

AMENDMENT NO. 1

TO

PART 1 CONTRACT FOR DESIGN-BUILD SERVICES

This AMENDMENT No. 1 is to the Contract for design-build services which was entered into the 6th day of December, 2018 by and between the Hillsborough County Aviation Authority, a public body corporate under the laws of the State of Florida, hereinafter referred to as the "Owner", and The Middlesex Corporation, a Massachusetts Corporation, authorized to do business in the State of Florida, hereinafter referred to as the "Design-Builder". With the execution of Amendment No. 1, the Owner and the Design-Builder, for the consideration stated herein, and other good and valuable consideration, hereto agree to change provisions of the aforementioned Contract as follows:

1. ARTICLE 1 – DESIGN-BUILDER

Delete Paragraph 1.2.1 in its entirety and replace with the following:

1.2.1 The services that the Design-Builder will provide to the Owner under this Contract will be as follows, and in general accordance with the Owner's Request for Qualifications dated June 6, 2018, entitled "Request for Qualifications for Air Cargo Expansion at Tampa International Airport", and the Design-Builder's fee and scope proposal dated November 20, 2018, entitled "Part 1 Agreement Proposal-Rev 2, Air Cargo Expansion Project No. 8240 19: UPS Air Cargo Site," which are incorporated by reference herein, and the Design-Builder's fee and scope proposal dated July 23, 2019, entitled "UPS Air Cargo Expansion Work Order 19-01c Design Of Dazzo Pump Station Relocation, Hydrant Fueling, and Dual Taxilane Addition (Airfield) Tampa International Airport," which is attached hereto as Attachment No. 1 and incorporated by reference herein. In the event of any conflicts between this Contract and any other documents, the precedence in resolving such conflicts will be as follows:

- 1.2.1.1 This Contract
- 1.2.1.2 Design-Builder's fee and scope proposals
- 1.2.1.3 The Owner's Request for Qualifications
- 1.2.1.4 Relevant portions of the Design-Builder's response to Request for Qualifications
- 1.2.1.5 Work orders

2. ARTICLE 9 – BASIS OF COMPENSATION

Delete Paragraph 9.0 in its entirety and replace with the following:

9.0 The Owner will compensate the Design-Builder for services rendered under this Contract, as described in Attachment 1.

The amount for the performance of Basic Services required under this Contract and costs identified as reimbursable expenses will be in a not to exceed amount of Three Million Nine Hundred Eighteen Thousand Eight Hundred Nineteen and No One Hundredths Dollars (\$3,918,819.00), which includes all fees for subconsultants.

3. ARTICLE 19 – DISADVANTAGED BUSINESS ENTERPRISE (DBE) ASSURANCES

Delete Paragraph 19.4 in its entirety and replace with the following:

19.4 DBE Goals. In compliance with the Owner's DBE policy, the Design-Builder's minimum DBE commitment is established as the sum total of the verified Letter(s) of Intent submitted with their response. The goal stated below is the sum total of the certified DBE's listed in the Design-Builder's Fee and Scope Proposal which is attached hereto as Attachment 1 and which will be enforceable under the terms of this Contract. The Design-Builder will demonstrate that they will subcontract to certified DBEs certified by the Florida Unified Certification Program (FLUCP) at least 9.8% of the dollar amount of the design fees earned under this Contract, or clearly demonstrate in a manner acceptable to the Owner its good faith efforts to obtain certified DBE subcontractors.

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

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

By the Design Professional this _____ day of _____, 2019.

ATTEST:

The Middlesex Corporation

By: _____

Title: _____

Print Name

(Affix Corporate Seal)

Print Address

Signed, sealed, and delivered in the presence of:

Witness

Print Name

Witness

Print Name

Notary for The Middlesex Corporation.

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this ____ day of _____, 2019, by _____ in the capacity of _____, of The Middlesex Corporation, on its behalf. (He is / She is)(Personally known to me /not personally known to me) and has produced the following document of identification _____, and (they / he / she) (did / did not) take an oath.

(Seal of Notary)

Signature of Notary

Print, or type Name of Notary

By the Authority this 1st day of August, 2019.

HILLSBOROUGH COUNTY AVIATION AUTHORITY

(Affix Corporate Seal)

By: _____
Robert I. Watkins, Chairman

ATTEST:

Lesley "Les" Miller, Jr, Secretary

Signed, sealed, and delivered
in the presence of:

Witness

Print Name

Witness

Print Name

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

By: _____
Michael Kamprath, Assistant General Counsel

Notary for Hillsborough County Aviation Authority

**STATE OF FLORIDA
COUNTY OF HILLSBOROUGH**

The foregoing instrument was acknowledged before me this ____ day of _____, 2019, by Robert I. Watkins, in the capacity of Chairman, and by Lesley "Les" Miller, Jr. in the capacity of Secretary, Hillsborough County Aviation Authority, an independent special district under the laws of the State of Florida, on its behalf. They are personally known to me and they did not take an oath.

Signature of Notary

Print, Type, or Stamp Commissioned Name of Notary



AECOM SCOPE OF WORK

**UPS AIR CARGO EXPANSION
WORK ORDER 19-01C DESIGN OF DAZZO PUMP STATION RELOCATION, HYDRANT
FUELING, AND DUAL TAXILANE ADDITION (AIRFIELD)
TAMPA INTERNATIONAL AIRPORT**

A. PROJECT DESCRIPTION

The Tampa International Airport (Authority) has requested The Middlesex Corporation (TMC) & AECOM to provide design services for the relocation of the existing City of Tampa owned Dazzo Pump Station, extension of the existing airport owned fuel lines from the infield area between Taxiway N and Taxiway J to the proposed UPS facility, and add dual taxilanes on the air cargo apron.

DAZZO PUMP STATION RELOCATION

The Dazzo Pump Station (PS) is a City of Tampa (City) owned master pump station located on the south side Dazzo Avenue approximately 300 feet east of Westshore Blvd. The PS is in conflict with construction work associated with the UPS Air Cargo Expansion project. To eliminate this conflict, a new station must be constructed on a nearby site agreed to by the City and the HCAA. The new site is located on the south side of Ohio Avenue immediately west of Air Cargo Road. This new site will require the



Figure 1- Existing and Proposed Pump Station Location; Source: HCAA

construction of a new pump station and approximately 1600 lf of new gravity sewer pipe to direct sewage flow to the new site. The existing force main that the station will

connect to is located in the Ohio Avenue right-of-way. Consequently, only a limited amount of new force main will need to be constructed. Finally, the existing station will need to be demolished and existing piping to the station either removed or abandoned and grout filled.

The design-build team will be responsible for the engineering design and construction of the new pump station and associated piping and the removal/abandonment of existing facilities. In addition, the team will be responsible for the preparation of survey documentation that will allow for the new piping system located in the current Ohio Avenue right-of-way and the PS site to be located in easements that HCAA will transfer to the City. The following is AECOM's proposed scope of services and fee schedule to provide the engineering component of the work.

HYDRANT FUELING

The extension of the existing fuel system will include the design of one dead-end hydrant fuel main and hydrant pits (8) serving the four (4) proposed aircraft on the UPS ramp, including high point vent pits, low point drain pits, and Emergency Fuel Shut-off System (EFSO) stations. Pit locations have been determined by UPS to serve a mixture of aircraft at each position. Scope includes pit location verification by AECOM and continued coordination with UPS regarding exact placement.

DUAL TAXILANES (AIRFIELD, STORM WATER, STRUCTURAL, BLAST FENCE)

One new taxilane is to be located west of the existing Taxilane K. Existing TL K will be relocated further to the east. The addition of the dual taxilane layout necessitates the reconfiguration of the existing blast fence. This additional airfield work also impacts the existing permitted storm water pond located south of the project site as well as drainage structures. The scope includes permitting for changes to the pond, evaluating and design of aircraft rated drainage structures in the safety areas of taxilanes and aprons. Figure 2 above contains the approved Option 11 site plan for the project.

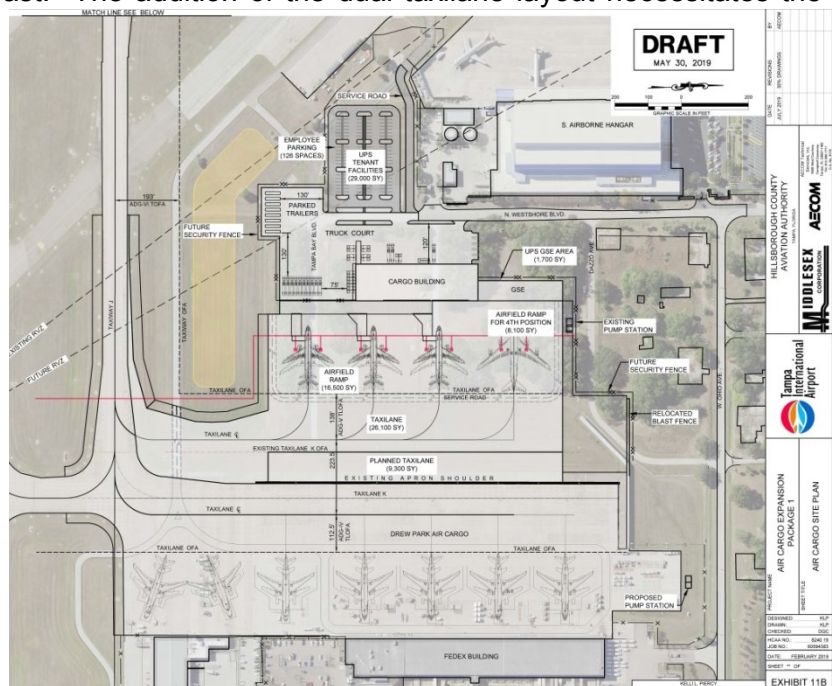


Figure 2: Option 11 dated 6-24-19 Source: AECOM

B. ASSUMPTIONS

DAZZO PUMP STATION RELOCATION

Based on a meeting held on June 20, 2019 that included representatives from HCAA, the City, AECOM and The Middlesex Corporation, the following is our understanding of the design intent and the information will be provided to AECOM. This information was used in developing the Attached fee schedule.

- 1) The new PS will be similar in design to the City's Osborne PS. The City provided drawings of the station. Electrical drawings from the City's Midlake PS were provided detailing current City electrical standards. These drawings shall be used as a guide in developing the plans for the new pumping station. AECOM will develop a complete set of design plans to meet the specific requirements for the new pumping station and related facilities.
- 2) HCAA to obtain confirmation from the City that the demand/capacity loads were verified for the new pump station. TMC/AECOM are responsible to review the additional flows only associated with the UPS project to confirm they have been accounted for by the City. AECOM is not responsible for reviewing flows for the existing service area that is outside UPS project limits or for any other future flows.
- 3) The City will provide soil borings taken at the new station site and along the proposed pipeline route. Consequently, no geotechnical services are included in this proposal.
- 4) The City has performed survey and utility locates along the proposed pipeline route. Consequently, survey will be limited to the new PS site and for easement descriptions.
- 5) The City has performed a hydraulic analysis of the force main system and will provide the hydraulic conditions necessary to select pumps.
- 6) A backup diesel pump, currently located at the existing station site, will need to be relocated to the new station site and made operational by the contractor. Consequently, this pump will not need to be purchased.
- 7) The chemical odor control system is owned by the equipment supplier. It will be necessary as part of the design to provide a location at the new station site for the equipment and support utilities only. The equipment supplier will be responsible for installing the equipment and making it operational.

- 8) The new station will require landscape screening. Consequently, landscape design services are included in the scope of services.
- 9) The existing station will be demolished to a depth of approximately four (4) feet below grade and then filled with a flowable fill material. Existing shallow piping (less than 4 feet deep) will be removed. Deeper existing piping will be grout filled and abandoned.
- 10) AECOM will provide engineering support during the construction phase of the project that will include a limited number of meetings/site inspections.
- 11) The City will provide technical standards and specifications for the construction of the pumping station and wastewater facilities needed to relocate the station. AECOM will make necessary revisions to these specifications as needed to meet the final design requirements and will provide any additional specifications not covered by the specifications provided by the City.

HYDRANT FUELING

- 1) Double wall pipe design inclusive of all requirements for coatings, welding, inspections, pressure testing, flushing, and leak detection (assuming it is a visual inspection).
- 2) Hydrant pits with internal components consistent with those in service in the Airport's existing hydrant system.
- 3) Design for the tie-in and installation of one isolation valve pit at the tie-in point to the existing hydrant line. The pit will incorporate a hydraulic control valve to facilitate emergency fuel shutoff of the hydrant line feeding the UPS ramp. In addition to the control valve a single double block and bleed plug valve will be provided for manual isolation. Structural design included.
- 4) Cathodic protection will be subcontracted to Southern Cathodic Protection Company.
- 5) Evaluation of the parking position fleet mix to determine the optimum hydrant pit location and/or need for more than one pit at each location.
- 6) Surge analysis and design of a surge suppressor pit at the north end of the hydrant main. Structural design included.
- 7) Four EFSO Stations. One Station per Line-of-Site of Airplane Fueling Station.
- 8) Power for Fueling Pit Equipment is included. Coordination will be done with Electrical discipline.

- 9) Electrical and Communications (Fueling Control) Ductbank and Routing Details shall be included.
- 10) Fueling Control is assumed to be PLC-base. A Rack-mounted Cabinet(s) provided to support the Cargo Building and Integrated to Existing PLC-base Network system.
- 11) Integration to PLC-base Network system to be located at Existing Fed-ex Building. Capacity for tie-in at this location is available without change to Fed-ex building system. The tie-in will provide reporting to Fuel Farm Main Control and Display.
- 12) Include Fuel Farm coordination to provide new display and programming to include proposed Cargo Building.

DUAL TAXILANE (AIRFIELD)

- 1) Geometric design for the two taxilanes for this ramp include one Aircraft Design Group (ADG) IV taxilane adjacent to Federal Express parking positions in accordance with approved "Option 11" layout. The existing service road behind FedEx will be inside the Object Free Area (OFA) of this new taxilane. The second taxilane will be adjacent to UPS aircraft parking positions and will be designed for ADG V. The service road behind UPS will also be inside the taxilane OFA in accordance with approved Option 11 layout.
- 2) Blast fence will be relocated and repositioned to handle change in geometrics. AECOM will coordinate with the blast fence manufacturer for final design and ultimate layout. New foundation will be designed based on the record drawings and manufacturer's recommendation. New connections will be specified as recommended by the manufacturer. AECOM will provide blast pavement in front of blast fence.
- 3) The existing permitted storm water pond will need to be modified due to the expansion of the dual taxilanes. AECOM assumes the existing pond can be modified and expanded to the northwest as indicated in Option 11 layout. AECOM assumes all storm water permitting for the project will be done at the same time and within the areas shown on Option 11.
- 4) AECOM assumes the Record Drawings of the Federal Express project are accurate for structural design of drainage structures. Existing structures will be analyzed for new loading conditions but the Record Drawings will be utilized as existing conditions.
- 5) AECOM will design new shoulder pavement in the areas identified in Option 11 to only include the areas of the airfield that this project is improving. It is recommended that all taxiways on the airport serving ADG IV be improved with

new shoulder pavement in a sequence and timeframe acceptable to the Federal Aviation Administration.

- 6) AECOM will design taxiway edge light extension and replacement for the extent of the shoulder replacements and along the south side of the new apron edge.

C. MIDDLESEX SCOPE OF SERVICES

- Attend regular meetings with Authority project staff to review design status, interim cost estimates, discuss status of early project deliverables and review procurement and subcontractor solicitation process.
- Conduct weekly, (or more frequently), meetings with AECOM and within the DB Team to review alternative design concepts; conduct constructability reviews; plan review and comment resolution; stakeholder and utility coordination; and discuss other technical and administrative items.
- Conduct preliminary quantity takeoffs and cost estimates. This effort to be led by Middlesex's Estimating Manager, Lead Estimator and his staff. Projected costs will be based on iterative subcontractor quotes as well as historical Middlesex productions.
- Review price submissions from subcontractors and clarify scope. Bidders questions and answers to be posted on Middlesex's bidding website.
- Cost control, budget projections and refinement of cost models based on preliminary pricing, to support creation of the Part 2 GMP.
- Review and update the baseline schedule in P6 and incorporate scope changes and comments from the Authority.
- Submit updated cost estimate with each Design Package
- Submit bid proposals received from prequalified subcontractors, as well as for scopes of work proposed to be self-performed by Middlesex crews. As with all bid packages, we will submit pricing from a minimum of three responsible bidders.
- Implement approved procedure that ensures transparency in the submission and comparison of bids for work items proposed to be self-performed by Middlesex.
- Continue outreach and field coordination with local utilities and stakeholders, as well as TPA airside staff, in advance of commencement of construction activities.
- Day to day administrative support of design, estimating and preconstruction activities; including, document control, invoicing, purchasing, and submission of contract-mandated deliverables.

D. AECOM SCOPE OF SERVICES

The work authorized under this scope is consistent with discussions between AECOM and the Authority. The services shall progress in accordance with the following tasks/phases of design documents and drawings:

Task 1 – Conceptual Plan, 15%

Task 2 – Construction Documents, 60%

Task 3 – Pre-Final (90%) & Permit Set

Task 4 – 100% Documents

Task 5 – Bid & Award

Contract Documents and consulting effort will be structured in accordance with the following:

Task 1 – Conceptual Plans, 15%

1.1. Project Management

Perform administrative functions; coordinate with the team, owner, and City of Tampa.

1.2. Records Research

Research record drawings of existing pump station, existing fuel line design, Federal Express Record Drawings, adjacent projects, and proposed similar pump stations provided by the City and other hydrant fueling systems around the airport.

1.3. Preliminary Design

AECOM will prepare a schematic design of the proposed improvements so that the contractor can prepare an initial construction cost estimate for the proposed work. The pump station relocation schematic design will be prepared using drawings provided by the City of a similar station and plan view drawings of the proposed piping improvements. The fueling preliminary design will consist of proposed horizontal alignment along with preliminary valving and pit locations. The airfield work will be quantified with other pavements for cost estimating.

1.4. Design Narrative

AECOM will provide a narrative to describe elements of the work not yet designed for additional information for contractor pricing.

1.5. QA/QC

AECOM will perform QA/QC on the 15% deliverable in accordance with the QA/QC plan submitted for the project.

1.6. 15% Deliverable

AECOM will combine files, print, and deliver the 15% deliverable to the Authority.

Task 2 - 60% Design

2.1 Project Management

AECOM will coordinate these tasks with the Authority and other team members as required.

2.2 Design

During the 60% design task, we will continue to refine all aspects of each discipline and provide additional design details.

2.3 Plan Production

During the 60% task, we will supplement the design with plan production as required by the contractor, the Authority, or the City of Tampa.

2.4 Quantities

AECOM will assist Middlesex with quantities for cost estimating purposes.

2.5 Outline Specifications

AECOM will provide an outline of specifications.

2.6 QA/QC

AECOM will perform QA/QC on the 60% deliverable in accordance with the QA/QC plan submitted for the project.

2.7 60% Deliverable

AECOM will combine files, print, and deliver the 60% deliverable to the Authority.

Task 3 – Permit PreFinal (90%) Design

3.1 Project Management

AECOM will coordinate these tasks with the Authority and other team members as required.

3.2 Design

During the 90% design task, we will continue to refine all aspects of each discipline and provide additional design details.

3.3 Plan Production

All plan sheets necessary for the permitting, bidding, and construction of each element of this scope will be included in the Permit PreFinal (90%) deliverable to the Authority.

3.4 Permitting

AECOM will prepare, assemble and submit the permit submittal packages based on the 90% Construction Documents including applications, plans, reports and other supporting documents for review by the agencies having jurisdiction. The Client shall be responsible for signing the forms, if required, and for all application fees. Included in this Scope of Services are one (1) response to comments from the Client and all required responses to Request for Additional Information (RAI) for each permit application. The regulatory agency and the associated permit type they review that AECOM anticipates to prepare, assemble, and submit permit applications for, are listed below.

City of Tampa

Approval to construct Waste Water Plans
Approval of the Pump Station Design
FDEP Construction Permit

Southwest Florida Water Management District

Environmental Resource Permit Modification

3.5 Quantities

AECOM will assist Middlesex with quantities for cost estimating purposes.

3.6 Specifications

AECOM will prepare technical specifications based on FAA, FDOT, City Of Tampa, or other CSI based specifications.

3.7 QA/QC

AECOM will perform QA/QC on the 90% deliverable in accordance with the QA/QC plan submitted for the project.

3.8 90% Deliverable

AECOM will combine files, print, and deliver the 90% deliverable to the Authority.

Task 4 – Final Design (100%)

4.1 Project Management

AECOM will coordinate these tasks with the Authority and other team members as required.

4.2 Design

During the Final Design task, we will continue to refine all aspects of each discipline and provide additional design details and provide final documents. We will incorporate changes from the Authority and City of Tampa as required.

4.3 Plan Production

During the Final plan production task, we will incorporate plan sheet changes from the Authority and City of Tampa as required.

4.4 Permitting

AECOM will respond to comments from the Client and all required responses to Request for Additional Information (RAI) for each permit application.

4.5 Quantities

AECOM will assist Middlesex with quantities for cost estimating purposes.

4.6 Specifications

AECOM will prepare technical specifications for each element of work.

4.7 QA/QC

AECOM will perform QA/QC on the 100% deliverable in accordance with the QA/QC plan submitted for the project.

4.8 Final Deliverable

AECOM will combine files, print, and deliver the Final Deliverable to the Authority.

Task 5 – Bid & Award

5.1 Package Plans for Bidding

AECOM will provide sets of plans for bidding as directed by Middlesex. This package is anticipated to bid with the UPS building, landside, and airfield pavement bid package.

5.2 Assist in Addenda Preparation

AECOM will answer questions that arise during bidding and assist in preparation of addenda.

5.3 Attend Prebid Conference

AECOM will send discipline leads to the preconstruction conference to give and overview of the project and answer technical questions. We will prepare technical material for use during the conference as required.

5.4 Issued for Construction Drawings

AECOM will update the documents and incorporate all addenda changes and/or permit changes into the “Issued for Construction” technical documents.

***Deliverables:**

- 15% Conceptual Narrative for Pump Station Relocation and Hydrant Fueling
- 30% Airfield, Lighting, and Storm water (as part of overall 30% deliverable)
- 60% Design Documents (All scope items)
- Pre-final Drawings (90%) & Permit Set (All Scope Items)
- 100% Signed and Sealed Construction Drawings
- Technical Specifications (60% Outline, 90%, and 100%)
- Cost Estimates at each milestone
- Schedule Updates at each milestone

* Deliverables for this Work Order only. Deliverables will be included in overall deliverable to the airport on the same milestone schedule.

EXHIBIT B FEE ESTIMATE

| Project Fee Proposal - THE MIDDLESEX CORPORATION Team - Summary Sheet | | | | | | | | | | |
|--|---|----------------|---------------|----------------|--------------|--------------|-----------------|--------|-------|----------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | |
| Basic Design Services | | 15% | 60% | 90% Permit Set | Final | Bid & Award | Subtotal | DBE % | % DBE | % Construction |
| Engineering & Preconstruction Services | | Design Dev. | Design Dev. | Const. Docs | Final Docs | Services | Part 1 Agmt | of Fee | Goal | Cost |
| | The Middlesex Corporation - COT Pump Station, Hydrant Fueling, and Dual | \$ 6,517.28 | \$ 22,718.08 | \$ 24,362.80 | \$ 25,397.68 | \$ 33,251.68 | \$ 112,247.52 | | | 10,100,000 |
| | AECOM COT Pump Station Relocation | \$ 27,744.00 | \$ 64,997.12 | \$ 60,405.76 | \$ 21,292.16 | \$ 6,723.84 | \$ 181,162.88 | | | 7.84% |
| | AECOM Hydrant Fueling | \$ 35,142.40 | \$ 72,177.92 | \$ 85,125.12 | \$ 25,187.20 | \$ 7,637.76 | \$ 225,270.40 | | | |
| | AECOM Dual Taxilane | \$ 25,676.80 | \$ 60,840.96 | \$ 42,366.72 | \$ 22,412.80 | \$ - | \$ 151,297.28 | | | |
| | Credit portion of \$250k Planning | | | | | | \$ (100,000.00) | | | |
| | Owner Contingency | | | | | | \$ 115,391.92 | | | |
| | Design Phase Sub Total | \$ 95,080.48 | \$ 220,734.08 | \$ 212,260.40 | \$ 94,289.84 | \$ 47,613.28 | \$ 685,370.00 | | | |
| | | | | | | | | -0.6% | | |
| Reimbursable Expenses | | | | | | | | | | |
| | Northwest Survey, Inc. COT Pump Station | \$ 8,400.00 | | | | | \$ 8,400.00 | | | |
| | Northwest Survey, Inc. credit from TW J Dual Taxilane | \$ (12,270.00) | | | | | \$ (12,270.00) | | | |
| | Tierra, Inc. (Trench Drain GPR) Dual Taxilane | \$ 10,500.00 | | | | | \$ 10,500.00 | | | |
| | Sub Total | \$ 6,630.00 | \$ - | \$ - | \$ - | \$ - | \$ 6,630.00 | | | |
| | Subtotal Fee, Allowances, Reimbursable Expenses | \$ 101,710.48 | \$ 220,734.08 | \$ 212,260.40 | \$ 94,289.84 | \$ 47,613.28 | \$ 692,000.00 | | | |

15% Design Fee

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|----------------|----------|----------|-----------|-------------|------------|-----------|------------|-----------|-----------|-------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Proj. Director | PM Const | Superint | DB Coord. | Field Admin | Proc. Mngr | Est. Mngr | Lead Estim | Estimator | Scheduler | Total |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Task -15% Design TMC - Pump Station/Airfield/Refuel | | | | | | | | | | | | |
| HCAA Meetings | | 4 | | | | | 4 | | | | | 8 |
| DB Team Meetings | | 4 | | | 4 | | | | 2 | 4 | | 14 |
| Plans Review and Comments | | | | | 4 | | | | | | | 4 |
| Cost Control | | | | | | | 4 | | | | | 4 |
| Schedule Preparation/Update | | | | | | | | | | | | 0 |
| Contract Administration | | | | | | | | | | | | 0 |
| Quantity Takeoff/Estimating | | | | | | | | | 4 | 8 | | 12 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 8.00 | - | - | 8.00 | - | 8.00 | - | 6.00 | 4.00 | - | 42 |
| Rate | | \$ 67.00 | \$ 60.00 | \$ 66.00 | \$ 67.00 | \$ 25.00 | \$ 67.00 | \$ 77.00 | \$ 64.00 | \$ 31.00 | \$ 38.00 | |
| Subtotal Direct Labor | | \$ 536.00 | \$ - | \$ - | \$ 536.00 | \$ - | \$ 536.00 | \$ - | \$ 384.00 | \$ 124.00 | \$ - | \$ 2,116.00 |
| Subtotal Burdened Labor @ | | | 3.08 | | | | | | | | | \$ 6,517.28 |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|-----------|-----------|-------------|-------------|--------------|-------------|-----------|------|------|--|--------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | Total |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | | | Hours |
| Task -15% Design AECOM - UPS- COT Pump Station | | | | | | | | | | | | |
| Project Management | | 2 | 8 | | | | | | | | | 10 |
| Records Research | | | | | 8 | 8 | 8 | 4 | | | | 28 |
| Preliminary Design | | | | 24 | 40 | 24 | 40 | | | | | 128 |
| Design Narrative | | | | 8 | 16 | 4 | 0 | | | | | 28 |
| QA/QC | | | 4 | 4 | | | | 2 | | | | 10 |
| 15% Deliverable | | | 2 | 2 | | | | | | | | 4 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 2.00 | 14.00 | 38.00 | 64.00 | 36.00 | 48.00 | 6.00 | - | - | | 208 |
| Rate | | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | | | | |
| Subtotal Direct Labor | | \$ 220.00 | \$ 952.00 | \$ 2,280.00 | \$ 3,328.00 | \$ 1,512.00 | \$ 1,728.00 | \$ 180.00 | \$ - | \$ - | | \$ 10,200.00 |
| Subtotal Burdened Labor @ | | | 2.72 | | | | | | | | | \$ 27,744.00 |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |

60% Design Fee

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|----------------|-----------|-----------|-------------|-------------|-------------|-----------|------------|------------|-----------|--------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Proj. Director | PM Const | Superint | DB Coord. | Field Admin | Proc. Mngr | Est. Mngr | Lead Estim | Estimator | Scheduler | Total |
| | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | |
| Basic Design Services | | | | | | | | | | | | |
| Task - 60% Design TMC - Pump Station/Airfield/Refuel | | | | | | | | | | | | |
| HCAA Meetings | | 8 | | | | | | 2 | | | | 10 |
| DB Team Meetings | | 8 | | | 8 | | | 4 | 8 | 8 | 4 | 40 |
| Plans Review and Comments | | 2 | 2 | 2 | 12 | | 4 | | | | | 22 |
| Cost Control | | | | | | | 8 | | | | | 8 |
| Schedule Preparation/Update | | | | | | | | | | | 8 | 0 |
| Contract Administration | | | | | | | 8 | | | | | 8 |
| Quantity Takeoff/Estimating | | | | | | | | | 16 | 32 | | 48 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 18.00 | 2.00 | 2.00 | 20.00 | - | 20.00 | 6.00 | 24.00 | 40.00 | 12.00 | 136 |
| Rate | | \$ 67.00 | \$ 60.00 | \$ 66.00 | \$ 67.00 | \$ 25.00 | \$ 67.00 | \$ 77.00 | \$ 64.00 | \$ 31.00 | \$ 38.00 | |
| Subtotal Direct Labor | | \$ 1,206.00 | \$ 120.00 | \$ 132.00 | \$ 1,340.00 | \$ - | \$ 1,340.00 | \$ 462.00 | \$1,536.00 | \$1,240.00 | \$456.00 | \$ 7,376.00 |
| Subtotal Burdened Labor @ | | | 3.08 | | | | | | | | | \$ 22,718.08 |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|-----------|-----------|-------------|-------------|--------------|-------------|-----------|------|------|--|--------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | Total |
| | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | | | |
| Basic Design Services | | | | | | | | | | | | |
| Task - 60% Design AECOM - UPS -COT Pump Station | | | | | | | | | | | | |
| Project Management | | 4 | 8 | | | | | | | | | 12 |
| Pump Station Design | | | | 16 | 40 | | | | | | | 56 |
| Plan Sheet Production | | | | 16 | 60 | 160 | 120 | | | | | 356 |
| Quantities | | | | 4 | 8 | 8 | 8 | | | | | 28 |
| Outline Specifications | | | | 8 | 16 | | | 4 | | | | 28 |
| QA/QC 60% Construction Documents | | | 2 | 8 | 8 | | | | | | | 18 |
| 60% Deliverable | | | 4 | 4 | 4 | 4 | | 4 | | | | 20 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 4.00 | 14.00 | 56.00 | 136.00 | 172.00 | 128.00 | 8.00 | - | - | | 518 |
| Rate | | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | \$ - | \$ - | | |
| Subtotal Direct Labor | | \$ 440.00 | \$ 952.00 | \$ 3,360.00 | \$ 7,072.00 | \$ 7,224.00 | \$ 4,608.00 | \$ 240.00 | \$ - | \$ - | | \$ 23,896.00 |
| Subtotal Burdened Labor @ | | | 2.72 | | | | | | | | | \$ 64,997.12 |

Permit Set (Pre-Final) Design Fee

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|----------------|-----------|-----------|-------------|-------------|-------------|-----------|-------------|-------------|-----------|--------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Proj. Director | PM Const | Superint | DB Coord. | Field Admin | Proc. Mngr | Est. Mngr | Lead Estim | Estimator | Scheduler | Total |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | |
| Task - 90% Design TMC - Pump Station/Airfield/Refuel | | | | | | | | | | | | |
| HCAA Meetings | | 8 | | | | | | 2 | | | | 10 |
| DB Team Meetings | | 8 | | | 8 | | | 6 | 12 | 12 | 4 | 46 |
| Plans Review and Comments | | 2 | 2 | 2 | 12 | | 4 | | | | | 22 |
| Cost Control | | | | | | | 8 | | | | | 8 |
| Schedule Preparation/Update | | | | | | | | | | | 8 | 0 |
| Contract Administration | | | | | | | 8 | | | | | 8 |
| Quantity Takeoff/Estimating | | | | | | | | | 16 | 32 | | 48 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 18.00 | 2.00 | 2.00 | 20.00 | - | 20.00 | 8.00 | 28.00 | 44.00 | 12.00 | 142 |
| Rate | | \$ 67.00 | \$ 60.00 | \$ 66.00 | \$ 67.00 | \$ 25.00 | \$ 67.00 | \$ 77.00 | \$ 64.00 | \$ 31.00 | \$ 38.00 | |
| Subtotal Direct Labor | | \$ 1,206.00 | \$ 120.00 | \$ 132.00 | \$ 1,340.00 | \$ - | \$ 1,340.00 | \$ 616.00 | \$ 1,792.00 | \$ 1,364.00 | \$ 456.00 | \$ 7,910.00 |
| Subtotal Burdened Labor @ | | | 3.08 | | | | | | | | | \$ 24,362.80 |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|--|-----------|-------------|-------------|-------------|--------------|-------------|-----------|------|------|--|--------------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | Total |
| Basic Design Services | | Hours | Hours | Hours | Hours | Hours | Hours | Hours | | | | |
| Task - 90% Design AECOM - UPS - COT Pump Station | | | | | | | | | | | | |
| Project Management | | 4 | 8 | | | | | | | | | 12 |
| Pump Station Design | | | | 8 | 24 | 8 | | | | | | 40 |
| Plan Sheet Production | | | | 16 | 60 | 80 | 80 | | | | | 236 |
| Permitting | | | 4 | 40 | 16 | | | | | | | 60 |
| Quantities | | | | 2 | 8 | 8 | 8 | | | | | 26 |
| Specifications | | | | 16 | 16 | | | 8 | | | | 40 |
| QA/QC 90% Construction Documents | | | 2 | 16 | 8 | | | | | | | 26 |
| 90% Deliverable | | | 2 | 2 | 4 | 4 | | | | | | 12 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | 4.00 | 16.00 | 100.00 | 136.00 | 100.00 | 88.00 | 8.00 | - | - | | 452 |
| Rate | | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | \$ - | \$ - | | |
| Subtotal Direct Labor | | \$ 440.00 | \$ 1,088.00 | \$ 6,000.00 | \$ 7,072.00 | \$ 4,200.00 | \$ 3,168.00 | \$ 240.00 | \$ - | \$ - | | \$ 22,208.00 |
| Subtotal Burdened Labor @ | | | 2.72 | | | | | | | | | \$ 60,405.76 |

Project Fee Proposal - THE MIDDLESEX CORP Team

Final Design Fee

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|----------------|-----------|-----------|-----------|-------------|-------------|-----------|------------|------------|-----------|--------------|--|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | Proj. Director | PM Const | Superint | DB Coord. | Field Admin | Proc. Mngr | Est. Mngr | Lead Estim | Estimator | Scheduler | Total | |
| | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | |
| Basic Design Services | | | | | | | | | | | | |
| Task - Final Design TMC - Pump Station/Airfield/Refuel | | | | | | | | | | | | |
| HCAA Meetings | 4 | | | | | | 2 | | | | 6 | |
| DB Team Meetings | 8 | 4 | 4 | 8 | | 8 | 4 | 8 | 8 | 4 | 52 | |
| Plans Review and Comments | 4 | 4 | 4 | 4 | | 4 | | | | | 20 | |
| Cost Control | | | | | | 8 | | | | | 8 | |
| Schedule Preparation/Update | | | | | | | | | | 8 | 0 | |
| Contract Administration | | | | | | 8 | | | | | 8 | |
| Quantity Takeoff/Estimating | | | | | | | | 16 | 40 | | 56 | |
| | | | | | | | | | | | 0 | |
| Subtotal Hours | 16.00 | 8.00 | 8.00 | 12.00 | - | 28.00 | 6.00 | 24.00 | 48.00 | 12.00 | 150 | |
| Rate | \$ 67.00 | \$ 60.00 | \$ 66.00 | \$ 67.00 | \$ 25.00 | \$ 67.00 | \$ 77.00 | \$ 64.00 | \$ 31.00 | \$ 38.00 | | |
| Subtotal Direct Labor | \$ 1,072.00 | \$ 480.00 | \$ 528.00 | \$ 804.00 | \$ - | \$ 1,876.00 | \$ 462.00 | \$1,536.00 | \$1,488.00 | \$456.00 | \$ 8,246.00 | |
| Subtotal Burdened Labor @ | | 3.08 | | | | | | | | | \$ 25,397.68 | |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|-----------|-----------|-------------|-------------|--------------|-----------|-----------|-------|-------|-------|--------------|--|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | Total | |
| | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | |
| Basic Design Services | | | | | | | | | | | | |
| Task - Final Design AECOM - UPS - COT Pump Station | | | | | | | | | | | | |
| Project Management | 2 | 4 | | | | | | | | | 6 | |
| Pump Station Design | | | 8 | 24 | | | | | | | 32 | |
| Plan Production | | | 4 | 4 | 24 | 8 | 2 | | | | 42 | |
| Permitting | | 1 | 4 | 8 | | | | | | | 13 | |
| Quantities | | | 2 | 4 | 8 | | | | | | 14 | |
| Specifications | | | 4 | 4 | | | 4 | | | | 12 | |
| QA/QC 100% Construction Documents | | 4 | 8 | 4 | | | | | | | 16 | |
| 100% Deliverable | | 4 | 4 | 4 | 4 | | | | | | 16 | |
| | | | | | | | | | | | 0 | |
| Subtotal Hours | 2.00 | 13.00 | 34.00 | 52.00 | 36.00 | 8.00 | 6.00 | - | - | - | 151 | |
| Rate | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | \$ - | \$ - | \$ - | | |
| Subtotal Direct Labor | \$ 220.00 | \$ 884.00 | \$ 2,040.00 | \$ 2,704.00 | \$ 1,512.00 | \$ 288.00 | \$ 180.00 | \$ - | \$ - | \$ - | \$ 7,828.00 | |
| Subtotal Burdened Labor @ | | 2.72 | | | | | | | | | \$ 21,292.16 | |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|-----------|-------|-------|-------|--------------|----------|-------|-------|-------|-------|-------|--|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | Total | |
| | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | |
| Basic Design Services | | | | | | | | | | | | |
| Task - Final Design AECOM - Hydrant Fueling | | | | | | | | | | | | |
| Project Management | 8 | 16 | | | | | | | | | 24 | |
| Fueling Design/Production | | | 8 | 24 | 40 | 24 | | | | | 96 | |

Bid and Award Fee

| | | | | | | | | | | | | |
|----------------------------------|--|-----------|-----------|-----------|-------------|-----------|----------|----------|------|------|--|-------------|
| Assist in Addenda Preparation | | | | 4 | 4 | | | | | | | 8 |
| Attend PreBid Conference | | | 2 | 4 | | | | | | | | 6 |
| Issued for Construction Drawings | | | | 4 | 16 | 16 | | | | | | 36 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | | - | 2.00 | 16.00 | 20.00 | 16.00 | - | - | - | - | | 0 |
| Rate | | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | \$ - | \$ - | | |
| Subtotal Direct Labor | | \$ - | \$ 136.00 | \$ 960.00 | \$ 1,040.00 | \$ 672.00 | \$ - | \$ - | \$ - | \$ - | | \$ 2,808.00 |
| Subtotal Burdened Labor @ | | | 2.72 | | | | | | | | | \$ 7,637.76 |

| Project Fee Proposal - THE MIDDLESEX CORP Team | | | | | | | | | | | | |
|--|-----------|----------|----------|----------|--------------|----------|----------|-------|-------|-------|-------|-------|
| Work Order 19-01C for UPS South Air Cargo Expansion at Tampa International Airport | | | | | | | | | | | | |
| HCAA Project Number 8240 19 | | | | | | | | | | | | |
| 7/18/2019 | | | | | | | | | | | | |
| Scope/Task | Principal | PM | SE | E | Sr. Designer | Designer | Admin | | | | | Total |
| | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours | Hours |
| Basic Design Services | | | | | | | | | | | | 0 |
| Task - Bid & Award AECOM - Dual Taxilane | | | | | | | | | | | | 0 |
| Package Plans for Bidding | | | | | | | | | | | | 0 |
| Assist in Addenda Preparation | | | | | | | | | | | | 0 |
| Attend PreBid Conference | | | | | | | | | | | | 0 |
| Issued for Construction Drawings | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Subtotal Hours | - | - | - | - | - | - | - | - | - | - | | 0 |
| Rate | \$ 110.00 | \$ 68.00 | \$ 60.00 | \$ 52.00 | \$ 42.00 | \$ 36.00 | \$ 30.00 | \$ - | \$ - | | | |
| Subtotal Direct Labor | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | | | \$ - |
| Subtotal Burdened Labor @ | | | 2.72 | | | | | | | | | \$ - |



Northwest Surveying, Inc.
A certified MBE/DBE/SBE Corporation
8409 Sunstate Street. Tampa, Florida 33634-1309
(813) 889-9236; Fax: (813) 886-3315
www.nsitampa.com

June 28, 2019

Mr. Dennis Combs, PE
Aecom
7650 West Courtney Campbell Causeway, Suite 700
Tampa, Florida 33607-1462

RE: 8240-19 Air Cargo Expansion
Sanitary Sewer Pump Station
NSI Proposal No. 190610
NSI Project No. 1812-050

Dear Mr. Combs:

Enclosed please find our fee proposal for surveying services at the above referenced site.

The scope of work is a topographic survey of the area shown on your reference map attached hereto.

Specifically, we will perform a 25' grid topographic survey, locate pavement edges, all corners of the last row of PCC slabs, pipe sizes, shape, type material, and invert elevations where access is possible. We will insure there are no gaps between the limits of the previous survey, obtain TOB and TOS for pond and swales.

Our fee to perform the services described above will be **\$7,600.00.**

Our fee to prepare and Easement Sketch and Description will be **\$800.00.**

We will require 2 weeks from your notice to proceed date to complete the survey and submit an Autocad 2019 Civil 3D file.

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

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

Sincerely,

NORTHWEST SURVEYING, INC.

A handwritten signature in black ink that reads "Gerald Silva". The signature is written in a cursive, flowing style.

Gerald Silva, PSM
President

UPS Air Cargo

Write a description for your map.

Legend

- ADDITIONAL SURVEY LIMITS (For Pump Station Relocation)
- Last slab all corners to establish joint pattern
 - 25' Grid for topo in grass
 - Locate all pavement edges
 - Inverts and weir elevations
 - Locate all surface utilities
 - Match up with limits of previous survey.
 - Define TOB and TOS for Pond and swales (I believe this is already picked up in the original survey)

W Ohio Ave

W Trask St

Dazzo Ave

N Westshore Blvd

W Woodlawn Ave

W Tampa Bay Blvd

Tampa Bay Blvd

Air Cargo Rd





February 28, 2019

AECOM
7650 W Courtney Campbell Causeway
Suite 700
Tampa, Florida 33607-1462, U.S.

Attn: Mr. Dennis Combs, P.E.

**RE: Proposal for Geotechnical Engineering Services
Tampa International Airport
HCAA Project No. 8240 19
GPR Subsurface Investigation
Hillsborough County, Florida
Tierra Project No.: 6511-18-187**

Mr. Combs:

Tierra, Inc. (Tierra) appreciates the opportunity to submit the enclosed proposal to provide geotechnical engineering services for the above referenced project. This proposal includes our understanding of the project, proposed scope of services, and estimated fees.

Project Information

The project is located within Taxilane K in the vicinity of a trench drain that runs along the Taxilane. The length of the trench drain is approximately 1,300 feet. The purpose of this investigation is to perform a Ground Penetration Radar (GPR) survey along the trench drain and make a determination, if evident, if subsurface voids are present. Based on the results of the GPR survey, recommendations will be made for future investigation and/or remediation options.

Geotechnical Scope of Services

The objective of our study will be to perform a GPR survey to determine, if evident, subsurface voids are present. Based on the results of the GPR survey, recommendations will be made for future investigation and/or remediation. In order to meet the preceding objectives, we propose to provide the following services:

1. Perform a geotechnical field study consisting of GPR transect lines along the entire or portions of the trench drain alignment.
2. Prepare an engineering report in accordance with the request for proposal and the scope of services herein that summarizes the course of study pursued, the field data generated, and our engineering recommendations in each of the pertinent topic areas.

Proposal for Geotechnical Engineering Services
Tampa International Airport
HCAA Project No. 8240 19
GPR Subsurface Investigation
Hillsborough County, Florida
Tierra Project No.: 6511-18-187
Page 2 of 2

SERVICE FEE

We estimate the GPR field services could take up to 4 days to complete a scan of the entire trench drain. If localized areas are selected, Tierra would only invoice for actual GPR field days.

It is estimated fee for performance of the above-outlined services will be up to **\$10,301.74** based on Tierra's attached Fee Schedule. We will provide you with verbal results of tested conditions and immediately notify you should conditions impacting our scope, schedule, or cost of services occur. The proposal is based on the assumption that no hazardous materials exist on-site that would impact our investigation.

We appreciate the opportunity to offer our services to you. We look forward to working with you once again. If this proposal is acceptable, please sign below as notice to proceed and return one (1) copy of this proposal intact to our office. Should you have any questions with regard to this proposal, please do not hesitate to contact this office.

Respectfully Submitted,

TIERRA, INC.

Daniel R. Ruel, P.E.
Geotechnical Engineer

Marc E. Novak, P.E.
Senior Geotechnical Engineer

| Item Description | Unit | Unit Price | Quantity | Total |
|--|------|------------|----------|---------------------|
| Airport Stand-by to Access Boring or Test Locations and Clean-up | Hour | \$ 210.00 | 4 | \$ 840.00 |
| 434-Geo Ground Penetrating Radar (GPR) Survey (Field Crew) | Hour | \$ 200.00 | 32 | \$ 6,400.00 |
| Senior Geotechnical Engineer | Hour | \$ 176.85 | 2 | \$ 353.70 |
| Geotechnical Engineer | Hour | \$ 152.19 | 4 | \$ 608.76 |
| Engineer | Hour | \$ 115.44 | | \$ - |
| Engineering Intern | Hour | \$ 83.67 | 8 | \$ 669.36 |
| Senior Scientist | Hour | \$ 123.84 | | \$ - |
| Sr Engineering Technician | Hour | \$ 87.00 | 8 | \$ 696.00 |
| Designer | Hour | \$ 91.74 | 8 | \$ 733.92 |
| Secretary/Clerical | Hour | \$ 101.67 | | \$ - |
| Total Estimated Fee | | | | \$ 10,301.74 |