

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

Meeting Date: August 17, 2021

Consent       Regular  
 Workshop       Public Hearing

Submitted By: Department of Airports

I. EXECUTIVE BRIEF

**Motion and Title:** Staff recommends motion to approve: Amendment No. 6 to the General Consulting Agreement with AECOM Technical Services, Inc. (AECOM) for Consulting/ Professional Services in the amount of \$1,583,691.58 for the continued performance of professional planning and design services related to the approved Palm Beach County Airports Capital Improvement Program.

**Summary:** The Consulting Agreement with AECOM for general airport planning and design was approved by the Board on March 12, 2019 (R-2019-0301) in the amount of \$828,984.74 in order to carry out the approved Capital Improvement Programs for the County's Airports. Amendment No. 1 was approved by the Board on August 20, 2019 (R-2019-1160) increasing the amount of the contract by \$1,032,651.29. Amendment No. 2 was approved by the Board on February 4, 2020 (R-2020-0079) increasing the amount of the contract by \$1,753,356.78. Amendment No. 3 was approved by the Board on June 16, 2020 (R-2020-0639) increasing the amount of the contract by \$885,789.10. Amendment No. 4 was approved by the Board on October 6, 2020 (R-2020-1514) increasing the amount of the contract by \$1,789,325.00 and modified Article 21, Access and Audits, of the agreement. Amendment No. 5 was approved on February 9, 2021 (R-2021-0233) exercising the first one (1) year renewal option. Approval of Amendment No. 6 will provide an additional \$1,583,691.58 to complete the following tasks: Task I Services – Palm Beach International Airport (PBI) Green Street Improvements, Department of Airports Miscellaneous Planning & Engineering Services, PBI Wallis Road Phase 2 Construction Services, PBI Replacement of Current Public Address System CA/CM Services, PBI Wind Cone Relocation and Replacement Project, PBI Repairs to Short-Term and Long-Term Parking Garages, Update Stormwater Pollution Prevention Plan (SWPPP), PBI Stormwater Master Plan (Intermediate Forecast), Department of Airports Disadvantaged Business Enterprise (DBE) Program Outreach Services, PBI Noise Report, PBI Terminal Structure Assessment/Repair Plans, PBI James L Turnage Blvd. Bridge Repairs, and Task III Services - Miscellaneous Planning and Engineering Services. Work to be completed under these Task III Services will be issued in accordance with PPM CW-F-050, by way of a separate proposal or task authorization. AECOM is a Los Angeles, California based firm; however, the majority of the work to be completed in this agreement will be completed and/or managed through their West Palm Beach and Tampa, Florida offices in conjunction with several Palm Beach County-based sub-consultants and firms. A Disadvantaged Business Enterprise (DBE) goal of 18% was set for this contract. AECOM committed to 18% in its proposal. The anticipated DBE participation based upon the approved tasks is approximately 33.96%. The current paid to date DBE participation is approximately 18.57%. The DBE participation for this Amendment is approximately 19.34%. Pursuant to changes to Chapter 332, Florida Statutes, effective October 1, 2020, a governing body of a commercial service airport may not approve purchases of contractual services in excess of the Category Five threshold amount of \$325,000 provided in Section 287.017, Florida Statutes, on a consent agenda. This amendment exceeds the threshold amount and must be approved on the regular agenda. Countywide (AH)

**Background and Policy Issues:** In order to carry out the approved Capital Improvement Program for the County, the Department of Airports requires professional planning and design engineering services. This agreement is for 2 years with 2 one (1) year renewal options. This amendment allows for the continuation of services necessary for the development and operation of the County's airport system.

**Attachments:**

1. Amendment No. 6 with AECOM Technical Services, Inc. – 3 Originals
2. DBE Goal Information

Recommended By: David Laura Bube      7-22-21  
Department Director      Date

Approved By: \_\_\_\_\_  
County Administrator      Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	\$1,583,691.58				
Operating Costs					
External Revenues (Grants)					
Program Income (County)					
In-Kind Match (County)					
NET FISCAL IMPACT	\$1,583,691.58				

# ADDITIONAL FTE POSITIONS (Cumulative) \_\_\_\_\_

Is Item Included in Current Budget? Yes X No \_\_\_\_\_  
 Does this item include the use of federal funds? Yes \_\_\_\_\_ No X

*JA*

Budget Account No: Fund	4111	Department	121	Unit	A107-99	Object	6505	\$1,336,564
					A187-315		6101	\$ 45,640
Reporting Category					A333-354		6504	\$ 63,896
					A369-380		6504	\$ 34,514
					A389-442		6504	\$ 103,078

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

Approval of this item provides budget for Amendment No. 6 to the AECOM contract in the amount of \$1,583,691.58. Funding sources consist of Local Airport revenues of \$1,461,796 and Passenger Facility Charge revenues of \$121,896; which are both currently in the budget.

C. Departmental Fiscal Review: *Daniel D. [Signature]*

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

\_\_\_\_\_  
 OFMB Contract Dev. and Control

**B. Legal Sufficiency:**

\_\_\_\_\_  
 Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director



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

## SECRETARY'S CERTIFICATE

### AECOM TECHNICAL SERVICES, INC. a California corporation

I, Charles F. Szurgot, DO HEREBY CERTIFY that I am the 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 ATS's full legal address is c/o CT Corporation System, 818 West 7<sup>th</sup> Street, Los Angeles, CA 90017-0000 and that the Corporation's principal place of business is 300 South Grand Avenue, 9<sup>th</sup> Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on October 8, 2018, 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 18<sup>th</sup> day of January, 2019.

Charles F. Szurgot  
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 previous elections of Signatories and Supplemental Signatories of the Corporation dated August 23, 2018, be superseded in its entirety; and


**RESOLVED:** That, in addition to all Senior Vice Presidents and above as set forth in Article IX, Section 16 of the Restated By-Laws as amended, 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:

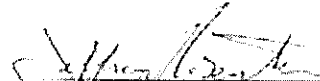
Effective October 8, 2018:

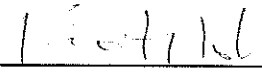
<b>Last Name</b>	<b>First Name</b>	<b>Region</b>	<b>Area/Market Sector</b>	<b>Business Line</b>
Kacer	Andrew	Southeast	Greater Florida	Transportation



IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands this 8<sup>th</sup> day of October, 2018.

  
\_\_\_\_\_  
David Gan

  
\_\_\_\_\_  
Jeffrey P. Rosenstein

  
\_\_\_\_\_  
Timothy Keener

**AMENDMENT NO. 6 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
AECOM TECHNICAL SERVICES, INC.  
FOR  
GENERAL CONSULTING SERVICES  
AT  
PALM BEACH COUNTY AIRPORTS**

This Amendment No. 6 to the Contract is made as of the \_\_\_\_\_ day of \_\_\_\_\_, 2021, by and between Palm Beach County, Florida (COUNTY) and AECOM TECHNICAL SERVICES, INC., a corporation authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, whose Federal Tax I.D. number is 95-2661922.

**WITNESSETH**

WHEREAS, on March 12, 2019, the County entered into an Agreement (R2019-0301) with the CONSULTANT for the CONSULTANT to provide General Airport Consulting Services for the Palm Beach County Department of Airports, for a period of two (2) years, with two (2) one (1)-year renewal options, the exercise of which are within COUNTY'S sole control and discretion; and

WHEREAS, on August 20, 2019, the County entered into an Amendment No. 1 (R2019-1160) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on February 10, 2020, the County entered into an Amendment No. 2 (R2020-0079) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on June 16, 2020, the County entered into an Amendment No. 3 (R2020-0639) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on October 6, 2020, the County entered into an Amendment No. 4 (R2020-1514) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on February 9, 2021, the COUNTY entered into an Amendment No. 5 (R2021-0233) with the CONSULTANT to exercise the first one (1) year renewal option for the continuation of services and to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, Article 25 of the Contract requires an amendment when the parties are able to define additional services and the parties have now defined those services;

NOW THEREFORE, in consideration of the mutual covenants herein contained, and such other good and valuable consideration, the receipt of which the parties hereby acknowledge, the parties agree to the following terms and conditions:

1. The parties hereby agree to amend the Contract to include the Scope of Services and Fees as outlined in Exhibit A. The total amount to be paid by the COUNTY to the CONSULTANT for professional services, including any out of pocket expenses, shall not exceed One Million Five Hundred and Eighty Three Thousand Six Hundred and Ninety One Dollars and Fifty Eight Cents (**\$1,583,691.58**) for the services in Amendment No. 6 to the original Contract.
2. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

{Remainder of page intentionally left blank.}

IN WITNESS WHEREOF, the parties have caused the Sixth Amendment to the Contract to be signed by the Mayor of the Board of County Commissioners and the Seal of said Board to be fixed hereto and attested by the Clerk of said board, and the CONSULTANT, AECOM TECHNICAL SERVICES, INC., has caused these presents to be signed in its corporate name by its duly authorized officer Andrew Kacer, Vice President, acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:

**PALM BEACH COUNTY, FLORIDA  
BOARD OF COUNTY COMMISSIONERS**

**JOSEPH ABRUZZO  
CLERK OF THE CIRCUIT COURT  
& COMPTROLLER**

**DAVE KERNER  
MAYOR**

By: \_\_\_\_\_  
Deputy Clerk

By: \_\_\_\_\_  
Dave Kerner, Mayor

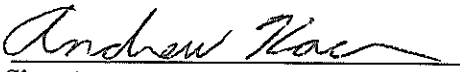
WITNESS:

CONSULTANT:

  
\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
AECOM Technical Services, Inc.  
COMPANY NAME

Clint Martin  
\_\_\_\_\_  
Name (type or print)

  
\_\_\_\_\_  
Signature

Andrew Kacer  
\_\_\_\_\_  
Name (type or print)

Vice President  
\_\_\_\_\_  
Title

**APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY**

BY: \_\_\_\_\_  
County Attorney

**APPROVED AS TO TERMS  
AND CONDITIONS**

By:   
\_\_\_\_\_  
Department Director

## AMENDMENT NO. 6 INDEX

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### CERTIFICATE OF INSURANCE

#### EXHIBIT A: AMENDMENT NO. 6

EXHIBIT A-1	Task I-21-PBI-A-042: Green Street Improvements
EXHIBIT A-2	Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021
EXHIBIT A-3	Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services
EXHIBIT A-4	Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services
EXHIBIT A-5	Task I-021-PBI-A-046: PBI Wind Cone Relocation and Replacement Project
EXHIBIT A-6	Task I-21-PBI-A-047: PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3
EXHIBIT A -7	Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021
EXHIBIT A-8	Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)
EXHIBIT A-9	Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021
EXHIBIT A-10	Task I-21-PBI-A-051: PBI Noise Report
EXHIBIT A-11	Task I-021-PBI-A-052: Terminal Structural Assessment/Repair Plans
EXHIBIT A-12	Task-I-21-PBI-A-053 PBIA James L Turnage Blvd Bridge Repairs
EXHIBIT A-13	Task III Services

**EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS**

EXHIBIT B-I Summary of Fees

EXHIBIT B-II Schedule of Payments

**EXHIBIT C: PROPOSED SCHEDULES**

**EXHIBIT D: DBE**

AECOM Technical Services, Inc.  
7650 West Courtney Campbell Causeway  
Tampa, FL 33607. Phone: 813-636-2425 Fax: 813-287-8591



## CERTIFICATE OF INSURANCE



**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
DX00000660	AECOM Technical Services Inc.	Modified	Compliant					DOA 18-1	Consulting Professional Services
		A++g, XV	ACE American Insurance Company	ISAH25549211	4/1/2021	4/1/2022	Auto Liability		
		A++g, XV	ACE American Insurance Company	HDOG72486304	4/1/2021	4/1/2022	General Liability		
		A++g, XV	Illinois Union Insurance Company of North America	EONG21654693005	4/1/2021	4/1/2022	Professional Liability		
		A++g, XV	Indemnity Insurance Company of North America	WLCRC67806025	4/1/2021	4/1/2022	Workers Comp		

**Risk Profile :** Standard - Professional Services

**Required Additional Insured :** Palm Beach County Board of County Commissioners

**Ownership Entity :**



## EXHIBIT A

This Amendment No. 6 is in accordance with the Contract (Agreement R-2019-0301) for Consultant/Professional Services between Palm Beach County (COUNTY) and AECOM Technical Services, Inc. (CONSULTANT) dated March 12, 2019.

EXHIBIT A-1	Task I-21-PBI-A-042: Green Street Improvements
EXHIBIT A-2	Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021
EXHIBIT A-3	Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services
EXHIBIT A-4	Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services
EXHIBIT A-5	Task I-021-PBI-A-046: PBI Wind Cone Relocation and Replacement Project
EXHIBIT A-6	Task I-21-PBI-A-047: PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3
EXHIBIT A-7	Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021
EXHIBIT A-8	Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)
EXHIBIT A-9	Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021
EXHIBIT A-10	Task I-21-PBI-A-051: PBI Noise Report
EXHIBIT A-11	Task I-021-PBI-A-052: Terminal Structural Assessment/Repair Plans
EXHIBIT A-12	Task-I-21-PBI-A-053 PBIA James L Turnage Blvd Bridge Repairs
EXHIBIT A-13	Task III Services

## EXHIBIT A-1

Task I-21-PBI-A-042: Green Street Improvements

# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-1**

### **Palm Beach International Airport (PBI) Task I-21-PBI-A-042: Green Street Improvements**

## **OVERVIEW**

The Palm Beach County Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM or CONSULTANT) provide professional services to develop this Task I-21-PBI-A-042: Green Street Improvements.

### **PROJECT TEAM:**

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Site Visit / Develop Plans/ Agency Coordination/ Permitting/ and Bid Items
Tierra South Florida (SUBCONSULTANT)	Geotechnical Investigation and Findings
FR Aleman & Associates, INC (SUBCONSULTANT)	Topographic Survey / Subsurface Utility Engineering Services.

### **BACKGROUND:**

The AECOM Team has been tasked to improve (enlarge) the northbound right turn radius from Military Trail (State Road) to Green Street (County Road). The DOA owns parcel B, the area directly south of Green Street. The Green Street Right of Way (ROW) will need to be modified to include the proposed turning radius improvements. This task will also include coordination with FP&L, PBCWUD, PBC Engineering, and permitting efforts with FDOT and the South Florida Water Management District.

### **SCOPE OF WORK:**

The scope of work for this Project is based on recommendations previously submitted and discussed with the DOA. The scope consists of providing Roadway Design Services as follows:

1. Topographic Survey and Subsurface Utility Engineering Services.
2. Geotechnical Report: will include a summary of findings, laboratory results, and recommendations for geotechnical pavement design.
3. Coordination with FP&L and other utility owners for pole relocation.
4. Coordination with PBCWUD for manhole cover and easement adjustments.

5. Coordination with PBC Engineering to modify ROW to include the proposed turning radius improvements.
6. Provide location of proposed tenant monument sign near Military Trail by analyzing the line of sight.
7. Permitting with FDOT for improvements impacting Military Trail.
8. Environmental Permit Support and Coordination: This task includes the coordination with the South Florida Water Management District (SFWMD) and application for the ERP permit. This proposed fee proposal does not include paying permit fees.
9. Drainage Report: Includes narrative, water quality calculations, pre-post stage and discharge comparison, flooding analysis, and spread calculations.
10. Advanced Bid Contract Drawings

The Advanced Bid Contract Drawings will be developed to improve safety at the intersection of Military Trail and Green Street. The proposed plans will be prepared and designed in accordance with MUTCD, FDOT, and Palm Beach County criteria, procedures and requirements.

### **CONTRACT DOCUMENTS (Advanced Bid Documents) (Phase 1)**

The CONSULTANT will develop Advanced Bid Documents. The following elements are included as part of this task:

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

1. Cover Sheet
2. Drawings Index / Summary of Quantities
3. Site Plan: this plan will indicate the proposed improvements, including new pavement limits and new curb and gutter geometry.
4. Drainage plan: this plan will include the disposition of all the utilities within the project limits.
5. Utility Adjustment Plan: this plan will include the disposition of all the utilities within the project limits.
6. Maintenance of Traffic Plan: this plan will include all the traffic control elements to construct the proposed improvements.
7. Pavement Marking Plan: this plan will include the proposed pavement markings within the project limits and the location of proposed tenant monument sign.

### **Deliverables (Phase 1)**

1. Advanced Bid Contract Drawings - PDF set of 22x34;
2. Bid Project Manual - Technical Specifications and Front Ends;
3. Drainage Report;
4. Bid Project Construction Cost Estimate;

### **BIDDING AND AWARD OF CONTRACT DOCUMENTS (Phase 2)**

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 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.

#### **1.1 Meetings**

The CONSULTANT will prepare for and attend the following meetings during this Phase:

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

#### **1.2 Deliverables**

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

- a. Electronic Bid Documents;
- b. Applicable Addenda during Bidding process;
- c. Pre-Bid Agenda and Meeting Minutes;
- d. Bid Tabulation of Bids; and,
- e. Bid Recommendation Letter for Award.

### **PROJECT SCHEDULE**

AECOM anticipates to submit the Advanced Bid Contract Documents following 45 Calendar Days after NTP. AECOM anticipates to submit the Bid Contract Documents following 30 Calendar Days after the Advanced Bid Contract Documents. AECOM anticipates to complete this project within 75 Calendar Days from NTP for the work specific to the AECOM for this Task.

### **PROJECT ASSUMPTIONS**

The following assumptions were made pertaining to the design approach for this project:

- DOA will provide all record documents applicable to this task.
- Permit fees are not included in this scope of services.

- Construction Administration and Resident Project Representative Services are not included in this scope of services. The CONSULTANT will gladly perform these services via a separate task order.
- 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 Plans.
- In the event that the COUNTY and the CONSULTANT believe it to be in the best interests of the Project that additional services beyond what is provided in this scope of work be provided by the CONSULTANT, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.

Exhibit B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-042: Green Street Improvements

Billing Rate: \$ 185 / \$ 247 / \$ 120 / \$ 88 / \$ 185 / \$ 120

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)	
	Project Manager	Drainage Engineer	Project Engineer	Technician	QC Reviewer	Utility Coordinator	Total	Total
Task I-21-PBI-A-042: Green Street Improvements								
PHASE 1: CONTRACT DOCUMENTS (ADVANCED BID DOCUMENTS)	25	21	80	38	10	43	218	\$ 29,804
Kick-Off Meetings	2		2			2	6	\$ 850
100% Design Development Drawings:	10		10				20	\$ 3,050
Other Meetings (FPL, PCBWJD, PEC Engineering and SF-MID)				1			2	\$ 89
Cover Sheet (100%)				2			2	\$ 178
Drawings Index / Summary of Quantities (100%)				5			5	\$ 963
Site Plan	1			2			3	\$ 3346
Drainage Plan	2			6			8	\$ 1,172
Utility Adjustment Plan	1			3			4	\$ 932
Maintenance of Traffic Plan	1			3			4	\$ 2,275
Pavement Marking Plan	1			10			11	\$ 5,019
Project Manual	2			11			13	\$ 370
Drainage Report	2						2	\$ 1,850
Project Construction Cost Estimate	2				10		12	\$ 672
ISO 9001 - QA/QC Review							4	\$ 9,038
Review Meeting	1			1			2	\$ 305
Task Management	2			24			26	\$ 1,220
PHASE 2: BIDDING AND AWARD OF CONTRACT DOCUMENTS	13	7	37	25	0	0	82	\$ 10,799
Submit Bid Documents to DOA							0	\$ -
Bid Drawings	1						1	\$ 3,412
Bid Technical Specifications	1			20			21	\$ 1,278
Final Updates Bid Front End Specifications	1			5			6	\$ 785
Final Drainage Report	1			5			6	\$ 2,218
Bid Project Construction Cost Estimate	2						2	\$ 970
Pre-Bid Conference	2						4	\$ 610
Addenda	4						4	\$ 1,220
Bid Recommendation Letter	1						1	\$ 305
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>38</b>	<b>28</b>	<b>117</b>	<b>63</b>	<b>10</b>	<b>43</b>	<b>300</b>	<b>\$ 40,803.00</b>
<b>Subconsultant Fees</b>								
Terra South Florida	\$ 6,250.00							
FR Altiman & Associates	\$ 17,043.00							
<b>Total Fee - Subconsultants</b>	<b>\$ 23,293.00</b>							
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>								<b>\$ 63,896.00</b>

Lump Sum	\$ 40,803.00
T&M	\$ 23,293.00
Expenses	\$ -
<b>Total</b>	<b>\$ 63,896.00</b>

Prepared by: AECOM Technical Services, Inc.



July 6, 2021

Mr. Gorky Charpentier, P.E.  
AECOM  
7650 Corporate Center Drive  
Miami, Florida 33126  
Email: [Gorky.Charpentier@aecom.com](mailto:Gorky.Charpentier@aecom.com)  
Phone: 305-509-9774

Re: **Proposal for Geotechnical Services  
Proposed Green Street Improvement  
PBIA  
West Palm Beach, Florida  
TSF Proposal No.: 2107-470**

Dear Gorky:

As requested, TSFGEO is pleased to submit this proposal for the above-referenced project. The proposal is based on information provided by AECOM.

We understand that the proposed improvements included right turn lane and improve the turning radius from Military Trail into Green Street. 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:

- Perform 2 pavement cores on Military Trail and Green Street
- Perform 3 SPT borings to 10 feet at Military Trail and Green Street
- Perform 2 SPT borings to a depth of 10 feet with the undeveloped property.
- Work Plan and Utility Coordination;
- Laboratory tests including sieve analysis, organic, and moisture content
- Soil Boring Location Plan;
- Pavement cores thickness
- 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 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 and include recommendations for geotechnical pavement design.*

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.

The boring and pavement core locations will be provided by AECOM. 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 utilities. TSF can provide a GPR contractor to locate/clear utilities at the boring location. 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 at daytime.

### **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. On the basis of the proposed quantities, the estimated total fee is attached.

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 a function 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.

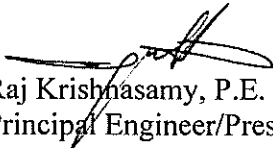
### **SCHEDULE AND AUTHORIZATION**


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 days to complete. The written report can be submitted within two 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,

TSFGeo

  
Raj Krishnasamy, P.E.  
Principal Engineer/President


  
Ramakumar Vedula, P.E.  
Principal Engineer

Attachments: 1. Fee Estimate

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

Tierra South Florida  
Unit Rate Fee Schedule  
Green Street Improvement  
Day Time Work

I.	FIELD INVESTIGATION	Unit	# of Units	Unit Price	Total
	Mobilization of Men and Equipment	LS	1	\$ 350.00	\$ 350.00
	Truck-Mounted Equipment	DAY	1	\$ 150.00	\$ 150.00
	Support Vehicle				
	Standard Penetration Test Borings (By Truck-Mounted Equipment)				
	Land: 0 - 50 ft depth	L.F.	50	\$ 13.00	\$ 650.00
	50 - 100 ft depth	L.F.	0	\$ 15.00	\$ 0.00
	Grout-Seal Boreholes (By Truck-Mounted Equipment)				
	Land: 0 - 50 ft depth	L.F.	50	\$ 6.00	\$ 300.00
	50 - 100 ft depth	L.F.	0	\$ 7.00	\$ 0.00
	Casing (By Truck-Mounted Equipment)				
	Land: 0 - 50 ft depth	L.F.	0	\$ 7.00	\$ 0.00
	50 - 100 ft depth	L.F.	0	\$ 9.00	\$ 0.00
	Percolation Test	Test	0	\$ 300.00	\$ 0.00
	MOT	LS	1	\$ 800.00	\$ 800.00
	Pavement Cores, Asphalt	Each	2	\$ 225.00	\$ 450.00
	Coring Machine + Generator Rental	Trip	1	\$ 400.00	\$ 400.00
	GPR	Each	1	\$ 450.00	\$ 450.00
	<b>II. LABORATORY TESTING</b>				
	Natural Moisture Content Tests	Test	1	\$ 10.00	\$ 10.00
	Grain-Size Analysis - Full Gradation	Test	0	\$ 65.00	\$ 0.00
	Grain-Size Analysis - Single Sieve	Test	0	\$ 35.00	\$ 0.00
	Organic Content Tests	Test	1	\$ 35.00	\$ 35.00
	Atterberg Limit Tests	Test	0	\$ 75.00	\$ 0.00
	Liquid Limit Tests (Only)	Test	0	\$ 52.00	\$ 0.00
	Plastic Limit Tests (Only)	Test	0	\$ 33.50	\$ 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	\$ 125.00	\$ 0.00
	b) Standard	Test	0	\$ 105.00	\$ 0.00
	<b>III. ENGINEERING/COORDINATION/MANAGEMENT</b>				
	Project Manager	Hour	0	\$ 175.00	\$ 0.00
	Principal Engineer	Hour	2	\$ 175.00	\$ 350.00
	Senior Engineer	Hour	4	\$ 150.00	\$ 600.00
	Project Engineer	Hour	8	\$ 125.00	\$ 1,000.00
	Senior Technician	Hour	6	\$ 75.00	\$ 450.00
	CADD	Hour	3	\$ 85.00	\$ 255.00
				\$	6,250.00

  
 Raj Krishnasamy, P.E.  
 Principal Geotechnical Engineer

July 13, 2020

## AECOM

Mr. Gorky Charpentier, PE  
[Gorky.Charpentier@aecom.com](mailto:Gorky.Charpentier@aecom.com)

**Reference:** Green Street Improvements

**Contract:**

FRA Project No: 3246 WO4

Dear Mr. Charpentier,

In accordance with your request, FR Aleman & Associates, Inc. (FRA) is pleased to submit this Scope of work for surveying, subsurface utility engineering and utility coordination services for this project.

## Survey

### Proposed Scope Services:

FR Aleman & Associates, Inc. proposes to perform the following surveying and mapping related services:

**Project Limits:** SR-809/N Military Trail, from Hazard Street to Green Street. Green Street, from centerline of SR-809/N Military Trail to 350 feet East, Palm Beach County.

**Horizontal Project Control:** Establish horizontal control on the Florida State Plane Coordinate System, North American Datum 1983/1990, adjustment (NAD 83/90) unless otherwise directed by the client.

**Vertical Control / Bench Line:** Establish vertical project control on the North American Vertical Datum of 1988 (NAVD 88) unless otherwise directed by the client.

**Alignment and Existing R/W Lines:** The baseline and R/W lines for N Military Trail and Green Street will be depicted as from the information provided by the client in a CADD file. FRA will update R/W lines to meet current FDOT standards. FRA will determine if there have been modifications to the R/W, as compared to Plats, R/W maps, and Deeds provided by the Client or from an online public records search of County's property appraiser's web site. The baselines will not be staked in the field.

**Topography/DTM (3D):** Locate above ground features and improvements for the length of the project along SR-809/N Military Trail (from South of Hazard Street to North of Green Street, from center line of SR-809 to East R/W line) and along Green Street (from center line of SR-809, East 350 feet, from R/W line to R/W line) by collecting the required data for the purpose of creating a DTM. Depict distinguishable ground break

lines, high and low points. Efforts include field edits, analysis and processing of field collected data, existing maps, and/or reports.

**Roadway Cross-Sections/Profiles:** Perform two (2) field survey check sections or profiles to verify the required accuracy of the DTM. Includes analysis and processing of all field collected data for comparison with the DTM.

**Drainage Survey:** Storm sewer structures will be located, rim elevation or top of structure elevation, pipeline inverts, material and diameters shall be measured. The direction of the pipe will be indicated on the survey. Connectivity between structures will not be determined unless clearly evident by visual inspection.

**Channel Survey:** Not a part of this scope.

**Sectional Survey:** Not a part of this scope.

**Project Control Sheet:** The survey horizontal & vertical control information will be provided in an excel table "PNC for GIS Template.xlsx"

### Deliverables

- CADD files will be prepared in a MicroStation SS10 Design file format (dgn), Surveyor Report (All survey data collected). The scope of work includes to follow FDOT standards for roadway design deliverables. This scope does not include to prepare a topographic survey set of plans and hardcopies.
- The survey control information will be provided in an excel table and included in the dgn file.

### Technical Guidelines & Specifications

- The survey will be governed by the Standards of Practice in accordance with Florida Statutes, Chapter 472.027, and Rule 5J-17, Florida Administrative Code.
- Field work will be certified by a Florida Registered Land Surveyor supervising this project.
- The project units will be in US Survey Foot.

### Schedule

Field tasks can commence within 48 hours of receiving the Notice to Proceed (NTP) and complete all survey tasks within two (2) work weeks from NTP.

### Conditions & Understanding

- Use of the above techniques does not guarantee the identification of all utilities.
- Utility locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.

- Results are dependent upon field conditions at the time of locating services.
- FRA's inability to complete the project due to conditions beyond FRA's control does not void this contract.
- FRA is not responsible for, moved, altered, obliterated or maintaining marks. If marks are destroyed, FRA will impose an additional fee to relocate/remark facilities.
- Additional fees may be applicable, depending on unforeseen site conditions
- FRA's proposed services do not include any support during the construction phase. FRA would be pleased to provide the similar services during the construction phase on an hourly basis.
- This proposal assumes access to the project site is available and work can be performed between the hours of 8:00 am to 5:00 pm, Monday through Friday. No overtime is included in this proposal.
- This proposal does not include fees for security/police escort.
- This estimate does not include permits, although they are not anticipated.
- Requests outside of the scope of this proposal will be discussed and agreed upon prior to starting additional work.
- This proposal is valid for acceptance for (to be determined) days, after which time it will be subject to review and adjustment by FRA with current rates.
- *The schedule will be subject to CDC directives and conditions that are beyond our control.*

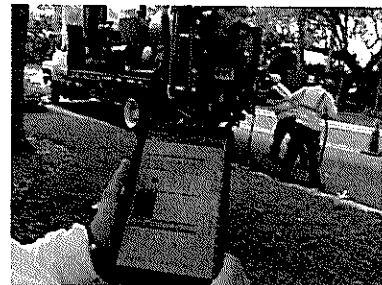
## Subsurface Utility Engineering Services (SUE)

### Project Scope of Work

#### Description of Services

FRA will provide the required SUE field crews, equipment, and special tools to designate (including GPR) existing utilities at locations authorized and directed by your representative. FRA's proposed services will include required locating and designating services during the design phase of the project.

FRA will provide the Test Hole Data Forms as printed copies and PDF versions of test-hole reports for each test hole; and CADD electronic files on disk for deliverables. Each test-hole report will contain a description of the test-hole, the utility owner, condition, horizontal and vertical location and a sketch of the immediate area surrounding the test hole. The information requested will include survey information.



#### Process

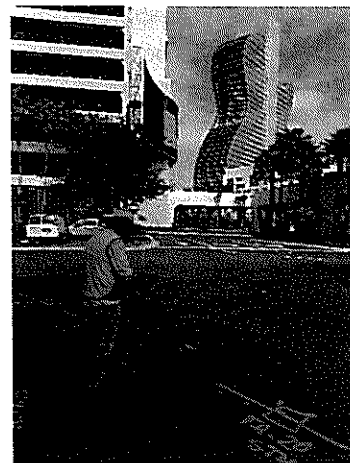
Electromagnetic induction is a method in which a transmitter signal is applied by directly coupling to a target. As long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz. Signal. Additionally, passive VLF signals can be detected on other metallic utilities that are typically long in length and are well grounded electrically. Some utility systems contain portions of non-metallic material and therefore may be un-locatable using EM techniques.

A GPR unit can assist in identifying non-metallic utilities and other structures that are unidentifiable using traditional electromagnetic techniques. The GPR method transmits electromagnetic waves, which are pulsed at discrete distance/time intervals. The transmitted pulse radiates through the earth whereby a portion of energy is reflected from interfaces of contrasting electrical properties (e.g. pavement and soil interface, soil stratigraphic changes and buried metallic objects) while the remaining energy continues until reaching additional reflectors where the process is repeated. Reflected energy is received by the antennae and recorded for later processing and interpretation. Factors such as soil moisture, clay content and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet conductive soils severely attenuate GPR signals and thus effective the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. In order to accurately conduct a radar survey, orthogonal scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern can impede the data collected and reduce the accuracy of the desired results.

Vacuum excavation is a technique used to safely expose utilities by using a combination of compressed and vacuum air. Once the utility has been exposed, vertical elevation, diameter and material type can be obtained.

#### **Consultant's Responsibilities (Designating)**

FRA will designate the appropriate horizontal location of existing utilities for this project by means of paint and flags. Locating underground utilities is not an exact science. Therefore, FRA expresses no guarantees that using one or any of the aforementioned techniques will identify all utilities. Project owner, and/or any of its sub-contractors shall hold harmless and indemnify FRA against any losses as a result of limitations within the equipment, but not against negligence on the part of FRA or its employees. Hand digging is required in all situations when excavating within 24" of FRA's markings. FRA by no means guarantees or warrants these markings to be exact for any utilities and accepts no responsibility for any utility damages, down-time, delays, etc., from use of our designating services.



#### **Electromagnetic & Utility Designating Survey**

As part of FRA's services the following tasks will be performed:

- Conduct appropriate records research.
- Program and calibrate electromagnetic utility locating equipment.
- Perform horizontal locations of existing conductive utilities using electromagnetic techniques.
- Mark selected targets on the ground surface as necessary.
- Interpret field data and perform on-site designating field sketches.
- Survey is included in this Scope.

#### **Locating Subsurface Utilities Using Test Holes (6 to 10 Test Holes)**

FRA will locate the identified utilities and designate 6 to 10 locations to delineate the existing underground utilities. This service will include but not be limited to the following:

- Obtain all necessary permits by the Prime & GEC (including ROW permits) from the City, County, Municipality or other jurisdiction to allow the sub-consultant to work in existing streets, roads, etc., for the purpose of excavating, measuring and recording the location and depth of the utility.
- Coordinate with utility agencies/owners.
- Neatly cut and remove existing pavements (not to exceed 225-sq. in. per cut).
- Excavate the cut in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (i.e., vacuum/pressure excavations, hand digging).
- Furnish and install color-coded permanent, above-ground markers (i.e., p.k., nails, steel rods), directly above the centerline of the utility structure and record the elevation of the marker.
- Provide a restoration of the pavement, within the limits of the cuts, at the time of the backfill.

In the event the excavation is in an area other than roadway pavements, the disturbed area will be restored to the condition prior to the excavation.

- Provide all traffic control in accordance with the Department policy and MUTCD and/or Index 600, labor and equipment.
- Provide complete clean-up of work sites to equal or better condition than before restoration.

#### **Conditions – Locating of Underground Utilities for Pre-excavation**

- Utility Locations are being provided in an attempt to prevent or reduce the likelihood of damage during excavation.
- Areas to be surveyed with GPR must be level and free of obstructions.
- Results are dependent upon field conditions at the time of locating services.
- FRA's inability to complete the project due to conditions outside FRA's control does not void this contract.
- APWA standards are used for marking.
- FRA is not responsible for, moved, altered, obliterated or maintaining marks. If marks are destroyed,
- FRA may impose an additional fee to relocate / remark facilities.
- If underground facilities are damaged, whether marked by FRA or not, it is your obligation to inform FRA within 24 hours of the damage.
- Prior to excavation (for test holes), FRA will be responsible for securing locations of public utilities through Sunshine 811, (800-432-4770).

#### **Exclusions**

FRA's proposed services do not include the following:

- Any support during construction phase. FRA would be pleased to provide the similar services during construction phase (scope to be determined).



## Fee Proposal

Our estimated fee to perform the services, and subject to the qualifications as stated herein shall be a total amount, not to exceed \$ 17,042.60, as shown below.

Service Description	Unit	Quantity	Rate	Proposed Cost
Project Manager	Hour	5	204.84	\$ 1,024.20
GIS Analyst 3	Hour	8	117.72	\$ 941.76
CADD Technician	Hour	30	108.94	\$ 3,268.20
Survey Crew - Party of 3	Hour	28	224.27	\$ 6,279.56
3 Person Designating Crew	Hour	8	230.37	\$ 1,842.96
3 Person Locating Crew (6 to 10 Test Holes)	Hour	16	230.37	\$ 3,685.92
<b>TOTAL</b>				<b>\$ 17,042.60</b>

*This Estimate includes 6 to 10 Test Holes. Additional Test holes will be charged separately at a rate of \$1,250.00 per Test hole (including GPR and Survey Support)*

FRA appreciates the opportunity to submit this proposal and looks forward to our association on this project. This pricing will be in effect for the next 30 days, after which time it shall be subject to review and adjustment by FRA.

If you find this proposal acceptable, please sign this Agreement in the spaces provided below and return one (1) fully executed copy for our files which will serve as your formal authorization for our services.

Sincerely,



Yvette Aleman

President – CEO

FR Aleman & Associates, Inc.

Project Location and Project Limits



## EXHIBIT A-2

Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021

## **PALM BEACH DOA GENERAL CONSULTING SERVICES**

### **EXHIBIT A-2**

**Miscellaneous Architectural, Planning, Engineering and Construction Services**

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**Palm Beach International Airport (PBIA)  
North Palm Beach County General Aviation Airport (F45)  
Palm Beach County Park Airport (LNA)  
Palm Beach County Glades Airport (PHK)  
Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021**

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### **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-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021 Project (Project).

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 to be developed are described below:

#### **PROPOSED 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 PBCDOA with miscellaneous planning, programming, engineering, and architectural 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. 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 L21-DOA-A-003: Miscellaneous Planning & Engineering Services 2021

Billable Rates:	\$ 340	\$ 181	\$ 247	\$ 120	\$ 107	\$ 89	\$ 90
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Task Description	Labor Estimate (Hours)								Fee Estimate (\$)			
	Principal	QC Reviewer	Senior Member	Senior Planner	Project Engineer	Planner	Senior CAD/ Draftsp	Clerical	Total	Labor	Expenses	Total
Task L21-DOA-A-003: Miscellaneous Planning & Engineering Services 2021												
01 Independent Fee Estimates (FE)	0	0	80	35	120	80	0	0	215	\$17,485	\$1,200	\$18,685
02 Miscellaneous Programming, Engineering and Architectural	0	0	20	20	40	40	0	0	100	\$14,070	\$400	\$14,470
03 Programming for Upcoming Tasks	0	0	30	15	40	20	0	0	105	\$19,800	\$400	\$20,200
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>35</b>	<b>120</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>215</b>	<b>\$17,485</b>	<b>1,200</b>	<b>\$18,685</b>

Subcontractant Fees Task 1.0

Task 1.0 (Lump Sum)	\$51,485
Task 2.0 (Time & Material)	\$0
<b>Expenses</b>	<b>\$1,200</b>
<b>Total</b>	<b>\$52,685</b>

**GRAND TOTAL FEE - BASIC ENGINEERING SERVICES**

## EXHIBIT A-3

Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services

# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-3**

### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

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#### **Palm Beach International Airport (PBI) Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services**

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## **OVERVIEW**

The Palm Beach County Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM or CONSULTANT) provide professional services to develop this Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services (Project).

### **PROJECT TEAM:**

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project Initiation/ Coordinate and Facilitate Wallis Road Phase 2 Construction Services
Mock Roos & Associates (Mock Roos)	Wallis Road Phase 2 Construction Services

### **SCOPE OF WORK:**

The AECOM Team, under previous tasks, developed construction documents for improvements to Wallis Road, from Wayne Road east to N Military Trail. The DOA determined that, due to budgetary concerns, that the overall project should be separated into two phases. Phase 1 (already constructed) included all the elements necessary to implement the master drainage system components of collecting runoff from Wallis Road. This scope and fee includes the construction services for the remaining components of the overall Wallis Road Improvements, that were repackaged into this Wallis Road Phase 2 Repackaging Project. The scope includes the Following:

- Attendance at the Phase 2 Pre-Construction Meeting to answer questions and provide project clarifications;
- Provide responses to contractor-initiated Requests for Information (RFI's). Up to 10 RFI's are anticipated for the purpose of estimating hours;
- Provide consultations to assist County construction and DOA personnel upon request, to evaluate conditions, conflicts, change orders, or perform field inspections of contractor work. This may include attendance at Substantial and Final Completion inspections;
- Make revisions to the construction plans as may be necessary, upon request of the County or DOA;
- Review of shop drawings for specific construction elements including concrete, asphalt, rock base, water system components, drainage structures, pipes or other pre-manufactured items. An estimated 20 shop drawing reviews are anticipated.

- Dependent on initial compliance, some structures may require resubmittals;
- Attendance at construction progress meetings, as directed by County or DOA staff. For the purposes of this proposal up to 12 progress meetings are anticipated.
- Provide (part time) Project Field Representative to observe the installation of the watermain and appurtenances, observe the watermain pressure test, observe the sample point installation and operation, and observe final watermain connections to the existing system. Prepare Mock Roos field observation reports and distribute via email. Attend up to two construction progress meetings, if necessary.
- Review contractor's record drawings and provide red-line markup of any additional information that is needed for Health Department clearance to place the new watermain in service. Review final Record Drawings for compliance with previous markup.
- TT Prepare "Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation" form, we will obtain required signatures on form, assemble package for Health Department including above form, record drawings, passing pressure test results form, two consecutive days of passing bacteriological test forms, and submit package to the Health Department and obtain full and final clearance to place the new/relocated water mains into service. Respond to one round of questions from the Health Department, if necessary.

### **PROJECT SCHEDULE**

Construction Services be performed for the duration (30 days procurement, 120 days construction, 30 days final close-out) of the construction of the Task I-21-PBI-A-044: PBI Wallis Road Phase 2 (Project).

### **PROJECT ASSUMPTIONS**

The following assumptions were made pertaining to the design approach for this project:

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 their work. 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. The AECOM Team will perform all services listed in this scope of services and it is expected that PBC and or the DOA will perform all other construction related services that are not listed.
3. These Construction Administration Services shall be provided for a period of 4 months plus procurement and final closeout.
4. In the event that the DOA and 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.



EXHIBIT B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task L-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services

Billing Rate: \$ 340 \$ 187 \$ 247 \$ 120 \$ 89 \$ 90

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)			
	Principal	QC Reviewer	Senior Project Manager	Senior Engineer	Engineer	CADD Designer	Clerical	Total	Labor	Expenses	Total
Task L-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services											
CONSTRUCTION/ADMINISTRATION SERVICES (LUMP SUM - REM)											
Attendance at Pre-Construction Meeting		0	11	0	66	0	2	79	\$ 10,817	\$ 0	\$ 10,817
Respond to RFIs (est 10)			1		10			11	\$ 1,447	\$ -	\$ 1,447
Consultations, Evaluations, Field Inspections			1		16			17	\$ 2,167	\$ -	\$ 2,167
Record Drawing Reviews and Plan Revisions, as required			1		4			5	\$ 727	\$ -	\$ 727
Shop Drawing Reviews (est 16)			1		8			9	\$ 1,207	\$ -	\$ 1,207
Attendance at Progress Meetings (est 12)			1		12			13	\$ 1,687	\$ -	\$ 1,687
Substantial & Final Inspection & Completion Certifications			1		8			9	\$ 1,207	\$ -	\$ 1,207
SPWMD Certification			1		1			2	\$ 367	\$ -	\$ 367
Relocated Water Main			1		1			2	\$ 247	\$ -	\$ 247
Const. Admin. Observations & Cert. of Relocated Water Main			1		2			3	\$ 487	\$ -	\$ 487
Shop Drawing Reviews (est 4)			1		2			3	\$ 487	\$ -	\$ 487
Coordination and Task Management			1		1			2	\$ 547	\$ -	\$ 547
<b>Total Fee - AECOM Technical Services, Inc.</b>		0	11	0	66	0	2	79	\$ 10,817	\$ 0	\$ 10,817
<b>Subconsultant Fees</b>											
1 Mock Fees	TAM	\$ 34,823									
	EXP	\$ 200									
2	TAM										
	EXP										
3	TAM										
	EXP										
<b>Total Fee - Subconsultants</b>		\$ 34,823									
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>		\$ 45,640									

LS \$ 10,817  
 TAM \$ 34,823  
 Expenses \$ 200  
**Total \$ 45,640**

Prepared by: AECOM Technical Services, Inc.

**WALLIS ROAD IMPROVEMENTS**  
(East of Haverhill Road to Military Trail)  
Palm Beach County Project No. 2019021

**SUPPLEMENTAL SCOPE OF SERVICES**  
**CONSTRUCTION PHASE ASSISTANCE**  
**PHASE 2 CONSTRUCTION ONLY**

February 9, 2021  
Revised April 15, 2021

**OVERVIEW**

Mock•Roos has recently completed design plans for construction improvements of Wallis Road. Palm Beach County Department of Airports, due to unforeseen circumstances, has elected to break the project into phases for construction. **Phase 1 construction**, which includes all elements necessary to implement the master drainage system components of collecting runoff from the existing and improved Wallis Road **has been completed**.

Principal oversight of the construction activities will be performed by Palm Beach County Engineering & Public Works Construction staff. Palm Beach County Department of Airports (DOA) staff has requested Mock•Roos to provide construction support assistance to the construction oversight team. The applicable construction documents are Project No. B9012.00, Roadway and Drainage Plans (40 sheets) and Signing and Pavement Marking Plans (6 sheets), currently under revision to reflect the work completed in Phase 1.

This proposal addresses only Phase 2 Activities. The anticipated construction period is 4 months from official Notice to Proceed to Substantial Completion plus 30 days prior to construction for procurement and 30 days post construction to Final Acceptance of the work. The specific services to be provided are as follows.

**SCOPE OF SERVICES**

**CONSTRUCTION SUPPORT ASSISTANCE**

Professional engineering services will be provided by Mock•Roos staff during the construction phase of the project, as authorized or requested by DOA (or its agent). The expected work will include the following:

- Attendance at the Phase 2 Pre-Construction Meeting to answer questions and provide project clarifications.
- Provide responses to contractor-initiated Requests for Information (RFI's). Up to 10 RFI's are anticipated for the purpose of estimating hours.
- Provide consultations to assist County construction and DOA personnel upon request, to evaluate conditions, conflicts, change orders, or perform field

inspections of contractor work. This may include attendance at Substantial and Final Completion inspections.

- Make revisions to the construction plans as may be necessary, upon request of the County or DOA.
- Review of shop drawings for specific construction elements including concrete, asphalt, rock base, water system components, drainage structures, pipes or other pre-manufactured items. An estimated 20 shop drawing reviews are anticipated. Dependent on initial compliance, some structures may require resubmittals.
- Attendance at construction progress meetings, as directed by County or DOA staff. For the purposes of this proposal up to 12 progress meetings are anticipated.
- Provide (part time) Project Field Representative to observe the installation of the watermain and appurtenances, observe the watermain pressure test, observe the sample point installation and operation, and observe final watermain connections to the existing system. Prepare Mock•Roos field observation reports and distribute via email. Attend up to one preconstruction meeting with representatives of the Palm Beach County Water Utilities Department and one construction progress meeting, if necessary. Provide Project Manager supervision of Project Field Representative.
- Review contractor's record drawings and provide red-line markup of any additional information that is needed for Health Department clearance to place the new watermain in service. Review final Record Drawings for compliance with previous markup.
- Prepare "Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation" form, we will obtain required signatures on form, assemble package for Health Department including above form, record drawings, passing pressure test results form, two consecutive days of passing bacteriological test forms, and submit package to the Health Department and obtain full and final clearance to place the new/relocated water mains into service. Respond to one round of questions from the Health Department, if necessary.

Construction Support Services shall be billed on an hourly basis at the rates established in our contract. See the attached fee estimate calculation.

The work to be performed for this supplemental scope of services shall be in accordance with the terms and provisions of the Basic Services agreement between AECOM and Mock•Roos for the Wallis Road Improvements, dated April 29, 2019. Any additional services requested by the County or AECOM beyond this scope of services shall be performed under a separate authorization.



## EXHIBIT A-4

Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services

## **PALM BEACH DOA GENERAL CONSULTING SERVICES**

### **EXHIBIT A-4**

#### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

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#### **Palm Beach International Airport (PBI)**

#### **Task I-21-PBI-A-045 PBI Replacement of Current PA System CA/CM Services**

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The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Construction Administration/Management (CA/CM) Services associated with the replacement of the Public Address System at Palm Beach International Airport (PBI). AECOM, including its subconsultants, is currently under contract to perform CA/CM services for this project for 365 days, which started June 16, 2020 and ended June 15, 2021. The construction efforts for this Project are anticipated to extend through March 10, 2022 to achieve final completion. This task will allow AECOM to continue providing CA/CM services for the remaining 267 calendar days anticipated to achieve final completion of this Project. AECOM has coordinated with our subconsultants (Hillers Electrical Engineering, Inc., Ross & Baruzzini, Inc., and Colome & Associates, Inc.), and has confirmed that no additional fees are required for them to complete their scope of work through the anticipated final completion. A brief overview of pertinent tasks to be performed by AECOM for this Project includes:

#### **Task I – CA/CM Services**

1. Conferences and Meetings: Attend and facilitate meetings between Owner, Contractor(s), and Stakeholders, such as progress meetings (a maximum of 19 bi-weekly construction progress meetings), job conferences and other project related meetings;
2. 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;
3. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
4. 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. Record names, addresses and telephone numbers of all Contractors, subcontractors and major suppliers of material and equipment;
5. Payment Requests: Review applications for payment with information provided by the RPR and Contractor;
6. Periodic site visits to monitor construction activity;
7. Preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance.
8. Review Contractor as-builts for completeness and obvious errors based on readily available information to AECOM. AECOM will provide comments prior to acceptance of the Contractor's As-builts.

9. Task Management and Coordination: Coordinate as needed with DOA Operations, Jacobs, and other Project stakeholders.

**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:

<b>Firm Name (CONSULTANT/SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project/Task Management, Construction Administration/Management Services

**PROJECT SCHEDULE**

AECOM is scheduled to complete this project within 267 Calendar Days following receipt of the Notice to Proceed.

**PROJECT DELIVERABLES**

Project Deliverables are as described in the above mentioned Task I.

**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 all other construction related services that are not listed.
3. In the event that the DOA and 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.

Billing Rate: \$ 340 / \$ 181 / \$ 247 / \$ 185 / \$ 120 / \$ 89 / \$ 90

Task Description	Labor Estimate (Hours)										Fee Estimate (\$)		
	Principal	CC Reviewer	Senior Project Manager	Senior Engineer	Project Engineer	Senior CAD Designer	Clerical	Total	Labor	Expenses	Total		
<b>CA Services</b>	0	0	42	0	191	0	8	241	\$ 34,014	\$ 500	\$ 34,514		
1 Project Meetings (19 Bi-weekly)			10		39			49	\$ 7,030	\$ -	\$ 7,030		
2 Shop Drawing Log, Review, and Coordination			2		8			10	\$ 1,454	\$ -	\$ 1,454		
3 Respond to Contractor's Request for Information (RFI's)			4		34		4	42	\$ 5,428	\$ -	\$ 5,428		
4 Maintain Records			2		8		4	14	\$ 1,814	\$ -	\$ 1,814		
5 Review of Pay Applications			2		15			17	\$ 2,294	\$ -	\$ 2,294		
6 Site Visits			6		40			46	\$ 6,282	\$ 500	\$ 6,782		
7 Preparation/Review of CCP's, FB's, CO's, etc.			6		24			30	\$ 4,362	\$ -	\$ 4,362		
8 Review of Contractor's As-Builts			4		12			16	\$ 2,438	\$ -	\$ 2,438		
9 Task Management & Coordination (DOA, Consultants, etc.)			6		12			18	\$ 2,922	\$ -	\$ 2,922		
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	0	42	0	191	0	8	241	\$ 34,014	\$ 600	\$ 34,614		
<b>Subconsultant Fees</b>													
<b>Total Fee - Subconsultants</b>													
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>											\$ 34,614.00		

LS \$34,014  
T&M \$  
Exp \$ 600  
Total \$ 34,614.00



## EXHIBIT A-5

Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement Project

**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-5**

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement Project

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) to develop this Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement Project (Project).

**PROJECT TEAM**

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Management/Administration and Development of CDs, Siting, CSPP, and Bidding
Quantum Electrical Engineering, Inc.	Electrical

**SCOPE OF WORK**

The scope of work for this Project includes: record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions in order to develop construction documents to relocate and replace six (6) internally lit wind cones for Runways 10L-28R, 10R-28L, and 14-32 with new L-806(L) LED internally lit current driven supplementary wind cones. Work includes new conductor and conduit systems from the closest edge light circuit. Plans will be developed to show wind cone installation details and demolition plans of existing wind cone electrical systems.

For the six (6) existing supplemental wind cones at PBI, AECOM will evaluate each existing site and determine if the site conforms to the FAA Advisory Circular AC 150/5340-30J, *Design and Installation Details for Airport Visual Aids*. The preferred location for each supplemental wind cone according to FAA siting criteria, is on the left side of the runway for landing aircraft and positioned within 1,000 feet from the corresponding runway end and shall be installed outside the RSA and ROFA. If an operational need exists for the Supplemental Wind Cone to be installed within the ROFA, due to the individual Airport configuration, then documentation must be provided to explain the siting location.

AECOM will evaluate new wind cone locations to ensure compliance with the FAA Siting criteria, provide all backup documentation as required. Each site will be evaluated and coordinated with the existing Airport Navigational Aids and will work with FAA Technical Operation to determine that the individual sites do not interfere with each runway's Glide Slope, Localizer, or other Navigational Aids.

### **CONTRACT DOCUMENTS (60%) (Phase 1)**

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;
- b) Review record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions;
- c) Develop base drawings;
- d) Develop CSPP, MOT, and Phasing;
- e) 60% civil and electrical drawings will be developed to completely describe scope of work included above; and
- f) 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.

During this phase, the 60% 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 (Phase 1)**

1. Kick-Off Meeting Minutes
2. 60% Design Documents
  - o Contract Drawings – PDF Version Only;
  - o Estimate of Probable Construction Cost;
  - o Table of Contents for Technical Specifications; and,
  - o Draft Construction Phasing and Safety Plan.
3. Meeting Minutes from the 60% Review Meeting.

### **CONTRACT DOCUMENTS (100%) (Phase 2)**

Following the 60% Complete Contract Documents approval, AECOM will develop "Final" 100% Complete Contract Documents from the approved 60% Complete Contract Documents. They 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. The following elements are included as part of this task:

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

1. Cover Sheet (100%).
2. Drawings Index / Summary of Quantities/General Notes (100%).
3. Staging and Haul Route Plan (100%).
4. Construction Phasing and Security Notes and Details (100%).
5. Existing Conditions (100%).
6. Civil/Electrical Removal and Relocation Plans (100%).
7. Civil/Electrical Removal and Relocation Details (100%).

During this phase, the 100% 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 (Phase 2)**

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

1. Kick-Off Meeting Minutes
2. 100% Design Documents
  - o Contract Drawings – PDF Version Only;
  - o Estimate of Probable Construction Cost;
  - o Front End and Technical Specifications; and,
  - o 100% Construction Phasing and Safety Plan.
3. Meeting Minutes from the 100% Review Meeting.

### **BIDDING AND AWARD OF CONTRACT DOCUMENTS (Phase 3)**

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 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.

#### **1.1 Meetings**

The CONSULTANT will attend the following meetings during this Phase:

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

#### **1.2 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 anticipates to submit the 60% Contract Documents following 45 days after NTP. AECOM anticipates to submit the 100% Contract Documents following 90 days after NTP. AECOM anticipates to complete this project within 135 Calendar Days from NTP for the work specific to the AECOM for this Task. This schedule does not include expected DOA review times.

### **PROJECT ASSUMPTIONS**

AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform all other coordination's with PBI airport operations and related services that are not listed.

The following assumptions were made pertaining to the design approach and pricing based on AECOM' understanding of this Project.

- No survey is required;
- No geotechnical engineering is required;
- No segmented circles are required;
- No relocation or removal to accommodate the new wind cones, other than the existing wind cones, is required;
- DOA will process and file any NOTAMs necessary for this project;
- DOA will provide Front End Contract Documents and all changes recommended by the CONSULTANT shall be reviewed by the DOA;
- DOA will submit the Construction Safety Phasing Plan to the FAA; and
- Construction Administration and Resident Project Representative Services are not included in this scope of services. The CONSULTANT will gladly perform Construction Administration and Resident Project Representative Services via a separate task order.

Exhibit B  
Labor/fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task III-21-PBIA-046: FBI Windcone Relocation and Replacement Project

Billing Rates: \$ 340 / \$ 161 / \$ 247 / \$ 102 / \$ 81 / \$ 80

Task Description	Principal	GC Reviewer	AFRIS Project Manager	Labor Estimate (Hours)				Client	Fee Estimate (\$)			
				Design Manager	Project Engineer	CAAD Designer	Total		Labort	Expenses	Total	
<b>Task III-21-PBIA-046: FBI Windcone Relocation and Replacement Project</b>												
<b>Phase 1 CONTRACT DOCUMENTS (60% SUBMITTAL)</b>	0	4	1	1	31	0	4	86	\$ 1,772	\$ 269	\$ 2,041	
Project Site Visits					4			4	\$ 721	\$ -	\$ 721	
Kick-off Meetings					2			4	\$ 683	\$ -	\$ 683	
Cover Sheet (60%)					1			1	\$ 720	\$ -	\$ 720	
Drawings Index / Summary of Quantities/General Notes (60%)					1			1	\$ 120	\$ -	\$ 120	
Staging and Haul Route Plan (60%)					1			2	\$ 302	\$ -	\$ 302	
Construction Phasing and Security Notes and Details(60%).					1			3	\$ 549	\$ -	\$ 549	
Existing Conditions (60%).					1			2	\$ 302	\$ -	\$ 302	
Civil/Electrical Removal and Relocation Plans (60%).					1			5	\$ 662	\$ -	\$ 662	
Civil/Electrical Removal and Relocation Details (60%).					4			5	\$ 662	\$ -	\$ 662	
Table of Contents Technical Specifications					1			2	\$ 302	\$ -	\$ 302	
60% Construction Phasing and Safety Plan Report					1			4	\$ 542	\$ -	\$ 542	
60% Project Construction Cost Estimate					2			4	\$ 669	\$ -	\$ 669	
FAA Coordination					2			4	\$ 734	\$ -	\$ 734	
ISO 9001 - QA/QC Review					4			4	\$ 724	\$ -	\$ 724	
60% Review Meeting					2			5	\$ 651	\$ -	\$ 651	
Task Management					2			7	\$ 847	\$ -	\$ 847	
Cover Sheet (100%)	0	4	8	18	33	0	4	64	\$ 8,660	\$ 1,040	\$ 9,700	
<b>Phase 2 CONTRACT DOCUMENTS (100% SUBMITTAL)</b>								1	\$ 120	\$ -	\$ 120	
Drawings Index / Summary of Quantities/General Notes (100%).					1			1	\$ 120	\$ -	\$ 120	
Staging and Haul Route Plan (100%).					1			3	\$ 422	\$ -	\$ 422	
Construction Phasing and Security Notes and Details(100%).					2			3	\$ 422	\$ -	\$ 422	
Existing Conditions (100%).					1			3	\$ 422	\$ -	\$ 422	
Civil/Electrical Removal and Relocation Plans (60%).					1			3	\$ 422	\$ -	\$ 422	
Civil/Electrical Removal and Relocation Details (60%).					1			3	\$ 422	\$ -	\$ 422	
100% Technical Specifications					2			6	\$ 1,462	\$ -	\$ 1,462	
100% Front End Specifications & FAA General Provisions					4			4	\$ 728	\$ -	\$ 728	
100% Construction Phasing and Safety Plan Report					2			3	\$ 422	\$ -	\$ 422	
100% Project Construction Cost Estimate					2			4	\$ 604	\$ -	\$ 604	
FAA Coordination					2			4	\$ 734	\$ -	\$ 734	
ISO 9001 - QA/QC Review					4			4	\$ 724	\$ -	\$ 724	
100% Review Meeting					2			4	\$ 734	\$ -	\$ 734	
Task Management					2			8	\$ 1,084	\$ -	\$ 1,084	
<b>Phase 3 BIDDING AND AWARD</b>	0	1	2	14	12	0	0	29	\$ 4,093	\$ 299	\$ 4,392	
Submit Bid Documents to DBA					2			0	\$ -	\$ -	\$ -	
Bid Opening					1			6	\$ 1,032	\$ -	\$ 1,032	
Bid Technical Specifications					2			3	\$ 422	\$ -	\$ 422	
Final Updates Bid Front End Specifications & FAA General Provisions					2			3	\$ 484	\$ -	\$ 484	
Big Project Construction Cost Estimate					1			2	\$ 302	\$ -	\$ 302	
Pre-Bid Conference					2			2	\$ 304	\$ 250	\$ 554	
Airports					2			8	\$ 1,093	\$ -	\$ 1,093	
Big Recommendation Letter					2			3	\$ 411	\$ -	\$ 411	
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	9	18	40	66	0	8	141	\$ 21,988	\$ 600	\$ 22,588	

Subcontractant Fees											
Quantum Electrical Engineering	1.5								\$ 7,015		
<b>Lump Sum:</b>									\$ 29,600.00		
<b>TAM:</b>									\$ -		
<b>Expenses:</b>									\$ 500.00		
									\$ 29,600.00		

Total Fee - Subcontractants \$ 7,015.00  
**GRAND TOTAL FEE - BASIG ENGINEERING SERVICES \$ 29,600.00**

Prepared by: AECOM Technical Services, Inc.

June 9, 2021

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

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

Dear Andy:

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

The following tasks are included in our scope of services:

#### **Task 1 – PBI Windcone Relocation and Replacement**

- Includes design coordination meetings with the DOA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Includes airfield electrical plans reflecting relocation and replacement of the six (6) internally lighted windcones for Runways 10L-28R, 10R-28L and 14-32 with new L-806(L) LED internally lighted current driven supplementary windcones. Also includes new conductor and conduit systems from closest edge light circuit, windcone installation details and demolition plans of existing windcone electrical systems.
- Includes electrical plans reflecting the modification to the existing airfield electrical vault for demolition of existing windcone equipment.
- Includes all electrical and regulator calculations. The design shall be per Airport requirements, FAA, NEC and County codes & standards criteria.
- Includes Bid and Award Services, addenda revisions, RFI/permitting comment revisions, review of bid pricing results and electrical recommendation.

#### Exclusions and Assumptions

- AECOM shall provide all base drawings to QUANTUM on AutoCAD 2020 or higher.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for advanced bid reviews and bid documents.

Palm Beach County  
2755 Vista Parkway, Suite I-9  
West Palm Beach, FL 33411  
561.210.9224

[www.QuantumElectricalEngineering.com](http://www.QuantumElectricalEngineering.com)

Broward County  
5571 N. University Drive, Suite 101  
Coral Springs, FL 33067  
954.369.5810

- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase, permits and construction phases.
- Does not include any kind of Windcone siting or installation of a primary windcone.
- Does not include construction services.

**Our proposed total Lump-Sum fee is:** **\$7,044.16**  
(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE  
President

Palm Beach County  
2755 Vista Parkway, Suite I-9  
West Palm Beach, FL 33411  
561.210.9224

[www.QuantumElectricalEngineering.com](http://www.QuantumElectricalEngineering.com)

Broward County  
5571 N. University Drive, Suite 101  
Coral Springs, FL 33067  
954.369.5810



**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - PBI WINDCONE REPLACEMENT PROJECT.  
 QUANTUM ELECTRICAL ENGINEERING, INC.  
 SCOPE FEE SUMMARY  
 FEE PROPOSAL ELECTRICAL DESIGN to AE 06/09/21**

PHASE OF WORK	Rate	\$161.54		\$144.23		\$138.46		\$69.23		\$46.15		TOTAL
		Proj. Mgr.	Hours	Prof. Eng.	Hours	Proj. Eng.	Hours	CADD/Tech	Hours	Clerical	Hours	
<b>PBI Windcone Relocation and Replacement</b>												
<b>Advance Bid Documents</b>												
Design Review Mtgs DOA, AE				1								\$144.23
Demolition Drawings				2		2		2				\$703.84
Electrical Design Drawings				6		6		4				\$1,973.06
Specifications & Cost Estimate				4		4			2			\$1,223.06
QA/QC & Comment Incorporation						4		4				\$830.76
<b>Subtotal</b>			0	13	16	10		10	2	2	41	<b>\$4,874.95</b>
<b>Bid Documents</b>												
Design Review Mtgs DOA, AE				1								\$144.23
Demolition Drawings				1		1		1				\$351.92
Electrical Design Drawings				1		1		1				\$351.92
Specifications & Cost Estimate				2		2			1			\$611.53
QA/QC & Comment Incorporation						1		1				\$207.69
<b>Subtotal</b>			0	5	5	3		3	1	1	14	<b>\$1,667.29</b>
<b>Bid &amp; Award</b>												
Pre-Bid Meeting				1								\$144.23
Review of Bid Results & Recommendation				1								\$144.23
RFI Responses				1				1				\$213.46
<b>Subtotal</b>			0	3	0	0		1	0	0	4	<b>\$501.92</b>
<b>Subtotal</b>			0	21	21	14		14	3	3	59	<b>\$7,044.16</b>
<b>Grand Total Labor Cost</b>			\$0.00	\$3,028.83	\$2,907.66	\$969.22		\$138.45				

## EXHIBIT A-6

Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2  
and 3

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# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-6**

### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

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#### **Palm Beach International Airport (PBI)**

#### **Task I-21-PBI-A-047: PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3**

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### **OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Professional Services associated with the Task I-21-PBI-A-047 PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3 (Project) at the Palm Beach International Airport (PBI).

This task will be performed by AECOM as shown below:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project Management, site evaluations, development of base sheets, structural repair design, joint sealing, project cost estimating and quality reviews.

### **PROJECT OBJECTIVE AND APPROACH**

Construction documents will be developed to repair items that were identified from site evaluations performed during this Project and from data generated during the previously developed task:

- Task III-20-PBI-A-040: PBI Repairs to Long-Term Parking Garage 3 Joints and Joint Evaluation of Short-Term and Long-Term Parking Garages 2 and 3.

Included will be the cleaning and resealing of the joints in the PBI Short-Term Parking Garage at each level. Work includes review of record documents; joint types; widths and lengths; and development of details for joint replacement.

AECOM will prepare construction documents with cost estimating at each project phase (60%,

100%, permit and bid documents), that will include: general notes, deficiency plans for each garage, repair details for: joints (expansion joints, flange-to-flange joints, seal around columns), spall repairs (with and without exposed rebar), beam flanges, deck topping surface exposed rebar, corroded arch panel metal connector plates, and special repairs. Also, a review of the items outlined in previous assessments will be performed and those items requiring repairs will be included in this Project. The scope of work includes the work described below:

1. Attend one (1) DOA design kick-off meeting and meeting minutes;
2. Coordinate one (1) Internal design team kick-off meeting;
3. Attend two (2) DOA submittal review meetings, including preparation of meeting agenda and meeting minutes (60% and 100% Contract Documents);
4. Coordinate data collection, records research and review of as-built information;
5. Develop project cost estimates to submit for each deliverable;
6. Prepare 60% and 100% Construction Documents, which include: technical specifications, drawings, project cost estimates;
7. Prepare and assemble bid documents, which includes the project manual and drawings; and,
8. Bid and award support to the DOA.

#### **60% Contract Documents (Phase 1)**

This task will develop 60% Contract Documents that include plans, technical specifications, and a project cost estimate. A design review meeting will be held with the DOA to review the submitted 60% Contract Documents and project cost estimate.

#### **Phase 1 Deliverables**

- a. PDF copies of the 60% Documents (plans, technical specifications, and project cost estimate)
- b. 60% design review meeting minutes

#### **100% Contract Documents (Phase 2)**

AECOM will incorporate comments provided by the DOA at the 60% review meeting and further develop the plans, specifications, and project cost estimate into the 100% Contract Documents.

#### **Phase 2 Deliverables**

- a. PDF copies of the 100% Documents (plans, front end and technical specifications, maintenance of traffic plans, and cost estimate)
- b. PDF copies of the Permit Documents to be electronically submitted to Palm Beach County PZ&B
- c. 100% review meeting minutes

#### **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 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.

**Deliverables**

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

**Assumptions:**

- DOA will provide all record documents applicable to this task.
- DOA will pay for all permitting costs.
- The DOA will submit the permit documents to the County PZ&B.
- 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.
- DOA will provide access to a mechanical lift, if access to high areas is required.
- 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.
- 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.

**Deliverables and Estimated Duration**

<b>Deliverable</b>	<b>Days From NTP</b>
<b>60% Contract Documents</b>	<b>90 Days</b>
<b>100% Construction / Permitting Documents</b>	<b>120 Days</b>
<b>Bid Documents</b>	<b>134 Days</b>

Table B  
 Labor/Free Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 88 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)										Fee Estimate (\$)		
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total			
<b>PHASE 1 - CONTRACT DOCUMENTS (60% SUBMITTAL)</b>	<b>24</b>	<b>104</b>	<b>301</b>	<b>242</b>	<b>264</b>	<b>16</b>	<b>906</b>	<b>\$138,644</b>	<b>\$5,000</b>	<b>\$143,644</b>			
Design Kick-Off Meeting		2	2	2				\$ 1,098	\$ -	\$ 1,098			
Data Collection, Site Visit, and Review of Existing Conditions		8	6	16				\$ 4,988	\$ 5,000	\$ 9,988			
Develop 60% Submittal								\$ -	\$ -	\$ -			
<b>LTG 3</b>													
General Notes		2	4	4	6		16	\$ 2,236	\$ -	\$ 2,236			
Deficiency Map - 7 Plan Views		4	32	16	24		76	\$ 10,868	\$ -	\$ 10,868			
Joint Repair and Replacement Details (expansion joints, flange-to-flange joints, seal around columns)		2	12	8	8		30	\$ 4,350	\$ -	\$ 4,350			
Spall Repair Detail (with and without exposed rebar)		2	6	3	2		13	\$ 2,124	\$ -	\$ 2,124			
Beam Flange Repair Details		2	12	8	8		30	\$ 4,350	\$ -	\$ 4,350			
Deck Topping Surface Exposed Rebar		1	4	8	2		15	\$ 2,113	\$ -	\$ 2,113			
Repair/Repaint Corroded Arch Panel Metal Connector Plates		1	2	2	1		6	\$ 940	\$ -	\$ 940			
Grade Slab Crack Repair		2	6	4	2		14	\$ 2,244	\$ -	\$ 2,244			
Special Repair - Large Voids at beam supports (2 Locations)		2	10	6	4		22	\$ 3,390	\$ -	\$ 3,390			
Special Repair - 5th Level Col F-9 large spall in flange (drain pipe present)		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393			
Special - Drain Pipe Cleanout Notes		1	4	2	1		8	\$ 1,304	\$ -	\$ 1,304			
<b>LTG 2</b>													
General Notes		2	8	2	4		16	\$ 2,546	\$ -	\$ 2,546			
Deficiency Map - 4 Plan Views		4	20	12	10		46	\$ 6,958	\$ -	\$ 6,958			
Joint Repair and Replacement Details (expansion joints & flange-to-flange joints)		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393			
Spall Repair Detail (with and without exposed rebar)		1	2	1	2		6	\$ 909	\$ -	\$ 909			
Beam Flange Repair Details		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393			
Deck Topping Surface Exposed Rebar		1	2	1	2		6	\$ 909	\$ -	\$ 909			
Repair/Repaint Corroded Metal Base Plate - Signs		1	3	2	2		8	\$ 1,211	\$ -	\$ 1,211			
Grade Slab Crack Repair		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393			
Special - Cover Plate Roof Exp Joint Notes		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393			

Table B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 89 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
STG							15	\$ 2,426	\$ -	\$ 2,426
General Notes		2	7	4	2		38	\$ 5,186	\$ -	\$ 5,186
Deficiency Map - 4 Plan Views		2	12	12	12		7	\$ 1,029	\$ -	\$ 1,029
Roof Joint Repair Details		1	2	2	2		9	\$ 1,393	\$ -	\$ 1,393
Strip Seal and Header Joint Repair Details		1	4	2	2		9	\$ 1,393	\$ -	\$ 1,393
Trench Drain Header Repair Details		1	4	2	2		6	\$ 909	\$ -	\$ 909
Lower Level Flange-to-Flange Joint Spall Repair Detail		1	2	1	1		8	\$ 1,211	\$ -	\$ 1,211
Spall Repair Detail (with and without exposed rebar)		1	3	2	2		9	\$ 1,393	\$ -	\$ 1,393
Beam Flange Repair Details		1	4	2	2		6	\$ 847	\$ -	\$ 847
Deck Topping Crack and Exposed Surface Rebar Repair Detail		1	1	2	2		5	\$ 600	\$ -	\$ 600
Repair/Repaint Corroded Arch Panel Metal Connector Plates		0	1	2	2		14	\$ 2,244	\$ -	\$ 2,244
Special Repair - 5th Level Col KK-46 Cored Holes with Exposed Rebar		2	6	4	4		18	\$ 2,786	\$ -	\$ 2,786
Special Repair - 5th Level Col KK-46 Shear Cracks in Inverted Tee Beam		2	8	4	4		18	\$ 2,786	\$ -	\$ 2,786
Special Repair - 5th Level Col Line 48 South Bay - Large Crack in C/P Beam		2	8	4	4		18	\$ 2,786	\$ -	\$ 2,786
Special Repair - 6th Level Col KK-46 Large Spall with Exposed Rebar at bottom of column		2	8	4	4		66	\$ 8,750	\$ -	\$ 8,750
<b>REPLACE JOINTS SHORT TERM PARKING GARAGE</b>		8	12	16	16		112	\$ 13,340	\$ -	\$ 13,340
Develop Existing Condition Plans and Details (Joints)		8	12	32	32		34	\$ 4,334	\$ -	\$ 4,334
Develop Proposed Plans and Details (Joints)		2	8	8	8		18	\$ 2,910	\$ -	\$ 2,910
Develop MOT (Joint Installation)		2	8	8	8		40	\$ 5,220	\$ -	\$ 5,220
Develop Specifications (Joint Installation)		4	4	4	4		36	\$ 5,820	\$ -	\$ 5,820
Assemble / Submit 60% Contract Documents		8	8	16	16		10	\$ 1,702	\$ -	\$ 1,702
QA		24	4	4	4		24	\$ 3,156	\$ -	\$ 3,156
Cost Estimate		4	16	4	4		16	\$ 2,048	\$ -	\$ 2,048
DOA 60% Review Meeting		2	4	4	4		10	\$ 1,702	\$ -	\$ 1,702
Coordination and Task Management		4	4	4	4		16	\$ 2,048	\$ -	\$ 2,048

Table B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task L-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 89 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)							Fee Estimate (\$)	
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses
PHASE 2 CONTRACT DOCUMENTS (100% SUBMITTAL)	0	86	198	153	169	16	654	\$98,903	\$0
Develop 100% Submittal									
LTG 3									
General Notes		1	4	2	2		9	\$ 1,393	\$ -
Deficiency Map - 7 Plan Views		4	16	12	10		42	\$ 6,230	\$ -
Joint Repair and Replacement Details (expansion joints, flange-to-flange joints, seal around columns)									
Spall Repair Detail (with and without exposed rebar)		2	8	4	4		18	\$ 2,786	\$ -
Beam Flange Repair Details		1	2	2	2		7	\$ 1,029	\$ -
Deck Topping Surface Exposed Rebar		2	8	4	4		18	\$ 2,786	\$ -
		1	2	2	2		7	\$ 1,029	\$ -
Repair/Repaint Corroded Arch Panel Metal Connector Plates									
		1	2	2	2		7	\$ 1,029	\$ -
Grade Slab Crack Repair		1	4	2	2		9	\$ 1,393	\$ -
Special Repair - Large Voids at beam supports (2 Locations)		2	6	4	4		16	\$ 2,422	\$ -
Special Repair - 5th Level Col f-9 large spall in flange (drain pipe present)		1	4	2	2		9	\$ 1,393	\$ -
Special - Drain Pipe Cleanout Notes		1	2	1	2		6	\$ 909	\$ -
LTG 2									
General Notes		1	4	2	2		9	\$ 1,393	\$ -
Deficiency Map - 4 Plan Views		2	12	4	4		22	\$ 3,514	\$ -
Joint Repair and Replacement Details (expansion joints & flange-to-flange joints)									
Spall Repair Detail (with and without exposed rebar)		1	2	1	1		6	\$ 909	\$ -
Beam Flange Repair Details		1	2	2	2		6	\$ 909	\$ -
Deck Topping Surface Exposed Rebar		1	2	1	1		6	\$ 909	\$ -
Repair/Repaint Corroded Metal Base Plate - Signs		1	2	2	2		6	\$ 909	\$ -
Grade Slab Crack Repair		1	2	2	2		7	\$ 1,029	\$ -
Special - Cover Plate Roof Exp Joint Notes		1	2	2	2		7	\$ 1,029	\$ -
STG									
General Notes		1	2	2	2		7	\$ 1,029	\$ -
Deficiency Map - 4 Plan Views		2	12	8	8		30	\$ 4,350	\$ -
Roof Joint Repair Details		1	2	1	1		6	\$ 909	\$ -
Strip Seal and Header Joint Repair Details		1	2	2	2		7	\$ 1,029	\$ -
Trench Drain Header Repair Details		1	2	1	1		6	\$ 909	\$ -
Lower Level Flange-to-Flange Joint Spall Repair Detail		1	2	2	2		6	\$ 909	\$ -
Spall Repair Detail (with and without exposed rebar)		1	2	2	2		6	\$ 909	\$ -
Beam Flange Repair Details		1	1	1	2		6	\$ 847	\$ -



Table B Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-047: PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 89 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
Deck Topping Crack and Exposed Surface Rebar Repair Detail		1	2	1	2		6	\$ 909	\$ -	\$ 909
Repair/Repaint Corroded Arch Panel Metal Connector Plates		1	2	1	2		6	\$ 909	\$ -	\$ 909
Special Repair - 5th Level Col KK-46 Cored Holes with Exposed Rebar		1	2	2	2		7	\$ 1,029	\$ -	\$ 1,029
Special Repair - 5th Level Col KK-46 Shear Cracks in Inverted Tee Beam		1	4	4	2		9	\$ 1,393	\$ -	\$ 1,393
Special Repair - 5th Level Col Line 48 South Bay - Large Crack in C/P Beam		1	4	4	2		9	\$ 1,393	\$ -	\$ 1,393
Special Repair - 6th Level Col KK-46 Large Spall with Exposed Rebar at bottom of column		1	4	4	2		9	\$ 1,393	\$ -	\$ 1,393
<b>REPLACE JOINTS SHORT TERM PARKING GARAGE</b>										
Develop Existing Condition Plans and Details (Joints)		4	8	16	15		43	\$ 5,699	\$ -	\$ 5,699
Develop Proposed Plans and Details (Joints)		4	8	16	40		68	\$ 7,924	\$ -	\$ 7,924
Develop MOT (Joint Installation)		1	4	4	8		17	\$ 2,167	\$ -	\$ 2,167
Develop Specifications (Joint Installation)		1	4	4	4		5	\$ 975	\$ -	\$ 975
Assemble / Submit 100% Contract Documents		4	4	4	16		28	\$ 3,620	\$ -	\$ 3,620
Specifications Not Covered by FDOT Standard Specs		4	12	12	0		28	\$ 4,612	\$ -	\$ 4,612
QA		15	4	4	0		52	\$ 11,464	\$ -	\$ 11,464
Cost Estimate		4	16	16	0		36	\$ 5,820	\$ -	\$ 5,820
DOA 100% Review Meeting		2	4	4	4		10	\$ 1,702	\$ -	\$ 1,702
Coordination and Task Management		4	4	4	4	16	24	\$ 3,156	\$ -	\$ 3,156

Table B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task L-21-PBI-A-047: PBI Repairs to Short-Term and Long-Term Parking Garages 2 and 3

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 88 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
<b>BIDDING PHASE</b>	0	18	20	0	0	20	68	\$ 9,886	\$ 0	\$ 9,886
Submit Bid Documents		4	4				8	\$ 1,716	\$ -	\$ 1,716
Coordination and Task Management		2	2				12	\$ 1,578	\$ -	\$ 1,578
Prepare for and Attend Pre-Bid Meeting		2	4				10	\$ 1,582	\$ -	\$ 1,582
Attend and Contractor Questions		8	8				24	\$ 4,152	\$ -	\$ 4,152
Bid Recommendation Letter		2	2				4	\$ 858	\$ -	\$ 858
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	208	519	395	423	52	1,617	247,433	5,000	252,433
<b>Subconsultant Fees</b>										
<b>Total Fee - Subconsultants</b>										
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>										

Lump Sum \$ 247,433.00  
 T&M \$ -  
 Expenses \$ 5,000.00  
 Total \$ 252,433.00

Prepared by: AECOM Technical Services, Inc.

## EXHIBIT A-7

Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021

**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-7**

Miscellaneous Architectural, 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-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) provide services associated with the Update Stormwater Pollution Prevention Plan (SWPPP) 2021 Project (Project) for the Palm Beach County Department of Airports (DOA).

**PROJECT TEAM**

The Project Team for this task includes:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project Management and Map Updates
Cyriacks Environmental Consulting Services, Inc. (CECOS)	SWPPP Update, compliance inspections, reports, and SWPPP Training

**PROJECT UNDERSTANDING**

The National Pollutant Discharge Elimination System (NPDES) Program is administered by the U.S. Environmental Protection Agency (EPA) under the Authorization of the Clean Water Act (33 United States Code 1251) and is designed to regulate the discharge of point source pollution into Waters of the United States. Requirements of the program are stipulated in Title 40 of the Code of Federal Regulations, Parts 122 through 124. The State of Florida has obtained the approval to operate its own NPDES program through the Florida Department of Environmental Protection (FDEP), in lieu of a Federal program. As a transportation facility that discharges stormwater to State surface waters, the four airports managed by the DOA are required to obtain and operate under the conditions of an NPDES Sector S Multi-Sector Generic Permit (MSGP), issued effective January 9, 2021 and the Notice of Intent (NOI) for coverage under this MSGP must be renewed every 5 years. In order for the DOA to follow the State's NPDES regulatory requirements, a Stormwater Pollution Prevention Plan is also required to be updated every 5 years.

Palm Beach County Airports are required to have an FDEP NPDES Multi-Sector General Permit (MSGP) per Sector S – Airport Transportation Facilities of the permitting guidelines. The NPDES MSGP Permits for the four (4) Palm Beach County Airports were renewed in January 2021. Renewals of the permits are required every five years to stay in compliance with the FDEP’s rules and regulations. As indicated in Part 4 of the Sector S Fact Sheet and Part 3 of the Sector S Permit Language a SWPPP, which provides details about discharges associated with industrial activity from vehicle/aircraft maintenance areas and/or equipment cleaning areas, is required as part of the NPDES Multi-Sector Generic Permit.

## **SECTION I - SCOPE OF WORK**

Our complete scope of work is presented below.

### Task 1 – Inspections, Compliance Inspection Reports Revisions, and Training

AECOM Team will conduct an annual permit compliance inspection of each industrial tenant and sub-tenants, fuel farms and DOA maintenance facilities (PBI, only) at the four (4) Palm Beach County Airports (PBI ~ 61 inspections; LNA ~29 inspections; F45 ~9 inspections; PHK – 2 inspections. [Note: many tenants have more than one facility/building]. This task includes conducting the 2021 annual compliance inspections, preparing the inspection forms, photographs, conducting the 2021 training workshop for employees and tenants, and preparing the Annual Compliance Inspection Reports for each airport. Each are detailed below.

#### 1.1 In-House Data Collection

Upon receipt of the Notice to Proceed, CECOS will forward a Request for Information (RFI) letter to the DOA for the following information associated with each airport:

- Updated contact information for the members of the SWPPP Team;
- Updated list of tenants and their contact information;
- Preventive maintenance records;
- Procedural changes to spill response and containment;
- Spill Reports for additional spills occurring in 2021;
- Facility Response Plan (if available);
- Update Spill Prevention, Control, and Countermeasure (SPCC) Plans.

#### 1.2 Tenant Questionnaire and Notification

AECOM Team will coordinate with PBCDOA to obtain the latest tenant list. CECOS will update and distribute a questionnaire to verify the tenant's information, identify the type of industrial activities that are currently being conducted in the leasehold, compile a preliminary list of the types of significant materials used and stored in the facility, and compile a preliminary list of Best Management Practices (BMPs) that are currently being employed by the new tenant. Tenants will also be requested to provide as-built connections, if needed.

Prior to the 2021 annual compliance inspections, AECOM Team will provide the DOA with the draft Tenant Notification of Inspection letter and NPDES Compliance Commitment Certificate. These documents will be reviewed and approved by DOA prior to distribution to the tenants and DOA Maintenance. AECOM Team will distribute the letter via email on behalf of the DOA. Emails will be tracked and notification by US mail will occur if no indication of tenant acknowledgement is received.

Assumptions:

- DOA will provide Safety Data Sheets (SDS) of significant materials for Airport operated facilities. Significant materials are defined as raw materials, fuels, finished materials such as diesel, gasoline, petroleum products, hydraulic fluid, fertilizer, pesticide, herbicides, sealants, and paint; and waste products that have the potential to be released with stormwater discharges;
- AECOM Team will review the available as-built plans of new facilities constructed at all airports since the last Airport Layout Plan (ALP) and Drainage Master Plan updates at DOA's file room;
- AECOM will provide updates to Drainage and Basin Delineation Maps for all airports, as needed and based on conditions observed in the field.

1.3 Annual Site Compliance Inspections

AECOM Team will conduct the 2021 annual site compliance inspections to coincide with the NPDES outfall inspections, and airports facility and tenant inspections for each Airport. During the annual site compliance inspections, AECOM Team will:

- Field verify identified potential pollutant sources;
- Identify new potential pollutant sources that resulted from recent development projects at the Airports, since the last SWPPP update;
- Request as-builts from tenants for stormwater connections, etc. and field verify as-built maps of structures and facilities that were constructed after the last SWPPP update, necessary for updating the Drainage and Basin Maps;
- Complete draft inspection checklist;
- Photograph and document the location of new and/or modified drainage patterns and structures;
- Review and photograph current conditions at each Airport; and
- Verify, photograph, and evaluate current stormwater controls.

1.4 Visual NPDES Permitted Drainage Structure Inspections

AECOM Team will perform a visual inspection for each NPDES permitted outfall at each airport. This inspection will document the condition of the structure and visually determine whether the discharge is stormwater runoff or from some other sources that may potentially be an illicit discharge. If an illicit or non-stormwater discharge is identified and further investigation is necessary, additional investigative services will be performed under a separate task authorization. As a part of this inspection, additional drainage structures that are located near buildings or facilities will be inspected at each of the airports to determine the condition of structure, whether it is functioning, blocked or flow is impeded; or if the structure requires maintenance and/or repair. The results of the drainage structure inspections will be documented in the Annual Compliance Inspection Report for each airport. Cost estimates for maintenance and repair activities are not included in this scope of services and if necessary, will be performed under a separate task authorization.

1.5 Tenant and DOA Facility Inspections

AECOM Team will perform industrial tenant and DOA Facility Inspections in conjunction with the annual compliance and NPDES permitted drainage structure inspections, which will consist of tenant leased hangars, buildings, and DOA Facilities. The inspections will be conducted to field verify the type of industrial activity being performed in the hangars or buildings, identify potential sources of stormwater pollution and BMPs being implemented, compile a list of general significant materials in hangars or buildings, and document the storage locations of these

materials and waste disposal methods. As a part of this inspection, potential stormwater connections that are located in or adjacent to the buildings/ facilities will be inspected to determine the condition of structure, whether it is functioning, blocked or flow is impeded; or if the structure requires maintenance and/or repair. As-built drawings will be requested from the tenants to assist in determining permitted connections. This information will be documented in the Annual Compliance Inspection Reports.

**Assumptions:**

- The Tenant and DOA Facility Inspections will be performed concurrently with the non-stormwater discharge and annual compliance inspections.
- Tenants are responsible for providing as-built drawings, when requested.
- Hangars or buildings that are inaccessible at the time of inspection will not be inspected and will be noted as "Inaccessible" in the Inspection Reports.

**1.6 Annual Compliance Inspection Report**

AECOM Team will update and conduct a detailed quality control review on the Annual Compliance Inspection Reports with the following:

- Date of Inspection;
- Update tenant list and tables;
- Finalize inspection checklist and BMP forms;
- Results of the visual Non-Stormwater Discharge Inspections including photographs and signed inspection forms from the non-stormwater discharge inspections;
- Results of the tenant inspections including photographs and signed completed industrial tenant inspection forms, tenant questionnaire, and NPDES compliance certificate for each tenant;
- Results of the DOA facility inspections, i.e. fences, waste management, parking areas, buildings, and aprons;
- Non-Compliance certification form for each airport detailing non-compliance issues observed during inspections.
- Summary of noncompliance issues by tenant

**Assumptions:**

- The DOA will provide comments on the revised Inspection Reports to AECOM/CECOS within 15 calendar days of receiving the Reports;
- DOA will receive Draft reports in electric format;
- DOA will receive two (2) hard copies of each of the Final Inspection Reports; and,
- An electronic copy of final revised Inspection Reports in both Microsoft Word and Adobe Acrobat format will be provided to the DOA.

**1.7 Tenant Compliance Coordination**

AECOM Team will coordinate with the tenants at each airport to provide the results of the inspections. The results will be e-mailed to the tenants on behalf of DOA and the results will indicate the types of BMPs that were implemented or that are recommended for each facility necessary for compliance with the NPDES permits for each airport. In addition, tenants with coverage under the State's Multi-Sector General Permits (MSGPs) will use the result of the inspections to comply with their terms and conditions of the permit. The inspection result package will contain the following items:

1. Cover letter on DOA letterhead;
2. Industrial Tenant Inspection Checklist;

3. Applicable BMPs Checklist(s);
4. Identification of non-compliance issues and time frame to correct and notify DOA of corrections.

Deliverables:

A Tennant Correspondence Binder documenting correspondence with tenants will be prepared and submitted to DOA (two (2) hard copies, electronically and on CD).

Task 2 - Training Workshop

AECOM Team will conduct a total of two training workshops: one (1) virtual and one (1) in person training workshop to comply with SWPPP requirements. The purpose of the training workshop is to educate Airport staff and tenants regarding the Stormwater Management Pollution Prevention Program and comply with the training requirement of the DOA's MSGP for each Airport.

Assumptions:

- DOA will provide a meeting space at each of the Airports at no cost to AECOM;
- Two (2) training classes will be held after the annual compliance inspections are completed;
- The training classes will be approximately 1 - 1.5 hours in length including the test;
- One virtual training workshops will be held for all airports.
- One in person training workshop will be held at PBI Airport to adhere to CDC Covid-19 guidelines.
- PowerPoint handouts will be reproduced for the in person training workshop based upon the number of industrial use tenants. Electronic files will also be provided.

Deliverables:

- Fifty (50) training booklets, examination forms, and certificates of attendance for the Palm Beach International Airport (PBI);
- Ten (10) training booklets, examination forms, and certificates of attendance for the North Palm Beach County General Aviation Airport (F45);
- Twenty (20) training booklets, examination forms, and certificates of attendance for the Palm Beach County Park Airport (Lantana);
- One (1) training booklet, examination form, and certificate of attendance for the Palm Beach County Glades Airport (Pahokee).
- DOA will receive two (2) hard copy and an electronic copy of the Training materials (Microsoft PowerPoint presentation, a training handout, a class test questionnaire, and a certificate of attendance)

Task 3 – Compliance Follow up

AECOM Team will review the inspection results and in coordination with PBCDOA identified tenants/facilities that require follow up to ensure compliance. Follow ups will include letters requesting documentation of the addressed non-compliance issues within 30 days of the initial inspection. Documentation must be provided as a detailed list stating how non-compliance issues have been addressed along, with photographic evidence of each correction. If the non-compliance issues have not been addressed, an action plan detailing how non-compliance issues will be addressed and an implementation schedule will be requested. CECOS will request all forms of documentation to be signed by the station/general manager or by a designee. In addition, CECOS will conduct follow up inspections to determine/verify if non-compliant issue(s) have been addressed.



Assumptions

- PBI - Up to 25 sites will require a re-inspection to determine compliance.
- LNA- Up to 16 sites will require a re-inspection to determine compliance.
- F45 - Up to 4 sites will require a re-inspection to determine compliance.
- PHK - One site will require a re-inspection to determine compliance.

Task 4 – Project Coordination

This task involves coordination between AECOM Team and the DOA throughout the duration of the contract (i.e., phone calls, emails, etc.). This task also includes preparing monthly progress reports of the status of task activities, scheduling, file management and project management activities.

**PROJECT SCHEDULE**

AECOM is scheduled to complete this project within 270 Calendar Days following receipt of the Notice to Proceed.

**PROJECT DELIVERABLES**

Project Deliverables are as described in the above-mentioned Task 1 through 4.

**PROJECT ASSUMPTIONS**

1. In the event that the DOA and AECOM believe it to be in the best interests of the Project that additional 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.
2. The DOA will be responsible to provide all necessary information environmental documents preparation described in this proposal, and any other information that could be required.
3. DOA shall pay additional compensation associated with efforts not specified in this proposal, if required. AECOM will notify the DOA in advance if this situation arises.
4. The proposal, scope of work, schedule and cost estimate has been prepared according to the information provided by the DOA. These may be adjusted according to the requirements and progress of the project and any additional effort that may be required.
5. The cost of the proposal does not include any activity related to other permit applications/modifications not defined in this scope, amendments, mitigation, restoration, and laboratory analysis, permit or application fees among others.
6. All environmental documents (reports) are subject to one round of revisions by the DOA.

Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021  
 Labor/Fee Estimate Summary - AECOM

Billing Rate: \$ 247 \$ 181 \$ 166 \$ 120 \$ 90

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Project Manager	CC Reviewer	Senior Engineer	Project Engineer	Clerical	Total	Labor	Expenses	Total	
1.0 Inspections, Compliance Inspection Reports Revisions, and Training (4 reports)	12	16	22	38	2	90	\$ 14,670.00	\$ 200.00	\$ 14,870.00	
1.1 In-House Data Collection	2	0	0	4	0	6	\$ 974.00	\$ -	\$ 974.00	
1.2 Tenant Questionnaire and Notification	2	0	2	2	0	6	\$ 1,104.00	\$ -	\$ 1,104.00	
1.3-1.5 Annual Compliance, Visual NPDES Permitted Drainage Structure, Tenant and DOA Facility Inspections, Drainage Map Updates	2	4	8	20	2	36	\$ 5,278.00	\$ 200	\$ 5,478.00	
1.6 Annual Compliance Inspection Report	4	12	12	0	0	28	\$ 5,380.00	\$ -	\$ 5,380.00	
1.7 Tenant Compliance Coordination	2	0	0	4	0	6	\$ 974.00	\$ -	\$ 974.00	
2.0 Training Workshop	0	0	0	4	0	4	\$ 480.00	\$ -	\$ 480.00	
3.0 Compliance Follow-Up	0	0	0	4	0	4	\$ 480.00	\$ -	\$ 480.00	
4.0 Client and Project Coordination	10	0	14	16	8	48	\$ 7,700.00	\$ -	\$ 7,700.00	
Coordination Meeting	2	0	2	4	0	8	\$ 1,344.00	\$ -	\$ 1,344.00	
Task Management and Subconsultant Coordination	8	0	12	12	8	40	\$ 6,356.00	\$ -	\$ 6,356.00	
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>22</b>	<b>16</b>	<b>36</b>	<b>64</b>	<b>10</b>	<b>138</b>	<b>\$ 22,970.00</b>	<b>\$ 200.00</b>	<b>\$ 22,970.00</b>	

ASSUMPTIONS:

Subconsultant Fees	
1 Total Subcontractor Fee - CECOS (US)	\$ 118,455.78
Total Subcontractor Fee - CECOS (Expenses)	\$ 3,200.00
<b>Total</b>	<b>\$ 144,226.78</b>

Lump Sum	\$ 140,825.78
Expenses	\$ 3,400.00
<b>Total</b>	<b>\$ 144,225.78</b>

**GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 144,226.78**

Prepared by: AECOM Technical Services, Inc.



March 28, 2021,  
June 1, 2021 R1

Ms. Amy Eason, P.E.  
AECOM  
2090 Palm Beach Lakes Blvd., Suite 600  
West Palm Beach, FL 33409

**Re: Environmental Services Proposal**  
Florida Department of Environmental Protection (FDEP)  
National Pollutant Discharge Elimination System (NPDES) Permit 2021 Annual Update  
Palm Beach County Department of Airports (PBCDOA)

Dear Ms. Eason:

Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit this fee proposal to update, as needed, the Department of Airports' current Stormwater Pollution Prevention Plan (SWPPP), conduct the annual permit compliance inspections at each airport, produce reports, and provide SWPPP training to the tenants at each airport.

## **PROJECT UNDERSTANDING**

Each Palm Beach County Airport is required to have an FDEP NPDES Multi-Sector General Permit (MSGP) per Sector S – Airport Transportation Facilities of the permitting guidelines. The NPDES MSGP Permits for the Palm Beach County airports were renewed in January 2021. Renewals of the permits are required every five years to stay in compliance with the FDEP's rules and regulations. As indicated in Part 4 of the Sector S Fact Sheet and Part 3 of the Sector S Permit Language a SWPPP, which provides details about discharges associated with industrial activity from vehicle/aircraft maintenance areas and/or equipment cleaning areas, is required as part of the NPDES Multi-Sector Generic Permit.

## **SECTION I - SCOPE OF WORK**

### **TASK 1 – Inspections, Compliance Inspection Reports Revisions, and Training**

CECOS will conduct an annual permit compliance inspection of each industrial tenant and sub-tenants, fuel farms and DOA maintenance facilities (PBI, only) at the four (4) Palm Beach County Airports (PBI ~ 61 inspections; LNA ~29 inspections; F45 ~9 inspections; PHK – 2 inspections. [Note: many tenants have more than one facility/building]. This task includes conducting the 2021 annual compliance inspections, preparing the inspection forms, photographs, conducting the 2021 training workshop for employees and tenants, and preparing the Annual Compliance Inspection Reports for each airport.

#### **1.1 In-House Data Collection.**

Upon receipt of the Notice to Proceed, CECOS will forward a Request for Information (RFI) letter to DOA for the following information associated with each airport:

- Updated contact information for the members of the SWPPP Team;
- Updated list of tenants and their contact information;
- Preventive maintenance records;
- Procedural changes to spill response and containment;

- Spill Reports for additional spills occurring in 2021;
- Facility Response Plan (if available);
- Update Spill Prevention, Control, and Countermeasure (SPCC) Plans.

## **1.2 Tenant Questionnaire and Notification**

CECOS will coordinate with PBCDOA to obtain the latest tenant list. CECOS will update and distribute a questionnaire to verify the tenant's information, identify the type of industrial activities that are currently being conducted in the leasehold, compile a preliminary list of the types of significant materials used and stored in the facility, and compile a preliminary list of Best Management Practices (BMPs) that are currently being employed by the new tenant. Tenants will also be requested to provide as-built connections, if needed.

Prior to the 2021 annual compliance inspections, CECOS will provide the DOA with the draft Tenant Notification of Inspection letter and NPDES Compliance Commitment Certificate. These documents will be reviewed and approved by DOA prior to distribution to the tenants and DOA Maintenance. CECOS will distribute the letter via email on behalf of the DOA. Emails will be tracked and notification by US mail will occur if no indication of tenant acknowledgement is received.

### **Assumptions:**

- DOA will provide Safety Data Sheets (SDS) of significant materials for Airport operated facilities. Significant materials are defined as raw materials, fuels, finished materials such as diesel, gasoline, petroleum products, hydraulic fluid, fertilizer, pesticide, herbicides, sealants, and paint; and waste products that have the potential to be released with stormwater discharges;
- CECOS will review the available as-built plans of new facilities constructed at all airports since the last Airport Layout Plan (ALP) and Drainage Master Plan updates at DOA's file room;
- AECOM will provide updates to Drainage and Basin Delineation Maps for all airports, as needed and based on conditions observed in the field.

## **1.3 Annual Site Compliance Inspections**

CECOS, will conduct the 2021 annual site compliance inspections to coincide with the NPDES outfall inspections, and airports facility and tenant inspections for each Airport. During the annual site compliance inspections, CECOS will:

- Field verify identified potential pollutant sources;
- Identify new potential pollutant sources that resulted from recent development projects at the Airports, since the last SWPPP update;
- Request as-builts from tenants for stormwater connections, etc. and field verify as-built maps of structures and facilities that were constructed after the last SWPPP update, necessary for updating the Drainage and Basin Maps;
- Complete draft inspection checklist;
- Photograph and document the location of new and/or modified drainage patterns and structures;
- Review and photograph current conditions at each Airport; and
- Verify, photograph, and evaluate current stormwater controls.

## **1.4 Visual NPDES Permitted Drainage Structure Inspections**

CECOS will perform a visual inspection for each NPDES permitted outfall at each airport. This inspection will document the condition of the structure and visually determine whether the discharge is stormwater runoff or from some other sources that may potentially be an illicit discharge. If an illicit or non-stormwater discharge is identified and further

investigation is necessary, additional investigative services will be performed under a separate task authorization. As a part of this inspection, additional drainage structures that are located near buildings or facilities will be inspected at each of the airports to determine the condition of structure, whether it is functioning, blocked or flow is impeded; or if the structure requires maintenance and/or repair. The results of the drainage structure inspections will be documented in the Annual Compliance Inspection Report for each airport. Cost estimates for maintenance and repair activities are not included in this scope of services and if necessary, will be performed under a separate task authorization.

### **1.5 Tenant and DOA Facility Inspections**

CECOS will perform industrial tenant and DOA Facility Inspections in conjunction with the annual compliance and NPDES permitted drainage structure inspections, which will consist of tenant leased hangars, buildings, and DOA Facilities. The inspections will be conducted to field verify the type of industrial activity being performed in the hangars or buildings, identify potential sources of stormwater pollution and BMPs being implemented, compile a list of general significant materials in hangars or buildings, and document the storage locations of these materials and waste disposal methods. As a part of this inspection, potential stormwater connections that are located in or adjacent to the buildings/facilities will be inspected to determine the condition of structure, whether it is functioning, blocked or flow is impeded; or if the structure requires maintenance and/or repair. As-built drawings will be requested from the tenants to assist in determining permitted connections. This information will be documented in the Annual Compliance Inspection Reports.

#### **Assumptions:**

- The Tenant and DOA Facility Inspections will be performed concurrently with the non-stormwater discharge and annual compliance inspections.
- Tenants are responsible for providing as-built drawings, when requested.
- Hangars or buildings that are inaccessible at the time of inspection will not be inspected and will be noted as "Inaccessible" in the Inspection Reports.

### **1.6 Annual Compliance Inspection Report**

CECOS will update and conduct a detailed quality control review on the Annual Compliance Inspection Reports with the following:

- Date of Inspection;
- Update tenant list and tables;
- Finalize inspection checklist and BMP forms;
- Results of the visual Non-Stormwater Discharge Inspections including photographs and signed inspection forms from the non-stormwater discharge inspections;
- Results of the tenant inspections including photographs and signed completed industrial tenant inspection forms, tenant questionnaire, and NPDES compliance certificate for each tenant;
- Results of the DOA facility inspections, i.e. fences, waste management, parking areas, buildings, and aprons;
- Non-Compliance certification form for each airport detailing non-compliance issues observed during inspections.
- Summary of noncompliance issues by tenant.

#### **Assumptions/Deliverables:**

- The DOA will provide comments on the revised Inspection Reports to AECOM/CECOS within 15 calendar days of receiving the Reports;
- DOA will receive Draft reports in electric format;
- DOA will receive two (2) hard copies of each of the Final Inspection Reports; and,
- An electronic copy of final revised Inspection Reports in both Microsoft Word and Adobe Acrobat format will be provided to the DOA.

### **1.7 Tenant Compliance Coordination**

CECOS will coordinate with the tenants at each airport to provide the results of the inspections. The results will be e-mailed to the tenants on behalf of DOA and the results will indicate the types of BMPs that were implemented or that are recommended for each facility necessary for compliance with the NPDES permits for each airport. In addition, tenants with coverage under the State's Multi-Sector General Permits (MSGPs) will use the result of the inspections to comply with their terms and conditions of the permit. The inspection result package will contain the following items:

1. Cover letter on DOA letterhead;
2. Industrial Tenant Inspection Checklist;
3. Applicable BMPs Checklist(s);
4. Identification of non-compliance issues and time frame to correct and notify DOA of corrections.

### **TASK 2 – Training Workshop**

CECOS will conduct a total of two training workshops: one (1) virtual and one (1) in person training workshop to comply with SWPPP requirements. The purpose of the training workshop is to educate Airport staff and tenants regarding the Stormwater Management Pollution Prevention Program and comply with the training requirement of the DOA's MSGP for each Airport.

#### **Assumptions/Deliverables:**

- DOA will provide a meeting space at PBI at no cost to AECOM/CECOS;
- A total of two (2) training classes will be held after the annual compliance inspections are completed;
- The training classes will be approximately 1 - 1.5 hours in length including the test;
- One virtual training workshops will be held for all airports.
- One in person training workshop will be held at PBI Airport to adhere to CDC Covid-19 guidelines.
- PowerPoint handouts will be reproduced for the in person training workshop based upon the number of industrial use tenants. Electronic files will also be provided.
- Up to fifty (50) training booklets, examination forms, and certificates of attendance for the Palm Beach International Airport (PBI);
- Up to twenty (20) training booklets, examination forms, and certificates of attendance for the Palm Beach County Park Airport (LNA);
- Up to ten (10) training booklets, examination forms, and certificates of attendance for the North Palm Beach County General Aviation Airport (F45); Palm Beach County Glades Airport (PHK).
- DOA will receive two (2) hard copy and an electronic copy of the Training materials (Microsoft PowerPoint presentation, a training handout, a class test questionnaire, and a certificate of attendance).
- A Tenant Correspondence Binder documenting correspondence with tenants will be prepared and submitted to DOA - two (2) hard copies, and electronically.

### **TASK 3 – Compliance Follow up**

CECOS will review the inspection results and in coordination with AECOM and PBCDOA identify tenants/facilities that require follow up to insure compliance. Follow ups will include letters requesting documentation of the addressed non-compliance issues within 30 days of the initial inspection. Documentation must be provided as a detailed list stating how non-compliance issues have been addressed along, with photographic evidence of each correction. If the non-compliance issues have not been addressed, an action plan detailing how non-compliance issues will be addressed and an implementation schedule will be requested. CECOS will request all forms of documentation to be signed by the

station/general manager or by a designee. In addition, CECOS will conduct follow up inspections to determine/verify if non-compliant issue(s) have been addressed.

**Assumptions**

- PBI - Up to 25 sites will require a re-inspection to determine compliance.
- LNA - Up to 16 sites will require a re-inspection to determine compliance.
- F45 - Up to 4 sites will require a re-inspection to determine compliance.
- PHK - One site will require a re-inspection to determine compliance.

**TASK 4 – Project Coordination**

This task involves coordination with AECOM and PBCDOA throughout the duration of the contract (i.e., phone calls, emails, etc.). This task also includes preparing monthly progress reports of the status of task activities, scheduling, file management and project management activities.

**SECTION II – FEES**

The lump sum fee (labor) to conduct this work is \$118,455.78. Expenses, which shall be billed separately based on cost, and are estimated not to exceed \$ 3,200.

**SECTION III – ASSUMPTIONS/EXCLUSIONS**

- The PBCDOA/AECOM will be responsible to provide all necessary information environmental documents preparation described in this proposal, and any other information that could be required.
- The PBCDOA/AECOM will be responsible for a prompt review of any document submitted by CECOS in relation with this proposal.
- PBCDOA/AECOM shall pay additional compensation associated with efforts not specified in this proposal, if required. CECOS will notify the PBCDOA/AECOM in advance if this situation arises. Any additional effort shall be negotiated between the PBCDOA/AECOM and CECOS, and must be approved before the required action.
- The proposal, scope of work, schedule and cost estimate has been prepared according to the information provided by the PBCDOA/AECOM. These may be adjusted according to the requirements and progress of the project and any additional effort that may be required.
- The cost of the proposal does not include activities related to other permit applications/modifications not defined in this scope, amendments, mitigation, restoration and laboratory analysis, permit or application fees among others.
- All environmental documents (reports) are subject to one round of revisions by the AECOM and PBCDOA.

We appreciate this opportunity to continue to work with you on this project. If you have any question or need additional information, please do not hesitate to contact the undersigned at (954) 571-0290, or by e-mail at [wc@cecosenvironmental.com](mailto:wc@cecosenvironmental.com).

Very truly yours  
Cyriacks Environmental Consulting Services, Inc

*Wendy Cyriacks*

Wendy Cyriacks  
President

Attachment: Fee Breakdown

Billing Rate: \$ 285.00 \$ 170.00 \$ 123.48 \$ 93.99 \$ 83.92 \$ 75.00

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)		
	Principal Project Manager	Pr. Env Manager	Pr. Env Scientist	Environmental Scientist	GIS Analyst	Admin. Assistant	Total	Labor	Expenses	Total
<b>Palm Beach International Airport</b>										
1.1 In-House Data Collection	28	6	119	214	2	84	453	\$ 49,713.44	\$ 1,150.00	\$ 50,863.44
1.2 Tenant Questionnaire and Notification	0	0	0	2	0	1	3	\$ 283	\$ -	\$ 283
1.3-1.5 Annual Compliance, Visual NPDES Permitted Drainage Structure, Tenant and DOA Facility Inspections	2	0	0	4	0	14	20	\$ 1,956	\$ 150.00	\$ 2,106
1.6 Annual Compliance Inspection Report	1	0	51	60	0	0	112	\$ 12,201	\$ 350.00	\$ 12,551
1.7 Tenant Compliance Coordination	8	6	18	73	2	21	128	\$ 13,866	\$ 350.00	\$ 14,316
2.0 Training Workshop	2	0	0	8	0	20	30	\$ 2,782	\$ -	\$ 2,782
3.0 Compliance Follow-Up	8	0	16	19	0	20	63	\$ 7,381	\$ 300.00	\$ 7,681
	7	0	34	48	0	8	97	\$ 11,184	\$ -	\$ 11,184
<b>North County General Aviation Airport (F45)</b>										
1.1 In-House Data Collection	18	21	10	101	2	39	191	\$ 22,160.43	\$ 600.00	\$ 22,760.43
1.2 Tenant Questionnaire and Notification	0	0	0	1	0	1.0	2	\$ 169	\$ -	\$ 169
1.3-1.5 Annual Compliance, Visual NPDES Permitted Drainage Structure, Tenant and DOA Facility Inspections	2	0	0	2	0	5	9	\$ 1,093	\$ 100.00	\$ 1,193
1.6 Annual Compliance Inspection Report	0	17	0	19	0	0	36	\$ 4,676	\$ 200.00	\$ 4,876
1.7 Tenant Compliance Coordination	4	4	0	42	2	12	64	\$ 6,755	\$ 200.00	\$ 6,955
2.0 Training Workshop	1	0	0	2	0	8	11	\$ 1,053	\$ -	\$ 1,053
3.0 Compliance Follow-Up	7	0	5	13	0	10	35	\$ 4,444	\$ 100.00	\$ 4,544
	4	0	5	22	0	3	34	\$ 3,970	\$ -	\$ 3,970
<b>Palm Beach County Park/Airport (LNA)</b>										
1.1 In-House Data Collection	22	19	35	139	2	54	271	\$ 30,663.55	\$ 1,150.00	\$ 31,813.55
1.2 Tenant Questionnaire and Notification	0	0	0	1	0	1.0	2	\$ 169	\$ -	\$ 169
1.3-1.5 Annual Compliance, Visual NPDES Permitted Drainage Structure, Tenant and DOA Facility Inspections	1	0	0	2	0	9	12	\$ 1,128	\$ 150.00	\$ 1,278
1.6 Annual Compliance Inspection Report	0	13	6	38	0	0	64	\$ 7,387	\$ 400.00	\$ 7,787
1.7 Tenant Compliance Coordination	6	6	6	55	2	9	84	\$ 9,363	\$ 400.00	\$ 9,763
2.0 Training Workshop	2	0	0	5	0	21	28	\$ 2,575	\$ -	\$ 2,575
3.0 Compliance Follow-Up	7	0	4	17	0	8	36	\$ 4,547	\$ 200.00	\$ 4,747
	6	0	12	21	0	6	45	\$ 5,495	\$ -	\$ 5,495
<b>Palm Beach County Glades/Airport (PHK)</b>										
1.1 In-House Data Collection	6	1	0	57	2	18	83	\$ 9,455.78	\$ 200.00	\$ 9,655.78
1.2 Tenant Questionnaire and Notification	0	0	0	1	0	0	1	\$ 47	\$ -	\$ 47
1.3-1.5 Annual Compliance, Visual NPDES Permitted Drainage Structure, Tenant and DOA Facility Inspections	1	0	0	2	0	2	5	\$ 470	\$ 50.00	\$ 520
1.6 Annual Compliance Inspection Report	0	0	0	12	0	0	12	\$ 1,128	\$ 50.00	\$ 1,178
1.7 Tenant Compliance Coordination	2	1	0	23	2	7	35	\$ 3,555	\$ 50.00	\$ 3,605
2.0 Training Workshop	1	0	0	2	0	5	8	\$ 828	\$ -	\$ 828
3.0 Compliance Follow-Up	1	0	0	4	0	4	9	\$ 808	\$ 50.00	\$ 858
	2	0	0	13	0	0	15	\$ 1,619	\$ -	\$ 1,619
<b>3.0 Project Coordination</b>										
Coordination	14	6	6	18	0	4	48	\$ 7,482.56	\$ 100.00	\$ 7,582.56
Project Status	4	4	4	8	0	2	22	\$ 3,136	\$ -	\$ 3,136
Agency Coordination	8	2	2	6	0	2	20	\$ 3,421	\$ -	\$ 3,421
	2	0	0	4	0	0	6	\$ 906	\$ 100.00	\$ 1,006
<b>Total Fee - CEOS</b>	<b>86</b>	<b>53</b>	<b>170</b>	<b>529</b>	<b>6</b>	<b>199</b>	<b>1,048</b>	<b>\$ 118,455.78</b>	<b>\$ 3,200.00</b>	<b>\$ 121,655.78</b>



## EXHIBIT A-8

Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)

**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-8**

Miscellaneous Architectural, Planning, Engineering and Construction Services

**Palm Beach International Airport (PBI)  
Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)**

**OVERVIEW**

The Palm Beach County Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) provide Engineering Services (ES) associated with the Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast). The purpose of this task order is to incorporate an intermediate (10 Year) forecast, that reflects recent changes in aviation demand levels, into the scope of work that is being developed under the Task I-20-PBI-A-035: Stormwater Master Plan Update.

**PROJECT TEAM**

The Team for the Project will consist of:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project management/ planning, drainage and permitting services
A.D.A. Engineering, Inc. (ADA) (SUBCONTRACTOR)	Drainage design services

**PROJECT OBJECTIVE AND APPROACH**

The following sub-sections describe the work and level of effort associated with each task and subtask.

**Task 1 – Task Management and Administration**

Throughout the duration of the study, various activities associated with the management of the study team will occur.

**Task 1.1 – Contract Management AECOM**

This includes all efforts associated with coordinating this project with the DOA including meeting organization, progress reports, and invoicing.

**Task 1.2 - Kick-off Meeting**

An initial meeting with the DOA and team is included to establish the parameters and expectations on the project.

**Task 1.3 – Progress Meetings**

A draft and a final implementation plan will be prepared as deliverables. As part of those deliverables, the team will meet (virtually) with the DOA to provide the findings of the analysis.

**Task 2 – Implementation Plan Update**

AECOM will review and update the Implementation Plan from the PBI Master Plan developed in March 2018 to reflect recent development and update the timing of projects based on changes in aviation demand levels.

**Task 2.1 – Update Aviation Activity Forecast**

The development in the Master Plan is tied to demand triggers therefore, we will perform a high-level analysis that shifts the 2018 Master Plan forecast projections to reflect likely recovery scenarios. We will consider three potential recovery scenarios (optimistic recovery, moderate, and pessimistic recovery) in order better understand when the projects need to be complete.

**Task 2.2 – Assess the Status of the Implementation Plan**

AECOM will assemble a list of projects to include in the plan.

- Inventory the projects identified in the short and intermediate-term implementation plans
- Identify projects that have been completed or are on-going
- Revise project scopes based on subsequent studies (i.e. the GA FIS and Airport Maintenance Facilities)
- Include new projects that were not included in the Master Plan
- Validate the need and timing of the short and intermediate-term projects
- Review the Pavement Management Plan to identify projects that need to be completed in order to maintain the airfield pavements
- Review the Facility Condition Assessment and identify facilities that should be included in the 10-year plan

Upon completion of the assessment, AECOM will develop a table with a list of the projects identified for the Intermediate-Term Implementation Plan and a recommended action associated with each project. AECOM will review the project list with the DOA and get concurrence before proceeding.

**Task 2.3 - Update the Intermediate-Term (10-year) Implementation Plan**

Based on the assessment resulting from Task 2.2, AECOM will update the Intermediate-Term (10-year) Implementation Plan drawing to a style and format consistent with the Master Plan (reference Figure 9.8 on Page A-12-6).

**Task 2.4 – Technical Memorandum**

AECOM will prepare a Technical Memorandum documenting the analysis completed as part of Task 2.1 through 2.3. AECOM will use the Intermediate-Term (10-year) Implementation Plan (ITP) to develop the stormwater master plan.

**Task 3.0 ITP Hydrologic/Hydraulic Modeling and Alternative Analysis**

ADA will perform the following activities to develop an Intermediate-Term (10-year) Implementation Plan (ITP) hydrologic/hydraulic model as a result of the ITP developed by AECOM. The items presented in the ITP will be consistent with items already planned in the ALP of the original scope of work. The purpose of this analysis is to determine which projects

from the ALP should be constructed to support the ITP and determine any intermediate improvements needed until the ALP is realized.

1. Incorporate the ITP projects in the ICPR V4 model developed as part of Task 2. Anticipated projects to be included are as follows and include ancillary pavement and stormwater improvements and are not limited to:
  - Buildings B-1 thru B-15, B-20 thru B-22, C-11, C-25 thru C-27
  - Taxilane W (TXL W)
  - Relocated Taxiway A
  - Taxiway B
  - Taxiway B1
  - Realigned Terminal Apron Taxi-Lane M
  - Taxiway M1
  - Taxiway M2
  - Taxiway D
  - Building B-23 and Future Aviation Development
  - Proposed I-95 On-Ramp
  - Proposed Taxiway L and all connectors to the north
2. Utilize the basin and sub-basin delineations based on the ALP delineations.
3. Utilize the projected sea level and groundwater rise for the ITP planning horizon from the original scope.
4. Utilize the design high water and boundary conditions based on agreed upon sea level and groundwater rise projections from original scope.
5. Revise the basin and sub-basin hydrologic parameters based on the ITP projects:
  - Area
  - Stage-storage
  - Runoff Curve Number
  - Direct Connected Impervious Area
  - Time of Concentration
6. Incorporate the ITP modified basins into the existing conditions model or revert basins from the ALP model back to existing conditions, whichever is the less time consuming.
7. Execute the revised ICPR V4 model for the following design storm events to determine which stormwater management system improvements developed from the ALP model should be constructed to meet the water quality, water quantity, and flood compensation requirements to include in the Conceptual ERP.
  - 5-year, 24-hour
  - 10-year, 24-hour
  - 10-year, 3-day
  - 25-year, 3-day
  - 100-year, 3-day

The ICPR V4 model to be developed as part of this task will be referred to as the ITP model.

It is assumed that AECOM will prepare the required proposed stormwater management system conceptual plans and opinion of probable construction cost estimates.

The results will be included in the modeling technical memorandum for the project as specified in the original scope.

#### **Task 4 – Conceptual Drawing Plans**

Based on the updated ITP, the ITP modeling effort, and the information gathered since the last modification, conceptual plans will be developed on components needed for the primary drainage system for the ITP. CADD drawings from the ALP from Task I-20-PBI-A-035 will be modified to include the elements needed for the ITP. These plans will consolidate the information gathered and proposed. The survey information (topographic and control plan) within the ALP plans will be used for this plan and will be updated with information gathered in the data collection.

The following information is proposed to be included in the ITP conceptual plans and shall be updated with information from the ITP:

- Cover and Index of Drawings
- Program Plan
- Demolition Plan
- Runway Profiles (from the 2008 SWMP, updated per 2018 ALP)
- Taxiway and Connector Profiles (from the 2008 SWMP, updated per 2018 ALP)
- Grading and Drainage Plan (assumes Outparcel assumptions remain from 2008 SWMP)
- Existing Surface Water (determined by aerial)
- Existing drainage culvert map (from 2008 SWMP updated with current information)
- Proposed Drainage Culvert Map (from 2008 SWMP updated with modeling effort)
- Overall Impervious/Pervious Map (update with modeling effort)
- Conceptual Stormwater Basin Delineation Map (update with modeling effort)
- Typical Open Surface Water Sections (update with modeling effort)
- Typical Sections (update 2008 SWMP sections)
- Sedimentation and Erosion Control Plan

#### **Task 5 – Stormwater Master Plan Update**

After compiling the information from the previous tasks, AECOM will add a section to the stormwater master plan document to discuss the ITP. Recommendations will be made for the primary system to accommodate the future TIP as well as including a cost estimate and schedule with the assistance from the DOA.

Based on the projects proposed in the ITP, an engineer's preliminary estimate of probable construction costs will be prepared for the primary stormwater management elements. These costs will be in current year dollars and can be used in budget planning.

A preliminary schedule will be developed for the stormwater management improvements. Collaboration with the DOA is needed to coordinate plans made in the ITP for the future.

For ease of administrating the plan with multiple consultants, summary tables will be prepared in order to track impervious, pervious, and building areas as well as allowable storage within each basin and outparcel and any other requirements that may be needed in order to receive a construction permit through SFWMD. This will help tenants as well as the DOA to have a system to track development at PBI.

**PROJECT SCHEDULE & FEE**

CONSULTANT is scheduled to complete this project will add 90 Calendar Days to Task I-20-PBI-A-035 following receipt of the Notice to Proceed. See attached Lump Sum Fee proposal.

**PROJECT DELIVERABLES**

Project Deliverables are the Intermediate-Term Implementation Plan and associated Technical Memorandum in electronic format (PDF and CAD).

**PROJECT ASSUMPTIONS**

1. Data Collection shall be limited to obtaining existing data in the DOA, Palm Beach County, and FDOT files.
2. The Implementation Plan will be a simplified graphic and will not require the level of detail included in the Airport Layout Plan.
3. Surveying or site visits are not included.
4. ALP Update is not included.
5. Any new projects to be referenced in the Implementation Plan exhibit shall be provided by the DOA in CAD.
6. AECOM will collect all required data to support the modeling effort needed to update the PBI SWMP and prepare the Conceptual ERP application.
7. Outparcel groups included in the current Conceptual ERP will not be modified or evaluated. Therefore, only the modifications proposed within the PBI airport limits will be evaluated.
8. AECOM will prepare the Conceptual ERP application. ADA will only provide support relative to the required hydrologic/hydraulic modeling, water quality requirements and floodplain compensation requirements, based on the information to be included in the Modeling Technical Memorandum.
9. AECOM will prepare all conceptual stormwater management improvements design sketches and develop opinion of probable construction cost.
10. Hydrologic/hydraulic models to be developed as part of this task order will be conceptual to support the Conceptual ERP application and future detailed design projects. Only the primary drainage systems will be included in the model.
11. Only improvements included in the Final ITP will be modeled to ensure maximum allowable discharge and stages as per the current permit.

**Phase 2B (2024-2025)**

As illustrated in Figure 9.B, Phase 2B expand upon the projects completed in Phase 2A and also supports implementation of proposed long-term projects.

The key Phase 2B projects include:

- Expansion of the Golfview site to accommodate relocation of Jet Aviation and Signature Flight Support (II-G-04)
- Relocation of the Atlantic Aviation terminal and 2 hangars to the existing Airport maintenance site (II-G-02)
- Demolition of existing hangars 1636, 1638, and 1640 (II-G-03)

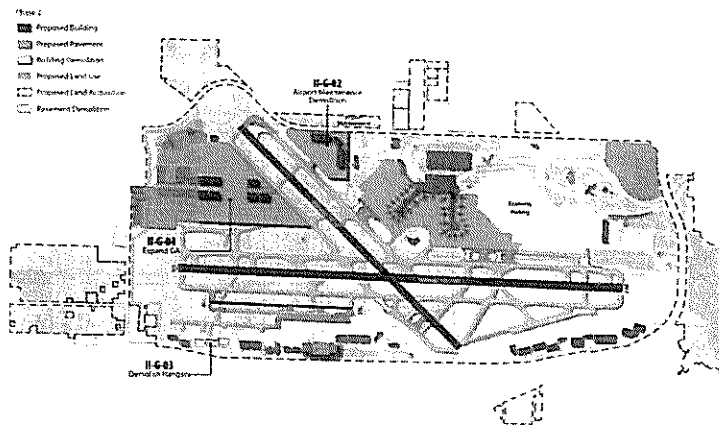


Figure 9.B: Intermediate-Term Implementation Program - Phase 2B (2024-2025)  
Source: AECOM (2019)

Exhibit B-1  
 Labor Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task 1.21-PB1-C-049 PBA: Stormwater Master Plan (Intermediate Forecast)

Billing Rate: 0 \$ 181 \$ 227 \$ 108 \$ 107 \$ 120 \$ 80

Task Description	Labor Estimate (Hours)										Fee Estimate (\$)		
	Qd Reviewer	Senior Project Manager	Project Manager	Senior Planner	Planner	Project Engineer	Critical	Total	Labor	Expenses	Total		
<b>1.0</b> <b>Task Management and Administration</b>													
1.1 Contract Management AECOM	0	2	8	8	5	0	0	20	\$ 3,726.00	\$	\$ 3,726.00		
1.2 Kick-off Meeting		1	2	2	1			4	\$ 864	\$	\$ 864		
1.3 Progress Meetings		1	2	2	1			5	\$ 943	\$	\$ 943		
<b>2.0</b> <b>IMPLEMENTATION PLAN</b>													
2.1 Update Aviation Activity Forecast	10	4	13	10	38	0	0	54	\$ 10,187	\$	\$ 10,187		
2.2 Assess the Status of the Implementation Plan	1	2	4	16	30			52	\$ 7,948	\$	\$ 7,948		
2.3 Update the Intermediate-term Implementation Plan	1	2	2	20	60			103	\$ 13,491	\$	\$ 13,491		
2.4 Technical Memorandum (Draft and Final)	8	2	4	24	40			78	\$ 12,216	\$	\$ 12,216		
<b>3.0</b> <b>TIP Hydraulic/Hydraulic Modeling and Alternative Analysis</b>													
3.1 Hydrographic Model Setup and Analysis	4	4	20	0	0	62	0	80	\$ 1,682.00	\$	\$ 1,682.00		
3.2 Hydrographic Model Setup		1	1			10		17	\$ 2,105	\$	\$ 2,105		
3.3 Hydrographic Model Assessment			1			4		5	\$ 605	\$	\$ 605		
3.4 Hydraulic Evaluation and Analysis			1			2		3	\$ 425	\$	\$ 425		
3.5 Alternative Formulation and Analysis	4	4	8	0	0	20		36	\$ 480	\$	\$ 480		
3.6 Modeling Technical Memorandum			8			20		28	\$ 3,680	\$	\$ 3,680		
<b>4.0</b> <b>CONCEPTUAL PLANS</b>													
4.1 Develop TIP Concept Plans	0	4	8	0	0	60	0	72	\$ 9,432	\$	\$ 9,432		
4.2 Draft Report	1	2	8	0	0	40	0	51	\$ 6,955	\$	\$ 6,955		
4.3 Engineer's Estimate of Probable Cost	1	2	4			20		27	\$ 3,815	\$	\$ 3,815		
4.4 Schedule	1	2	4			20		27	\$ 3,815	\$	\$ 3,815		
4.5 Final Report	1	2	4			4		11	\$ 1,815	\$	\$ 1,815		
<b>Total Fee/AECOM Technical Services, Inc.</b>	<b>10</b>	<b>24</b>	<b>68</b>	<b>105</b>	<b>163</b>	<b>176</b>	<b>0</b>	<b>552</b>	<b>\$ 82,621</b>	<b>\$ 0</b>	<b>\$ 82,621</b>		

Subcontractant Fees

1	Total Subcontractant Fee (ADA 13)	\$ 103,078
	Total Subcontractant Fee (ADA 13)	\$ 0
	Total Subcontractant Fee (ADA 13)	\$ 103,078

Total Fee - Subcontractants: 1 20,120

**GRAND TOTAL FEE - BASIC ENGINEERING SERVICES** 1 103,078

Prepared by: AECOM Technical Services, Inc.



## **Task Order**

### **PALM BEACH COUNTY INTERNATIONAL AIRPORT (PBI) STORMWATER MASTER PLAN (SWMP) UPDATE AMENDMENT**

#### **MODELING AND CONCEPTUAL ENVIRONMENTAL RESOURCES PERMIT (ERP) SUPPORT FOR INTERMEDIATE-TERM (10-YEAR) IMPLEMENTATION PLAN**

A.D.A. Engineering, Inc.

#### **I. Objectives**

The purpose of this task order is for A.D.A. Engineering, Inc. (ADA) to provide hydrologic/hydraulic modeling and alternatives analysis to support AECOM in updating the current PBI SWMP and renew the current Conceptual ERP to conceptually permit the added improvements proposed in the Intermediate-Term (10-Year) Implementation Plan (ITP).

The following sections outline the Scope of Work, Key Assumptions, Work Schedule and Compensation associated with the task order.

#### **II. Scope of Work**

##### ***Task 3.2 – Intermediate ALP Hydrologic/Hydraulic Modeling and Alternative Analysis***

ADA will perform the following activities to develop an Intermediate-Term (10-year) Implementation Plan (ITP) hydrologic/hydraulic model as a result of the ITP developed by AECOM. The items presented in the ITP will be consistent with items already planned in the ALP of the original scope of work. The purpose of this analysis is to determine which projects from the ALP should be constructed to support the ITP and determine any intermediate improvements needed until the ALP is realized.

1. Incorporate the ITP projects in the ICPR V4 model developed as part of Task 2. Anticipated projects to be included are as follows and include ancillary pavement and stormwater improvements and are not limited to:
  - a. Buildings B-1 thru B-15, B-20 thru B-22, C-11, C-25 thru C-27
  - b. Taxi Lane W (TXL W)
  - c. Relocated Taxiway A
  - d. Taxiway B
  - e. Taxiway B1
  - f. Realigned Terminal Apron Taxi-Lane M
  - g. Taxiway M1
  - h. Taxiway M2

- i. Taxiway D
  - j. Building B-23 and Future Aviation Development
  - k. Proposed I-95 On-Ramp
  - l. Proposed Taxiway L and all connectors to the north
2. Utilize the basin and sub-basin delineations based on the ALP delineations.
  3. Utilize the projected sea level and groundwater rise for the ITP planning horizon from the original scope.
  4. Utilize the design high water and boundary conditions based on agreed upon sea level and groundwater rise projections from original scope.
  5. Revise the basin and sub-basin hydrologic parameters based on the ITP projects:
    - Area
    - Stage-storage
    - Runoff Curve Number
    - Direct Connected Impervious Area
    - Time of Concentration
  6. Incorporate the ITP modified basins into the existing conditions model or revert basins from the ALP model back to existing conditions, whichever is the less time consuming.
  7. Execute the revised ICPR V4 model for the following design storm events to determine which stormwater management system improvements developed from the ALP model should be constructed to meet the water quality, water quantity, and flood compensation requirements to include in the Conceptual ERP.
    - 5-year, 24-hour
    - 10-year, 24-hour
    - 10-year, 3-day
    - 25-year, 3-day
    - 100-year, 3-day

The ICPR V4 model to be developed as part of this task will be referred to as the ITP model.

It is assumed that AECOM will prepare the required proposed stormwater management system conceptual plans and opinion of probable construction cost estimates.

The results will be included in the modeling technical memorandum for the project as specified in the original scope.

## **II. Key Assumptions**

Several assumptions were made in estimating the level of effort associated with the Scope of Work and man-hour estimate. These assumptions are as follow:

1. AECOM will collect all required data to support the modeling effort needed to update the PBI SWMP and prepare the Conceptual ERP application.

2. Outparcel groups included in the current Conceptual ERP will not be modified or evaluated. Therefore, only the modifications proposed within the PBI airport limits will be evaluated.
3. AECOM will prepare the Conceptual ERP application. ADA will only provide support relative to the required hydrologic/hydraulic modeling, water quality requirements and floodplain compensation requirements, based on the information to be included in the Modeling Technical Memorandum.
4. AECOM will prepare all conceptual stormwater management improvements design sketches and develop opinion of probable construction cost.
5. All coordination meetings between AECOM and ADA will be held at AECOM's West Palm Beach office.
6. Hydrologic/hydraulic models to be developed as part of this task order will be conceptual to support the Conceptual ERP application and future detailed design projects. Only the primary drainage systems will be included in the model.
7. Only improvements included in the Final ITP will be modeled to ensure maximum allowable discharge and stages as per the current permit.

### **III. Work Schedule**

ADA will work closely with AECOM in preparing a detailed work schedule for each task included in the Scope of Work to meet the PBCDOA Conceptual ERP Application submittal to the SFWMD.

**Exhibit A - ADA Engineering, Inc.**

Labor/Fee Estimate Summary - Task I-21-PBI-A-053: PBI-A: Stormwater Master Plan (Intermediate Forecast)

Task Description	Billing Rate:						Total Labor Hours	Total Labor Fee
	Program Manager / Principal	Project Manager	Project Engineer / Associate PM	Staff Engineer / Planner	Project Engineer / Associate PM	Staff Engineer / Planner		
<b>Project No. C244-0120-01</b>								
<b>3/2 Intermediate ALP Hydrologic/Hydraulic Model Setup</b>	0	6	30	82	30	82	118	\$ 20,126.00
Incorporate designated 10-year intermediate projects into existing conditions /CPR V4 model		2	12	32	12	32	45	\$ 7,894.00
Revise Basin and sub-basing boundaries		1	2	8	2	8	11	\$ 1,873.00
Update model boundary conditions		0	1	2	1	2	3	\$ 511.00
Revise sub-basin hydrologic parameters		1	2	8	2	8	11	\$ 1,873.00
Execute updated existing conditions model and compare with current ERP criteria		1	2	8	2	8	11	\$ 1,873.00
Summarize basins not meeting current ERP criteria		0	2	8	2	8	10	\$ 1,642.00
Model projects developed from ALP model and adjust for ITP		1	9	16	9	16	26	\$ 4,520.00
<b>ADA Grand Total Lump Sum Fee</b>	0	6	30	82	30	82	118	\$ 20,126.00

## EXHIBIT A-9

Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach  
Services 2021

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# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-9**

### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

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**Palm Beach County Department of Airports (DOA)  
Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach  
Services 2021**

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## **OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide services for the Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021 (Project).

## **PROJECT TEAM**

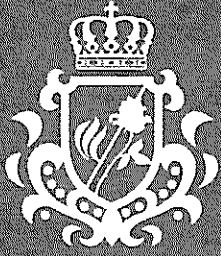
The Team for the Project will consist of:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Contract management
Chandler Campbelle & Daschele (CC&D) (SUBCONTRACTOR)	DBE Outreach services

## **PROJECT OBJECTIVE AND APPROACH**

This project will include providing outreach services for the Palm Beach County Department of Airports (DOA) in regard to the DOA ACDBE/DBE Programs, the DOA business opportunities and County's EBO Program (including trade associations, chambers of commerce, etc.). The services will be performed by CC&D under the direction of the DOA, and these services are outlined in the attached detailed scope.





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## Palm Beach International Airport DBE & ACDBE Support Services Scope Of Work

### Task 1: Monthly Outreach Services

**\$39,600 Lump Sum (\$3,300/mo.)**

**\$2,750 Expenses**

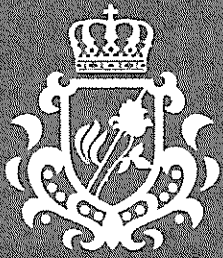
CC&D will develop, implement and manage an outreach program under the direction of, and in coordination with, the DOA for the purpose of encouraging participation and awareness of the Disadvantaged Business Enterprise Program and Equal Opportunity Program, associated construction, professional services, goods and services and concession opportunities, which shall include, at a minimum the following services ("Outreach Services"):

- Conducting a minimum of ten (10) outreach meetings at the DOA offices (or other available County facility) per year, which should include the following:
  - Certification requirements for the DBE Program, addressing the benefits of certification and processes and procedures.
  - Upcoming DOA business opportunities.
  - Business networking sessions.
  - Marketing and business development.
  - Contracting with government, including procurement resources.
  - Working with prime contractors.
  - Bonding and insurance; and
  - Access to capital and credit.
- Promoting outreach meetings by direct notification to small/minority/women-owned/disadvantaged businesses within Palm Beach, Broward and Miami Dade Counties utilizing available directories, trade organizations and other similar organizations; coordination with prime contractors for scheduling of networking sessions; and providing the DOA with information materials for website posting and meeting handouts.
- Providing small/minority/women-owned business organizations with information regarding the DOA ACDBE/DBE Program, DOA business opportunities and the County's EBO Program (including trade associations, chambers of commerce, etc.).
- Attending meetings of small/minority/women-owned business organizations to provide information regarding the DOA ACDBE/DBE Program, DOA business opportunities and the County's EBO Program (including trade associations, chambers of commerce, etc.).

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- Participating in local small/minority/women-owned conferences and meetings to provide information about upcoming DOA business opportunities and to encourage participation in such opportunities.
- Identifying eligible non-certified firms interested in participating in DOA business opportunities and performing directed outreach to encourage interested firms to become ACDBE / DBE certified.
  - Providing small/minority and women-owned firms interested in participating in DOA business opportunities with guidance on the applicable DBE & ACDBE certification processes and procedures, bonding requirements, funding sources, training opportunities, procurement resources, etc.; and
  - Staffing the DOA's vendor table at the annual Palm Beach Partners Business Matchmaker Conference & EXPO to provide information regarding the DBE & ACDBE Program and DOA project opportunities to attendees.
- Attending DOA solicitation meetings upon request.
- Providing a written Outreach Program, including the elements provided for in this Task 1 and a calendar of activities for each month of service, for review and approval of the DOA.
- Identifying and coordinating with speakers to participate in outreach meetings.
- Providing and updating event calendar(s) for posting.
- Preparing materials to be used in connection with the Outreach Services, including meeting presentations, handouts, sign-in sheets, participant surveys, etc. Copies of all materials shall be provided to the DOA for prior review and approval.
- CC&D shall provide a written monthly report documenting the Outreach Services performed in the preceding month to the DOA, which shall include a detailed log of hours and expenses incurred by each employee. All expenses shall be documented in accordance with County policies and procedures and applicable laws.

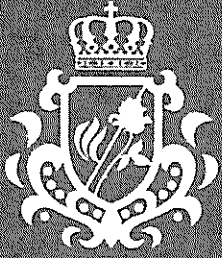
#### **Task 2 Supportive Services.**

##### **\$19,250 T&M**

- CC&D will offer certification review services to small/minority/women-owned businesses interested in performing work on DOA projects as a DBE/ACDBE certified firm. Individual certification review services shall consist of identifying outstanding items required for submission and

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providing general guidance on certification processes, procedures and submission requirements.

- Services to assist with the County's EBO Program certification and review should be coordinated with that office directly.
- CC&D shall provide a written monthly report to the DOA documenting the number of applications reviewed, the name and contact information of the firms assisted, the type of certification(s) being sought; the results of any applications submitted; and any other documentation reasonably requested by the DOA regarding the services provided.
- All expenses shall be documented in accordance with County policies and procedures and applicable laws.

### **Task 3 Quarterly Educational Services.**

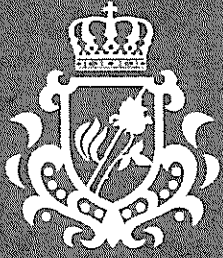
#### **\$4,400 Lump Sum (\$366.66/mo)**

CC&D will develop, implement and manage an educational program under the direction of, and in coordination with, the DOA for the purpose of educating airport tenants, concessionaires, service providers, contractors and employees about their obligations under the Title VI of the Civil Rights Act, which shall include the following services ("Educational Services"):

- Conducting four (4) quarterly educational meetings at the DOA offices per year, covering the following topics:
  - Responsibilities of all airport tenants, concessionaires, service providers, contractors and employees under Title VI to ensure nondiscrimination in their activities and programs, including participation in the DOA's Limited English Proficiency Plan ("LEP Plan");
  - Responsibilities of all airport tenants, concessionaires, service providers, contractors and employees to ensure that their programs, services and facilities are accessible to all individuals with disabilities under the ADA;
  - Sensitivity training to provide guidance on how to effectively and appropriately interact with individuals with disabilities or those with limited English proficiency; and
  - Information regarding how to access LEP Plan resources.
- Providing a written Educational Program, including the elements provided for in this Task 3 and a calendar of activities for review and approval of the DOA.
- Identifying and coordinating with local speakers to participate in educational meetings where appropriate, including advocacy groups.

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- Preparing materials to be used in connection with the Educational Services, including meeting presentations, handouts, sign-in sheets, participant surveys, voice/audio recordings and or other requested accommodations, etc. Copies of all materials shall be provided to the DOA for prior review and approval.
- CC&D shall provide a written quarterly report to the DOA documenting the Educational Services performed in the preceding quarter, which shall include a detailed log of hours for each employee and expenses incurred. All expenses shall be documented in accordance with County policies and procedures and applicable laws.

**Task 4 Staff Extension Services.**  
**\$11,000 T&M**

CC&D will provide on-call staff extension services, on an as-needed basis, related to the ACDBE/DBE Program(s) and the Title VI Civil Rights Program, upon the request of DOA staff.

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West Palm Beach, Florida 33401

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Exhibit B-1

Labor/Fee Estimate Summary - Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021

Billing Rate: \$ 126

Task Description	Program Manager	Total	Labor	Expenses	Fee Estimate (\$)																													
<b>Task I-21-DOA-A-054: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021</b>																																		
<b>Task OUTREACH SERVICES (LS + REIM.)</b>	<b>Total</b>	<b>594</b>	<b>\$ 74,250</b>	<b>\$ 2,750</b>		<b>\$ 77,000</b>																												
1 Monthly Outreach Services (LS + Expenses)	316.8	316.8	\$ 39,600	\$ 2,750		\$ 42,350																												
2 Supportive Services (T&M)	154.0	154.0	\$ 19,250			\$ 19,250																												
3 Quarterly Educational Services (LS)	35	35	\$ 4,400			\$ 4,400																												
4 Staff Extension Services (T&M)	88	88	\$ 11,000			\$ 11,000																												
<b>Total Fee</b>	<b>594</b>	<b>594</b>	<b>\$74,250</b>	<b>\$2,750</b>		<b>\$77,000</b>																												
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 10%; text-align: right;">LS</td> <td style="width: 10%; text-align: right;">\$44,000</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td style="text-align: right;">T&amp;M</td> <td style="text-align: right;">\$30,250</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">Exp</td> <td style="text-align: right;">\$2,750</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: right;"><b>\$77,000</b></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								LS	\$44,000						T&M	\$30,250						Exp	\$2,750						<b>Total</b>	<b>\$77,000</b>				
	LS	\$44,000																																
	T&M	\$30,250																																
	Exp	\$2,750																																
	<b>Total</b>	<b>\$77,000</b>																																

Prepared by: Chandler Campbelle & Daschele

## EXHIBIT A-10

Task I-21-PBI-A-051: PBI Noise Report

# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-10**

### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

#### **Palm Beach International Airport (PBI) Task I-21-PBI-A-051 PBI Noise Report**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM or CONSULTANT) manage/administrate this task performed by HMMH for the Task I-21-PBI-A-051: PBI 2020 Noise Report – Virtual Meetings and Final Resolutions Project (Project).

#### **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:

<b>Firm Name (CONSULTANT/SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Management/Administrator
HMMH	Supplemental Noise Report

#### **SCOPE OF WORK**

This assignment is intended for HMMH to provide supplemental planning services to Task I-21-PBI-A-051: PBI Noise Report. This project includes the virtual meetings, final report comment/issue resolution for the PBI 2020 Noise Report.

HMMH, will provide coordination, final Noise Report resolutions, and QA/QC.

#### **PROJECT SCHEDULE**

AECOM is scheduled to complete the Draft Report within 70 Calendar Days following receipt of the data requested by HMMH, and deliver the Final 2020 Noise Report 120 Calendar days from NTP.

#### **PROJECT DELIVERABLES**

Deliverables include:

1. Draft Noise Report
  - Noise modeling methodology
  - Fleet mix
  - Runway use
  - All other pertinent modeling data

2. Final 2020 Noise Report

**PROJECT ASSUMPTIONS**

In the event that the COUNTY and the CONSULTANT believe it to be in the best interests of the Project that additional services beyond what is provided in this scope of work be provided by the CONSULTANT, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.



Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-051 PBI Noise Report

Billing Rate: \$ 340 \$ 145 \$ 242 \$ 185 \$ 120 \$ 89 \$ 90

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)			
	Senior Project Manager	QC Reviewer	Principal	Senior Engineer	Project Engineer	Senior CADD Designer	Clerical	Total	Laber	Expenses	Total
Project Management/Administration Services					12		20	38	\$4,722	\$0	\$4,722
9 Task Management & Coordination (DOA, Consultants, etc.)	6	0	0	0	12		20	38	\$4,722	\$0	\$4,722
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>20</b>	<b>38</b>	<b>\$4,722</b>	<b>\$0</b>	<b>\$4,722</b>
Subconsultant Fees:											
HMMH (LS)											
<b>Total Fee - Subconsultants</b>											
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>											

LS \$61,844  
T&M \$0  
EXP \$0  
TOTAL \$61,844.00

Prepared by: AECOM Technical Services, Inc.





HMMH

700 District Avenue, Suite 800

Burlington, MA 01803

781.229.0707

June 16, 2021

Andrew Kacer  
AECOM Technical Services, Inc.  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607-1462

Subject: Palm Beach International Airport 2020 Noise Report  
Reference: HMMH Task 3 under DOA 18-1 Airport General Consulting Services

Dear Mr. Kacer:

This letter presents a scope of work and budget for HMMH to develop a 2020 Noise Report for Palm Beach International Airport (PBI) including 2020 DNL noise contours, updated land use mapping, and population/housing counts. The report will be written in a format for a lay audience and will contain graphical depictions of noise level data at noise monitoring locations, as well as comparison of measured and modeled noise results. The following work will be completed as subcontractors to AECOM under the on-call agreement (DOA 18-1) with the Palm Beach County Department of Airports (DOA).

#### **Proposed Scope of Services**

Our proposed scope of services covers the following tasks:

1. 2020 Noise Contour Development
2. Population Counts, Land Use Analysis, and Graphical Exhibits
3. Documentation

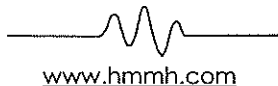
#### **Task 1. 2020 Noise Contour Development**

HMMH will analyze Calendar Year (CY) 2020 operations and flight track data provided by Envirosuite (EVS), the DOA's ANOMS provider. All noise modeling efforts will utilize the latest version of the Federal Aviation Administration's (FAA) Aviation Environmental Design Tool (AEDT), currently Version 3d, to develop 65-75 DNL contours.

HMMH will request a 12-month sample of radar data from the DOA ANOMS system. HMMH will develop the noise modeling input including, but not limited to aircraft operations by type of aircraft; operation (arrival, departure, touch-and-go, etc.) and time of day (day/night); runway use; and flight track use. HMMH will scale the radar data, as appropriate, based on FAA's 2020 Tower Counts (OPSNET), to reflect actual traffic levels. ANOMS flight track data will be bundled by aircraft category with similar track geometry, operation type, and runway to create representative model flight tracks.

#### **Task 2. GIS Analysis and Graphics**

HMMH will update the graphical templates and land use mapping to reflect most recent available data. Population counts on the 2020 DNL contour intervals will be based on 2020 US Census data (when available). HMMH will prepare exhibits depicting the 65-75 DNL noise contours, underlying land use, and jurisdictional boundaries as provided by the DOA and Palm Beach County staff. Consistent with prior reports, HMMH will prepare four (4) figures depicting jet and non-jet arrival and departure model flight tracks modeled in AEDT to be included in the noise report. HMMH will provide all exhibits in electronic format, suitable both for printing and for presentation.



### **Task 3. Documentation**

HMMH will develop and provide a Draft Noise Report documenting the noise modeling methodology, fleet mix, runway use and all other pertinent modeling data used in AEDT for the 2020 DNL contours. The report will also include model flight track graphics for each aircraft category, population and housing count results and modeled noise results at each noise monitor. A discussion and reporting on the level of noise comments will be provided. The report will also include a figure comparing the 2020 DNL contours to the 2018 annual DNL contours.

Based on comments received from DOA, HMMH will revise the Draft report as needed to produce a Final Noise Report.

### **Assumptions**

No travel is included in this proposal and any meetings will be held via conference call.

DOA will provide the following:

1. CY2020 ANOMS operations and flight track data
2. CY2020 dates of runway closures and any TFRs
3. CY2020 RMT locations and DNL levels
4. CY2020 Noise comments
5. Land use and jurisdictional boundaries in ESRI Shapefile format.

### **Items of Work Not Included in Scope**

Presentation of the results is not included in this scope.

### **Deliverables**

- Draft 2020 Noise Report
- Final 2020 Noise Report

Both reports will be delivered in electronic (pdf) format only.

### **Schedule**

HMMH expects to complete the Draft 2020 Noise Report within ten (10) weeks of receipt of the data listed above from DOA. HMMH will deliver the Final 2020 Noise Report within two weeks of receipt of comments from the DOA on the draft report.

### **Budget**

HMMH will complete the labor for the above scope of work on a lump sum basis not-to-exceed \$57,122. A breakdown of hours and expenses is shown in Table 1. This amount includes all labor, overhead, profit, materials, equipment and travel expenses required to perform the work.

Table 1. Price Proposal

TASKS	DOA 18-1 GEC RATES						TOTAL HOURS	Labor Cost by Task	Total ODCs by Task	GRAND TOTAL by Task
	\$348	\$195	\$159	\$126	\$111	\$82				
	HOURS BY PERSONNEL CLASSIFICATION									
No. Description	Suprvsry Cons. I	Principal Cons. II	Senior Cons. I	Senior Cons. II	Constnt I	Support II				
1 2020 Noise Contour Development	2	8	24	96	160		290	\$ 35,928	\$ -	\$ 35,928
2 GIS Analysis and Graphics		2	32		16		50	\$ 7,254	\$ -	\$ 7,254
3 Documentation	4	24		40	24	2	94	\$ 13,940	\$ -	\$ 13,940
	6	34	56	136	200	2	434	\$ 57,122	\$ -	\$ 57,122
	\$2,088	\$ 6,630	\$ 8,904	\$ 17,136	\$ 22,200	\$ 164				

We look forward to assisting you with this project please contact us if you have any questions. I can be reached at 781-852-3156.

Sincerely yours,

Harris Miller Miller & Hanson Inc.

Robert Mentzer Jr  
 Principal Consultant

cc: Dominic Scarano

## EXHIBIT A-11

Task I-21-PBI-A-052: Terminal Structural Assessment/Repair Plans

# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-11**

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### **Palm Beach International Airport (PBI)**

#### **Task I-21-PBI-A-052: PBI Terminal Structural Element Assessment/Repair Plans**

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#### **OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) provide professional services associated with the Task I-20-PBI-A-052: PBI Terminal Structural Element Assessment/ Repair Plans Project (Project).

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project Management/ Structural Assessment/Recommended Repairs/Cost Estimating

#### **Assessment Scope of Services**

The DOA requested AECOM to evaluate the structural elements of the PBI Terminal (landside and airside). The inspection will be performed based on a visual walking style inspection and does not include any physical testing.

AECOM will review all pertinent available record documents prior to commencing our visual inspection, in order to develop our assessment plan. The DOA provided architectural and structural plans for the main terminal area constructed in 1986, Concourse C Gate Expansion plans constructed in 2009, Terminal Expansion at Security Checkpoint "A/B" constructed in 2004, and Concourse "C" Security Checkpoint Expansion constructed in 2004. Since most of the structural elements are covered by cladding, the cladding will be removed at each critical locations, as required, to perform our inspection. Additional cladding areas may need to be removed to adequately inspect the structural elements, depending on our findings. The removal and repair of the cladding will be performed by DOA maintenance or the DOA CMAR. Access to the structural elements on the ceiling and high bay areas will be provided by DOA Maintenance.

Limited areas that cannot be accessed because of cable trays, or other objects that cannot be removed, will not be inspected and in these areas AECOM will rely on engineering judgment, in conjunction with our review of the record drawings, to determine the condition of the structural elements for that area.

Our inspections will be performed with one senior structural engineer and one project engineer, experienced in the assessment of building structures. Our inspection will consist of visually examining the structural elements and reporting any signs of distress and deficiencies. A Draft and Final Report will be developed that documents the structural condition of the Terminal. The Reports will include all of the distresses that were identified, the locations of the distresses, the corresponding photos, and the corresponding recommended repairs. The deficiencies will be described in the report and repair procedures will be provided for the different deficiencies that require corrections. A cost estimate for the programming of the repairs will be included in the Draft and Final Report.

**Assessment Deliverables:**

Draft Report  
Final Report

**Design Scope of Services**

Construction documents will be developed to repair items that were identified from site evaluations performed during this Project and from data generated during first phase of this Task.

The scope of work for this Project includes providing professional engineering services for site evaluation, design, and cost estimating at each project phase (60%, 100%, permit and bid documents), for the scope of work described below.

- Attend one (1) DOA design kick-off meeting and meeting minutes;
- Coordinate one (1) Internal design team kick-off meeting;
- Attend two (2) DOA submittal review meetings, including preparation of meeting agenda and meeting minutes (60% and 100% Contract Documents);
- Develop project cost estimates to submit for each deliverable;
- Prepare 60% and 100% Construction Documents (CDs), which include: technical and front end specifications, drawings, project cost estimates;
- Prepare and assemble bid documents, which includes the project manual and drawings; and,
- Bid and award support to the DOA.

**60% Contract Documents (Phase 1)**

This task will develop 60% Contract Documents that include plans, technical specifications, and a project cost estimate. A design review meeting will be held with the DOA to review the submitted 60% Contract Documents and project cost estimate.

**Phase 1 Deliverables**

- a. PDF copies of the 60% Documents (plans, technical specifications, and project cost estimate)
- b. 60% design review meeting minutes

**100% Contract Documents (Phase 2)**

AECOM will incorporate comments provided by the DOA at the 60% review meeting and further develop the plans, specifications, and project cost estimate into the 100% Contract Documents.

**Phase 2 Deliverables**

- a. PDF copies of the 100% Documents (plans, front end and technical specifications, maintenance of traffic plans, and cost estimate)
- b. PDF copies of the Permit Documents to be electronically submitted to Palm Beach County PZ&B
- c. 100% review meeting minutes

**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 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.

**Deliverables**

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

**Assumptions:**

- DOA will provide all record documents applicable to this task.
- DOA will pay for all permitting costs.
- The DOA will submit the permit documents to the County PZ&B.
- 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.
- DOA will provide access to a mechanical lift, if access to high areas is required.
- 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.
- 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.

**Deliverables and Estimated Duration**

<b>Deliverable</b>	<b>Days From NTP</b>
<b>Assessment Draft Report</b>	90 Calendar Days
<b>Assessment Final Report</b>	120 Calendar Days
<b>60% Contract Documents</b>	150 Calendar Days
<b>100% Construction / Permitting Documents</b>	190 Calendar Days
<b>Bid Documents</b>	200 Calendar Days



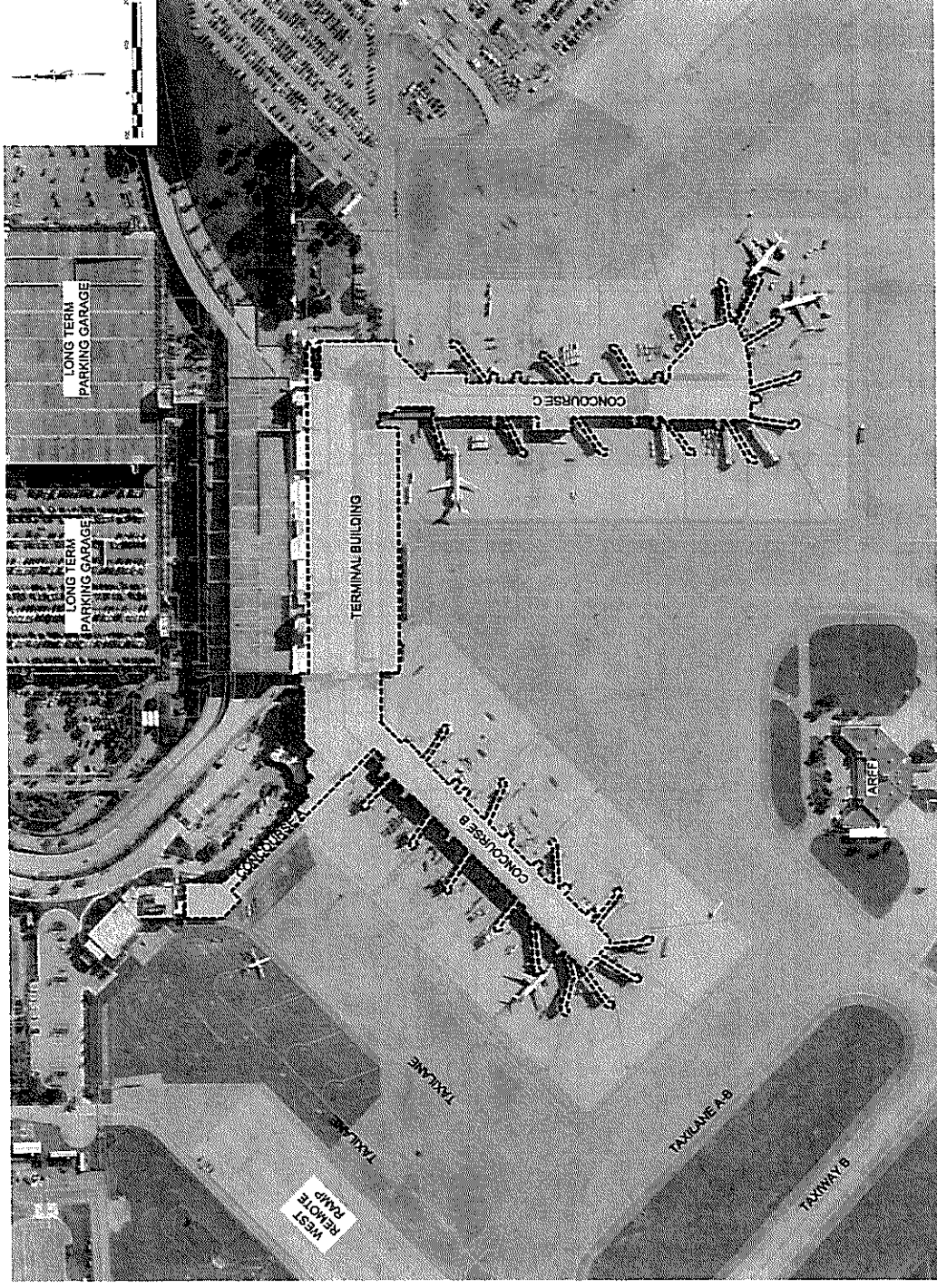


Exhibit B Labor Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-052: PBI Terminal Assessment/Repair Plans

Billing Rate: \$ 340 / hr \$ 247 / hr \$ 212 / hr \$ 120 / hr \$ 111 / hr \$ 90

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)			
	Principal	Senior Project Manager	Senior Structural Engineer	Project Engineer	QC Reviewer	Critical	Total	Labor	Expenses	Total
<b>Task I-21-PBI-A-052: PBI Terminal Assessment/Repair Plans</b>										
Assessment Phase	0	45	299	413	40	16	813	\$ 132,743	\$ 12,000	\$ 144,743
Assessment Kickoff Meeting (From Report)		3	3	3			9	\$ 1,737	\$ -	\$ 1,737
Review Design Documents		4	180	240	8		428	\$ 6,048	\$ 12,000	\$ 18,048
Inspections		8	40	60			108	\$ 5,788	\$ -	\$ 5,788
Cost Estimating		8	8	8			32	\$ 6,560	\$ -	\$ 6,560
Draft Inspection Report		3	3	3	16		25	\$ 1,737	\$ -	\$ 1,737
Review Meeting		4	4	4			16	\$ 3,888	\$ -	\$ 3,888
Cost Estimating		8	30	32			70	\$ 12,176	\$ -	\$ 12,176
Final Inspection Report		8	8	8	24		48	\$ 6,048	\$ -	\$ 6,048
ISO 9001 - OAGC Review of Final Report		3	3	3			9	\$ 1,737	\$ -	\$ 1,737
Review Meeting		4	4	4		16	26	\$ 2,428	\$ -	\$ 2,428
Task Management	0	14	38	120	10	4	192	\$ 28,170	\$ 0	\$ 28,170
Develop 80% CDs		2	2	2			6	\$ 918	\$ -	\$ 918
Design Kickoff Meeting		2	2	2			6	\$ 918	\$ -	\$ 918
Develop CDs		2	2	2			6	\$ 918	\$ -	\$ 918
Cover Sheet							0	\$ -	\$ -	\$ -
General Notes			2	2			4	\$ 684	\$ -	\$ 684
Repair Plans w Location of Distresses (Data From Report)			2	2			4	\$ 684	\$ -	\$ 684
Repair Details (Data From Report)			8	8			32	\$ 4,576	\$ -	\$ 4,576
60% Cost Estimate		2	4	16			22	\$ 3,262	\$ -	\$ 3,262
Develop Technical Specifications		2	4	8			14	\$ 2,302	\$ -	\$ 2,302
Develop Phasing Plans		2	8	40			50	\$ 6,990	\$ -	\$ 6,990
ISO 9001 - OAGC Review of Final Report		2	2	2	16		22	\$ 2,896	\$ -	\$ 2,896
60% Review Meeting		4	4	4		4	16	\$ 918	\$ -	\$ 918
Task Management		4	4	4		4	16	\$ 918	\$ -	\$ 918
Develop 100% CDs	0	8	34	80	18	4	124	\$ 18,504	\$ 0	\$ 18,504
Develop CDs		2	2	2			6	\$ 918	\$ -	\$ 918
Cover Sheet				1			1	\$ 120	\$ -	\$ 120
General Notes			2	2			4	\$ 684	\$ -	\$ 684
Repair Plans w Location of Distresses (Data From Report)			8	8	16		24	\$ 3,616	\$ -	\$ 3,616
Repair Details (Data From Report)			8	8	16		24	\$ 3,616	\$ -	\$ 3,616
100% Cost Estimate			4	4			8	\$ 1,328	\$ -	\$ 1,328
Develop Technical Specifications			4	4			8	\$ 1,328	\$ -	\$ 1,328
Develop Front End Specifications			2	2			4	\$ 1,384	\$ -	\$ 1,384
Develop Phasing Plans			4	4			8	\$ 1,808	\$ -	\$ 1,808
ISO 9001 - OAGC Review of Final Report		2	2	2	16		22	\$ 2,896	\$ -	\$ 2,896
100% Review Meeting		4	4	4		4	16	\$ 918	\$ -	\$ 918
Task Management		4	4	4		4	16	\$ 918	\$ -	\$ 918
Bidding and Award of Contract Documents	0	8	24	24	0	0	56	\$ 9,330	\$ 0	\$ 9,330
Submit Bid Documents to DOA							0	\$ -	\$ -	\$ -
Bid Drawings		2	4	4			10	\$ 1,822	\$ -	\$ 1,822
Bid Technical Specifications		2	2	2			4	\$ 684	\$ -	\$ 684
Final Updates Bid Front End Specifications		2	2	2			6	\$ 1,384	\$ -	\$ 1,384
Bid Project Construction Cost Estimate		2	2	2			4	\$ 684	\$ -	\$ 684
Pre-Bid Conference		2	4	4			10	\$ 1,822	\$ -	\$ 1,822
Addenda			8	8			18	\$ 2,056	\$ -	\$ 2,056
Bid Recommendation Letter		2	2	2			4	\$ 918	\$ -	\$ 918
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	71	399	624	72	24	1186	\$ 191,349	\$ 12,000	\$ 203,349

Subcontractant Fees										
<b>Total Fee - Subcontractants</b>										
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>										\$ 203,349.00

Lump Sum	\$ 191,349.00
T&M	\$ -
Expenses	\$ 12,000.00
<b>Total</b>	\$ 203,349.00

Prepared by: AECOM Technical Services, Inc.

## EXHIBIT A-12

Task-I-21-PBI-A-053 PBIA James L Turnage Blvd Bridge Repairs

**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-12**

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI A)

Task I-21-PBI-A-053: PBI A James L Turnage Blvd Bridge Repairs

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Professional Services associated with the Task I-21-PBI-A-053: PBI A James L Turnage Blvd Bridge Repairs (Project) at the Palm Beach International Airport (PBI A).

This task will be performed by AECOM as shown below:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Management, site evaluations, development of base sheets, structural design of bridge repairs, project cost estimating and quality reviews.

**PROJECT OBJECTIVE AND APPROACH**

Construction documents will be developed to repair items that were identified from site evaluations performed during this Project and from data generated during the previously developed bridge assessments.

AECOM will prepare construction documents with construction cost estimate at each project phase (60%, 100%, and permit documents), that will include: general notes, deficiency plans for each of the seven (7) bridges, including repair details for: spalls, compression seal joints, underside deck (adjacent to exp joints), delamination, bent caps, cracks (sealing or epoxy injection), deck topping surface exposed rebar, concrete around drain pipes, and special repairs. The scope of work includes the work described below:

1. Attend one (1) DOA design kick-off meeting and meeting minutes;
2. Coordinate one (1) Internal design team kick-off meeting;

3. Attend two (2) DOA submittal review meetings, including preparation of meeting agenda and meeting minutes (60% and 100% Contract Documents);
4. Coordinate data collection, records research and review of as-built information;
5. Develop project cost estimates to submit for each 60%, 100% and Permit submittal;
6. Prepare 60% and 100% Construction Documents, which include: technical specifications, drawings, project cost estimates;
7. Prepare and assemble bid documents, which includes the project manual and drawings; and,
8. Bid and award support to the DOA.

#### **60% Contract Documents (Phase 1)**

This task will develop 60% Contract Documents that include plans, technical specifications, and a project cost estimate. A design review meeting will be held with the DOA to review the submitted 60% Contract Documents and project cost estimate.

#### **Phase 1 Deliverables**

- a. PDF copies of the 60% Documents (plans, technical specifications, and project cost estimate)
- b. 60% design review meeting minutes

#### **100% Contract Documents (Phase 2)**

AECOM will incorporate comments provided by the DOA at the 60% review meeting and further develop the plans, specifications, and project cost estimate into the 100% Contract Documents.

#### **Phase 2 Deliverables**

- a. PDF copies of the 100% Documents (plans, front end and technical specifications, maintenance of traffic plans, and cost estimate)
- b. PDF copies of the Permit Documents to be electronically submitted to Palm Beach County PZ&B
- c. 100% review meeting minutes

#### **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 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.

#### **Deliverables**

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

**Assumptions:**

- DOA will provide all record documents applicable to this task.
- DOA will pay for all permitting costs.
- The DOA will submit the permit documents to the County PZ&B.
- 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.
- DOA will provide access to a mechanical lift, if access to high areas is required.
- 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.
- 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.

**Deliverables and Estimated Duration**

<b>Deliverable</b>	<b>Days From NTP</b>
<b>60% Contract Documents</b>	<b>100 Days</b>
<b>100% Construction / Permitting Documents</b>	<b>144 Days</b>
<b>Bid Documents</b>	<b>160 Days</b>



Table B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-053: PBIA James L Turnage Blvd Bridge Repairs

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 89 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)										Fee Estimate (\$)					
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Expenses	Total
<b>PHASE 2 - CONTRACT DOCUMENTS (100% SUBMITTAL)</b>	<b>0</b>	<b>54</b>	<b>196</b>	<b>185</b>	<b>0</b>	<b>16</b>	<b>491</b>	<b>0</b>	<b>54</b>	<b>196</b>	<b>185</b>	<b>0</b>	<b>16</b>	<b>\$0</b>	<b>\$81,066</b>	<b>\$81,066</b>
Construction Plans																
General Notes		1	4	4			9								\$ 1,455	\$ 1,455
Deficiency Map - Plan & Elevation View for Each Bridge (7 brdgs)		1	4	8			13								\$ 1,935	\$ 1,935
Compression Seal Joint Repair		1	2	4			7								\$ 1,091	\$ 1,091
Crack Repair Details		1	4	4			9								\$ 1,455	\$ 1,455
Spall/Delamination Repair Details (Beam/Diaphragm/Pier Cap/Column/Railing)		1	4	4			9								\$ 1,455	\$ 1,455
Bridge 1 - Beam/Diaphragm Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 1 - Pier Cap Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 1 - Bridge Railing Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 2 - Beam/Diaphragm Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 2 - Pier Cap Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 3 - Beam/Diaphragm Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 3 - Pier Cap Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 4 - Deck Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 4 - Beam/Diaphragm Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 4 - Bridge Railing Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 5 - Deck Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 5 - Column Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 5 - End Bent Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 6 - Deck Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 6 - Beam/Diaphragm Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 8 - Bridge Railing Repair		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 8 - Pier Cap Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 10 - Pier Cap Repair Table		4	4	4			8								\$ 1,208	\$ 1,208
Bridge 10 - Bridge Railing Repair		4	4	4			8								\$ 1,208	\$ 1,208
Spalling next to Expansion Joints		1	4	4			9								\$ 1,455	\$ 1,455
Concrete Repair Detail Around Drain Inlet		1	4	4			9								\$ 1,455	\$ 1,455
Special Repair Miscellaneous Items. Notes for:																
Replacement of light fixtures																
General Cleaning																
Methacrylate Monomer																
Exposed conduits to be covered																
Debris cleaning																
Debris cleanup at drainage scoopers																
Quantity Summary Tables (All Structures)		4	24	24	1		4								\$ 731	\$ 731
Assembly / Submit 100% Contract Documents		4	4	4	20		52								\$ 8,236	\$ 8,236
Specifications Not Covered by FDOT Standard Specs		4	24	24			28								\$ 4,116	\$ 4,116
MOT for Each Bridge		8	12	12			32				0				\$ 5,356	\$ 5,356
QA/QC		16	4	4			60				0				\$ 5,600	\$ 5,600
Cost Estimate		4	16	16			36				0				\$ 13,096	\$ 13,096
DOA 100% Review Meeting		2	4	4			10				0				\$ 5,820	\$ 5,820
Coordination and Task Management		4	4	4		16	24								\$ 1,702	\$ 1,702
															\$ 3,156	\$ 3,156



Table B  
 Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-21-PBI-A-053: PBI James L Turnage Blvd Bridge Repairs

Billing Rate: \$ 212 \$ 247 \$ 182 \$ 120 \$ 89 \$ 90

Task Description (Scope of Work)	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
<b>BIDDING PHASE</b>							<b>68</b>	<b>\$9,886</b>	<b>\$0</b>	<b>\$9,886</b>
Submit Bid Documents	0	18	20	0	0	20	8	\$ 1,716	\$ -	\$ 1,716
Coordination and Task Management		4	4	0	0		12	\$ 1,578	\$ -	\$ 1,578
Prepare for and Attend Pre-Bid Meeting		2	2	0	0		10	\$ 1,582	\$ -	\$ 1,582
Addenda and Contractor Questions		2	4	0	0	4	24	\$ 4,152	\$ -	\$ 4,152
Bid Recommendation Letter		8	8	0	0	8	4	\$ 858	\$ -	\$ 858
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>124</b>	<b>138</b>	<b>654</b>	<b>705</b>	<b>0</b>	<b>62</b>	<b>1,613</b>	<b>\$ 257,741</b>	<b>\$ 1,000</b>	<b>\$ 268,741</b>
<b>Subconsultant Fees</b>										
<b>Total Fee - Subconsultants</b>										
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>										<b>\$ 268,740.80</b>

Lump Sum	\$ 257,740.80
T&M	\$ -
Expenses	\$ 1,000.00
<b>Total</b>	<b>\$ 268,740.80</b>

Prepared by: AECOM Technical Services, Inc.

## EXHIBIT A-13

Task III Services – Miscellaneous Planning and Engineering Services: Work to be completed under these Task III Services will be issued per the level of authority contained in PPM CW-F-050, by way of a separate proposal or task authorization, as described in the original Consulting Agreement (R-2019-0301).

## EXHIBIT B:

# DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I Summary of Fees

EXHIBIT B-II Schedule of Payments

EXHIBIT B-I  
SUMMARY OF FEES

Project	Lump Sum	T&M	Reimbursable Expenses	Total
<b>TASK I SERVICES</b>				
Task I-21-PBI-A-042: Green Street Improvements	\$ 40,603.00	\$23,293.00		\$63,896.00
Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021	\$51,455.00		\$1,200.00	\$52,655.00
Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services	\$10,817.00	\$34,623.00	\$200.00	\$45,640.00
Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services	\$34,014.00		\$500.00	\$34,514.00
Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement	\$ 29,040.00		\$500.00	\$29,540.00
Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3	\$247,433.00		\$5,000.00	\$252,433.00
Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021	\$140,825.78		\$3,400.00	\$144,225.78
Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)	\$103,078.00			\$103,078.00
Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021	\$50,776.00	\$30,250.00	\$2,750.00	\$83,776.00
Task I-21-PBI-A-051: PBI Noise Report	\$ 61,844.00			\$ 61,844.00
Task I-21-PBI-A-052: Terminal Structure Assessment/Repair Plans	\$191,349.00		\$12,000.00	\$ 203,349.00
Task I-21-PBI-A-053: PBIA James L Turnage Blvd. Bridge Repairs	257,740.80		\$1,000.00	\$258,740.80
<b>TASK III SERVICES</b>				
Task III: Deliverable(s) As required in accordance with specific Task Authorizations				\$250,000.00
<b>TOTAL</b>				<b>\$1,583,691.58</b>

## 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 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:

**Tasks to Be Completed:**

Project	Duration	Total
<b>TASK I SERVICES</b>		
Task I-21-PBI-A-042: Green Street Improvements	75 Calendar Days	\$63,896.00
Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021	TBD	\$52,655.00
Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services	180 Calendar Days	\$45,640.00
Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services	267 Calendar Days	\$34,514.00
Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement Project	135 Calendar Days	\$29,540.00
Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3	134 Calendar Days	\$252,433.00
Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021	270 Calendar Days	\$144,225.78
Task I-21-PBI-A-049: PBIA: Stormwater Master Plan (Intermediate Forecast)	90 Calendar Days	\$103,078.00
Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021	365 Calendar Days	\$83,776.00
Task I-21-PBI-A-051: PBI Noise Report	120 Calendar Days	\$ 61,844.00
Task I-21-PBI-A-052: Terminal Structural Assessment/Repair Plans	200 Calendar Days	\$ 203,349.00
Task-I-21-PBI-A-053: PBIA James L Turnage Blvd. Bridge Repairs	160 Calendar Days	\$258,740.80
<b>TASK III SERVICES</b>		
Task III: Deliverable(s) As required in accordance with specific Task Authorizations	TBD	\$250,000.00
<b>TOTAL</b>		<b>\$1,583,691.58</b>

## EXHIBIT C

### PROPOSED SCHEDULES

<b>Project</b>	<b>Duration</b>
<b>TASK I SERVICES</b>	
Task I-21-PBI-A-042: Green Street Improvements	75 Calendar Days
Task I-21-DOA-A-043: Miscellaneous Planning & Engineering Services 2021	TBD
Task I-21-PBI-A-044: PBI Wallis Road Phase 2 Construction Services	180 Calendar Days
Task I-21-PBI-A-045: PBI Replacement of Current PA System CA/CM Services	267 Calendar Days
Task I-21-PBI-A-046: PBI Wind Cone Relocation and Replacement Project	135 Calendar Days
Task I-21-PBI-A-047: PBIA Repairs to Short-Term and Long-Term Parking Garages 2 and 3	134 Calendar Days
Task I-21-DOA-A-048: Update Stormwater Pollution Prevention Plan (SWPPP) 2021	270 Calendar Days
Task I-21-PBI-A-049: PBIA Stormwater Master Plan (Intermediate Forecast)	90 Calendar Days
Task I-21-DOA-A-050: Disadvantaged Business Enterprise (DBE) Program Outreach Services 2021	365 Calendar Days
Task I-21-PBI-A-051: PBI Noise Report	120 Calendar Days
Task I-21-PBI-A-052: Terminal Structural Assessment/Repair Plans	200 Calendar Days
Task I-21-PBI-A-053: PBIA James L Turnage Blvd Bridge Repairs	160 Calendar Days
<b>TASK III SERVICES</b>	
Task III: Deliverable(s) As required in accordance with specific Task Authorizations	TBD

## EXHIBIT D

DBE



**SCHEDULE 1(A)  
LIST OF PROPOSED DBE FIRMS  
(Professional Services)**

LO/SOQ Project Description: Airport General Consulting  
 Name of Respondent: AECOM Technical Services, Inc.  
 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  
 Change Order/Task/Amendment No. (if applicable): Amendment 6  
 E-mail Address: Andy.Kacer@aecom.com

Name, Address & Phone No. of DBE Firm	Description of Type of Work	Classification (Check applicable box)	Dollar Amount			
			Black	Hispanic	Women	Other (Please Specify)
Quantum Electrical Engineering, Inc. 2755 Vista Parkway, Suite 1-9 West Palm Beach, FL 33411 (561) 210-9224	Electrical Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	0.44 %	_____%
Tierra South Florida 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 (561) 687-8536	Geotechnical Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	Asian Pacific 0.39 %
Cyriacks Environmental Consulting Services, Inc. 3001 SW 15 <sup>th</sup> Street, Suite B Deerfield Beach, FL 33442 (954) 571-0290	Environmental Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	7.68 %	_____%
Chandler, Campbell, & Daschle 401 North Rosemary Avenue. West Palm Beach, FL 33401 (404) 643-9747	DBE Outreach	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	4.86 %	_____%	_____%	_____%
A.D.A. Engineering, Inc. 1800 Old Okeechobee Rd., Suite 202 West Palm Beach, FL 33409 (561) 615-8880	Hydraulic/Hydrologic Modeling	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	1.27 %	_____%
Harris Miller Miller & Hanson Inc. 700 District Avenue, Suite 800 Burlington, MA 01803 (781) 229-0707	Noise Consultant	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	3.61 %	_____%
FR Aleman & Associates, Inc. 10305 NW 4 <sup>th</sup> Street, Suite 200 Miami, FL 33178 (305) 591-8777	SUE and Surveying Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	1.08 %	_____%
<b>Total Percentage of DBE Participation:</b>						<b>19.34 %</b>

**Notes:**

1. 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.
2. 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/maintenance.asp>.
3. 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.

*Andrew Kacer*

By: \_\_\_\_\_ Date: 07/19/2021

Signature

Andrew Kacer - Vice President

Print Name/Title of Person Executing on Behalf of the Respondent

**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment No. 6

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Quantum Electrical Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify)  
 Prime Consultant    Subcontractor    Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Electrical Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project: 0.44 %**

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

	%	
(Name of Subcontractor)	Percentage of work to be subcontracted)	<input type="checkbox"/> DBE Certified <input type="checkbox"/> Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Quantum Electrical Engineering, Inc.  
Printed Name of DBE Subcontractor

By:   
Signature

Date: 7-9-2021

Amy L.  
Champagne  
e-Baker

Amy L.  
Champagne-Baker  
2021.07.13  
09:51:01 -04'00'

**SCHEDULE 2(A)  
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE  
(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 6

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Tierra South Florida

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify) Asian Pacific  
 Prime Consultant    Subcontractor    Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Geotechnical Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project: 0.39%**

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

\_\_\_\_\_ %       DBE Certified  
(Name of Subcontractor)      (Percentage of work to be subcontracted)       Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Tierra South Florida  
Printed Name of DBE Subcontractor

By: \_\_\_\_\_  
Signature

Date: 7-9-2021

**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 6

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Cyriacks Environmental Consulting Services, Inc

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify)  
 Prime Consultant     Subcontractor     Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Environmental Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project: 7.68 %**

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

**If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:**

\_\_\_\_\_ %       DBE Certified  
(Name of Subcontractor)      (Percentage of work to be subcontracted)       Non-DBE

**The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.**

Cyriacks Environmental Consulting Services, Inc

Printed Name of DBE Subcontractor

By: [Signature]  
Signature

Date: 7-9-2021



**SCHEDULE 2(A)**  
**LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE**  
**(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 6

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: A.D.A. Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black       Hispanic       Women       Other (Please Specify)  
 Prime Consultant     Subcontractor     Manufacturer       Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Hydraulic and Hydrologic Modeling

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project: 1.27 %**

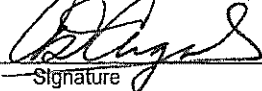
and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

\_\_\_\_\_ %       DBE Certified  
(Name of Subcontractor)      (Percentage of work to be subcontracted)       Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

A.D.A. Engineering, Inc.  
Printed Name of DBE Subcontractor

By:   
Signature

Date: 7-9-2021







<b>Airport General Consulting Professional Services - 2018</b>								
<b>RFP #: DOA-18-1 - Misc. Projects</b>								
<b>Date: November 29, 2017</b>								
<b>Marketplace: BC, PBC, MDC</b>								
<b>DBE Project Goal: 18% - adjusted for past participation</b>								
<b>NAICS Description</b>	<b>NAICS Code</b>	<b>Estimated Percentage of</b>	<b>Available DBE</b>	<b>Total Available</b>	<b>Weighted Percentage</b>			
Engineering Services	541330	30.00%	149	1286	3.48%			
Architectural Services	541310	30.00%	40	667	1.80%			
Construction Management	236220	10.00%	239	815	2.93%			
Testing Services	541380	5.00%	12	92	0.65%			
Land Surveying & Mapping	541370	5.00%	24	144	0.83%			
Planning Services	541320	10.00%	15	166	0.90%			
Other Consulting Services	541690	10.00%	64	571	1.12%			
<b>Total</b>		<b>100.00%</b>			<b>11.72%</b>			

<b>General Consulting Services Contracts</b>	<b>DBE Participation (to date)</b>
R2006-2418	21%
R2009-1643	31%
R2011-1333	29%
R2014-0031	13%
Median Participation	25%
Adjustment for Past Participation	18%
<b>DBE Project Goal</b>	<b>Percentage</b>
	18%