up by clarifications of our reasoning for developing our associated fees.
- 02: AECOM will assist the DOA with miscellaneous planning, programming, and engineering support services for various tasks at the DOA airports and

associated properties. These tasks typically include updating planning maps and sketches, evaluating and providing recommendations for miscellaneous small assignments, preparing preliminary cost estimates, and other miscellaneous tasks.

- 03: This task also includes developing general project scopes of work and rough order of magnitude budget estimates for DOA use in the planning, engineering, and programming of upcoming design and construction projects.

PROJECT SCHEDULE

The schedule for each of these tasks will vary.

Exhibit B-1
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023

| Task Description | Billing Rate: | | | | | | | | | | Labor Estimate (Hours) | | | | | Fee Estimate (\$) | | | | |
|---|---------------|------|----|-----|----|-----|----|-----|----|-----|------------------------|-----|----|-----|----|-------------------|-------|--------------|-------|--|
| | \$ | 3.40 | \$ | 236 | \$ | 270 | \$ | 255 | \$ | 128 | \$ | 129 | \$ | 100 | \$ | 96 | Total | Expenditures | Total | |
| Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023 | | | | | | | | | | | | | | | | | | | | |
| 01 Independent Fee Estimates (IFE) | | | | | | | | | | | | | | | | | | | | |
| 02 Miscellaneous Programming and Engineering | | | | | | | | | | | | | | | | | | | | |
| 03 Programming for Upcoming Tasks | | | | | | | | | | | | | | | | | | | | |
| Total Fee - AECOM Technical Services, Inc. | | | | | | | | | | | | | | | | | | | | |

Subconsultant Fees Task 1.0

Task 1.0 (Lump Sum) \$49,735
 Task 2.0 (Time & Material) \$0
 Expenses \$0
Total \$49,735

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-4

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) develop this Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services Project (Project) at Palm Beach International Airport (PBI). This Project includes permitting and resident inspection services, and is a supplemental task, to the Task I-20-PBI-A-034: PBI Terminal Roof Improvements Project (Original Project).

PROJECT TEAM

The Team for the Project will consist of:

| Firm Name (CONSULTANT / SUBCONSULTANT) | Type of Services |
|---|------------------------------|
| AECOM Technical Services, Inc. (CONSULTANT) | Project Management |
| Tierra South Florida (TSF) (SUBCONSULTANT) | Resident Inspection Services |

PROJECT OBJECTIVE AND APPROACH

The scope of services for this Project includes providing resident inspections and materials testing for the Task I-20-PBI-A-034: PBI Terminal Roof Improvements Project (Original Project) that is currently under construction. The resident inspections will focus on observing areas after demolition and prior to applying new roofing materials, drain and flashing installation, placement of reinforcing steel in roof driveways, and concrete placement.

PROJECT SCHEDULE

The overall construction duration is 365 calendar days, but this Project's duration is 185 calendar days, thru the end of the Project. Resident Inspections for the first 180 calendar days of construction are being performed under Task III-23-PBI-A-112 PBI Roof Replacement Additional Services.

PROJECT DELIVERABLES

Project Deliverables includes documents required for periodic resident inspection and material testing reports.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
3. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
4. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services

Billing Rate: \$ 98 \$ 270 \$ 201 \$ 128 \$ 96

| Task Description | Labor Estimate (Hours) | | | | | | Fee Estimate (\$) | | |
|---|---------------------------------------|------------------------|----------------------|------------------|----------|-------|-------------------|---------|---------|
| | Resident Project Representative (RPR) | Senior Project Manager | Construction Manager | Project Engineer | Clinical | Total | Expenses | Excess | Total |
| Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services | | | | | | | | | |
| 1.0 J Task management and Co-ordination | 0 | 2 | 8 | 14 | 4 | 28 | \$0 | \$4,324 | \$4,324 |
| Total Fee - AECOM Technical Services, Inc. | 0 | 2 | 8 | 14 | 4 | 28 | 0 | \$4,324 | \$4,324 |

| | | | |
|------------------------------|-----|----|--------------------|
| Subconsultant Fees Task 1.0 | LS | \$ | \$4,324.00 |
| 1 Tierra South Florida (TSF) | T&M | \$ | \$41,946.40 |
| Tierra South Florida (TSF) | | | \$0 |
| Total | | | \$46,272.40 |

Total Fee - Subconsultants \$ 41,946.40
 GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 46,272.40

Prepared by: AECOM Technical Services, Inc.



May 8, 2023; Revised May 24, 2023

AECOM
2 Alhambra Plaza, Suite 900
Coral Gables, Florida 33134

Attention: Mr. Ron Irrgang, Project Manager
Subject: Proposal for Construction Material Testing and Special Inspection Services
For the period through July 2023
PBIA Terminal Roofing
West Palm Beach, Florida
TSF Proposal No. 2305-289.3

Dear Ron:

As requested, TSFGEO is pleased to submit this proposal for providing Construction Material Testing and Special Inspection Services for the above-referenced project. This proposal presents a general discussion of services that we understand will be required for this project and our Schedule of Fees for such services.

PROJECT DESCRIPTION

Based on information provided to us, we understand that the proposed construction will include a roof replacement on the Terminal Building at PBIA. The roof area is 106,300 sf. The project duration is estimated to be completed in May 2024.

PROPOSED SCOPE OF SERVICES

We recognize that construction projects are built in the "real world" and that proposed schedules do not always work out. Therefore, we appreciate the importance of being able to respond to requests for our services on short notice and of working hours other than the normal schedule, including nighttime work and weekend work.

Based on our understanding of the project requirements, we anticipate that the following testing services will be required during the design and construction phases of the project. Please note that our services do not replace or alter warranties provided by the sub-contractors and manufacturers.

CONSTRUCTION MATERIAL TESTING SERVICES

- Conduct slump, and temperature testing on concrete;
- Mold compressive strength test cylinders (5 cylinders per set);
- Test compressive strength concrete cylinders for driveway;

Fees Breakdown for Construction Material Testing and Special Inspection Services

| ITEM | Quantity | Rate | Units | Extended |
|--|-----------------|-----------|-------|---------------------|
| Field and Laboratory Testing Services | | | | |
| CONCRETE/GROUT/MORTAR: | | | | |
| Concrete Compression Test (Min four (4) cylinders per set) | | | | |
| Prepare cylinders & slump test on site & deliver to lab | 6 | \$ 150.00 | set | \$ 900.00 |
| Concrete Compression test only (deliver to lab) | 30 | \$ 20.00 | each | \$ 600.00 |
| | Subtotal | | | \$ 1,500.00 |
| INSPECTIONS | | | | |
| Threshold Inspector | 360 | \$ 101.88 | hour | \$ 36,676.80 |
| | Subtotal | | | \$ 36,676.80 |
| Professional and Technical Services* | | | | |
| Principal Engineer | 14 | \$ 269.40 | hour | \$ 3,771.60 |
| | Subtotal | | | \$ 3,771.60 |
| Total Estimated Fees | | | | \$ 41,948.40 |

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-5

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services Project (Project) at Palm Beach International Airport (PBI). This Project includes threshold inspection services, and is a supplemental task, to the Task I-21-PBI-A-047 PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3 Project (Original Project).

PROJECT TEAM

The Team for the Project will consist of:

| Firm Name (CONSULTANT / SUBCONSULTANT) | Type of Services |
|---|-------------------------------|
| AECOM Technical Services, Inc. (CONSULTANT) | Project Management |
| Tierra South Florida (TSF) (SUBCONSULTANT) | Threshold Inspection Services |

PROJECT OBJECTIVE AND APPROACH

The scope of services for this Project includes providing threshold inspections for the Task I-21-PBI-A-047 PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3 Project (Original Project), that is currently under construction. The threshold inspections will focus on repairs to the concrete garage structure, specifically partial depth concrete repairs, crack repairs, and drainage system repairs.

PROJECT SCHEDULE

The overall construction duration is 240 calendar days, but this Project's duration is 180 calendar days, thru the end of the Project. Threshold Inspections for the first 60 calendar days of construction are being performed under Task III-23-PBI-A-111 PBI Garage Repairs Additional Services

PROJECT DELIVERABLES

Project Deliverables includes documents required for permitting and periodic threshold inspection reports.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
3. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
4. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services

Billing Rate: \$ 98 | \$ 270 | \$ 201 | \$ 128 | \$ 98

| Task Description | Labor Estimate (Hours) | | | | | | Fee Estimate (\$) | | |
|--|---------------------------------------|------------------------|----------------------|------------------|----------|-------|-------------------|----------|---------|
| | Resident Project Representative (RPR) | Senior Project Manager | Construction Manager | Project Engineer | Clerical | Total | Labor | Expenses | Total |
| Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services | | | | | | | | | |
| Task management and Co-ordination | 0 | 8 | 8 | 20 | 12 | 48 | \$7,504 | \$0 | \$7,504 |
| Total Fee - AECOM Technical Services, Inc. | 0 | 8 | 8 | 20 | 12 | 48 | \$7,504 | 0 | \$7,504 |

| | |
|--------------|--------------------|
| LS | \$7,504.00 |
| TM | \$75,648.96 |
| EXP | \$0 |
| Total | \$83,152.96 |

| | | | |
|------------------------------|-----|----|-----------|
| Subconsultant Fees Task 1.0 | LS | \$ | |
| 1 Tierra South Florida (TSF) | T&M | \$ | 75,648.96 |
| Tierra South Florida (TSF) | | | |

Total Fee - Subconsultants \$ 75,648.96

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 83,152.96

Prepared by: AECOM Technical Services, Inc.



May 8, 2023, Revised May 24, 2023

AECOM
2 Alhambra Plaza, Suite 900
Coral Gables, Florida 33134

Attention: Mr. Saul Perez, PE Associate Vice President

Subject: Proposal for Threshold Inspection Services, after July 2023
PBIA Parking Garage -Repairs
West Palm Beach, Florida
TSF Proposal No. 2305-287.4

Dear Saul:

As requested, TSFGEO is pleased to submit this proposal for providing Threshold Inspection Services for the above referenced project. This proposal presents a general discussion of services that we understand will be required for this project and our Schedule of Fees for such services.

PROJECT DESCRIPTION

Based on information provided to us, we understand that the proposed construction will include repairs to the Long Term and Short Term Parking Garages at PBIA. The repairs will include partial depth concrete repair, epoxy injection of cracks, routing and sealing of cracks. The project duration is estimated to be 240 days.

PROPOSED SCOPE OF SERVICES

We recognize that construction projects are built in the "real world" and that proposed schedules do not always work out. Therefore, we appreciate the importance of being able to respond to requests for our services on short notice and of working hours other than the normal schedule, including nighttime work and weekend work.

Based on our understanding of the project requirements, we anticipate that the following testing services will be required during the design and construction phases of the project.

THRESHOLD INSPECTION SERVICES

- Observe preparation of areas to receive concrete/grout repairs.
- Observe preparation of areas to receive epoxy injection repairs.
- Observe reinforcing steel placement.
- Observe core holes and surface preparation at new drain locations.

PROFESSIONAL SERVICES

- Provide periodic reports documenting laboratory tests and field data and submit to appropriate parties;
- Provide Senior Engineer to review daily reports, coordination, consultation and meetings.

Please note that our services do not include supervision or direction of the actual work. Job site safety will be the sole responsibility of the contractor. Construction defects not related to structural works, such as water penetration (in roofing, windows, doors, louvers), and building finishings (interior, exterior), stairs (railings, surface finish, tread/riser ratio) are not part of our scope of work. TSFGeo cannot be responsible for non-structural defects that could lead to structural elements failures down the road.

ESTIMATED FEE

The fees for our services will be highly dependent on the construction schedule. We propose to provide our services on a unit cost basis; based on the actual services performed and the unit fees attached to this proposal. Invoices will be submitted monthly for the portion of work completed. We also understand a new contract will be in place at the end of July 2023. This proposal covers the period after July 2023, and has been prepared with the new contract rates. An estimate for the proposed services is indicated below:


- Threshold Inspections and Testing after July 2023 \$ 75,648.96

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



R. Morgan Dickinson, P.E.
Principal Engineer



Stephen Hey
Construction Services Manager

- Attachments:
- Fee Breakdown Schedule
 - General Notes
 - Authorization
 - General Terms and Conditions

Fees Breakdown for Threshold Inspection Services

| ITEM | Quantity | Rate | Units | Extended |
|---|----------|-----------|-------|----------------------------|
| INSPECTIONS | | | | |
| Threshold Inspector | 687 | \$ 101.88 | hour | \$ 69,991.56 |
| Professional and Technical Services* | | | | \$ - |
| Principal Engineer | 21 | \$ 269.40 | hour | \$ 5,657.40 |
| Subtotal | | | | <u>\$ 75,648.96</u> |

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-6

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI A) Task I-23-LNA-A-006 LNA Phases 3 and 4

OVERVIEW

The Palm Beach DOA Department of Airports (DOA) has requested AECOM Technical Services, Inc. (CONSULTANT) provide Professional Engineering Services associated with the Task I-23-LNA-A-006 LNA Phases 3 and 4 Project (Project) at Palm Beach County Park Airport (LNA). The project consists of the Phase 3 and Phase 4 of the redevelopment site areas to support the existing and future growth associated with the general aviation facilities on the south side of the airport.

The CONSULTANT will provide engineering services for the design and permitting of the Phase 3 and Phase 4 redevelopment site areas. Engineering services include, survey, geotechnical, civil, stormwater, water, and sanitary sewer upgrades with replacement of the existing lift station, lighting, utility coordination, and landscape design. The CONSULTANT will prepare construction documents; and support the DOA during the bid and award services. A brief overview of the Project team and pertinent tasks to be performed for the Project are detailed in the following sections.

Project Team

This Project Team for the services and the respective type of services to be provided by the Team are provided below:

| Firm Name (CONSULTANT/SUBCONTRACTOR) | Type of Services |
|---|---|
| AECOM Technical Services, Inc. (AECOM) (CONSULTANT) | Project Management; Civil, Utility Coordination and Water and Sanitary Sewer Design/Permitting Services |
| Brown and Phillips (B&P) (SUBCONSULTANT) | Topographic Survey / Sub-surface Utility Locates |
| Chen Moore & Associates (CMA) (SUBCONSULTANT) | Stormwater Analysis, Design and Permitting |
| Quantum Electrical Engineering (QEE) (SUBCONSULTANT) | Electrical Engineering Services |
| Tierra South Florida (TSF) (SUBCONSULTANT) | Geotechnical Investigations |

SCOPE OF SERVICES

The scope of services will follow two distinct phases: Phases 1 and 2. Phase 1 consists of three (3) subphases: sixty percent (60%) design completion of the contract documents (Phase 1A); ninety percent (90%) design completion of the contract documents (Phase 1B); and final design completion (100%) of contract documents (Phase 1C). Phase 2 consists of Procurement support, Bidding and Award of Contract requirements.

A brief definition for each of the Phases included in the scope of services is provided below:

PHASE 1A - CONSULTANT will develop the Contract Documents to a predetermined completion milestone (60% of completion). CONSULTANT will develop the Program Costs and prepare Schedule/Phasing Plans.

PHASE 1B - CONSULTANT will develop the Contract Documents to 90% to allow the Project to be reviewed and preliminarily submitted for applicable permitting agencies. CONSULTANT will update Program Costs, Schedule and Phasing Plans.

PHASE 1C - CONSULTANT will complete the Contract Documents to 100% to allow the Project to be permitted, bid, and constructed. CONSULTANT will prepare the Final Program Cost Estimate, Schedule and Phasing Plans.

PHASE 2 - CONSULTANT will assist the DOA in obtaining Bids and in the Award of a Construction Contract, as required.

The following paragraphs summarize the CONSULTANT'S Basic Services for Phases 1 and 2:

1.0 PHASE 1A – 60% CONTRACT DOCUMENTS

The CONSULTANT will perform and prepare the following as a part of Phase 1A:

1.1 Documents Data Collection and Records Research

The CONSULTANT will review existing DOA design, as-built, record drawings and information regarding the proposed Project components and gather information for use during subsequent design phases. All pertinent record documents associated with the existing infrastructure and / or master plans for future improvements will be obtained from the DOA records database. DOA will provide access to site, security, electrical and or utility rooms, and any other area or elements serving site or systems.

The CONSULTANT will perform two (2) site visits to assess the existing conditions of the Project Area.

1.2 Topographic Survey and Utility Locates

Please refer to B&P scope of services for detailed scope Topographic Survey Services of Phase 3 and Phase 4.

1.3 Geotechnical/subsurface Investigations

The geotechnical study will require various geotechnical analyses and evaluations for the project sites. Please refer to the TSF scope and fee for detailed Geotechnical Scope of Services

1.4 Utilities

The CONSULTANT will identify all existing utilities within the project area and prepare composite utility plans based on information provided by the utility companies.

The CONSULTANT will coordinate potential utility conflicts with each utility company/owner and develop a utility conflict matrix. For utilities allowed by permit, the CONSULTANT assumes that each utility company/owner will prepare their own relocation plans accordingly. For utilities allowed by easement, the Project Team will work with the DOA and utility owners regarding adjustments needed. The Project Team will prepare utility adjustment plans reflecting the information received by utility owners. In addition, the Project Team assumes each utility company/owner will estimate their cost of construction and schedules of work. The Project Team will incorporate the utility relocation efforts into the phasing of the work effort for those utility companies/owners who choose not to relocate their facilities prior to the start of construction. Draft utility work schedules and agreements will be prepared and submitted for DOA use between the Utility Companies and DOA.

1.5 The 60% Plan Development

The CONSULTANT will prepare Construction Documents (CDs) for the design and bidding services of the Project. The plans will be prepared in accordance with the requirements of Palm Beach County (PBC) Code of Ordinances, Palm Beach County Unified Land Development Code (ULDC), Federal Aviation Administration (FAA) Design Criteria, PBC DOA Criteria and Standards, and the Florida Department of Transportation (FDOT) Roadway Design Standards. Some additional applicable codes and standards may be required during the design development such as South Florida Water Management District (SFWMD) Design Requirements, City of Lake Worth Utilities Standards for construction of Water and Wastewater, Palm Beach County Health Department Design Requirements and the Palm Beach County Fire Code and any other applicable code.

The plans set will include the following:

- Cover Sheet (60%).
- Drawings Index (60%).
- Summary of Quantities (Base Bid and Alternates, if applicable) (60%).
- Survey Control Plan (60%).
- Existing Conditions Plan (60%).
- Demolition Plan (60%)
- Site Plans (60%)
- Parking Lot Details Plan (60%)
- Grading and Drainage Plans (60%).
- Stormwater Pollution Prevention Plans (60%).
- Stormwater Pollution Prevention Notes and Details (60%).
- Drainage Details (60%).
- Water and Sewer Plans (60%)

- Water and Sewer Details (60%)
- Lighting Plans (60%)
- Lighting Details (60%)
- Landscape Plans (60%)
- Landscape Details (60%)
- Overall Phasing Plans (60%)
- Construction Phase and Security Details and Notes (60%)
- Site Utility Plans (Existing, Relocated and Proposed) [60%].
- Miscellaneous Details (60%).

1.6 Lighting Plan Development

Please refer to the QEE scope and fee for a detailed scope of Electrical Services for Phase 3 and Phase 4.

1.7 Stormwater Plan Development

Please refer to the CMA scope and fee for a detailed scope of Stormwater Design Services for Phase 3 and Phase 4.

1.8 Phase 1A Deliverables

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1A for review comments and approval by the DOA. The CONSULTANT will deliver the following major deliverables (pdf).

- Topographic Survey
- Geotechnical Report
- 60% Design Plans
- 60% Technical Specifications
- 60% Project Cost Estimates
- 60% Project Schedule; and
- 60% Engineer's Stormwater Report
- 60% Lighting Photometric Report

2.0 PHASE 1B - 90% SUBMITTAL

Following the 60% Complete Contract Documents approval the CONSULTANT will develop 90% Complete Contract Documents from the approved 60% Complete Contract Documents. These 90% documents will consist of the information contained in the 60% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

2.1 The 90% Plans will include, but are not limited to:

- Cover Sheet (90%).
- Drawings Index (90%).
- Summary of Quantities (Base Bid and Alternates, if applicable) (90%).
- Survey Control Plan (90%).
- Existing Conditions Plan (90%).
- Demolition Plan (90%).
- Site Plans (90%).

- Parking Lot Detail Plan (90%).
- Grading and Drainage Plans (90%).
- Stormwater Pollution Prevention Plans (90%).
- Stormwater Pollution Prevention Notes and Details (90%).
- Drainage Details (90%).
- Water and Sewer Plans (90%).
- Water and Sewer Details (90%).
- Lighting Plans (90%).
- Lighting Details (90%).
- Landscape Plans (90%).
- Landscape Details
- Phasing Plans, Details and Maintenance of Traffic (90%).
- Site Utility Plans (Existing, Relocated and Proposed) [90%].
- Miscellaneous Details (90%).

2.2 Phase1B Deliverables

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1B for review comments and approval by the DOA.

- Regulatory permitting agencies documentation
- Response to 60% Design review comments;
- 90% Design Plans
- 90% Technical Specifications, Front Ends and General Provisions
- 90% Project Cost Estimates
- 90% Project Schedule; and
- 90% Engineer's Stormwater Report
- 90% Lighting Photometric Report

3.0 PHASE 1C - 100% SUBMITTAL

Following the 90% Complete Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents from the approved 90% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

3.1 The 100% Plans will include, but are not limited to:

- Cover Sheet (100%).
- Drawings Index (100%).
- Summary of Quantities (Base Bid and Alternates, if applicable) (100%).
- Survey Control Plan (100%).
- Existing Conditions Plan (100%).
- Demolition Plan (100%)
- Site Plans (100%)
- Parking Lot Detail Plan (100%)
- Grading and Drainage Plans (100%).
- Stormwater Pollution Prevention Plans (100%).
- Stormwater Pollution Prevention Notes and Details (100%).

- Drainage Details (100%).
- Water and Sewer Plans (100%)
- Water and Sewer Details (100%)
- Lighting Plans (100%)
- Lighting Details (100%)
- Landscape Plans (100%)
- Landscape Details (100%)
- Phasing Plans, Details and Maintenance of Traffic (60%).
- Site Utility Plans (Existing, Relocated and Proposed) [60%].
- Miscellaneous Details (60%).

3.2 Phase 1C Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- Regulatory permitting agencies documentation
- Response to 90% Design review comments;
- 100% Contract Drawings
- 100% Technical Specifications, Front Ends and General Provisions
- 100% Project Cost Estimates
- 100% Project Schedule; and
- 100% Engineer's Report

4.0 PHASE 2 - BIDDING AND AWARD OF CONTRACT

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid conference to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

4.1 Phase 4 Deliverables

- PDF copy of the Bid Documents
- Pre-Bid Conference Agenda and Meeting Minutes
- Addenda as required during the bid process
- Bid Tabulation
- Bid Recommendation Letter

5.0 PROBABLE CONSTRUCTION ESTIMATES

The CONSULTANT will prepare an Engineer's Estimate of Probable Construction Cost by trades based on the prepared design plans. Estimate will be prepared with each submittal (60%, 90%, and 100%) and will include an update after review of that submittal. The CONSULTANT will work with DOA on the additional allowances, fees and contingencies that should be included in the estimate. Statements of Probable Cost will contain such provisions for inflation as may be reasonably anticipated within the construction industry.

The inflation factor will be applied based on the anticipated start of construction. In providing opinions of probable construction costs, the DOA 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 shall be based on the CONSULTANT's qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.

6.0 PROJECT MANAGEMENT

The CONSULTANT will provide project management, procurement scheduling review, coordination, and guidance for adherence to the Project goals and objectives. The Project Management Team will provide project administration as necessary to carry out Project Management responsibilities which involve executive level management, administrative, project schedule, budget management and quality control of overall project services.

6.1 Meetings and Coordination

The CONSULTANT will meet with DOA and permitting agencies. Scheduled meetings will be held to discuss progress and project development issues/items. Progress and review meetings are assumed to be at DOA's offices or as virtual meetings. CONSULTANT will prepare and provide prior to meetings agendas and develop meeting minutes for each meeting. Time spent for in-person meetings will include travel time to and from location. Included meetings are as follows:

- Attend one (1) DOA design kick-off meeting
- Attend one (1) internal design team kick-off meeting
- Attend three (3) DOA submittal review meetings. (60%, 90%, and 100%)
- Attend six (6) design team project coordination meetings
- Attend six (6) permit agency meetings
- Attend up to twelve (12) task coordination meetings (FAA, ATCT, DOA, SFWMD, CONSULTANTS, etc.)
- Attend one (1) bid package review meeting

Meetings will be attended by the CONSULTANT Project Manager or CONSULTANT's representative (if Project Manager is not available) along with applicable discipline leads/engineers as needed. Others will be made available by phone or virtually if needed.

6.2 Project Scheduling

A detailed project design schedule will be developed and provided as an initial schedule upon the kickoff meeting for this project. Schedule updates will be developed to help track activities associated with the advancement of the contract for procurement. Updates will be provided at the 60%, 90% and 100% submittals. Critical task and deliverables will be included and monitored monthly.

The anticipated duration of the project is 150 days. For each phase is the following:

- Phase 1A – 60% Plans Development – 60 calendar days.
- Phase 1B – 90% Plans Development – 30 calendar days
- Phase 1C – 100% Plans Development – 30 calendar days
- Phase 2 – Bidding and Award of Contract – 45 calendar days

6.3 Quality Assurance / Quality Control

CONSULTANT deliverables will undergo an internal Quality Control (QC) process. This QC process will affirm that quality is achieved through checking, reviewing, and

surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work. Each formal submittal will be accompanied by a QC certification form.

Assumptions:

1. DOA will provide all record documents applicable to this task.
2. DOA will pay for all permitting costs.
3. Construction Administration and Resident Project Representative Services are not included in this scope of services. If requested, the CONSULTANT will perform Construction Administration and Resident Project Representative Services via a separate task order.
4. CONSULTANT shall not be responsible for the means, methods, techniques, and sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. The CONSULTANT shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-LNA-A-006 LNA Phases 3 and 4

| | | | | | | | | | | | | | | |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 236 | \$ | 270 | \$ | 201 | \$ | 215 | \$ | 149 | \$ | 128 | \$ | 96 |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | | Fee Estimate (\$) | | |
|--|------------------------|------------------------|----------------|-----------------|---------------------|------------------|----------|-------|-----------|----------|-----------|-------------------|--|--|
| | QC Reviewer | Senior Project Manager | Design Manager | Senior Engineer | Structural Engineer | Project Engineer | Clerical | Total | Labor | Expenses | Total | | | |
| Task I-23-LNA-A-006 LNA Phases 3 and 4 | | | | | | | | | | | | | | |
| Phase 1B - 90% Design | 8 | 26 | 127 | 142 | 24 | 205 | 8 | 540 | \$95,549 | \$0 | \$95,549 | | | |
| 90% Design Submittal Deliverables: | | | | | | | | 0 | \$ - | \$ - | \$ - | | | |
| a. 90% Design Development Drawings: | | | | | | | | 0 | \$ - | \$ - | \$ - | | | |
| Cover Sheet (90%) | | | 1 | | | 1 | | 2 | \$ 329 | \$ - | \$ 329 | | | |
| Drawings Index (90%) | | | 1 | | | 2 | | 3 | \$ 457 | \$ - | \$ 457 | | | |
| Summary of Quantities/General Notes [90%] | | | 1 | 2 | | 4 | | 7 | \$ 1,143 | \$ - | \$ 1,143 | | | |
| Survey Control Plan (90%) | | | 1 | 1 | | 2 | | 3 | \$ 471 | \$ - | \$ 471 | | | |
| Existing Conditions Plan (60%) | | 2 | 2 | 4 | | 8 | | 14 | \$ 2,286 | \$ - | \$ 2,286 | | | |
| Demolition Plan (60%) | | 2 | 2 | 8 | | 12 | | 24 | \$ 4,198 | \$ - | \$ 4,198 | | | |
| Site Plans (60%) | | 2 | 2 | 8 | | 12 | | 18 | \$ 3,146 | \$ - | \$ 3,146 | | | |
| Parking Lot Detail Plan (60%) | | 2 | 4 | 12 | | 18 | | 30 | \$ 5,460 | \$ - | \$ 5,460 | | | |
| Water and Sewer Analysis and Design | | 4 | 4 | 24 | | 32 | | 52 | \$ 9,036 | \$ - | \$ 9,036 | | | |
| Landscape Plan and Details | | 2 | 2 | 4 | | 8 | | 26 | \$ 3,822 | \$ - | \$ 3,822 | | | |
| Security (CCTV and Access Control) Plans and Diagrams | | 40 | 40 | 8 | | 88 | | 88 | \$ 14,880 | \$ - | \$ 14,880 | | | |
| Miscellaneous Details (90%) | | 2 | 2 | 5 | | 9 | | 17 | \$ 2,757 | \$ - | \$ 2,757 | | | |
| Overall Phasing Plans (90%) | | 4 | 4 | 16 | | 24 | | 40 | \$ 7,372 | \$ - | \$ 7,372 | | | |
| Construction Phasing and Security Notes and Details (90%) | | 2 | 2 | 4 | | 8 | | 14 | \$ 2,286 | \$ - | \$ 2,286 | | | |
| 90% Technical Specifications | | 16 | 16 | 16 | | 48 | | 40 | \$ 7,680 | \$ - | \$ 7,680 | | | |
| 90% Front End Specifications & General Provisions | | 2 | 2 | 4 | | 8 | | 14 | \$ 2,286 | \$ - | \$ 2,286 | | | |
| 90% Project Construction Cost Estimate | | 2 | 4 | 4 | | 10 | | 30 | \$ 5,808 | \$ - | \$ 5,808 | | | |
| 90% Project Schedule | | 2 | 2 | 4 | | 8 | | 6 | \$ 1,400 | \$ - | \$ 1,400 | | | |
| 90% Regulatory permitting agencies documentation | | 24 | 24 | 8 | | 32 | | 32 | \$ 5,848 | \$ - | \$ 5,848 | | | |
| Structural Analysis and Details (Entrances Feature and Lift Station) | | | 2 | 4 | 24 | 30 | | 24 | \$ 3,576 | \$ - | \$ 3,576 | | | |
| Pavement Design | | | 2 | 4 | | 6 | | 10 | \$ 1,774 | \$ - | \$ 1,774 | | | |
| ISO 9001 - QA/QC Review | | 4 | 2 | 2 | | 8 | | 8 | \$ 1,886 | \$ - | \$ 1,886 | | | |
| Team Coordination Meetings (2) | | 2 | 2 | 2 | | 6 | | 8 | \$ 1,628 | \$ - | \$ 1,628 | | | |
| One (1) DOA Review Submittal Meeting | | 2 | 2 | 2 | | 6 | | 6 | \$ 1,414 | \$ - | \$ 1,414 | | | |
| Regulatory Permitting Agencies Meetings | | 2 | 2 | 2 | | 6 | | 4 | \$ 942 | \$ - | \$ 942 | | | |
| Task Coordination (DOA, Consultants, etc.) | | 4 | 4 | 4 | | 12 | | 8 | \$ 1,884 | \$ - | \$ 1,884 | | | |
| Project Management and Administration | | 2 | 2 | 2 | | 6 | 8 | 12 | \$ 1,780 | \$ - | \$ 1,780 | | | |
| Phase 1C - 100% Design | 20 | 34 | 43 | 69 | 16 | 95 | 8 | 285 | \$52,690 | \$0 | \$52,690 | | | |
| 100% Design Submittal Deliverables: | | | | | | | | 0 | \$ - | \$ - | \$ - | | | |
| a. 100% Design Development Drawings: | | | | | | | | 0 | \$ - | \$ - | \$ - | | | |
| Cover Sheet (100%) | | | 1 | | | 1 | | 2 | \$ 329 | \$ - | \$ 329 | | | |
| Drawings Index (100%) | | | 2 | | | 4 | | 2 | \$ 256 | \$ - | \$ 256 | | | |
| Summary of Quantities (100%) | | | 2 | 4 | | 6 | | 10 | \$ 1,774 | \$ - | \$ 1,774 | | | |
| Safety and Security Plan (100%) | | | 2 | 2 | | 4 | | 6 | \$ 942 | \$ - | \$ 942 | | | |
| Survey Control Plan (100%) | | | 4 | 2 | | 6 | | 2 | \$ 256 | \$ - | \$ 256 | | | |
| Existing Conditions Plan (60%) | | 2 | 2 | 2 | | 6 | | 6 | \$ 942 | \$ - | \$ 942 | | | |
| Demolition Plan (60%) | | 2 | 2 | 2 | | 6 | | 4 | \$ 686 | \$ - | \$ 686 | | | |
| Site Plans (60%) | | 1 | 1 | 4 | | 6 | | 9 | \$ 1,573 | \$ - | \$ 1,573 | | | |
| Parking Lot Detail Plan (60%) | | 2 | 2 | 16 | | 20 | | 12 | \$ 1,536 | \$ - | \$ 1,536 | | | |
| Water and Sewer Analysis and Design | | 2 | 2 | 16 | | 20 | | 18 | \$ 3,842 | \$ - | \$ 3,842 | | | |
| Landscape Plan and Details | | 4 | 4 | 8 | | 16 | | 26 | \$ 3,612 | \$ - | \$ 3,612 | | | |
| Security (CCTV and Access Control) Plans and Diagrams | | 12 | 12 | 8 | | 20 | | 36 | \$ 6,748 | \$ - | \$ 6,748 | | | |
| Miscellaneous Details (100%) | | 1 | 1 | 2 | | 4 | | 5 | \$ 887 | \$ - | \$ 887 | | | |
| Overall Phasing Plans (100%) | | 2 | 2 | 4 | | 8 | | 6 | \$ 1,400 | \$ - | \$ 1,400 | | | |
| Construction Phasing and Security Notes and Details (100%) | | 1 | 1 | 1 | | 3 | | 6 | \$ 928 | \$ - | \$ 928 | | | |
| 100% Technical Specifications | | 8 | 8 | 8 | | 24 | | 16 | \$ 3,328 | \$ - | \$ 3,328 | | | |
| 100% Front End Specifications & FAA General Provisions | | 1 | 1 | 2 | | 4 | | 11 | \$ 1,655 | \$ - | \$ 1,655 | | | |
| 100% Project Construction Cost Estimate | | 2 | 2 | 4 | | 8 | | 10 | \$ 1,912 | \$ - | \$ 1,912 | | | |
| 100% Project Schedule | | 2 | 2 | 4 | | 8 | | 6 | \$ 1,400 | \$ - | \$ 1,400 | | | |

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-LNA-A-006 LNA Phases 3 and 4

Billing Rate: \$ 236 \$ 270 \$ 201 \$ 215 \$ 149 \$ 128 \$ 96

| Task Description | Labor Estimate (Hours) | | | | | | | | Fee Estimate (\$) | | |
|--|------------------------|------------------------|----------------|-----------------|---------------------|------------------|-----------|--------------|-------------------|----------------|------------------|
| | QC Reviewer | Senior Project Manager | Design Manager | Senior Engineer | Structural Engineer | Project Engineer | Clerical | Total | Labor | Expenses | Total |
| Task I-23-LNA-A-006 LNA Phases 3 and 4 | | | | | | | | | | | |
| Phase 1A - 60% Design | 20 | 32 | 201 | 342 | 32 | 546 | 16 | 1,189 | \$203,483 | \$2,000 | \$205,483 |
| Attend One (1) DOA Kick-Off Meeting, Agenda & Minutes | | 2 | 2 | 2 | | | | 6 | \$ 1,372 | \$ 1,000 | \$ 2,372 |
| Internal Design Team Kick-Off Meeting (1) | | 1 | 1 | 1 | | | | 3 | \$ 686 | \$ - | \$ 686 |
| Documents Data Collection and Records Research | | | 4 | 4 | | 8 | | 16 | \$ 2,688 | \$ - | \$ 2,688 |
| Attend Two (2) Field Visits | | 1 | 6 | 6 | | 6 | | 19 | \$ 3,534 | \$ - | \$ 3,534 |
| a. Topographic Survey/Utility Locates (Coord Field Activities) | | 1 | 1 | 1 | | 4 | | 6 | \$ 983 | \$ - | \$ 983 |
| b. Geotechnical / Subsurface Investigations (Coord and Monitor Field Activities) | | 1 | 1 | 1 | | 16 | | 18 | \$ 2,519 | \$ - | \$ 2,519 |
| Preliminary Design Submittal Deliverables: | | | | | | | | 0 | \$ - | \$ - | \$ - |
| a. Preliminary Topographic Survey (Review/Comment) | | | 4 | 4 | | 4 | | 8 | \$ 1,316 | \$ - | \$ 1,316 |
| b. Preliminary Geotechnical Investigations Data (Review) | | | 4 | 4 | | 4 | | 8 | \$ 1,316 | \$ - | \$ 1,316 |
| Utility Coordination | | | 16 | 16 | | 160 | | 192 | \$ 27,136 | \$ 1,000 | \$ 28,136 |
| 60% Design Submittal Deliverables: | | | | | | | | 0 | \$ - | \$ - | \$ - |
| a. 60% Design Development Drawings: | | | | | | | | 0 | \$ - | \$ - | \$ - |
| Cover Sheet (60%). | | | 2 | 2 | | 2 | | 4 | \$ 658 | \$ - | \$ 658 |
| Drawings Index (60%). | | | 1 | 1 | | 4 | | 5 | \$ 713 | \$ - | \$ 713 |
| Summary of Quantities/General Notes (60%). | | | 2 | 2 | | 4 | | 10 | \$ 1,774 | \$ - | \$ 1,774 |
| Survey Control Plan (60%). | | | 1 | 1 | | 4 | | 6 | \$ 928 | \$ - | \$ 928 |
| Existing Conditions Plan (60%). | | | 4 | 4 | | 16 | | 60 | \$ 9,364 | \$ - | \$ 9,364 |
| Demolition Plan (60%). | | | 4 | 4 | | 16 | | 52 | \$ 8,340 | \$ - | \$ 8,340 |
| Site Plans (60%). | | | 4 | 4 | | 32 | | 68 | \$ 11,780 | \$ - | \$ 11,780 |
| Parking Lot Detail Plan (60%). | | 2 | 8 | 28 | | 28 | | 66 | \$ 11,752 | \$ - | \$ 11,752 |
| Water and Sewer Analysis and Design | | | 8 | 60 | | 32 | | 100 | \$ 18,604 | \$ - | \$ 18,604 |
| Landscape Plan and Details | | | 8 | 4 | | 4 | | 44 | \$ 6,564 | \$ - | \$ 6,564 |
| Security (CCTV and Access Control) Plans and Diagrams | | | 50 | 16 | | 40 | | 106 | \$ 18,610 | \$ - | \$ 18,610 |
| Miscellaneous Details (60%). | | | 8 | 16 | | 16 | | 40 | \$ 7,096 | \$ - | \$ 7,096 |
| Overall Phasing Plans (60%). | | 8 | 4 | 24 | | 24 | | 60 | \$ 11,196 | \$ - | \$ 11,196 |
| Construction Phasing and Security Notes and Details (60%) | | | 2 | 8 | | 16 | | 26 | \$ 4,170 | \$ - | \$ 4,170 |
| 60% Technical Specifications | | | 24 | 20 | | 32 | | 44 | \$ 9,124 | \$ - | \$ 9,124 |
| 60% Project Construction Cost Estimate | | 2 | | 32 | | 16 | | 50 | \$ 9,468 | \$ - | \$ 9,468 |
| 60% Project Schedule | | 2 | | 8 | | 8 | | 10 | \$ 2,260 | \$ - | \$ 2,260 |
| 60% Regulatory permitting agencies documentation | | | 20 | 20 | | 16 | | 56 | \$ 10,368 | \$ - | \$ 10,368 |
| Pavement Design | | | 2 | 4 | | 4 | | 10 | \$ 1,774 | \$ - | \$ 1,774 |
| Structural Analysis and Details (Entrance Feature and Lift Station) | | | | | 32 | | | 32 | \$ 4,768 | \$ - | \$ 4,768 |
| ISO 9001 - QA/QC Review | 16 | | | | | | | 16 | \$ 3,776 | \$ - | \$ 3,776 |
| Team Coordination Meetings (2) | | | 2 | 2 | | 2 | | 8 | \$ 1,628 | \$ - | \$ 1,628 |
| One (1) DOA Submittal Review Meeting | 2 | | 2 | 2 | | 2 | | 4 | \$ 1,844 | \$ - | \$ 1,844 |
| Regulatory Permitting Agencies Meetings | | | 4 | 4 | | 4 | | 8 | \$ 942 | \$ - | \$ 942 |
| Task Coordination (FAA, ATCT, DOA, Consultants, etc.) | | | 4 | 4 | | 4 | 8 | 16 | \$ 2,652 | \$ - | \$ 2,652 |
| Project Management and Administration | 2 | | | | | | 8 | 12 | \$ 1,780 | \$ - | \$ 1,780 |

Table B
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-LNA-A-006 LNA Phases 3 and 4

| | | | | | | | | | | | | | | |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|
| Billing Rate: | \$ | 236 | \$ | 270 | \$ | 201 | \$ | 215 | \$ | 149 | \$ | 128 | \$ | 96 |
|---------------|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|

| Task Description | Labor Estimate (Hours) | | | | | | | | | | Fee Estimate (\$) | | | |
|---|------------------------|------------------------|----------------|-----------------|---------------------|------------------|-----------|--------------|------------------|----------------|-------------------|--|--|--|
| | QC Reviewer | Senior Project Manager | Design Manager | Senior Engineer | Structural Engineer | Project Engineer | Clerical | Total | Labor | Expenses | Total | | | |
| Task I-23-LNA-A-006 LNA Phases 3 and 4 | | | | | | | | | | | | | | |
| 100% Regulatory permitting agencies documentation | | 8 | | | | | | 8 | \$ 2,160 | \$ - | \$ 2,160 | | | |
| Structural Analysis and Details (Entrance Feature and Lift Station) | | | | 4 | 16 | | | 16 | \$ 2,384 | \$ - | \$ 2,384 | | | |
| Pavement Design | | | 2 | | | | | 10 | \$ 1,774 | \$ - | \$ 1,774 | | | |
| ISO 9001 - QA/QC Review | 16 | 2 | 2 | 2 | | | | 20 | \$ 4,718 | \$ - | \$ 4,718 | | | |
| Team Coordination Meetings (2) | | 2 | 2 | 2 | | | | 8 | \$ 1,628 | \$ - | \$ 1,628 | | | |
| One (1) DOA Review Submittal Meeting | 2 | 2 | 2 | | | | | 6 | \$ 1,414 | \$ - | \$ 1,414 | | | |
| Regulatory Permitting Agencies Meetings | | 2 | 2 | | | | | 4 | \$ 942 | \$ - | \$ 942 | | | |
| Task Coordination (DOA, Consultants, etc.) | | 4 | 4 | | | | | 8 | \$ 1,884 | \$ - | \$ 1,884 | | | |
| Project Management and Administration | 2 | 2 | | | | | 8 | 12 | \$ 1,780 | \$ - | \$ 1,780 | | | |
| Phase 2 | 14 | 16 | 26 | 28 | 0 | 50 | 0 | 134 | \$25,270 | \$1,000 | \$26,270 | | | |
| Submit Bid Documents to DOA: | | | | | | | | 0 | \$ - | \$ - | \$ - | | | |
| a. Bid Drawings | | 1 | 2 | 2 | | | | 13 | \$ 2,126 | \$ - | \$ 2,126 | | | |
| b. Bid Technical Specifications | | | 1 | 4 | | | | 13 | \$ 2,085 | \$ - | \$ 2,085 | | | |
| c. Bid Front End Specifications & General Provisions | | | 1 | 4 | | | | 13 | \$ 2,085 | \$ - | \$ 2,085 | | | |
| d. Bid Construction Phasing and Safety Plan Report | | | 1 | 4 | | | | 9 | \$ 1,573 | \$ - | \$ 1,573 | | | |
| e. Bid Project Construction Cost Estimate | | | 1 | 4 | | | | 12 | \$ 2,085 | \$ - | \$ 2,085 | | | |
| ISO 9001 - QA/QC Review | 12 | | | | | | | 12 | \$ 2,832 | \$ - | \$ 2,832 | | | |
| Task Management and Coordination | | 1 | 4 | 4 | | | | 9 | \$ 1,934 | \$ - | \$ 1,934 | | | |
| Assist DOA in Advertisement and Processing of Bid Documents | | 2 | 4 | | | | | 6 | \$ 1,344 | \$ - | \$ 1,344 | | | |
| Prepare and attend Pre-Bid Meeting, Prepare Minutes | | 2 | | | | | | 6 | \$ 1,052 | \$ 1,000 | \$ 2,052 | | | |
| Respond to Contractor's Request for Information (RFIs) | | 1 | 4 | 4 | | | | 9 | \$ 1,934 | \$ - | \$ 1,934 | | | |
| Prepare and Issue Addenda | | 4 | 4 | | | | | 16 | \$ 2,908 | \$ - | \$ 2,908 | | | |
| Attend Bid Opening Meeting | | 2 | 2 | | | | | 4 | \$ 942 | \$ - | \$ 942 | | | |
| Prepare, Review and Evaluate Bid Tabulation and Bid Forms | | 1 | 2 | 2 | | | | 7 | \$ 1,358 | \$ - | \$ 1,358 | | | |
| Prepare and Submit Recommendation of Bid Award Letter to DOA | 2 | 2 | | | | | | 4 | \$ 1,012 | \$ - | \$ 1,012 | | | |
| Total Fee - AECOM Technical Services, Inc. | 62 | 108 | 397 | 581 | 72 | 896 | 32 | 2,148 | \$376,992 | \$3,000 | \$379,992 | | | |

| Subconsultant Fees | Lump Sum T&M | Expenses |
|--|----------------------|--------------|
| 1 Total Subconsultant Fee - Brown and Phillips (LS) | \$ 36,105.00 | \$579,842 |
| 2 Total Subconsultant Fee - Brown and Phillips (T&M) | \$ 94,750.00 | \$50,485.84 |
| 3 Total Subconsultant Fee - Chen Moore (LS) | | \$3,000 |
| 4 Total Subconsultant Fee - Chen Moore (TM) | | \$633,327.84 |
| Total Fee - Subconsultants | \$ 253,335.84 | |
| GRAND TOTAL FEE - BASIC ENGINEERING SERVICES | \$ 633,327.84 | |

Prepared by: AECOM Technical Services, Inc.



June 5, 2023

Mr. Andrew Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

**Re: Lantana Airport (LNS) Phases 3 and 4 Proposed Parking Along Lantana Road
Topographic Survey and Utility Tie-In Survey**

Dear Andy:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site and all found monumentation will be tied in. The survey will be oriented to Palm Beach County Airport horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County Airport benchmarks (NAVD 1988). At least two benchmarks will be set onsite.

III. TIE IN IMPROVEMENTS AND CROSS SECTIONS and TIN CREATION (DTM)

A complete topographic survey will be done at the site, tying in all above ground features. This will include but not be limited to sidewalks, edge of roadway, edge of water, building finish floors, existing lighting, utilities, pavement markings, curbs, pedestrian ramps, driveways, visible above ground utilities and features, monuments, landscape, fence, gates and paved areas. We will obtain elevations on the site on an approximate 50' grid. We will locate sufficient points to give an accurate representation of the lay of the land. In addition, we will prepare a TIN file and all the corresponding break lines for design purposes. Since a TIN is required this will entail additional shots to be taken on the cross sections to accurately depict the existing conditions. The approximate limits of the survey are outlined in yellow on Attachment 'B'.

IV. AS-BUILT

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will identify the type of structure, rim elevation, pipe invert elevation, pipe material, direction, size, and condition, etc..

OPTIONAL S.U.E. SERVICES

V. UTILITY TARGETING SERVICES

We will scan the area outlined in yellow on Attachment 'B' and mark the underground utilities that service the site. We will then locate the designates and add them to the survey.

VI. TEST HOLES

If underground utilities are found on the site, we will perform up to fifteen (15) test holes at locations to be determined by you. We will then locate the test holes and add them to the survey.

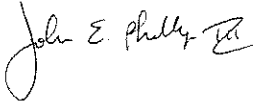
VII. TREE SURVEY

We will locate and tag native trees 4 inches in diameter or larger. Trees will be measured at breast height (approximate canopy width will also be obtained), and palms will be measured at clear trunk height. Hedges and ground cover will not be located or shown on the survey. Exotic trees such as Melaleuca, Brazilian pepper and Australian pine will not be located or shown on the survey. We will identify the various types of trees located on this site based on common knowledge of tree species. A qualified landscape architect should be employed for positive identification of tree species. We will then produce a drawing showing all the trees located. We will provide you with signed and sealed hard copies and an AutoCAD file of the trees located.

VII. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide AECOM with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. We will perform the scope of services for an hourly, not to exceed fee of \$36,105.00 (\$22,605.00 for the survey, \$6,000.00 for utility targeting [daily rate of \$2,000 times 3 days], and \$7,500.00 for 15 test holes at \$500.00 each), see Attachment 'A' for an hourly estimate. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Brown & Phillips, Inc.



John E. Phillips III, P.L.S.
Principal

Attachment

JEP/mb

This Proposal accepted this ____ day of _____, 2023

By: _____
AECOM

Print Name: _____

Title: _____

ATTACHMENT 'A'

Lantana Airport (LNA) Phases 3 and 4
Proposed Parking Along Lantana Road

Type of Survey: Topographic and Tree

Size:

Date: June 5, 2023

| TASK | SURVEY CREW | CADD TECH | SURVEY TECH | PLS | COMMENTS |
|--|-------------|------------|-------------|------------|---|
| Meetings and Coordination | | | | 2 | |
| Horizontal Project Network Control | 6 | | 5 | 1 | Set control points and work up R/W |
| Vertical Project Network Control | 6 | | 2 | | Establish onsite benchmarks |
| Tie In Improvements and Cross Sections | 60 | | 10 | 5 | Locate above ground features, 100' cross sections & spot elevations |
| Lake Soundings | 8 | | 2 | | |
| As-built | 7 | | 1 | | Obtain as-built data |
| Underground Utilities | 5 | | 2 | 0.5 | Field locate flagged utilities |
| Trees | 8 | | 2 | | Locate trees over 4" in diameter (not exotics) |
| Drawing | | 26 | 5 | 3 | Prepare topographic survey |
| | | | | | |
| Total Hours: | 100 | 26 | 29 | 11.5 | |
| Rate/Hour | \$156.00 | \$96.00 | \$96.00 | \$150.00 | |
| Subtotal: | \$15,600.00 | \$2,496.00 | \$2,784.00 | \$1,725.00 | |
| Total Labor Cost: | | | | | \$22,605.00 |

Other Direct Costs:

| | <u>quantity</u> | <u>unit</u> | <u>cost/unit</u> | <u>total</u> |
|--------------------------|-----------------|-------------|------------------|--------------|
| S.U.E. Utility Targeting | 3 | day | \$2,000.00 | \$6,000.00 |
| Test Holes | 15 | each | \$500.00 | \$7,500.00 |

Total Other Direct Costs:

\$13,500.00

TOTAL PRICE

\$36,105.00



500 S. Australian Ave., Suite 850
West Palm Beach, FL 33401
Office: +1 (561) 746-6900



May 26, 2023

SENT VIA E-MAIL (bwhitfield@chenmoore.com)

Mr. Andrew Kacer
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

**Subject: Lantana Airport – Phase 3 and Phase 4 Development
Civil Engineering Design Phase Scope of Services
CMA Proposal No. 23-0066.P0001-002**

Dear Mr. Kacer,

Chen Moore and Associates (CMA) is pleased to submit the attached Scope of Services to assist your team with the drainage and permitting services for the above referenced project.

PROJECT INTRODUCTION

This project consists of implementing the development of the Phase 3 and Phase 4 programs at the Palm Beach County Park/Lantana Airport (LNA). Phase 3 encompasses the central portion of the project site and will include approximately 2.80 acres of planned improvements to the main entrance area. Development consists of reconfiguring the central access road and parking area, the stormwater collection system, drainage network, and the electrical and utility systems. Phase 4 development involves the southwest portion of the project site. Development in Phase 4 includes a new 26-foot-wide access road and vehicle parking lot with approximately 110 new parking spaces, as well as a new drainage network and accompanying stormwater collection system improvements.

The project phases shall consist of the following:

- 60% Preliminary Design
- 90% Final Design
- 100% Bid Plans
- Permitting Services

The scope of work for CMA is described further below.

PROJECT STAFFING

Our staff and team are ready and prepared to work on this project. Chen Moore staff project roles shall be as follows:

Principal – Jose L. Acosta, P.E., F. ASCE
Project Director – Brent Whitfield, P.E.
Senior Engineer – Cole Benjamin, P.E.
Project Engineer – David Cowan, P.E.
Associate Engineer – Brandon Sullivan

Subconsultants:

Required survey, geotechnical exploration, and other field services shall be provided by the Client.

SCOPE OF SERVICES

This scope of services shall provide as per our recent discussions as follows:

Task 1 – Project Initiation, Information Gathering, and Site Investigation

Consultant shall collect and review copies of all relevant data, including correspondence, plans or information provided by the Client which may be beneficial to the work effort performed by Consultant. This task shall include one on-site investigation to collect pertinent information about the present-day condition of the project site. This task shall also include preparation for, and attendance by, the Consultant, of the project kick-off meeting.

Task 2 – Engineering Design Services for Phase 3 and Phase 4

Consultant shall include all relevant documentation required for 60%/90%/100% design phase submittals.

60% Preliminary Design

Consultant shall:

- Provide a preliminary closed drainage network and open channel conveyance layout, along with all corresponding hydraulic analyses and supporting calculations.
- Prepare 60% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination with other related disciplines. Submittal will include plan view, profile view, cross sections (where appropriate), and details.
- Prepare 60% technical specifications pertaining to the project's stormwater elements.
- Prepare 60% stormwater management design report, including relevant narrative, exhibits, and figures, and hydraulics and hydrologic analyses.
- Prepare 60% Erosion and Sediment Control plans and details.
- Provide a preliminary Opinion of Probable Cost.
- Attend one (1) meeting with the Owner/Client for project coordination.

90% Final Design

Consultant shall:

- Review and respond to Client/Owner comments from the previous submittal and update portions of the design, as appropriate, including written responses to provided comments pertaining to stormwater.
- Revised 90% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination and to submit for permits, including plan view, profile view, cross sections (where appropriate), and details.
- Prepare 90% technical specifications pertaining to the project's stormwater elements.
- Revised stormwater management design report sufficient to submit for permit to the SFWMD.
- Revised 90% Erosion and Sediment Control plans and details.
- Provide an updated Opinion of Probable Cost.
- Attend one (1) meeting with the Owner/Client for project coordination.

100% Bid Plans

Consultant shall:

- Review and respond to Client/Owner comments from the previous submittal and update portions of the design, as appropriate, including written responses to provided comments pertaining to stormwater.
- Prepare 100% civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination and to submit for permits, including plan view, profile view, cross sections (where appropriate), and details.
- Prepare 100% technical specifications pertaining to the project's stormwater elements.
- Provide Final stormwater management report.
- Prepare 100% Erosion and Sediment Control plans and details.
- Provide an updated Opinion of Probable Cost.
- Attend one (1) meeting with the Owner/Client for project coordination.

Task 3 – Permitting Services

Consultant shall prepare and submit permit applications for the following regulatory authority:

- Stormwater Management - South Florida Water Management District (SFWMD)

This task shall include the effort to schedule and conduct a pre-application meeting with the South Florida Water Management District (SFWMD) pertaining to stormwater design, including the preparation of a meeting agenda and meeting minutes. The task shall also include preparing applications, correspondence with regulatory reviewers, and any required responses for up to two rounds of comments and responses for Requests for Additional Information (RAI). Due to the proposed removal of existing stormwater management storage areas, hydraulic modeling analyses (ICPR) to meet SFWMD water quantity regulations and modification of existing stormwater management features is anticipated. Providing permit fees are not included and shall be the responsibility of the Owner.

The basis for the above scope of services and associated fee(s) are based on the following:

- Surveying, geotechnical investigation, and environmental studies are to be performed by the Client, as required.
- If any off-site stormwater or off-site roadway improvements are required, they shall be rendered as an Additional Service.
- Franchise utility (such as FPL, telecom, and natural gas) relocation and/or service design shall be by others.
- Design services exclusively pertain to stormwater. Design associated with water, wastewater, landscape architecture, irrigation, site planning, pavement, signage and markings, sight lighting, and detailed grading are not included.
- Client shall provide submittal fees for government agencies.
- This project is to be constructed in a single phase. Phased design, permitting, and construction may require an Additional Service.
- No construction management or construction administration services were included in this proposal. If requested, this effort shall be rendered as an additional service.

Information to be provided by the Client:



- A signed and sealed boundary and topographic survey and associated digital CAD File.
- Confirmation from the owner of access to the site and approval for Consultant to perform the services listed above.
- Filing and permit application fees, review fees, impact fees or any other associated assessments by other governments/agencies.
- Copies of all relevant data, including correspondence, as-builts, plans or information in the Client's possession which may be beneficial to the work effort performed by Consultant.
- Previous reports and assessments.
- Legal description of the site.

SCHEDULE AND FEES

Consultant shall schedule work upon receipt of signed approval for this project as required. Per discussions with your team, the goal is to start immediately upon notice to proceed and official authorization from the Client. The total lump sum fee for this project will be divided as follows:

| <u>Task(s)</u> | <u>Task Description</u> | <u>Lump Sum</u> | <u>Hourly</u> | <u>Total Fees</u> |
|--------------------------|---|-----------------|---------------|--------------------|
| CIVIL ENGINEERING | | | | |
| Task 1 | Project Initiation, Information Gathering, and Site Investigation | \$5,760.00 | - | \$5,760.00 |
| Task 2 | Engineering Design Services for Phase 3 and Phase 4 | \$54,920.00 | - | \$54,920.00 |
| Task 3 | Permitting Services | \$34,070.00 | - | \$34,070.00 |
| PROJECT TOTAL | | | | \$94,750.00 |

Reimbursable expenses for the tasks above are included in the lump sum price. Additional reimbursables requested by the client shall be invoiced as defined in our General Conditions/Provisions attached to this agreement.

Should you have any questions, please do not hesitate to contact me at my office at +1 (561) 746-6900, Ext. 1160, my cell phone at +1 (561) 329-1797 or send me an electronic message at bwhitfield@chenmoore.com.

Respectfully submitted,

Brent Whitfield, P.E., ENV SP
 Director – Water Resources

5/26/2023

Attachment(s)

- Fee Estimate

Palm Beach County Park / Lantana Airport - AECOM
Program Phase 3 and Phase 4
Fee Breakdown

Chen Moore and Associates

23-0066.P00001-002

| Hourly Rate | Project | Principal | Senior | Project | Associate | Administrative | Total |
|---|-----------|-----------|-----------|-----------------------|------------|----------------|----------------------|
| | Principal | Engineer | Engineer | Engineer | Engineer | Staff | |
| | \$360.00 | \$250.00 | \$200.00 | \$150.00 | \$125.00 | \$90.00 | |
| TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE INVESTIGATION | | | | | | | |
| Initial Field Visit | | 4 | | 4 | | | \$1,600.00 |
| Existing Document Review | | 2 | 4 | 8 | | | \$2,500.00 |
| Project Kickoff Meeting and Project Setup | | 2 | 4 | | | 4 | \$1,660.00 |
| Task 1 Total | 0 | 8 | 8 | 12 | 0 | 4 | \$5,760.00 |
| TASK 2 – ENGINEERING DESIGN SERVICES FOR PHASE 3 AND PHASE 4 | | | | | | | |
| 60% PRELIMINARY DESIGN SUBMITTAL | | | | | | | |
| Preliminary Closed Drainage Network and Open Channel Layout | | 2 | 4 | 8 | 12 | | \$4,000.00 |
| Preliminary Hydraulic Analysis and Supporting Calculations | | 2 | 4 | 8 | 4 | | \$3,000.00 |
| Plans Production and Details | | 2 | 2 | 8 | 24 | | \$5,100.00 |
| Technical Specifications | | 1 | 2 | 8 | 4 | | \$2,350.00 |
| Design Report | | 1 | 2 | 8 | 4 | | \$2,350.00 |
| Preliminary Erosion Control Sheets and Details | | 1 | 2 | | 8 | | \$1,650.00 |
| Preliminary Opinion of Probable Cost | 1 | 1 | 2 | 4 | 4 | | \$2,110.00 |
| 60% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| QA/QC | 1 | 4 | 4 | 8 | 4 | | \$3,860.00 |
| 90% FINAL DESIGN SUBMITTAL | | | | | | | |
| Incorporate 60% Design Submittal Comments | | | 4 | 8 | 4 | | \$2,500.00 |
| Update Hydraulic Analysis and Supporting Calculations | | | 4 | 8 | | | \$2,000.00 |
| Update Construction Plans and Details | | | 2 | 4 | 8 | | \$2,000.00 |
| Update Technical Specifications | | 1 | 2 | 4 | 2 | | \$1,500.00 |
| Update Design Report | | 1 | 2 | 4 | 2 | | \$1,500.00 |
| Update Erosion Control Sheets and Details | | 1 | 1 | | 4 | | \$950.00 |
| Update Opinion of Probable Cost | | 1 | 2 | 4 | | | \$1,250.00 |
| 90% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| QA/QC | 1 | 1 | 2 | 8 | 8 | | \$3,210.00 |
| 100% ISSUED FOR BID | | | | | | | |
| Incorporate 90% Design Submittal Comments | | 1 | 2 | 2 | 4 | | \$1,450.00 |
| Finalize Hydraulic Analysis and Supporting Calculations | | 1 | 1 | 4 | | | \$1,050.00 |
| Finalize Construction Plans and Details | | | 2 | 2 | 4 | | \$1,200.00 |
| Finalize Technical Specifications | | 1 | 1 | 4 | 2 | | \$1,300.00 |
| Finalize Design Report | | 1 | 1 | 2 | 2 | | \$1,000.00 |
| Finalize Erosion Control Sheets and Details | | 1 | 1 | | 2 | | \$700.00 |
| Final Opinion of Probable Cost | 1 | 1 | 1 | | | | \$810.00 |
| 100% Deliverable Review Meeting | | 1 | 2 | | | | \$650.00 |
| QA/QC | 1 | 1 | 2 | 2 | 2 | | \$1,560.00 |
| Produce Signed and Sealed Construction Plans and Calculations | 1 | 1 | | 4 | | | \$1,210.00 |
| Revise and Resubmit (Assume 1 Occurrence) | 1 | 2 | 4 | 8 | 4 | | \$3,360.00 |
| Task 2 Total | 7 | 32 | 62 | 120 | 112 | 0 | \$54,920.00 |
| TASK 3 – PERMITTING SERVICES | | | | | | | |
| Existing Permit Review and Pre-Application Meeting Request | | 1 | 2 | 4 | | | \$1,250.00 |
| Pre-Application Meeting with SFWMD | | 1 | 1 | | | | \$450.00 |
| Pre-Application Meeting Minutes | | | 1 | 2 | | | \$500.00 |
| SFWMD ERP Application Documents | | 2 | 4 | 12 | 4 | | \$3,600.00 |
| Existing Conditions ICPR Model | | 2 | 8 | 16 | 4 | | \$5,000.00 |
| Proposed Conditions ICPR Model | | 2 | 4 | 12 | 4 | | \$3,600.00 |
| Water Quality Analysis | | 1 | 8 | 12 | | | \$3,650.00 |
| Existing Stormwater Management Feature Modifications | | 1 | 2 | 8 | 4 | | \$2,350.00 |
| ERP Application Supporting Exhibits/Plan Production | | | 4 | 8 | 8 | | \$3,000.00 |
| QA/QC | 1 | 2 | 8 | 4 | | | \$3,060.00 |
| Submit ERP Application Package to ePermitting Site | | | 2 | 4 | | | \$1,000.00 |
| Respond to RAIs (up to two occurrences) | 1 | 2 | 8 | 12 | 8 | | \$5,260.00 |
| Issue Final Permit Application | | 1 | 2 | | | 1 | \$1,350.00 |
| Task 3 Total | 3 | 16 | 54 | 94 | 32 | 1 | \$34,070.00 |
| TOTAL FEES | | | | | | | \$94,750.00 |
| TASK | | | | Total Hrs/Task | | | Total \$/Task |
| TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE | | | | 32 | | | \$5,760.00 |
| TASK 2 – ENGINEERING DESIGN SERVICES FOR PHASE 3 AND PHASE 4 | | | | 333 | | | \$54,920.00 |
| TASK 3 – PERMITTING SERVICES | | | | 200 | | | \$34,070.00 |
| TOTAL | | | | 565 | | | \$94,750.00 |



May 26, 2023

AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Attn: Mr. Andrew Kacer, P.E.
Email: andy.kacer@aecom.com

RE: **Proposal for Geotechnical Services**
Lantana Airport – LNA Phases 3 and 4
Lake Worth, Florida
TSFGEO Proposal No. 2305-348

Dear Andy:

As requested, **Tierra South Florida (TSFGEO)** is pleased to submit this proposal for the above-referenced project. The proposal is based on information provided by AECOM on May 18, 2023. Based on our understanding of the project, the proposed construction will consist of construction of a new parking lot and potential drainage improvements on the south side of the airport. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

As requested, the following field testing will be performed:

| Table 1 – Proposed Field Testing | |
|---|---|
| Location | Proposed Services |
| Parking | <ul style="list-style-type: none"> - Four (4) Standard Penetration Test (SPT) borings to depths of 15 feet - Four (4) Borehole Permeability (BHP) tests |
| Pond Areas | <ul style="list-style-type: none"> - Sediment Probes for the Lake |

Prior to drilling at the project site, TSFGEO will notify the local utility companies and request that underground utilities be marked (Sunshine State One Call). **Our experience, however, is that the utility companies will not mark privately owned utilities. Our proposal assumes that the Client will locate private utility lines (Utilities not cleared by Sunshine 811), if any, in the**

field or clear boring locations of utility conflicts prior to mobilization of the drill rig. TSFGeo can recommend a utility line locating service upon request.

Upon completion of the field exploration, some laboratory testing and visual classifications will be performed on selected samples.

A report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, pavement subgrade recommendations, and a discussion of some construction considerations.

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the services be performed pursuant to TSFGeo's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, the estimated total fee is:

| | |
|--|--------------------------|
| FIELD INVESTIGATION - Day | \$8,420.00 |
| LABORATORY TESTING | \$700.00 |
| ENGINEERING/COORDINATION/MANAGEMENT | <u>\$5,260.84</u> |
| TOTAL | \$14,380.84 |

Our estimate covers the work needed to present our findings in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are functions of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.

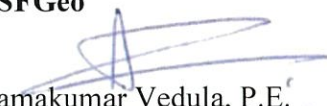
SCHEDULE AND AUTHORIZATION


TSFGeo will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within a few days of project approval (weather permitting and permit approval) and after utilities have been cleared. The fieldwork is expected to take about 3 to 4 days to complete. The test results can be submitted about 3 weeks after completion of the field exploration. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We at TSFGeo appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TSFGeo


Ramakumar Vedula, P.E.
Principal Engineer


Sean Tromans, E.I.
Staff Engineer

Attachments: General Conditions
Fee Schedule

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

DAY TIME SERVICES

| | Unit | # of Units | | Unit Price | | Total |
|---|------|------------|----|------------|----|------------------|
| I. FIELD INVESTIGATION | | | | | | |
| Mobilization of Men and Equipment | LS | 3 | \$ | 450.00 | \$ | 1,350.00 |
| Truck-Mounted Equipment | DAY | 3 | \$ | 150.00 | \$ | 450.00 |
| Support Vehicle | | | | | | |
| Standard Penetration Test Borings (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 60 | \$ | 15.00 | \$ | 900.00 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 17.00 | \$ | 0.00 |
| Grout-Seal Boreholes (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 60 | \$ | 7.00 | \$ | 420.00 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 8.00 | \$ | 0.00 |
| Casing (By Truck-Mounted Equipment) | | | | | | |
| Land: 0 - 50 ft depth | L.F. | 60 | \$ | 8.00 | \$ | 480.00 |
| 50 - 100 ft depth | L.F. | 0 | \$ | 10.00 | \$ | 0.00 |
| Auger Borings | L.F. | 60 | \$ | 13.00 | \$ | 780.00 |
| Field Permeability (BHP) | Test | 4 | \$ | 450.00 | \$ | 1,800.00 |
| Pavement Cores, Asphalt | Each | 0 | \$ | 250.00 | \$ | 0.00 |
| Coring Machine + Generator Rental | Trip | 0 | \$ | 450.00 | \$ | 0.00 |
| Muck Probing | Hour | 16 | \$ | 140.00 | \$ | 2,240.00 |
| II. LABORATORY TESTING | | | | | | |
| Natural Moisture Content Tests | Test | 4 | \$ | 15.00 | \$ | 60.00 |
| Grain-Size Analysis - Full Gradation | Test | 4 | \$ | 65.00 | \$ | 260.00 |
| Grain-Size Analysis - Single Sieve | Test | 0 | \$ | 35.00 | \$ | 0.00 |
| Organic Content Tests | Test | 4 | \$ | 50.00 | \$ | 200.00 |
| Atterberg Limit Tests | Test | 2 | \$ | 90.00 | \$ | 180.00 |
| Liquid Limit Tests (Only) | Test | 0 | \$ | 55.00 | \$ | 0.00 |
| Plastic Limit Tests (Only) | Test | 0 | \$ | 35.00 | \$ | 0.00 |
| Laboratory CBR + Sampling | Test | 0 | \$ | 500.00 | \$ | 0.00 |
| Grain-Size with Hydrometer | Test | 0 | \$ | 115.00 | \$ | 0.00 |
| Proctor Test a) Modified | Test | 0 | \$ | 150.00 | \$ | 0.00 |
| b) Standard | Test | 0 | \$ | 120.00 | \$ | 0.00 |
| Bitumen Extraction | Test | 0 | \$ | 160.00 | \$ | 0.00 |
| Bitumen Gradation | Test | 0 | \$ | 160.00 | \$ | 0.00 |
| III. ENGINEERING/COORDINATION/MANAGEMENT | | | | | | |
| Project Manager | Hour | 4 | \$ | 253.06 | \$ | 1,012.24 |
| Principal Engineer | Hour | 2 | \$ | 269.40 | \$ | 538.80 |
| Project Engineer | Hour | 12 | \$ | 166.53 | \$ | 1,998.36 |
| Senior Technician | Hour | 12 | \$ | 91.68 | \$ | 1,100.16 |
| CADD | Hour | 6 | \$ | 101.88 | \$ | 611.28 |
| | | | | | \$ | 14,380.84 |

May 22, 2023

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Services Design Fee Proposal for the Palm Beach County Department of Airports (DOA) – LNA Southside Redevelopment Phases 3 and 4.

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical services design fee proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach County Park Airport (LNA) Southside Redevelopment Phases 3 and 4. The proposal is based upon Program Phase 3 and Phase 4 Engineering Evaluation and Planning Services Report. The following items are included in our scope:

Task 1: Phase 3 Design Documents

- Includes coordination meetings with DOA Departments, FP&L, AT&T, Comcast, and AECOM Design Team.
- Includes record drawings reviews & on-site electrical verifications of existing conditions with the assistance of DOA Electrical Maintenance Department.
- Design the demolition of existing parking lot lighting systems and existing sanitary lift station electrical service. Includes plan layouts, riser diagrams, schedules and electrical details.
- Coordinate with FP&L for the relocation of existing FP&L underground lines and transformers. Includes design of the new FP&L underground conduit routing and new FP&L transformer locations in accordance with FP&L standards and requirements.
- Design new electrical distribution systems to repower approximately (10) existing electrical services from the new FP&L transformers. Includes extensive temporary power plans, plan layouts, riser diagrams, schedules and electrical details.
- Design new electrical distribution system for (1) new vehicle access control gate. Includes plan layouts, riser diagrams, schedules and electrical details.
- Design new DOA communication underground conduit systems and manholes for connections to (1) new vehicle access control gate.
- Coordinate with AT&T for the relocation of existing AT&T underground lines and manholes. Includes design of the new underground conduit systems and manholes in accordance with AT&T standards and requirements.
- Design a new parking lot lighting system and associated conduit and conductor systems. Includes plan layouts, riser diagrams, schedules and electrical details.

- Provide photometric lighting calculations (point-by-point) for new parking lot per DOA, Palm Beach County and Illuminating Engineering Society (IES) recommendations and standards.
- Design an electrical service for a new sanitary sewer lift station. Includes electrical details, electrical calculations and one-line/riser diagrams. Assumes lift station will be a packaged pump station requiring no control panel/RTU design. AECOM shall provide package pump station requirements to Quantum.
- The electrical design shall be per the DOA's requirements, Florida Building Code and National Electrical Code (NEC).

Task 2: Phase 4 Design Documents

- Includes coordination meetings with DOA Departments, FP&L, AT&T, Comcast, and AECOM Design Team.
- Includes record drawings reviews & on-site electrical verifications of existing conditions with the assistance of DOA Electrical Maintenance Department.
- Design the demolition of existing ramp lighting systems. Includes plan layouts, riser diagrams, schedules and electrical details.
- Coordinate with FP&L for the removal of existing FP&L overhead lines and poles and the relocation of (1) existing FP&L pad mounted transformer. Includes design of the new FP&L underground conduit routing and new FP&L transformer locations in accordance with FP&L standards and requirements.
- Design new electrical distribution systems to repower (5) existing hangar electrical services from the new FP&L transformers. Includes extensive temporary power plans, plan layouts, riser diagrams, schedules and electrical details.
- Design new electrical distribution system for (1) new vehicle access control gate. Includes plan layouts, riser diagrams, schedules and electrical details.
- Design new DOA communication underground conduit systems and manholes for connections to (1) new vehicle access control gate.
- Coordinate with AT&T and Comcast for the relocation of existing underground/overhead lines and manholes. Includes design of the new underground conduit systems and manholes in accordance with AT&T and Comcast standards and requirements.
- Design a new parking lot lighting system and associated conduit and conductor systems. Includes plan layouts, riser diagrams, schedules and electrical details.
- Provide photometric lighting calculations (point-by-point) for new parking lot per DOA, Palm Beach County and Illuminating Engineering Society (IES) recommendations and standards.
- The electrical design shall be per the DOA's requirements, Florida Building Code and National Electrical Code (NEC).

Task 3: Bid & Award/Permit

- Includes attending pre-bid meeting.
- Includes responses to RFIs and addenda revisions.
- Includes permit comment responses and associated plan revisions.

- Includes review of electrical bid results.

Exclusions and Assumptions

- AECOM shall provide all base drawings to Quantum in AutoCAD 2020 or higher.
- Quantum shall provide 1-set of electronic electrical plans & specifications to AECOM for 60%, 90%, 100% reviews, permit documents and bid documents.
- AECOM shall provide all printing of plans & specifications for reviews, bid phase, permits and construction phases.
- Does not include design for apron lighting system, CCTV camera systems, gate systems and access control systems.
- Does not include any kind of structural/foundation, mechanical design and/or wind load calculations.
- Does not include construction services.

| | |
|---|----------------------|
| Task 1: Phase 3 Design Documents Lump-Sum fee is: | \$ 55,330.00 |
| Task 2: Phase 4 Design Documents Lump-Sum fee is: | \$ 50,860.00 |
| <u>Task 3: Bid & Award Lump-Sum fee is:</u> | <u>\$ 1,910.00</u> |
| Our proposed total Lump-Sum fee is: | \$ 108,100.00 |

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- LNA SOUTHSIDE REDEVELOPMENT PHASES 3 AND 4
QUANTUM ELECTRICAL ENGINEERING, INC.
SCOPE FEE SUMMARY
FEE PROPOSAL ELECTRICAL SERVICES to AE 5/22/2023

| Rate | \$170.00 | \$150.00 | \$145.00 | \$85.00 | \$140.00 | \$50.00 | | | |
|---|---------------|--------------------|--------------------|--------------------|---------------|-------------------|------------|----------|---------------------|
| PHASE OF WORK | Proj. Mgr. | Prof. Eng | Proj. Eng | CADD/Tech | Field Eng. | Clerical | Total | Expenses | TOTAL |
| Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | TASK COST |
| Task 1: Phase 3 Design Documents | | | | | | | | | |
| 60% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 4 | | | | | 4 | | \$600.00 |
| Site Investigation, Record Drawing Review and Discovery | | 16 | 16 | | | | 32 | | \$4,720.00 |
| Demolition, Phasing & Temporary drawings | | 16 | 24 | 32 | | | 72 | | \$8,600.00 |
| Electrical Design Drawings | | 24 | 48 | 56 | | | 128 | | \$15,320.00 |
| Specifications & Cost Estimate | | 8 | 4 | | | 4 | 16 | | \$1,980.00 |
| QA/QC & Comment Incorporation | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Subtotal | 0 | 70 | 96 | 96 | 0 | 4 | 266 | | \$32,780.00 |
| 90% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 4 | | | | | 4 | | \$600.00 |
| Demolition, Phasing & Temporary drawings | | 8 | 8 | 16 | | | 32 | | \$3,720.00 |
| Electrical Design Drawings | | 16 | 24 | 32 | | | 72 | | \$8,600.00 |
| Specifications & Cost Estimate | | 4 | 4 | | | 4 | 12 | | \$1,380.00 |
| QA/QC & Comment Incorporation | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Subtotal | 0 | 34 | 40 | 56 | 0 | 4 | 134 | | \$15,860.00 |
| 100% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 1 | | | | | 1 | | \$150.00 |
| Demolition, Phasing & Temporary drawings | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Electrical Design Drawings | | 4 | 8 | 16 | | | 28 | | \$3,120.00 |
| Specifications & Cost Estimate | | 2 | 4 | | | 1 | 7 | | \$930.00 |
| QA/QC & Comment Incorporation | | 2 | 2 | 4 | | | 8 | | \$930.00 |
| Subtotal | 0 | 11 | 18 | 28 | 0 | 1 | 58 | | \$6,690.00 |
| Task 1 Total Hours | 0 | 115 | 154 | 180 | 0 | 9 | 458 | | |
| Task 1 Total Labor Cost | \$0.00 | \$17,250.00 | \$22,330.00 | \$15,300.00 | \$0.00 | \$450.00 | | | \$55,330.00 |
| Task 2: Phase 4 Design Documents | | | | | | | | | |
| 60% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 4 | | | | | 4 | | \$600.00 |
| Site Investigation, Record Drawing Review and Discovery | | 8 | 8 | | | | 16 | | \$2,360.00 |
| Demolition, Phasing & Temporary drawings | | 10 | 18 | 28 | | | 56 | | \$6,490.00 |
| Electrical Design Drawings | | 24 | 48 | 56 | | | 128 | | \$15,320.00 |
| Specifications & Cost Estimate | | 8 | 4 | | | 4 | 16 | | \$1,980.00 |
| QA/QC & Comment Incorporation | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Subtotal | 0 | 56 | 82 | 92 | 0 | 4 | 234 | | \$28,310.00 |
| 90% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 4 | | | | | 4 | | \$600.00 |
| Demolition, Phasing & Temporary drawings | | 8 | 8 | 16 | | | 32 | | \$3,720.00 |
| Electrical Design Drawings | | 16 | 24 | 32 | | | 72 | | \$8,600.00 |
| Specifications & Cost Estimate | | 4 | 4 | | | 4 | 12 | | \$1,380.00 |
| QA/QC & Comment Incorporation | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Subtotal | 0 | 34 | 40 | 56 | 0 | 4 | 134 | | \$15,860.00 |
| 100% Design Documents | | | | | | | | | |
| Design Review Mtgs DOA, AE, FP&L, Comcast, AT&T | | 1 | | | | | 1 | | \$150.00 |
| Demolition, Phasing & Temporary drawings | | 2 | 4 | 8 | | | 14 | | \$1,560.00 |
| Electrical Design Drawings | | 4 | 8 | 16 | | | 28 | | \$3,120.00 |
| Specifications & Cost Estimate | | 2 | 4 | | | 1 | 7 | | \$930.00 |
| QA/QC & Comment Incorporation | | 2 | 2 | 4 | | | 8 | | \$930.00 |
| Subtotal | 0 | 11 | 18 | 28 | 0 | 1 | 58 | | \$6,690.00 |
| Task 2 Total Hours | 0 | 101 | 140 | 176 | 0 | 9 | 426 | | |
| Task 2 Total Labor Cost | \$0.00 | \$15,150.00 | \$20,300.00 | \$14,960.00 | \$0.00 | \$450.00 | | | \$50,860.00 |
| Task 3: Bid & Award/Permit | | | | | | | | | |
| Attend Pre-Bid Meeting | | 1 | | | | | 1 | | \$150.00 |
| RFI Responses and Addendum Revisions | | 4 | | 4 | | 2 | 10 | | \$1,040.00 |
| Review of Bid Results & Recommendation | | 1 | | | | | 1 | | \$150.00 |
| Permit Responses and Revisions | | 2 | | 2 | | 2 | 6 | | \$570.00 |
| Subtotal | 0 | 8 | 0 | 6 | 0 | 4 | 18 | | \$1,910.00 |
| Task 3 Total Hours | 0 | 8 | 0 | 6 | 0 | 4 | 18 | | |
| Task 3 Total Labor Cost | \$0.00 | \$1,200.00 | \$0.00 | \$510.00 | \$0.00 | \$200.00 | | | \$1,910.00 |
| Grand Total Hours | 0 | 224 | 294 | 362 | 0 | 22 | 902 | | |
| Grand Total Labor Cost | \$0.00 | \$33,600.00 | \$42,630.00 | \$30,770.00 | \$0.00 | \$1,100.00 | | | \$108,100.00 |

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-7

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-23-PBI-A-007 PBI Wind Cone Relocation and Replacement (CM/CA/RPR)

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) develop this Task I-23-PBI-A-007 PBI Wind Cone Relocation and Replacement (CM/CA/RPR) Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes providing Construction Management (CM), Construction Administration (CA), and Resident Project Representative Services (RPR) services for this Project.

PROJECT TEAM

The Project Team for the Wind Cone Relocation and Replacement construction related services will consist of:

| Firm Name (CONSULTANT / SUBCONSULTANT) | Type of Services |
|---|----------------------------|
| AECOM Technical Services, Inc. (CONSULTANT) | CM/CA/RPR Services |
| Quantum Electrical Engineering, Inc. (SUBCONSULTANT) | Electrical CA/RPR services |
| Tierra South Florida (SUBCONSULTANT) | Material Testing |

PROJECT OBJECTIVE AND APPROACH

This Project scope includes the relocation and replacement of five (5) wind cones for Runways 10L-28R (2 wind cones), 10R-28L (2 wind cones), and 14-32 (1 wind cone) with new L-806(L) LED internally lit current driven supplemental wind cones that were designed under a previous task. The Project includes the installation of (1) new primary L-807 (L) wind cone within the airfield of PBI. The scope includes installing new foundations, new conductors and conduit systems from the closest edge light circuit.

Procurement shall consist of materials procurement and mobilization for a period of sixty (60) Calendar Days from the Notice to Proceed (NTP). Project construction will be for a period of twenty-six (26) Calendar Days from the completion of the Procurement phase to substantial completion. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

Task I – CA Services

AECOM will provide CA Services throughout the scheduled construction of this Project and will include the following:

- A. Conferences and Meetings: Attend and facilitate meetings between Owner, Contractor(s), and Stakeholders, such as preconstruction meeting, progress meetings (a maximum of three (3) weekly construction progress meetings), job conferences and other project related meetings. There will be an estimated total of six (6) meetings. Meeting Minutes for all formal meetings will be prepared by AECOM;
- B. Conformed Documents: Prepare (6) sets of Conformed Contract Plans and Specifications for Contract Execution. Prepare (6) sets of Executed Contract Documents for Construction, (3) for DOA, and (3) for the Contractor. Prepare a CD with Deliverables;
- C. Review Contractor's Maintenance of Traffic Plans;
- D. Review Contractor's Critical Path Schedule;
- E. Review Contractor's Security Plans;
- F. Shop Drawings: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- G. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- H. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents.
- I. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- J. Periodic Inspection Services: AECOM construction manager and EOR will provide periodic inspections (bi-weekly inspections);
- K. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance;
- L. Task Management and Coordination: Coordinate as needed with FAA, DOA Operations, and other Project stakeholders;
- M. AECOM will review Contractor the Record Documents for completeness and obvious errors based on readily available information to the AECOM. The AECOM will provide comments prior to acceptance of the Contractor's Record Documents;
- N. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
- O. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

Task II – CM/RPR Services

As Part of this task, AECOM will perform the following services as part of CM/RPR:

- A. AECOM will perform Pre-Construction Inspection and take photographs of the Project Site in collaboration with the Contractor and the DOA to document existing site conditions. All areas where the Contractor is expected to impact including the: Project Work Areas, Haul Roads, Access Gates, Staging Areas, and Stockpile Locations will be documented;
- B. QA Materials Testing: Provide materials testing for construction activities. This includes verifying that the subgrade and base concrete meet FAA requirements. Facilitate meeting at onset of Project outlining material testing requirements, as outlined in the contract documents, with materials testing personnel, RPR, and the Contractor.
- C. CONSULTANT will review QA Materials Test Results and Laboratory Reports performed by responsible Subconsultant;
- D. RPR Services: CONSULTANT will provide full-time on-site observations of the quality and progress of the contractor's work in-order to determine if the construction is proceeding in accordance with the Contract Documents. The RPR's efforts will be directed toward determining whether the constructed project conforms to the Contract Documents. These RPR Services will include developing Daily Reports, monitoring the Contractor's progress, serving as the Owner's liaison with the Contractor, coordinating materials testing, and conducting on-site observations of the construction activities in progress to assist in determining if the work is being carried out in compliance with the Contract Documents;
- E. AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- F. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the DOA, and develop a substantial and final punch list of items in conjunction with Owner to be completed or corrected; and,
- G. Provide Construction Support Services to DOA during the performance of the Project.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 120 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Tasks I and II.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.
3. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
4. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
5. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task 1-23-PBI-A-007 PBI Wind Cone Relocation and Replacement (CM/CA/RPR)

Billing Rate: \$ 97 \$ 236 \$ 270 \$ 201 \$ 128 \$ 99

| Task Description | Labor Estimate (Hours) | | | | | | | Fee Estimate (\$) | |
|--|---------------------------------------|-------------|------------------------|----------------------|------------------|----------|------------|---------------------|---------------------|
| | Resident Project Representative (RPR) | QC Reviewer | Senior Project Manager | Construction Manager | Project Engineer | Clerical | Total | Expenditures | Total |
| 1.0 CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM + REIM.) | 0 | 5 | 4 | 37 | 23 | 5 | 74 | \$ 13,131.00 | \$ 13,131.00 |
| A Pre-Construction Conference | | | 1 | 4 | 1 | | 6 | \$ 1,282 | \$ 1,282 |
| B Weekly Progress Meetings and Other Meetings (6 Meetings Total) | | | 1 | 4 | 1 | | 6 | \$ 2,244 | \$ 2,244 |
| C Prepare Confirmed and Executed Contract Documents | | 2 | | 6 | 6 | | 14 | \$ 1,130 | \$ 1,130 |
| D Review Contractor's MOT Plans | | | 1 | 1 | 2 | | 4 | \$ 201 | \$ 201 |
| E Review Contractor's Critical Path Schedule | | | 1 | 1 | 1 | | 3 | \$ 201 | \$ 201 |
| F Review Contractor's Safety and Security Plans | | | 1 | 1 | 1 | | 3 | \$ 1,459 | \$ 1,459 |
| G Process Review and Approve Shop Drawings and Submittals | | 2 | | 3 | 3 | | 8 | \$ 329 | \$ 329 |
| H Interpretation and Clarification of Contract Documents/RFI's | | | 1 | 1 | 1 | | 3 | \$ 658 | \$ 658 |
| I Establish and Maintain Project Records | | | 1 | 2 | 2 | | 5 | \$ 329 | \$ 329 |
| J Review Applications for Payment | | | 1 | 1 | 1 | | 3 | \$ 329 | \$ 329 |
| K Periodic Inspections (3) | | | 6 | 6 | 1 | | 13 | \$ 1,206 | \$ 1,206 |
| L Preparation of Change Orders, Notices of Non-Compliance etc... | | | 1 | 1 | 1 | | 3 | \$ 329 | \$ 329 |
| M As Built Review | | 1 | | 2 | 1 | 4 | 8 | \$ 1,334 | \$ 1,334 |
| N Prepare Record Drawings | | | 1 | 2 | 2 | | 5 | \$ 894 | \$ 894 |
| O Project Closeout | | | 2 | 2 | 2 | 1 | 7 | \$ 756 | \$ 756 |
| 2.0 CONSTRUCTION MANAGEMENT SERVICES (T&M + REIM.) | 0 | 0 | 1 | 26 | 173 | 0 | 200 | \$ 27,640.00 | \$ 27,640.00 |
| A Pre-Construction Inspection & Photographs | | | | 2 | 4 | | 6 | \$ 512 | \$ 512 |
| B QA Material Testing | | | | 2 | 2 | | 4 | \$ 658 | \$ 658 |
| C Review Material Test Results | | | | 2 | 2 | | 4 | \$ 658 | \$ 658 |
| D Full Time Inspections (20 days, 8 hours per day) | | | | 16 | 160 | | 176 | \$ 23,686 | \$ 23,686 |
| E Review Guarantees, Warranties, Certifications, and O&M Manuals | | | 1 | 1 | 1 | | 3 | \$ 471 | \$ 471 |
| F Substantial and Final Completion Inspection | | | 4 | 4 | 4 | | 12 | \$ 1,316 | \$ 1,316 |
| G Construction Support Services | | | 1 | 1 | 1 | | 3 | \$ 329 | \$ 329 |
| Total Fee - AECOM Technical Services, Inc. | 0 | 5 | 5 | 63 | 196 | 5 | 274 | \$ 40,771.00 | \$ 40,771.00 |

| | | | |
|------------------------------------|-------------|-------|--------------|
| Subconsultant Fees Task 1.0 | \$ 6,060.00 | LS | \$ 46,831.00 |
| Quantum (LS) | \$ 1,363.00 | TM | \$ 1,363.00 |
| Quantum (T&M) | \$ 0 | EXP | \$ 0 |
| 2 Tierra South Florida, Inc. (T&M) | \$ 0 | Total | \$ 48,194.00 |

Total Fee - Subconsultants \$ 7,423.00
GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 48,194.00

Prepared by: AECOM Technical Services, Inc.

May 17, 2023

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Construction Administration Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach International Airport (PBI) Supplementary Wind Cone Relocation and Replacement Project.

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical construction administration services fee proposal for the Palm Beach International Airport (PBI) Supplementary Wind Cone Relocation and Replacement Project.

- Includes attendance at pre-construction meeting with DOA, AECOM and Contractor.
- Includes preparation of Conformed Documents for Construction.
- Includes electrical shop drawings submittals reviews & approvals.
- Includes (3) site observation visits.
- Includes attendance at bi-weekly progress meetings (2) with DOA, AECOM and Contractor.
- Includes requests for information reviews & approvals.
- Includes substantial and final completion inspections.
- Includes record drawings based on Contractor "Red Line Plan Mark-ups."
- Includes review of closeout documents and maintenance materials.

Our proposed total Lump-Sum fee is:
(See attachment breakdown)

\$ 6,060.00

Sincerely,



Amy L. Champagne-Baker, PE
President



June 2, 2023

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607
Attn: Mr. Andrew Kacer, P.E., Southeast Aviation Manager
email: Andy.Kacer@aecom.com

Re: **Proposal for Geotechnical Services**
Task I-23-PBI-A-007 Wind Cone Relocation
Palm Beach International Airport
West Palm Beach, Florida
TSFGEO Proposal No.: 2306-366

Dear Andy:

As requested, TSFGEO is pleased to submit this proposal to provide Construction Material Testing Services for the above referenced project. We have included a general discussion of services that we understand will be required for this project and present our Schedule of Fees for these services.

PROJECT DESCRIPTION

Based on the available information, we understand that the project will consist of relocating a wind cone PBIA.

PROPOSED SCOPE OF SERVICES

We recognize that construction projects are built in the "real world" and that proposed schedules do not always work out. Therefore, we appreciate the importance of being able to respond to requests for our services on short notice and of working hours other than the normal schedule, including nighttime work and weekend work.

Based on our understanding of the project requirements, we anticipate that the following testing services will be required during the design and construction phases of the project.

CONSTRUCTION MATERIAL TESTING SERVICES

Sampling and Laboratory Testing

- Provide Standard or Modified Proctor test results on fill material, as required;
- Test compressive strength concrete cylinders;

Construction Materials Testing

- Perform In-Place-Density testing on fill material as needed;
- Conduct slump, and temperature testing on concrete;
- Mold compressive strength test cylinders (4 cylinders per set);

PROFESSIONAL SERVICES

- Provide weekly reports documenting laboratory tests and field data to appropriate parties;
- Provide Senior Engineer to review daily reports, coordination and meetings.

Please note that our services do not include supervision or direction of the actual work. Job site safety will be the sole responsibility of the contractor. Construction defects not related to structural works, such as water penetration (in roofing, windows, doors, louvers), and building finishings (interior, exterior), stairs (railings, surface finish, tread/riser ratio) are not part of our scope of work. TSFGeo cannot be responsible for non-structural defects that could lead to structural elements failures down the road.

ESTIMATED FEE

The actual fees for our services will be highly dependent on the construction schedule. We propose to provide our services on a unit rate basis; based on the actual services performed and the unit rates attached to this proposal. Invoices will be submitted monthly for the portion of work completed. An estimate for our services is indicated below:

Estimated Total Fees

\$ 1,363.00


PBIA Task I-23-PBI-A-007 Wind Cone Relocation
TSFGEO Proposal No. 2306-366

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
CS Department Manager



R. Morgan Dickinson, P.E.
Principal Engineer

Attachments: Unit Fee Schedule
 General Notes
 Authorization
 Terms and Conditions

PBIA Task I-23-PBI-A-007 Wind Cone Relocation
TSFGeo Proposal No. 2306-366

**Fees Breakdown for
Construction Materials Testing Services**

Personnel

| | | | | | | |
|-----------------|---|----|--------|-----------------|-----------|---------------|
| Senior Engineer | 1 | \$ | 175.00 | hour | \$ | 175.00 |
| | | | | Subtotal | \$ | 175.00 |

Laboratory Services

| | | | | | | |
|--|---|----|--------|-----------------|-----------|-----------------|
| Standard or Modified Proctor on Soil | 1 | \$ | 120.00 | each | \$ | 120.00 |
| Nuclear Density Test - up to five (5) per trip | 1 | \$ | 140.00 | trip | \$ | 140.00 |
| Additional Density tests (beyond 5 tests) each | 1 | \$ | 28.00 | each | \$ | 28.00 |
| Concrete Compression Test (min four (4) cylinders per set) | | | | | | |
| Prepare cylinders & slump test on site & deliver to lab | 6 | \$ | 150.00 | set | \$ | 900.00 |
| | | | | Subtotal | \$ | 1,188.00 |

| | | | | | | |
|------------------------|--|--|--|--|-----------|-----------------|
| Estimated Total | | | | | \$ | 1,363.00 |
|------------------------|--|--|--|--|-----------|-----------------|

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-8

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-23-PBI-A-008 PBI Repackage/Bid Garage Repairs

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-PBI-A-008 PBI Repackage/Bid Garage Repairs Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes repackaging, then bidding, Task I-21-PBI-A-047 PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3 Project (Original Garage Repair Project).

PROJECT TEAM

The Project Team for the Repackaging/Bid Services will be:

| Firm Name (CONSULTANT / SUBCONTRACTOR) | Type of Services |
|---|---|
| AECOM Technical Services, Inc. (CONSULTANT) | Project Management/Engineering Services |

PROJECT OBJECTIVE AND APPROACH

This Project serves to repackage, then bid, the Original Garage Repair Project, which consisted of a Base Bid and three Add Alternates (Add Alts). In the Original Garage Repair Project, only the Base Bid and Add Alt No. 2 were awarded. For this Project, AECOM will develop a separate set of Bid Documents that will include a Base Bid and an Add Alt No. 1. The Base Bid (previously Add Alt No. 1 from the Original Garage Repair Project) will include installing surface coating to the Short-Term Parking Garage (STPG). Add Alt No. 1 (previously Add Alt No. 3 from the Original Garage Repair Project) will include repairs to Long Term Parking Garage 3 (LTPG 3) parking structure and new signage. AECOM will develop Bid Documents for this Project that include the Following:

Task I – Bid Document Development

Advance Bid Documents

The following elements are included as part of this task:

- a) Kick-off meeting will be held with DOA and Design Team prior to task beginning in order to discuss design objective and goals.

During this phase, the Advance Bid Documents review meeting will be held with DOA and Design Team to evaluate the proposed plans and design intent. Any findings during this phase

will be summarized and any changes to the project due to unforeseen conditions will be brought to the attention of the DOA.

Deliverables (Advance Bid Documents)

1. Kick-Off Meeting Minutes
2. Advance Bid Documents
 - o Contract Drawings - .pdf;
 - o Estimate of Probable Program Cost - pdf;
 - o Complete Project Manual - .pdf;
3. Meeting Minutes from the Advance Bid Document Review Meeting.

Bid Documents

The CONSULTANT will develop Bid Documents from the approved Advance Bid Documents. They will consist of the information contained in the Advance Bid Documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

Deliverables (Bid Documents)

1. Bid Documents
 - o Contract Drawings - .pdf;
 - o Estimate of Probable Program Cost - pdf;
 - o Complete Project Manual - .pdf;

Task II – Bidding Services

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids for each separate prime contract for construction, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid conference to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. One (1) Pre-Bid Conference; and,
- b. One (1) Bid Opening Meeting.

Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a. Four (4) sets of Bidding Documents;
- b. Electronic Bid Documents;
- c. Applicable Addenda during Bidding process;

- d. Pre-Bid Agenda and Meeting Minutes;
- e. Bid Tabulation of Bids; and,
- f. Bid Recommendation Letter for Award.

PROJECT SCHEDULE

AECOM is scheduled to complete the bid documents for this project within 60 Calendar Days following the kick-off meeting for this Project. Then the Bidding process should take another 45 Calendar Days.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Tasks I and II.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
3. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
4. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-008 PBI Repackage/Bid Garage Repairs

Billing Rate: \$ 236 \$ 270 \$ 201 \$ 128 \$ 96

| Task Description | Labor Estimate (Hours) | | | | | | Fee Estimate (\$) | | |
|---|------------------------|------------------------|-----------------------------|------------------|----------|------------|-------------------|------------|------------------|
| | QC Reviewer | Senior Project Manager | Construction/Design Manager | Project Engineer | Clerical | Total | Labor | Expenses | Total |
| 1.0 ADVANCE BID DOCUMENT DEVELOPMENT (LUMP SUM) | | | | | | | | | |
| Kick-Off Meeting/Minutes | 18 | 7 | 40 | 34 | 5 | 104 | \$ 19,010 | \$ 0 | \$ 19,010 |
| Develop Advance Bid Document Plans | 12 | 2 | 2 | 2 | 1 | 17 | \$ 1,294 | | \$ 1,294 |
| Develop Program Cost Estimate | 4 | 1 | 24 | 24 | | 53 | \$ 10,998 | | \$ 10,998 |
| Develop Front End Project Manual | 1 | 4 | 8 | 2 | 2 | 17 | \$ 3,888 | | \$ 3,888 |
| Develop Technical Specifications | 1 | 4 | 4 | 4 | 2 | 15 | \$ 1,744 | | \$ 1,744 |
| 2.0 BIDDING SERVICES (LUMP SUM) | | | | | | | | | |
| Submit Bid Documents to DOA | 3 | 8 | 35 | 45 | 3 | 94 | \$ 15,951 | \$ 500 | \$ 16,451 |
| Develop Bid Plans from Advance Plans | | 1 | 4 | 16 | 1 | 22 | \$ 3,218 | | \$ 3,218 |
| Bid Technical Specifications | | 2 | 4 | 2 | | 8 | \$ 1,600 | | \$ 1,600 |
| Final Updates Bid Front End Specifications & FAA General Provisions | | 1 | 8 | 8 | | 16 | \$ 2,632 | | \$ 2,632 |
| Bid Project Construction Cost Estimate | 2 | 1 | 4 | 4 | | 11 | \$ 2,058 | | \$ 2,058 |
| Pre-Bid Conference | 1 | 1 | 4 | 4 | 2 | 10 | \$ 1,856 | \$ 500 | \$ 2,356 |
| Addenda | | 1 | 8 | 8 | | 16 | \$ 3,330 | | \$ 3,330 |
| Bid Recommendation Letter and Bid Tabulation | | 1 | 3 | 3 | | 7 | \$ 1,257 | | \$ 1,257 |
| Total Fee - AECOM Technical Services, Inc. | 21 | 15 | 75 | 79 | 8 | 188 | \$ 34,961 | 500 | \$ 35,461 |

| | |
|--------------|---------------------|
| Lump Sum | \$ 34,961.00 |
| T&M | \$ 0.00 |
| Expenses | \$ 500.00 |
| Total | \$ 35,461.00 |

| | |
|-----------------------------------|-------------|
| Subconsultant Fees Task | |
| 1 Subconsultant (T&M) | \$ - |
| Subconsultant (Expenses) | \$ - |
| 2 Subconsultant (T&M) | \$ - |
| Subconsultant (Expenses) | \$ - |
| Total Fee - Subconsultants | \$ - |

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 35,461.00

Prepared by: AECOM Technical Services, Inc.

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-9

Miscellaneous Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-23-PBI-A-009 PBI Landside Terminal Paging System Expansion

OVERVIEW

The Palm Beach DOA Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Professional Engineering Services associated with the Task I-23-PBI-A-009 PBI Landside Terminal Paging System Expansion Project (Project) at Palm Beach International Airport (PBI). The project consists of the addition of loudspeakers, paging zones, ambient noise sensors and monitoring modules at various locations within the main terminal building that were deemed to be lacking in audio coverage, as shown in red below in Figure 1. Additions of loudspeaker coverage may be by expansion of an existing zone, or the addition of new zones as required. The expansion will be compatible with the existing Terminal wide system and may require the addition of electronic equipment in the existing paging control rooms around the Terminal. Field surveys may determine additional areas that are lacking in coverage and may require modifications.

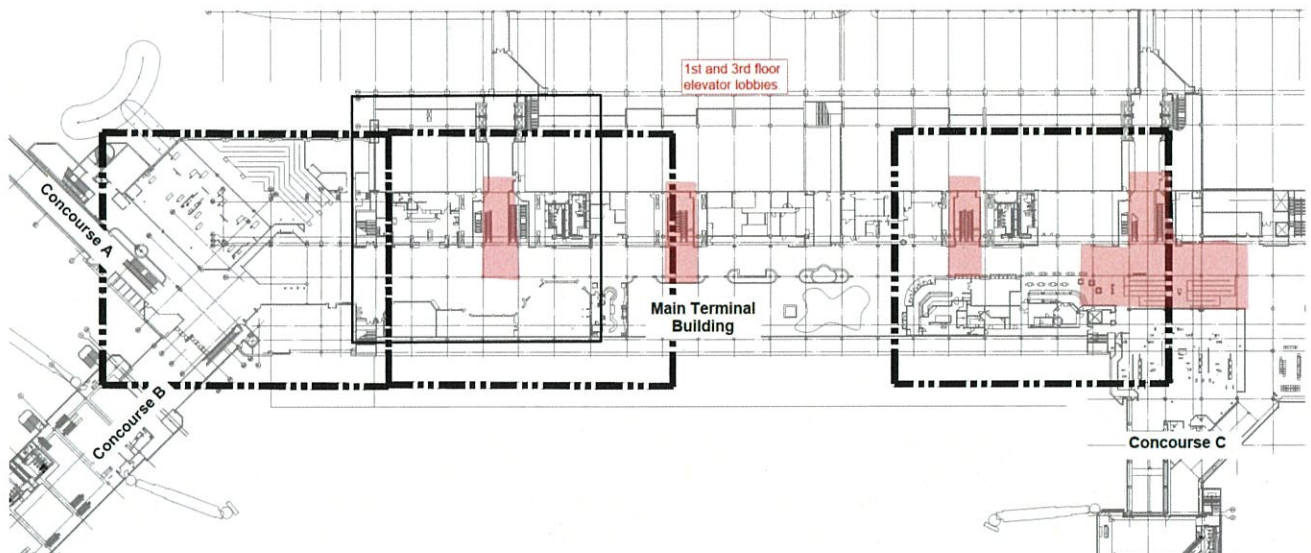


Figure 1: PBI Terminal Paging System Expansion

The CONSULTANT will prepare Construction Documents (CDs) for the design and bidding services of the Project. The Terminal Paging System Expansion shall be in accordance with the National Electrical Code, NPFA, and all applicable local codes. The system design shall be of a proprietary nature in order to ensure compatibility with the existing Terminal wide control systems (GlobalCom).

In addition to the overall design and layout of the new Terminal Paging System expansion, the CONSULTANT will provide basic services including electrical expansions as required to support the paging expansion, and minor architectural cut and patch requirements to allow access to the required expansion areas. The CONSULTANT will prepare construction documents; and support the DOA during the bid and award services. A brief overview of pertinent tasks to be performed by the CONSULTANT for the Project includes:

1. Attend One (1) DOA Design Kick-Off Meeting and meeting minutes;
2. Coordinate One (1) Internal Design Team Kick-Off Meeting;
3. Attend One Site Survey to examine the affected areas.
4. Coordinate Data Collection, Records Research and Review of As-Built information;
5. Validate Program Cost Estimate;
6. Facilitate Design Coordination meetings via conference calls and webinars;
7. Prepare 60%, 100%, and Bid Documents, General Provisions, Technical Specifications, Drawings, Project Schedule, Engineer's Report, Cost Estimates,
8. Attend Four (4) DOA Submittal Review Meetings. Prepare meeting agenda and meeting minutes (60%, 100%, and Bid Documents);
9. Task Management/Task Administration – Coordination with DOA, FAA, DOA Operations, Permitting Agencies (if applicable), Subconsultants, and other stakeholders;
10. Provide Quality Assurance for all deliverables;
11. Prepare and Assemble Final Bid Documents: Project Manual, Technical Specifications and Drawings;
12. Assist DOA in Advertisement and Bidding of Task – Issue Addendums, attend Pre-bid conference, prepare meeting minutes, coordinate a site visit, and answer contractor questions;
13. Evaluate Bids and Prepare Bid Recommendations Award Letter and Bid Tabulations;
14. Task Management;
15. Task Coordination (DOA Operations, Other Consultants, and other interested project stakeholders); and,
16. Construction Administration Services and Resident Project Representative Services will not be included in this task authorization.

Project Team

This Project Team for the Basic Services and Special Services and the respective type of services to be provided by the Team are provided below:

| Firm Name (CONSULTANT/SUBCONSULTANT) | Type of Services |
|---|--|
| AECOM Technical Services, Inc. (AECOM) (CONSULTANT) | Project Management; Paging System Design/Permitting |
| Quantum Electrical Engineering (QEE) (SUBCONSULTANT) | Electrical Engineering |

SCOPE OF SERVICES

Our scope of services will follow two distinct phases: Phases 1 and 2. Phase 1 consists of three (3) subphases: sixty percent (60%) design completion of the Contract Documents (Phase 1A); one hundred percent (100%) design completion (Phase 1B); and final design completion of Bid Documents (Phase 1C). Phase 2 consists of Bidding and Award of Contract requirements.

A brief definition for each of the Phases included in the scope of services is provided below:

PHASE 1A -CONSULTANT will develop the Contract Documents to a predetermined completion milestone (60% of completion). CONSULTANT will develop the Program Costs and prepare Schedule/Phasing Plans.

PHASE 1B -CONSULTANT will develop the Contract Documents to 100% to allow the Project to be reviewed and preliminarily submitted for applicable permitting agencies. CONSULTANT will update Program Costs, Schedule and Phasing Plans.

PHASE 1C -CONSULTANT will complete the Bid Documents to allow the Project to be permitted, bid, and constructed. CONSULTANT will prepare the Final Program Cost Estimate, Schedule and Phasing Plans.

PHASE 2 - CONSULTANT will assist the DOA in obtaining Bids and in the Award of a Construction Contract, as required.

The following paragraphs summarize the CONSULTANT'S Basic Services for Phases 1 and 2:

1.0 PHASE 1A – 60% CONTRACT DOCUMENTS

The CONSULTANT will prepare a presentation/agenda for the Project's Kick Off meeting. All key stakeholders will be invited to this meeting: DOA/Airport Staff, CONSULTANT'S key staff; and Subconsultants. The Kick-Off meeting's discussion

items will include: stakeholder identifications, project limits, safety and operational impacts, permitting, design services, design standards, schedule, budget and construction constraints. The CONSULTANT will distribute the meeting minutes which will highlight outstanding action items and meeting details. Immediately following the Kick-Off Meeting, the field investigative services associated with the Project will begin. All investigative services will be coordinated with DOA Operations.

The CONSULTANT will prepare the following as a part of Phase 1A:

1.1. Documents Data Collection and Records Research

The Consultant will review existing DOA design, as-built, record drawings, and information regarding the proposed Project components and gather information for use during subsequent design phases. All pertinent record documents associated within the limits of work and adjacent areas will be obtained from the DOA records database.

1.2. Field Investigative Services and Design Development

During the execution of Field Investigative Services activities, AECOM will examine the existing areas to develop the scope limits of the project.

1.2.1 Site Evaluation

The AECOM Team will perform one site visit to evaluate the existing conditions and collect data. The AECOM Team will evaluate the existing condition of the zoning, distribution and areas lacking coverage, and any other above ground infrastructure within the project limits.

1.3. The 60% Plans will include, but are not limited to:

1. Cover Sheet (60%).
2. Drawings Index (60%).
3. Summary of Quantities (60%).
4. Safety and Security Plan (60%).
5. Existing Conditions Plan (60%).
6. Miscellaneous Details (60%).
7. Electrical/Paging Plans (60%).
8. Electrical/Paging Circuiting Plans (60%).
9. Misc. Electrical/Paging Details (60%).

The CONSULTANT will prepare and submit an Engineer's Design Report covering all findings and recommendations developed throughout the 60% Design Development Phase including a Construction Schedule and estimate of probable Project Program Costs thru Construction.

1.4. Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Design K.O. Meeting;
- b. Team Coordination Meetings;
- c. Regulatory permitting agencies meetings, as applicable; and
- d. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1A for review comments and approval by the DOA.

1.5. Deliverables

The CONSULTANT will deliver the following major Deliverables (pdf):

- a. K.O. Meeting Minutes;
- b. Meeting minutes from all applicable meetings of this Phase;
- c. 60% Drawings;
- d. 60% Technical Specifications;
- e. 60% Project Program Cost Estimates;
- f. 60% Project Schedule;

1.6. Schedule

The anticipated duration of this phase is 60 calendar days from the kick-off meeting.

2.0 PHASE 1B - 100% SUBMITTAL

Following the 60% Complete Contract Documents approval the CONSULTANT will develop 100% Complete Contract Documents from the approved 60% Complete Contract Documents. These 100% documents will consist of the information contained in the 60% documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

2.1 The 100% Plans will include, but are not limited to:

1. Cover Sheet (100%).
2. Drawings Index (100%).
3. Summary of Quantities [100%].
4. Safety and Security Plan (100%).
5. Existing Conditions Plan (100%).
6. Electrical/Paging Plans (100%).
7. Electrical/Paging Circuiting Plans (100%).
8. Misc. Electrical/Paging Details (100%).

2.2 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Coordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,

- c. One (1) DOA Review Submittal Meeting.

The CONSULTANT will submit pdf copies of all Contract Documents required under this Phase 1B for review comments and approval by the DOA.

2.3

Deliverables

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Regulatory permitting agencies documentation;
- c. Responses to 60% review comments;
- d. 100% Contract Drawings;
- e. 100% Project Manual - Technical Specifications, Front Ends and FAA General Provisions;
- f. 100% Project Cost Budget Estimates;
- g. 100% Project Schedule; and,
- h. 100% Engineer's Report.

2.4 **Schedule**

The anticipated duration of this phase is 30 calendar days.

3 **PHASE 1C – BID SUBMITTAL**

Following the 100% Complete Contract Documents approval the CONSULTANT will develop Bid Documents from the approved 100% Complete Contract Documents. They will consist of the information contained in the 100% documents, as well as incorporate any comments provided by the DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

3.1 The **Bid Plans** will include, but are not limited to:

- 1. Cover Sheet
- 2. Drawings Index
- 3. Summary of Quantities
- 4. Safety and Security Plan
- 5. Existing Conditions Plan
- 6. Electrical/Paging Plans
- 7. Electrical/Paging Circuiting Plans
- 8. Misc. Electrical/Paging Details

In providing opinions of probable construction costs, the DOA 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 to the accuracy of such opinions as compared to bid or actual costs.

3.2 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. Team Coordination Meetings, as applicable;
- b. Regulatory permitting agencies meetings, as applicable; and,
- c. One (1) DOA Review Submittal Meeting.

3.3 Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a. Meeting minutes from all applicable meetings of this Phase;
- b. Regulatory permitting agencies documentation;
- c. Responses to 100% review comments;
- d. Bid Drawings;
- e. Bid Project Manual - Technical Specifications, Front Ends and FAA General Provisions;
- f. Construction Safety and Phasing Plan;
- g. Bid Project Cost Budget Estimates;
- h. Bid Project Schedule; and,
- i. Bid Engineer's Report.

3.4 Schedule

The anticipated duration of this phase is 30 calendar days.

4.0 PHASE 4 - BIDDING AND AWARD OF CONTRACT

Bid & Award Services

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid conference to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

5.1 Deliverables

- a. PDF copy of the Bid Documents
- b. Pre-Bid Conference Agenda and Meeting Minutes
- c. Addenda as required during the bid process
- e. Bid Tabulation
- f. Bid Recommendation Letter

5.1 Schedule

The anticipated duration of this phase is 45 calendar days.

Assumptions:

1. DOA will provide all record documents applicable to this task.
2. DOA will pay for all permitting costs.
3. Construction Administration and Resident Project Representative Services are not included in this scope of services. If requested, the CONSULTANT will perform Construction Administration and Resident Project Representative Services via a separate task order.
4. In providing opinions of probable construction costs, the DOA 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 based on the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.
5. CONSULTANT shall not be responsible for the means, methods, techniques, and sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. The CONSULTANT shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
6. CONSULTANT will not provide 3D modeling or EASE acoustical design analysis as part of the design. Design is limited to calculated/anticipated sound pressure levels at 5' AFF to match the existing conditions throughout the Terminal.

Exhibit B-2
 Labor/Free Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I23-PBI-A-009 PBI Landside Terminal Paging System Expansion

Billing Rate: \$ 236 \$ 270 \$ 215 \$ 201 \$ 128 \$ 96

| Task Description | Labor Estimate (Hours) | | | | | | | | | | Fee Estimate (\$) | | | |
|--|------------------------|------------------------|-----------------|----------------|------------------|----------|-------|-----------|----------|-----------|-------------------|--|--|--|
| | QC Reviewer | Senior Project Manager | Senior Engineer | Design Manager | Project Engineer | Clerical | Total | Labor | Expenses | Total | | | | |
| Task I23-PBI-A-009: PBI Landside Terminal Paging System Expansion | | | | | | | | | | | | | | |
| Phase 1 CONTRACT DOCUMENTS (60% SUBMITTAL) | | | | | | | | | | | | | | |
| Project Site Visit to Confirm Existing Conditions | 4 | 8 | 32 | 13 | 128 | 10 | 195 | \$29,941 | \$500 | \$30,441 | | | | |
| Existing Conditions (60%) | | 1 | | 1 | 8 | | 10 | \$ 1,495 | \$ 500 | \$ 1,995 | | | | |
| Reflected Ceiling Plans (60%) | | | | | 8 | | 8 | \$ 1,426 | - | \$ 1,426 | | | | |
| Paging One Line Diagrams (60%) | | 1 | 8 | 8 | 64 | | 81 | \$ 11,790 | - | \$ 11,790 | | | | |
| Paging Details (60%) | | | 4 | 2 | 16 | | 22 | \$ 3,310 | - | \$ 3,310 | | | | |
| 60% Technical Specifications | | | 4 | | 16 | | 20 | \$ 2,908 | - | \$ 2,908 | | | | |
| 60% Project Construction Cost Estimate | | 1 | 4 | | 8 | 2 | 15 | \$ 2,346 | - | \$ 2,346 | | | | |
| ISO 9001 - CA/QCC Review | | 1 | 4 | | 4 | | 9 | \$ 1,642 | - | \$ 1,642 | | | | |
| 60% Review Meeting | 4 | | 8 | | 4 | | 12 | \$ 2,664 | - | \$ 2,664 | | | | |
| Task Management | | 4 | | | 4 | | 4 | \$ 512 | - | \$ 512 | | | | |
| Reflected Ceiling Plans (100%) | | 4 | 19 | 8 | 54 | 4 | 93 | \$15,013 | \$0 | \$15,013 | | | | |
| Paging One Line Diagrams (100%) | | | 8 | 4 | 32 | | 44 | \$ 6,620 | - | \$ 6,620 | | | | |
| Paging Details (100%) | | | 2 | 2 | 8 | | 12 | \$ 1,856 | - | \$ 1,856 | | | | |
| 100% Technical Specifications | | | 2 | 2 | 4 | | 6 | \$ 1,344 | - | \$ 1,344 | | | | |
| 100% Project Construction Cost Estimate | | | 1 | | 2 | | 3 | \$ 942 | - | \$ 942 | | | | |
| ISO 9001 - CA/QCC Review | | 4 | 4 | | 4 | | 8 | \$ 1,804 | - | \$ 1,804 | | | | |
| 100% Review Meeting | | | 4 | | 4 | | 4 | \$ 512 | - | \$ 512 | | | | |
| Task Management | | 4 | | | 4 | | 4 | \$ 1,464 | - | \$ 1,464 | | | | |
| Phase 3 - BIDDING AND AWARD | | | | | | | | | | | | | | |
| Submit Bid Documents to DOA: | 0 | 10 | 22 | 12 | 28 | 0 | 72 | \$13,426 | \$0 | \$13,426 | | | | |
| Bid Drawings | | | 4 | | 8 | | 12 | \$ 1,884 | - | \$ 1,884 | | | | |
| Bid Technical Specifications | | | 4 | | 4 | | 8 | \$ 1,372 | - | \$ 1,372 | | | | |
| Bid Project Construction Cost Estimate | | | 2 | | 2 | | 4 | \$ 686 | - | \$ 686 | | | | |
| Pre-Bid Conference | | | 2 | | 4 | | 6 | \$ 1,912 | - | \$ 1,912 | | | | |
| Addenda | | 2 | 8 | | 8 | | 18 | \$ 3,284 | - | \$ 3,284 | | | | |
| Bid Tabulation | | 2 | 4 | | 2 | | 8 | \$ 1,600 | - | \$ 1,600 | | | | |
| Bid Submittal Review | | 2 | 4 | | 2 | | 8 | \$ 1,344 | - | \$ 1,344 | | | | |
| Bid Recommendation Letter | | 2 | 4 | | 4 | | 10 | \$ 1,344 | - | \$ 1,344 | | | | |
| Total Fee - AECOM Technical Services, Inc. | 8 | 22 | 73 | 33 | 210 | 14 | 360 | \$58,380 | \$500 | \$58,880 | | | | |

Subconsultant Fees
 Quantum Electrical Engineering, Inc. (L.S) \$ 5,700

Lump Sum \$ 64,080.00
 T&M
 Expenses \$ 500.00
 \$ 64,580.00

Total Fee - Subconsultants \$ 5,700.00

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 64,580.00

Prepared by: AECOM Technical Services, Inc.

March 31, 2023

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Design Fee Proposal for the Palm Beach County Department of Airports (DOA) – PA System Improvements.

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM design fee proposal for the Palm Beach County Department of Airports (DOA) – PBI PA System Improvements. The following items are included in our scope:

- Includes coordination meetings with DOA Departments, CMAR and AECOM Design Team.
- Includes record drawings reviews & on-site electrical verifications of existing conditions with the assistance of DOA Electrical Maintenance Department.
- Quantum shall provide constructability review of the AECOM design.
- Does not include PA design and/or specifications.
- Does not include construction services.

Our proposed total Lump-Sum fee is:

\$ 5,700.00

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PA System Improvements
 QUANTUM ELECTRICAL ENGINEERING, INC.
 SCOPE FEE SUMMARY**

FEE PROPOSAL ELECTRICAL SERVICES to AE 5/31/2023

| PHASE OF WORK | Rate | | Proj. Mgr. Hours | \$170.00 Hours | Prof. Eng Hours | \$150.00 Hours | Proj. Eng Hours | \$145.00 Hours | CADD/Tech Hours | \$85.00 Hours | Field Eng. Hours | \$140.00 Hours | Clerical Hours | \$50.00 Hours | Total Hours | Expenses | TOTAL TASK COST | |
|---|------|--|---------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|------------------|---------------------|-------------------|-------------------|------------------|----------------|----------|--------------------|--|
| | | | | | | | | | | | | | | | | | | |
| Task 1: Design Investigation | | | | | | | | | | | | | | | | | | |
| Design Review Migs DOA and AE | | | | 2 | | | | | | | | | | | 2 | | \$300.00 | |
| Site Investigation, Record Drawing Review and Discovery | | | | | 8 | | | | | | 16 | | | | 16 | | \$2,240.00 | |
| Constructability Review | | | | | 10 | | | | | | 14 | | | | 22 | | \$3,160.00 | |
| Subtotal | | | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 40 | | \$5,700.00 | |
| Grand Total Hours | | | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 40 | | | |
| Grand Total Labor Cost | | | \$0.00 | \$1,500.00 | \$1,500.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$4,200.00 | \$0.00 | \$0.00 | \$0.00 | | | \$5,700.00 | |

This initial Work Program #1, as described herein, consists of nine tasks. As summarized below, these initial efforts have an overall budget of \$2,126,629.78.

LEVEL 1 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|--|------------------------|
| Task I-23-PBI-A-001 | PBI Taxiway R Rehabilitation | \$ 278,100.88 |
| Task I-23-PBI-A-002 | PBI Cargo Ramp Expansion | \$ 637,805.70 |
| Task I-23-DOA-A-003 | Miscellaneous Planning & Engineering Services 2023 | \$ 49,735.00 |
| Task I-23-PBI-A-004 | PBI Roof Replacement Resident Inspection Services | \$ 46,272.40 |
| Task I-23-PBI-A-005 | PBI Garage Repairs Threshold Inspection Services | \$ 83,152.96 |
| Task I-23-LNA-A-006 | LNA Phases 3 and 4 | \$ 633,327.84 |
| Task I-23-PBI-A-007 | PBI Wind Cone Relocation and Replacement (CM/CA/RPR) | \$ 48,194.00 |
| Task I-23-PBI-A-008 | PBI Repackage/Bid Garage Repairs | \$ 35,461.00 |
| Task I-23-PBI-A-009 | Landside Terminal Paging System Expansion | \$ 64,580.00 |
| Sub-total (Level 1) | | \$ 1,876,629.78 |

LEVEL 2 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|---|----------------|
| Task II-23-DOA-A-001 | Annual Environmental Compliance Monitoring, Inspection, and Training Services | \$ 0.00 |
| Sub-total (Level 2) | | \$ 0.00 |

LEVEL 3 TASKS:

| TASK LEVEL / NO. | DESCRIPTION | BUDGET |
|----------------------------|--|----------------------|
| Task III-23-DOA-A-001 | Misc. AEP and Construction Consulting Services | \$ 250,000.00 |
| Task III-23-DOA-A-002 | Misc. Financial Consulting and Capital Programming | \$ 0.00 |
| Task III-23-DOA-A-003 | Misc. Environmental Consulting Services | \$ 0.00 |
| Sub-total (Level 3) | | \$ 250,000.00 |

| | |
|--------------------------------------|------------------------|
| Grand Total (Work Program #1) | \$ 2,126,629.78 |
|--------------------------------------|------------------------|

Exhibit B contains a series of tables that provide more detail associated with the establishment of the fees prescribed above.

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B

Detailed Fees, Expenses, and Payments

A. Methods of Payment for Services and Expenses of Consultant

1. Level I and II Tasks:

For labor and expenses expended by CONSULTANT for Projects, COUNTY shall pay CONSULTANT the amount as summarized in **Table B-1**. Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and will not be billed separately.

The total lump sum payment by the COUNTY to the CONSULTANT for rendering basic services for Task Level I projects as described in Exhibits "A-1-1" through "A-1-9" and the Task Level II project described in Exhibit "A-II-1", including labor costs, is **\$1,565,724.00**. Time and Material payments for Task Level I and II services, which include survey, geotechnical and specialty subconsultant fees, are **\$302,605.78**. Lump Sum Expenses for Task Level I and II services are **\$0.00**. Reimbursable expenses for Task Level I and II services are **\$8,300.00**. The total for labor and expenses for Task I services shall be **\$1,876,629.78**.

If it is necessary to increase the compensation beyond said allowances, prior written approval shall be obtained from the COUNTY authorizing said increase in compensation.

2. Level II and III Tasks - Miscellaneous and Administrative Services for 2023:

For labor and expenses expended by CONSULTANT, COUNTY shall pay CONSULTANT the amounts as summarized in **Table B-2**. Paid vacations, holidays, sick leave and leaves of absence are included in the billing rates as CONSULTANT'S overhead and will not be billed separately.

Miscellaneous Architectural, Planning, Financial, Environmental, Engineering and Construction Services (III-23-DOA-A-001)

A Not-To-Exceed labor and expense allowance of Two Hundred Fifty Thousand Dollars (\$250,000) is provided to additional services performed under Task III-23-DOA-A-001. A separate proposal or authorization is to be required for this Task. This is to serve as a record keeping arrangement for the performance of miscellaneous planning, financial, environmental, engineering and construction services not included under Task I or II. Billing will be on a lump sum or hourly basis as approved by the COUNTY with lump sum and/or reimbursable expenses listed, all charged against Task III-23-DOA-A-001 as established in this Contract.

Miscellaneous:

If it is necessary to increase the compensation beyond the above labor and expense amount, prior written approval shall be obtained from the COUNTY authorizing said increase in compensation. It is understood and agreed that the CONSULTANT shall not be obligated to perform any services beyond the amounts specified above without additional compensation being paid. CONSULTANT shall give written notice to the COUNTY when the total compensation due the CONSULTANT reaches 90 percent of the total amount set forth herein.

3. Prime Subconsultants:

For services rendered by prime subconsultants employed by CONSULTANT, in connection with all basic and miscellaneous services, COUNTY shall pay the amount billed to CONSULTANT therefore. It is understood and agreed by COUNTY that as a minimum the following prime subconsultants shall be retained by CONSULTANT and their services shall be billed as follows:

Prime Subconsultants are:

- A. Brown & Phillips, Inc. (DBE)
- B. Chandler, Campbelle & Daschle (DBE)
- C. Chen Moore & Associates, Inc.
- D. Cyriacks Environmental Consulting Services, Inc. (DBE)
- E. Harris, Miller, Miller, & Hanson, Inc. (DBE)
- F. Quantum Electrical Engineering, Inc. (DBE)
- G. Ricondo & Associates, Inc.
- H. Sightline, Inc.
- I. Scalar Consulting Group, Inc.
- J. Thomas Geotechnical Services
- K. Tierra South Florida (DBE)
- L. Urban Design Studios
- M. WGI, Inc.

Billing will be on a lump sum or hourly basis as approved by the COUNTY with lump sum and/or reimbursable expenses listed. Billing Rates will be as set forth in **Exhibit B-1**.

4. Special Subconsultants and Subcontractors:

For services rendered by special subconsultants and subcontractors agreed to by COUNTY in advance in writing, and employed by CONSULTANT in connection with all services, COUNTY shall pay the amount billed to CONSULTANT for subconsultant's and/or subcontractor's personnel. All reimbursable expenses shall be billed in accordance with Article 3 and shall be paid the amount billed therefore.

5. Reimbursable Expenses:

In addition to payments provided for in Article 3, COUNTY shall pay CONSULTANT and its subconsultants and subcontractors the actual cost of reimbursable expenses incurred where goods or services are procured from commercial sources. For services furnished CONSULTANT or its subconsultant or subcontractor from sources within its own facilities, such as computer or reproduction services and the like, COUNTY shall pay CONSULTANT the amounts as determined from the CONSULTANT'S or subconsultant's schedule of rates in effect at the time services are provided. Reimbursable expense shall be understood to include authorized travel including air fare, hotel costs, meals, automobile lease and rental, reimbursed use of private automobiles, commercial services and reproduction, printing, long distance telephone, express mailing, testing apparatus, and incidental expenses. Subsistence expenses when authorized in writing by COUNTY shall be paid at rates set forth in **Table B-3**.

B. Time and Method of Payment

CONSULTANT shall submit monthly statements for basic and additional services rendered, and for reimbursable and subsistence expenses incurred. COUNTY shall make payments in response to CONSULTANT'S monthly statements within (30) days of the date of COUNTY'S receipt of said monthly statements. All disputed or unsupported items shall be returned to the CONSULTANT for correction.

Progress payments to CONSULTANT shall be due and payable monthly in proportion to the percentage of work accepted and approved by the COUNTY.

C. General

Hourly labor billing rates for all CONSULTANT and subconsultant personnel engaged indirectly on the project, including, but not limited to, officers, principals, engineers, architects, survey men, Junior Engineers, draftsmen, specification writers, estimators, other technical personnel, stenographers, typists and clerks, shall be as set forth in **Exhibit B-1**.

Labor Costs shall include, when authorized by COUNTY, overtime at higher than regular rates to the extent defined by U.S. Federal Wage and Hour Law, but services at said overtime rates shall be utilized only when given prior written approval of the COUNTY.

EXHIBIT "B"

SCHEDULE OF PAYMENTS

The Scope of Work to be completed by CONSULTANT as defined in Exhibit "A" consists of specific completion phases which shall be clearly identified on a phase-by-phase basis upon submission to the COUNTY of certain "deliverables"* as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following Schedule of Payments:

PHASE 1

Task(s) to be Completed:

Task I-23-PBI-A-001: PBI Taxiway R Rehabilitation

Completion Time: 180 Calendar Days

Compensation for Phase 1:

\$ 278,100.88

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-002: PBI Cargo Ramp Expansion

Completion Time: 195 Calendar Days

Compensation for Phase 1:

\$ 637,805.70

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023

Completion Time: NA

Compensation for Phase 1:

\$ 49,735.00

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services

Completion Time: 185 Calendar Days

Compensation for Phase 1:

\$ 46,272.40

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services

Completion Time: 180 Calendar Days

Compensation for Phase 1:

\$ 83,152.96

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-LNA-A-006 LNA Phases 3 and 4

Completion Time: 165 Calendar Days

Compensation for Phase 1:

\$ 633,327.84

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-007 PBI Wind Cone Relocation and Replacement (CM/CA/RPR)

Completion Time: 120 Calendar Days

Compensation for Phase 1:

\$ 48,194.00

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-008 PBI Repackage/Bid Garage Repairs

Completion Time: 105 Calendar Days

Compensation for Phase 1:

\$ 35,461.00

Deliverable(s) Required:

See Exhibit A for list of deliverables.

Task I-23-PBI-A-009 Landside Terminal Paging System Expansion

Completion Time: 135 Calendar Days

Compensation for Phase 1:

\$ 64,580.00

Deliverable(s) Required:

See Exhibit A for list of deliverables.

PHASE 3

Task(s) to be Completed:

III-23-DOA-A-001: Miscellaneous Architectural, Planning, Financial, Environmental, Engineering and Construction Services

Completion Time: TBD

Compensation for Phase 3:

\$250,000

Deliverable(s) Required: As required in accordance with specific Task Authorizations.

* "Deliverables" shall be defined as progress reports, prepared maps, bid documents, completed drawings, specific reports, work plans, documentation of meetings attended, assessment study reports, analysis reports, summary reports, recommendation reports and related draft reports and verifiable deliverables.

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B-1

2023 Hourly Billing Rates¹

The following is a summary of the 2023 hourly billing rates by labor category for each of the primary team members associated with the AECOM TECHNICAL SERVICES, Inc. Team. The following hourly billing rates are for used during Calendar Year 2023 and apply to the Palm Beach County Department of Airports General Consulting Services Contract. Overhead and profit is included in these billing rates for the CONSULTANT. The manhour salary costs by job title description may be increased at the COUNTY'S discretion.

SCHEDULE OF HOURLY LABOR BILLING RATES

CONSULTANT: AECOM TECHNICAL SERVICES, INC. (Prime)

| DESCRIPTION | HOURLY BILLING RATES |
|---|-----------------------------|
| Principal | \$ 340.00 |
| QC Reviewer | \$ 236.00 |
| Sr. Project Manager | \$ 270.00 |
| Project Manager/Senior Engineer | \$ 215.00 |
| Project Engineer | \$ 128.00 |
| Engineer | \$ 108.00 |
| Designer | \$ 108.00 |
| Design / Construction Manager | \$ 201.00 |
| Resident Project Representative / Inspector | \$ 98.00 |
| Senior Planner | \$ 255.00 |
| Planner | \$ 129.00 |
| Senior Structural Engineer | \$ 216.00 |
| Structural Engineer | \$ 149.00 |
| Pavement Specialist | \$ 221.0 |
| Clerical | \$ 96.00 |

CONSULTANT: BROWN & PHILLIPS, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|----------------------------|----------------------|
| Professional Land Surveyor | \$ 150.00 |
| Survey Technician | \$ 96.00 |
| CAD Technician | \$ 96.00 |
| Survey Crew (3 person) | \$ 207.00 |
| Survey Crew (2 person) | \$ 156.00 |
| Clerical | \$ 90.00 |
| Utility Targeting | \$2,000/Day |
| Test Holes | \$500/EA. |

CONSULTANT: CHANDLER CAMPBELLE & DASCHLE.

| DESCRIPTION | HOURLY BILLING RATES |
|-----------------|----------------------|
| Program Manager | \$ 150.00 |

CONSULTANT: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|------------------------------|----------------------|
| Principal/Project Manager | \$ 275.00 |
| Chief Scientist | \$ 168.32 |
| Sr. Environmental Specialist | \$ 168.32 |
| Sr. Environmental Scientist | \$ 148.51 |
| Environmental Scientist | \$ 138.59 |
| GIS Specialist | \$ 144.15 |
| Admin Assistant | \$ 102.96 |

CONSULTANT: CHEN MOORE AND ASSOCIATES

| DESCRIPTION | HOURLY BILLING RATES |
|--------------------------------|----------------------|
| President | \$ 460.00 |
| Principal | \$ 360.00 |
| Project Director | \$ 250.00 |
| Senior Engineer | \$ 200.00 |
| Project Engineer | \$ 150.00 |
| Associate Engineer | \$ 125.00 |
| Engineer | \$ 110.00 |
| Principal Landscape Architect | \$ 225.00 |
| Senior Landscape Architect | \$150.00 |
| Project Landscape Architect | \$ 125.00 |
| Associate Landscape Architect | \$ 110.00 |
| Landscape Designer | \$ 110.00 |
| Principal Planner | \$ 240.00 |
| Senior Planner | \$ 140.00 |
| Project Planner | \$ 100.00 |
| Associate Planner | \$ 90.00 |
| Senior Environmental Scientist | \$ 155.00 |
| Senior Designer | \$ 155.00 |
| Designer | \$ 115.00 |
| Senior Technician | \$ 105.00 |
| Technician | \$ 95.00 |
| Senior Construction Specialist | \$ 145.00 |
| Construction Specialist | \$ 100.00 |
| Administrative Staff | \$ 90.00 |
| Intern | \$ 65.00 |

CONSULTANT: HARRIS MILLER MILLER & HANSON, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|---------------------------|----------------------|
| Supervisory Consultant I | \$ 396.00 |
| Supervisory Consultant II | \$ 297.00 |
| Principal Consultant I | \$ 297.00 |
| Principal Consultant II | \$ 242.00 |
| Senior Consultant I | \$ 189.00 |
| Senior Consultant II | \$ 179.00 |
| Senior Consultant III | \$ 152.00 |
| Consultant I | \$ 130.00 |
| Consultant II | \$ 119.00 |
| Consultant III | \$ 111.00 |
| Senior Project Support | \$ 202.00 |
| Project Support I | \$ 135.00 |
| Project Support II | \$ 113.00 |

CONSULTANT: QUANTUM ELECTRICAL ENGINEERING, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|--|----------------------|
| Project Manager | \$ 170.00 |
| Professional Engineer | \$ 150.00 |
| Project Engineer | \$ 145.00 |
| CADD/Technician | \$ 85.00 |
| Clerical | \$ 50.00 |
| Field Engineer/Resident Project Representative | \$ 140.00 |

CONSULTANT: RICONDO & ASSOCIATES, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|-----------------------|----------------------|
| Senior Vice President | \$ 385.00 |
| Vice President | \$ 360.00 |
| Senior Director | \$ 340.00 |
| Director | \$ 315.00 |
| Managing Consultant | \$ 250.00 |
| Sr. Consultant | \$ 215.00 |
| Consultant | \$ 175.00 |
| Tech Specialist | \$ 170.00 |

CONSULTANT: SCALAR CONSULTING GROUP, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|-------------------------------------|----------------------|
| CEI Project Administrator/Inspector | \$ 233.64 |
| Designer | \$ 93.75 |
| Engineering Intern | \$ 94.89 |
| Project Engineer | \$ 199.05 |
| Senior Engineer | \$ 272.61 |

CONSULTANT: SIGHTLINE, INC.

| DESCRIPTION | HOURLY BILLING RATES |
|------------------------|----------------------|
| Project Principal | \$ 300.00 |
| Senior Project Manager | \$ 250.00 |
| Senior Technician | \$ 175.00 |

CONSULTANT: THOMAS GEOTECHNICAL SERVICES

| DESCRIPTION | HOURLY BILLING RATES |
|----------------------------------|----------------------|
| Principal Engineer | \$ 245.19 |
| Drafter/CADD | \$ 90.00 |
| Engineering Technician | \$ 72.00 |
| Sr. Engineering Technician | \$ 129.78 |
| Engineer | \$ 129.78 |
| Senior Geotechnical Engineer, PE | \$ 165.00 |
| Project Engineer | \$ 163.02 |

CONSULTANT: TIERRA SOUTH FLORIDA

| DESCRIPTION | HOURLY BILLING RATES |
|-------------------------|----------------------|
| Project Manager | \$253.06 |
| Principal Engineering | \$269.40 |
| Senior Engineer | \$175.00 |
| Project Engineer | \$166.53 |
| Asphalt Plant Inspector | \$101.88 |
| Asphalt Field Inspector | \$101.88 |
| Threshold Inspector | \$101.88 |
| Senior Technician | \$91.68 |
| Technician | \$67.92 |
| CADD | \$101.88 |

SOILS TESTS

| | | |
|--|------|----------|
| A. Compaction and Stabilization | | |
| 1. Moisture-Density Relationship | | |
| a. Standard or Modified Proctor on Soil (AASHTO T-99 or T-180, 4" Mold) | each | \$120.00 |
| b. Modified Proctor on Limerock (AASHTO T-180, 6" Mold) | each | \$150.00 |
| B. Nuclear Density Test -up to five (5) test per trip | trip | \$140.00 |
| 1. Additional Density tests (beyond 5 tests) each | each | \$28.00 |
| C. Sand Cone Density Test- up to three (3) tests per trip | trip | \$180.00 |
| 1. Additional Sand Cone Tests (beyond 3 tests) each | each | \$60.00 |
| D. Florida Bearing Value Test | each | \$75.00 |
| E. Limerock Bearing Ratio Test | each | \$350.00 |
| F. Atterberg Limit Test | each | \$90.00 |
| 1. Liquid Limit Tests (only) | each | \$55.00 |
| 2. Plastic Limit Tests (only) | each | \$35.00 |
| G. Carbonate Content Test | each | \$120.00 |
| H. Organic Content Test | each | \$50.00 |
| I. D.O.T. Corrosivity | each | \$210.00 |
| J. Soil Observation (on Site) | hour | \$65.00 |
| K. Natural Moisture Content | each | \$15.00 |
| L. Unit Weight and Moisture Content (Undisturbed Sample) | each | \$50.00 |
| M. Grain-Size Analysis - Full Gradation | test | \$65.00 |
| N. Grain-Size Analysis - Single Sieve | test | \$35.00 |
| O. Laboratory CBR + Sampling | test | \$500.00 |
| P. Grain-Size with Hydrometer | test | \$115.00 |

CONCRETE & MASONRY MATERIALS

| | | |
|---|------|----------|
| A. Concrete Compression Test (Min four (4) cylinders per set) | | |
| Prepare cylinders & slump test on site & deliver to lab | set | \$150.00 |
| B. Additional Concrete Cylinders | each | \$20.00 |
| C. Concrete Compression test only (deliver to lab) | each | \$20.00 |
| D. Slump Test | each | \$15.00 |
| E. Air Content Test | each | \$25.00 |
| F. Stand-by | hour | \$65.00 |
| G. Grout Prism (Four (4) per set) | | |
| Includes preparation of Prism on site | set | \$150.00 |

| | | | |
|----|--|------|----------|
| H. | 2· x 2" Mortar Cubes (Six (6) per set) | | |
| | Includes preparation of Cubes on site | set | \$150.00 |
| I. | Additional Mortar Cubes | each | \$20.00 |
| J. | Masonry Units | | |
| | 1. Compressive Strength | unit | \$120.00 |
| | 2. Absorption | unit | \$80.00 |
| K. | Concrete Cores (Min 3) | | |
| | 1. Secure, Trim & Test | core | \$90.00 |
| | 2. Testing of Core (deliver to lab (incl. trim)) | core | \$55.00 |
| L. | Swiss Hammer Testing | hour | \$65.00 |
| M. | Windsor Probe Test (Min 3 shots) | test | \$175.00 |
| N. | Additional Windsor Probe Tests | test | \$125.00 |

AGGREGATE TESTING

| | | | |
|----|---|------|----------|
| A. | Grain Size determination | test | \$115.00 |
| | 1. Full grain size (8 sieves) | | |
| | 2. Wash Through (#200) | test | \$115.00 |
| B. | Sieve Analysis - Coarse Aggregate | test | \$115.00 |
| C. | Specific Gravity & Absorption of Fine or Coarse Aggregate | test | \$115.00 |

ASPHALT TESTING

| | | | |
|----|---|------|----------|
| A. | Asphalt Plant Facility Inspection | day | \$990.00 |
| B. | Asphalt Cores (Obtaining core samples) | each | \$250.00 |
| C. | Asphalt Extraction & Gradation | test | \$160.00 |
| D. | Asphalt Density & Thickness | test | \$28.00 |
| E. | Marshall Stability (incl. density, flow & stability of 3 specimens)(SO blows) | test | \$175.00 |
| F. | Coring Machine plus Generator Rental | trip | \$450.00 |

FIELD EXPLORATIONS

| | | | |
|----|------------------------------------|------|-----------------|
| A. | Power Auger Borings | feet | \$13.00 |
| B. | Hand Augers | hour | \$140.00 |
| C. | Standard Penetration Tests - Truck | | |
| | 1. 0' - 50' | feet | \$15.00 (day) |
| | 0'-50' | feet | \$20.00 (night) |
| | 2. 51' -100' | feet | \$17.00 (day) |
| | 51' -100' | feet | \$23.00 (night) |
| D. | Grout Bore Holes | | |
| | 1. 0' - 50' | feet | \$7.00 (day) |
| | 0'-50' | feet | \$8.00 (night) |
| | 2. 51' -100' | feet | \$8.00 (day) |
| | 51'-100' | feet | \$9.50 (night) |

| | | |
|---|----------|-----------------|
| E. Casing | | |
| 1. 0' - 50' | feet | \$8.00 (day) |
| 0'-50' | feet | \$9.50 (night) |
| 2. 51' -100' | feet | \$10.00 (day) |
| 51' -100' | feet | \$11.50 (night) |
| F. Visual Examination/Stratify | hour | \$130.00 |
| G. Percolation Test | test | \$400.00 |
| H. Muck Probing (4 hour min) | hour | \$140.00 |
| I. Mobilization of drilling equipment to project (Min Charge) | Lump Sum | \$450.00 |
| J. Support Vehicle | day | \$150.00 |
| K. Double Ring Infiltration Test | test | \$850.00 |
| L. Field Permeability Test | test | \$350.00 |
| M. Field Permeability Test | test | \$450.00 |
| N. Field CBR (Kessler Method) | each | \$450.00 |

CONSULTANT: URBAN DESIGN STUDIO

| DESCRIPTION | HOURLY BILLING RATES |
|----------------------------|----------------------|
| Principal | \$ 193.00 |
| Project Manager | \$ 161.00 |
| Senior Landscape Architect | \$ 147.00 |
| Designer | \$ 112.00 |
| Senior Urban Planner | \$ 118.00 |
| Urban Planner | \$ 106.00 |
| CADD Technician | \$ 81.00 |
| Clerical | \$ 62.00 |

CONSULTANT: WGI, INC.

| DESCRIPTION | DAILY BILLING RATES |
|------------------------------------|---------------------|
| Survey (2-Man Field Party) (8 hr.) | \$ 1,431.39 |
| Survey (3-Man Field Party) (8 hr.) | \$ 1,921.50 |
| Survey (4-Man Field Party) (8 hr.) | \$ 2,411.61 |
| Survey (5-Man Field Party) (8 hr.) | \$ 3,016.90 |
| SUE (2-Man Field Party) (8 hr.) | \$ 1,419.68 |
| SUE (3-Man Field Party) (8 hr.) | \$ 2,114.01 |
| SUE (4-Man Field Party) (8 hr.) | \$ 2,808.33 |

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT B-II

Schedule of Payments

The scope of work to be completed by CONSULTANT as defined in Exhibit "A" consists of specific completion phases which shall be clearly identified on a phase-by-phase basis upon submission to the COUNTY of certain "deliverables"* as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following schedule of payments.

PHASE 1

- Tasks to be completed: All Level 1 and Level 2 tasks prescribed herein as Work Program #1.
- Completion Time: 7 Months from issuance of Notice to Proceed (NTP).
- Compensation for Phase 1: Total of \$1,876,629.78 (excludes Level 3 tasks) to be paid incrementally by the Palm Beach Department of Airports (DOA) on a monthly basis to reflect the actual level of effort performed to date.
- Deliverable(s) required: In addition to the final and interim deliverables prescribed in Exhibit A-1, monthly progress reports will be submitted by the CONSULTANT to the DOA.

- * "Deliverables" shall be defined as progress reports, prepared maps, bid documents, completed drawings, specific reports, work plans, documentation of meetings attended, assessment study reports, analysis reports, summary reports, recommendation reports and related draft reports and verifiable deliverables.

Table B-3

Schedule of Subsistence and Reimbursable Expenses

The following unit prices are used in the Contract for work beginning in Calendar Year 2019. Adjustments for subsequent years will be based on Federal rates at the current time of future written authorization.

| | |
|-------------------------------|--|
| Air Travel ^{1/} | At Coach/Economy Cost <i>Based on appropriate City-Pair</i> |
| Per Diem | \$95/Day <i>Based on a quarter period (6 hours), no receipts.</i> |
| OR: | |
| Hotel Lodging | Based on most economical accommodations for purposes of travel |
| Subsistence | \$40.00 per person per day <ul style="list-style-type: none"> ➤ Breakfast: \$7.00 ➤ Lunch: \$11.00 ➤ Dinner: \$22.00 <i>Based on 2014 Palm Beach County Policies and Procedures Manual Travel – PPM# CW-F-009</i> |
| Rental Car | Based on most economical vehicle for purposes of travel |
| Personal Auto | Based on IRS Standard Rate at time of travel <i>Based on 2014 Palm Beach County Policies and Procedures Manual Travel PPM# CW-F-009 (July 11, 2014)</i> |
| Overnight Delivery | At Cost |
| Outside Reprographic Services | At Cost |

1 Persons must specify the most economical method of travel. All travel must be by a usually traveled route. If a person travels by an indirect route for personal convenience, any extra cost(s) will be at the traveler's expense. Commercial air travel by the most economical class. Other carrier rates paid only if a statement is attached certifying that tourist or coach was not available at a reasonable flight time.

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT C – Proposed Schedules

EXHIBIT A-1-1 – Task I-23-PBI-A-001 PBI Taxiway R Rehabilitation

| Phase Description | Duration (Calendar Days) | Dates |
|---|--------------------------|-----------------|
| Notice to Proceed (K.O. Meeting) | 0 | July 11, 2023 |
| Completion of Bidding Process | 180 | January 7, 2023 |
| Total Duration from K.O. Meeting | 180 | |

EXHIBIT A-2-1 – Task I-23-PBI-A-002 PBI Cargo Ramp Expansion

| Phase Description | Duration (Calendar Days) | Dates |
|---|--------------------------|------------------|
| Notice to Proceed (K.O. Meeting) | 0 | July 11, 2023 |
| Completion of Bidding Process | 195 | January 22, 2024 |
| Total Duration from K.O. Meeting | 195 | |

EXHIBIT A-3-1 – Task I-23-DOA-A-003: Miscellaneous Planning & Engineering Services 2023

| Phase Description | Duration (Calendar Days) | Dates |
|--------------------------------|--------------------------|---------------|
| Notice to Proceed | 0 | July 11, 2023 |
| Miscellaneous Services | NA | |
| Total Duration from NTP | TBD | TBD |

EXHIBIT A-4-1 – Task I-23-PBI-A-004 PBI Roof Replacement Resident Inspection Services

| Phase Description | Duration (Calendar Days) | Dates |
|--------------------------------|--------------------------|------------------|
| Notice to Proceed | 0 | July 11, 2023 |
| Construction Completion | 185 | January 12, 2024 |
| Total Duration from NTP | 185 | |

EXHIBIT A-5-1 – Task I-23-PBI-A-005 PBI Garage Repairs Threshold Inspection Services

| Phase Description | Duration (Calendar Days) | Dates |
|--------------------------------|--------------------------|-----------------|
| Notice to Proceed | 0 | July 11, 2023 |
| Construction Completion | 180 | January 7, 2024 |
| Total Duration from NTP | 180 | |

EXHIBIT A-6-1 – Task I-23-LNA-A-006 LNA Phases 3 and 4

| Phase Description | Duration (Calendar Days) | Dates |
|-----------------------------------|--------------------------|-------------------|
| Notice to Proceed | 0 | July 11, 2023 |
| Completion of Bidding Process | 165 | December 23, 2024 |
| Total Duration from N.T.P. | 165 | |

EXHIBIT A-7-1 – Task I-23-PBI-A-007 PBI Wind Cone Relocation and Replacement (CM/CA/RPR)

| Phase Description | Duration (Calendar Days) | Dates |
|--|--------------------------|---------------|
| Construction Notice to Proceed | 0 | July 11, 2023 |
| Completion of Construction | 120 | TBD |
| Total Duration from Construction N.T.P. | 120 | |

EXHIBIT A-8-1 – Task I-23-PBI-A-008 PBI Repackage/Bid Garage Repairs

| Phase Description | Duration (Calendar Days) | Dates |
|-----------------------------------|--------------------------|------------------|
| Notice to Proceed | 0 | July 11, 2023 |
| Completion of Bidding Process | 105 | October 24, 2023 |
| Total Duration from N.T.P. | 105 | |

EXHIBIT A-9-1 – Task I-23-PBI-A-009 PBI Landside Terminal Paging System Expansion

| Phase Description | Duration (Calendar Days) | Dates |
|---|--------------------------|-------------------|
| Notice to Proceed (K.O. Meeting) | 0 | July 11, 2023 |
| Completion of Bidding Process | 135 | November 23, 2023 |
| Total Duration from K.O. Meeting | 135 | |

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT D

Disadvantaged Business Enterprise Compliance

Table D-1 summarizes the estimated fees for each of our team members that are a certified DBE firm, demonstrating that we will exceed the DBE goal of 22.0 percent during Work Program #1.

**SCHEDULE 1(A)
LIST OF PROPOSED DBE FIRMS
(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting Change Order/Task/Amendment No. (if applicable): Original Contract
 Name of Respondent: AECOM Technical Services, Inc. E-mail Address: Andy.Kacer@aecom.com
 Contact Person: Andrew Kacer Address: 7650 West Courtney Campbell Causeway Tampa, FL 33607
 Phone No.: (O) 813.636.2425 (C) 352.634.4363 Fax No.: 813.287.8591

| Name, Address & Phone No. of DBE Firm | Description of Type of Work | Classification (Check applicable box) | Dollar Amount | | | |
|--|-----------------------------------|--|---------------|----------|---------|------------------------|
| | | | Black | Hispanic | Women | Other (Please Specify) |
| Brown & Phillips, Inc. 1860 Old Okeechobee Road Suite 509 West Palm Beach, Florida 33409 (561)-615-3988 | Survey Services | <input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> X Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer | 5.00% | _____ % | _____ % | _____ % |
| Quantum Electrical Engineering, Inc. 2755 Vista Parkway, Suite I-9 West Palm Beach, FL 33411 (561) 210-9224 | Electrical Engineering | <input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> X Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer | _____ % | _____ % | 8.85% | _____ % |
| Tierra South Florida, Inc. 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 561.687.8536 | Geotechnical and Material Testing | <input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> X Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer | _____ % | _____ % | _____ % | 9.23% Asian Pacific |
| | | <input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer | _____ % | _____ % | _____ % | _____ % |

Total Percentage of DBE Participation: 23.08%

Notes:

- The percentages listed on this form for each DBE Firm must be supported by the percentages included on Schedule 2(A), "Letter of Intent to Perform as a Disadvantaged Business Enterprise", in order to be counted toward attainment of the DBE goal.
- Firms identified on this form must be certified as a DBE by the State of Florida's Unified Certification Program. Certification status can be verified on the Florida Department of Transportation's Biznet website at <https://www3.dot.state.fl.us/EqualOpportunityOffice/biznet/mainmenu.asp>.
- If materials or supplies are proposed to be purchased from a DBE regular dealer, the undersigned acknowledges that only sixty percent (60%) of the proposed expenditure will be counted toward attainment of the DBE goal.

By signing this form the undersigned Respondent is committing to utilize the above referenced DBE Firms on the Project and that the Respondent will monitor the DBE Firms to ensure that the work is actually performed by the by the DBE Firms.

By:  **Andrew Kacer**
 Digitally signed by Andrew Kacer
 DN: c=U.S.,
 E=andy.kacer@aecom.com,
 O=AECOM, CN=Andrew Kacer
 Date: 2023.06.12.16:16:42:04'00'

Date: 6-6-2023

Signature
 Print Name/Title of Person Executing on Behalf of the Respondent
Andrew Kacer Vice President



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

January 11, 2013

ANTHONY BROWN
BROWN & PHILLIPS INC
1860 OLD OKEECHOBEE RD SUITE 509
WEST PALM BEACH FL 334095253

ANNIVERSARY DATE - Annually on October 28

Dear Mr. Brown:

The Florida Department of Transportation (FDOT) is pleased to announce that your firm has been certified under Florida's Unified Certification Program (UCP) as a Disadvantaged Business Enterprise (DBE) in accordance with 49 Code of Federal Regulation Part 26.

DBE Certification is continuing, but it is contingent upon the firm maintaining its eligibility annually through this office. You will be notified of your annual responsibilities in advance of the Anniversary Date. You must submit the annual AFFIDAVIT FOR CONTINUING ELIGIBILITY no later than the Anniversary Date.

Only firms listed in the UCP DBE Directory are certified by Florida UCP Members. Prime contractors and consultants should verify your firm's DBE certification status, and identify the work area(s) for which the firm is DBE eligible, through this Directory.

Your firm will be listed in Florida's UCP DBE Directory which can be accessed through the Department's website: www.dot.state.fl.us/equalopportunityoffice and then selecting "DBE Directory".

DBE certification is NOT a guarantee of work. It allows your firm to compete for and perform contract work on ALL USDOT Federal Aid (FAA, FTA, and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If, at any time there is a material change you must advise this office, by sworn affidavit and supporting documents, within thirty (30) days. Changes include, but are not limited to, ownership, officers, directors, management, key personnel, scope of work performed, daily operations, ongoing business relationships with other firms or individuals, or the physical location of your firm. After our review, you will receive instructions as to how you should proceed, if necessary. Failure to do so will

www.dot.state.fl.us



be deemed a failure, on your part, to cooperate, and will result in immediate action to remove DBE certification.

Your firm is eligible to compete for and perform work on all USDOT Federal Aid projects throughout Florida and may earn DBE credit for work performed in the following areas:

NAICS
54133 -Engineering Services
54137 -Surveying and Mapping (except Geophysical) Services

FDOT Specialty Codes
946 -Land Surveying And Mapping Services

Questions and concerns should be directed to this office by mail or telephone. Our telephone number is (850) 414-4747. Our fax number is (850) 414-4879.

Sincerely,


Victoria Smith
DBE Certification Manager



**OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT
Governmental Center Annex**

115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400

February 23, 2022

**Mr. Darrell B. Searcy
CHANDLER & CAMPBELLE INVESTMENT GROUP, LLC
DBA CHANDLER CAMPBELLE & DASCHLE
310 Vizcaya Drive
Palm Beach Gardens, Florida 33418**

ANNIVERSARY DATE – Annually, on March 6th

Dear Mr. Searcy:

Broward County is pleased to announce that **Chandler & Campbelle Investment Group, LLC** has renewed its certification as an **Airport Concessions Disadvantaged Business Enterprise (ACDBE)** and **Disadvantaged Business Enterprise [DBE]** in Florida, under a **Unified Certification Program [UCP]** in accordance with 49 CFR, PARTS 23 and 26.

ACDBE/DBE certification continues from your anniversary date, but is contingent upon Chandler & Campbelle Investment Group, LLC renewing its eligibility annually through this office, Office of Economic and Small Business Development (OESBD). OESBD will notify you in advance of your obligation to provide continuing eligibility documents; however, assuring continued certification is your responsibility. Failure to continue your eligibility will result in immediate action to remove Chandler & Campbelle Investment Group, LLC as an ACDBE/DBE.

As long as Chandler & Campbelle Investment Group, LLC is listed in the DBE Directory, it is considered ACDBE/DBE Certified by all Florida UCP Members.

ACDBE/DBE Certification is subject to actions by governmental agencies impacting the disadvantaged status of Chandler & Campbelle Investment Group, LLC.

Chandler & Campbelle Investment Group, LLC will be listed in Florida's **UCP DBE Directory** which can be accessed via the internet, at:

<https://fdotxwp02.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/CustomSearch>

ACDBE/DBE certification is **NOT** a guarantee of work, but enables Chandler & Campbelle Investment Group, LLC to compete for, and perform, contract work on all USDOT Federal Aid

Broward County Board of County Commissioners
Torey Alston • Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Jared E. Moskowitz • Nan H. Rich • Tim Ryan • Michael Udine
www.broward.org

Re: Chandler & Campbell Investment Group, LLC

February 23, 2022

(FAA, FTA and FHWA) projects in Florida as an ACDBE/DBE contractor, sub-contractor, consultant, and sub-consultant or material supplier.

If, at any time, there is a material change in Chandler & Campbell Investment Group, LLC, including, but not limited to, ownership, officers, directors, scope of work being performed, daily operations, affiliations with other businesses or individuals or physical location of Chandler & Campbell Investment Group, LLC, you must notify OESBD, in writing, without delay. Notification should include supporting documentation. You will receive acknowledgement and confirmation of continued eligibility, if applicable after notification of changes.

Chandler & Campbell Investment Group, LLC may compete for, and perform, work on all USDOT Federal Aid projects throughout Florida, receiving DBE credit for work performed in the following areas:

DBE/ACDBE

NAICS CODE: 541611 Administrative Mgmt. and General Mgmt. Consulting Services
NAICS CODE: 611430 Professional & Management Development Training
NAICS CODE: 541690 Other Scientific & Technical Consulting Services
NAICS CODE: 541820 Public Relations Agency
NAICS CODE: 541890 Other Services Related to Advertising
NAICS CODE: 541613 Marketing Consulting Services
NAICS CODE: 541512 Computer Systems Design Services
NAICS CODE: 541513 Computer Facilities Management Services
NAICS CODE: 541618 Other Management Consulting Services
NAICS CODE: 561210 Facilities Support Services
NAICS CODE: 561320 Temporary Help Services
NAICS CODE: 561110 Office Administrative Services
NAICS CODE: 561720 Janitorial Services
NAICS CODE: 722511 Full-Service Restaurants
NAICS CODE: 722513 Limited-Service Restaurants

DBE

NAICS CODE: 423490 Professional Equipment & Supplies Merchant Wholesalers
NAICS CODE: 423610 Transformers (except electronics) Merchant Wholesalers
NAICS CODE: 423690 Other Electronic Parts & Equipment Merchant Wholesalers

Please feel free to contact OESBD for any questions or concerns pertaining to your ACDBE/DBE certification. Our telephone number is (954) 357-6400; our fax number is (954) 357-5674.

Sincerely,

SANDY-MICHAEL
 MCDONALD

Digitally signed by SANDY-
 MICHAEL MCDONALD
 Date: 2022.03.02 16:03:57
 -0500

Sandy-Michael McDonald, Director
 Office of Economic and Small Business Development

12/12/22, 5:05 PM

WebFOCUS Report

Florida UCP DBE Directory

Number of Vendors Returned: 1

Selection Criteria:

Vendor : HARRIS MILLER MILLER & HANSON INC., DBA HMMH

Vendor Name: [HARRIS MILLER MILLER & HANSON INC., DBA HMMH](#)
DBE: CERTIFIED **MBE:** Certification: **ACDBE Status:** N **Statewide Availability:** Y
DBA: **Former Name:**
Business Description: ENVIRONMENTAL AND CAPACITY PLANNING INCLUDING NOISE VIBRATION CONTROL, PROGRAM MANAGEMENT, AIR QUALITY ANALYSIS, AIRPORT AND AIRSPACE PLANNING AND CLIMATE AND ENERGY SOLUTIONS.
Mailing Address: 700 DISTRICT AVENUE
 BURLINGTON MA 01803
Contact Name: DIANA WASIUK **Phone:** (781) 229-0707 **Fax:** (781) 299-7939
Email: MEAGAN@HMMH.COM **Web Site:** [HTTP://WWW.HMMH.COM](http://www.hmmh.com)

Certified NAICS

- 541611 Administrative Management and General Management Consulting Services
- 541620 Environmental Consulting Services
- 541690 Other Scientific and Technical Consulting Services
- 541715 Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)
- 541990 All Other Professional, Scientific, and Technical Services



Florida Unified Certification Program

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

CERTIFICATE OF ELIGIBILITY

QUANTUM ELECTRICAL ENGINEERING INC

MEETS THE REQUIREMENTS OF 49 CFR, PART 26

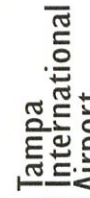
APPROVED NAICS CODES:

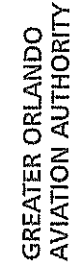
541330, 541490

Samuel Febres (Sammy)

DBE & Small Business Development Manager

Florida Department of Transportation





Florida United Certification Program

Disadvantaged Business Enterprise (DBE) Certificate of Eligibility

Sightline, Inc.

MEETS THE REQUIREMENTS OF 49 CFR, PART 26

APPROVED NAICS CODES:

237310 - 541614

Note: There may be other Approved NAICS Codes. The online DBE Directory includes a complete list of Approved Codes.

By: **George I. Morning, GOAA - Small Business Development**



ANNIVERSARY DATE - July 4, 2021

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

EXHIBIT E

Additional Contract Requirements for State and Federally Funded Projects

The following terms and conditions are applicable to all contracts funded in whole or part by State or Federal funds including, but not limited to, AIP funds and Public Transportation Agreements.

Access to Records and Reports (FAA A1.3)

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

Breach of Contract Terms (FAA A3.3)

Any violation or breach of terms of this Contract on the part of the Consultant or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this Contract. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

Title VI List of Pertinent Nondiscrimination Acts and Authorities (FAA A6.4.5)

During the performance of this Contract, the Consultant, for itself, its assignees, and successors in interest agrees to comply with the following non-discrimination statutes and authorities ("Acts and Regulations"), including, but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 USC § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination in Federally-assisted programs of the Department of Transportation—Effectuation of Title VI of the Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 USC § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973 (29 USC § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended (42 USC § 6101 *et seq.*) (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982 (49 USC § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms

“programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);

- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 USC §§ 12131 – 12189) as implemented by U.S. Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Nondiscrimination statute (49 USC § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100); and
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 USC 1681 et seq).

Clean Air and Water Pollution Control (FAA A7.3)

Consultant agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 USC § 740-7671q) and the Federal Water Pollution Control Act as amended (33 USC § 1251-1387). The Consultant agrees to report any violation to the County immediately upon discovery. The County assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration. Consultant must include this requirement in all subcontracts that exceeds \$150,000.

Contract Work Hours and Safety Standards Act (FAA A8.3)

(1) Overtime Requirements.

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

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

In the event of any violation of the clause set forth in paragraph (1) of this clause, the Consultant and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this clause, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in

excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this clause.

(3) Withholding for Unpaid Wages and Liquidated Damages.

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

(4) Subcontractors.

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

Certification Regarding Debarment and Suspension (FAA A11.3.1/A11.3.2)

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

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

- a. Checking the System for Award Management at website: <http://www.sam.gov>.
- b. Collecting a certification statement similar to the Certification of Offerer /Bidder Regarding Debarment, above.
- c. Inserting a clause or condition in the covered transaction with the lower tier contract.

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

Texting When Driving (FAA A13.3)

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

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

Energy Conservation Requirements (FAA A14.3)

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

Equal Employment Opportunity (FAA A16.3.1)

During the performance of this Contract, the Consultant agrees as follows:

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

Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

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

Fair Labor Standards Act (FAA A17.3)

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

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

Lobbying and Influencing Federal Employees (FAA A18.3)

Consultant certifies, to the best of its knowledge and belief:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Consultant, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

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

Occupational Safety and Health Act of 1970 (FAA A20.2)

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

Procurement of Recovered Materials (FAA A21.3)

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

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

The list of EPA-designated items is available at www.epa.gov/smm/comprehensive-procurement-guidelines-construction-products.

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

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

Rights to Inventions (FAA A22.3)

Contracts or agreements that include the performance of experimental, developmental, or research work must provide for the rights of the Federal Government and the County in any resulting invention as established by 37 CFR part 401, Rights to Inventions Made by Non-profit Organizations and Small Business Firms under Government Grants, Contracts, and Cooperative Agreements. This contract incorporates by reference the patent and inventions rights as specified within 37 CFR §401.14.

Consultant must include this requirement in all sub-tier contracts involving experimental, developmental, or research work.

Seismic Safety (FAA A23.3.1)

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

Certification Regarding Tax Delinquency and Felony Convictions (FAA A24.3)

The Consultant must complete the following two certification statements. The applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response. The Consultant that it will incorporate this provision for certification in all lower tier subcontracts.

Certifications

- 3) The Consultant represents that it is () is not (✓) a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- 4) The Consultant represents that it is () is not (✓) is not a corporation that was convicted of a criminal violation under any Federal law within the preceding 24 months.

Note

If Consultant responds in the affirmative to either of the above representations, the Consultant is ineligible to receive an award unless the County has received notification from the agency suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government’s interests. The Consultant therefore must provide information to the County about its tax liability or conviction to the County, who will then notify the FAA Airports District Office, which will then notify the agency’s SDO to facilitate completion of the required considerations before award decisions are made.

Term Definitions

Felony conviction: Felony conviction means a conviction within the preceding twenty-four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not

being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

Termination for Convenience/Default (FAA A25.3.1/A25.3.2)

See Article 5 – Termination of this Contract.

Trade Restriction Clause (FAA A26.3)

The Consultant certifies that with respect to this solicitation and any resultant contract, the Consultant

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

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

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

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

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

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

The Consultant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Consultant may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country

included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Consultant has knowledge that the certification is erroneous.

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

Veteran's Preference (FAA A27.3)

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

Consultant Affirmative Steps for Subcontracting (2 CFR 200.321(b)(6))

The Consultant must take the following affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used as subcontractors when possible:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirements permit, which encourage participation by small and minority businesses, and women's business enterprises; and
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

Compliance with Laws, Rules, and Regulations, Guidelines and Standards (FDOT PTGA S.11.f)

The Consultant shall comply and require its contractors and subcontractors to comply with all terms and conditions of this Contract and all federal, state, and local laws and regulations applicable to this Contract.

Approval of Third Party Contracts (FDOT PTGA S.12.a)

The County specifically reserves the right to review and approve any and all third party contracts before the County executes or obligates itself in any manner requiring the disbursement of funds, including consultant and purchase of commodities contracts, or amendments thereto. If the County chooses to review and approve third party contracts under this Contract, and the Consultant fails to obtain such approval, that shall be sufficient cause for nonpayment by the County. The County specifically reserves

unto itself the right to review the qualifications of any consultant or contractor and to approve or disapprove the employment of the same.

Convicted Vendor List (FDOT PTGA S.17.a)

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity; may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, as may be amended, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

Discriminatory Vendor List (FDOT PTGA S.17.b)

In accordance with Section 287.134, Florida Statutes, as may be amended, an entity or affiliate who has been placed on the Discriminatory Vendor List, kept by the Florida Department of Management Services, may not submit a bid on a contract to provide goods or services to a public entity; may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.

Non-Responsible Contractors (FDOT PTGA S.17.c)

An entity or affiliate who has had its Certificate of Qualification suspended, revoked, denied, or have further been determined by the Department to be a non-responsible contractor, may not submit a bid or perform work for the construction or repair of a public building or public work on a contract with the County.

Prohibition on Using Funds for Lobbying (FDOT PTGA S.17.d)

No funds received pursuant to this Contract may be expended for lobbying the Florida Legislature, judicial branch, or any state agency, in accordance with Section 216.347, Florida Statutes.

Unauthorized Aliens. (FDOT PTGA S.17.g)

The Florida Department of Transportation shall consider the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If the Consultant knowingly employs unauthorized aliens, such violation will be cause for unilateral cancellation of this Contract.

Indemnification (FDOT PTGA S.18)

To the fullest extent permitted by law, the Consultant shall indemnify and hold harmless the County and the State of Florida, Department of Transportation, including the Department's officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the Consultant and persons employed or utilized by the Consultant in the performance of this Contract. This indemnification

shall survive the termination of this Agreement. Nothing contained in this paragraph is intended to nor shall it constitute a waiver of the State of Florida and the County's sovereign immunity.

Inspector General Cooperation. (FDOT PTGA S.19.i)

The Consultant agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with Section 20.055(5), Florida Statutes.

Attachment No. 2

Project Name: General Engineering Consultant Services
 PBC Project No: DOA 22-13
 DBE Goal: 20.9%

| Proposer | DBE Subcontractors | Prime | Subcontractor | Supplier | Subcontractor Type | Location | DBE % | Exclusions | Classification | Remarks | FDOT/UCP Verified | |
|--|--|-------|---------------|----------|--|------------------------|-------|---------------|----------------|---------|-------------------|--|
| AECOM Technical Services, Inc. 2090 Palm Beach Lakes Blvd., Suite 600, West Palm Beach, FL 33409 | Brown & Phillips, Inc. | | x | | Topographic Survey | West Palm Beach, FL | 2.00% | | BM | | x | |
| | Chandler Campbell & Dasche | | x | | DBE Support Services | Palm Beach Gardens, FL | 1.00% | | BM | | x | |
| | Cyracks Environmental Consulting Services | | x | | Environmental Planning Design, etc | Deerfield Beach, FL | 3.50% | | W | | x | |
| | Harris Miller Miller and Hanson, Inc. (HMMH) | | x | | Noise Consulting and Sustainability | Burlington, MA | 1.00% | | W | | x | |
| | Quantum Electrical Engineering | | x | | Electrical Engineering | West Palm Beach, FL | 8.00% | | W | | x | |
| | Sigilline, Inc. | | x | | Airfield Markings | Culpeper, VA | 0.50% | | W | | x | |
| | Tierra South Florida, Inc. | | x | | Geotech Engineering and Material Testing | West Palm Beach, FL | 2.00% | | Asian Pacific | | x | |
| | Scalar Consulting Group Inc | | x | | Roadway Design & Construction | West Palm Beach, FL | 4.00% | | Asian Pacific | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | 22.00% | | | | |

Schedule 3 (A) - AECOM Technical Services, Inc. has committed to meet a minimum of 22% DBE participation.

23-0750

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
BUDGET TRANSFER

Advantage Document Numbers

BGRV:

BGEX: 121-061423*1444

FUND 4111 Airport Improvement & Development Fund

| ACCT. NUMBER | ACCOUNT NAME | ORIGINAL BUDGET | CURRENT BUDGET | INCREASE | DECREASE | ADJUSTED BUDGET | EXPENDED/ ENCUMBERED As of 06/14/23 | REMAINING BALANCE |
|-------------------------------------|------------------------------|-----------------|----------------|----------|----------|-----------------|-------------------------------------|-------------------|
| <u>REVENUES/EXPENDITURES</u> | | | | | | | | |
| 121-A107-6505 | Design/Eng/Mgmt - CIP Adm | 5,542,869 | 9,685,247 | 626,029 | 0 | 10,311,276 | 9,660,848 | 650,428 |
| 121-A410-6504 | lotb Non Infrastructure | 4,584,594 | 626,007 | 46,273 | 0 | 672,280 | 604,397 | 67,883 |
| 121-A455-6504 | lotb Non Infrastructure | 0 | 2,684,458 | 118,614 | 0 | 2,803,072 | 2,684,458 | 118,614 |
| 121-A900-9909 | Reserves Improvement Program | 30,976,327 | 14,874,241 | 0 | 790,916 | 14,083,325 | 0 | 14,083,325 |

Total Receipts and Balances

187,285,160 203,886,956 790,916 790,916 203,886,956

Signatures & Dates

Office of Financial Management & Budget
INITIATING DEPARTMENT/DIVISION

Lenore / Paul 6/14/23

Administration/Budget Department Approval

ADDIE 6/20/23

OFMB Department - Posted

By Board of County Commissioners

At Meeting of

Tuesday, July 11, 2023

Deputy Clerk to the

Board of County Commissioners



6B4.6