



# HILLSBOROUGH COUNTY AVIATION AUTHORITY

PART 1 CONTRACT FOR DESIGN-BUILD SERVICES

BETWEEN

HILLSBOROUGH COUNTY AVIATION AUTHORITY

AND

SUFFOLK CONSTRUCTION COMPANY, INC.

PROJECT NO. 8435 22

AIRSIDES A AND E SECURITY SCREENING  
CHECKPOINT EXPANSION

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DATED: FEBRUARY 3, 2022

CONTRACT BETWEEN  
OWNER AND DESIGN-BUILDER

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## PART 1 CONTRACT

This Part 1 Contract (Contract) for Design-Build Services is made and entered into this 3<sup>rd</sup> day of February, 2022 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 Suffolk Construction Company, Inc., a Massachusetts Corporation, authorized to do business in the State of Florida, hereinafter referred to as the "Design-Builder".

For the following Project: Airsides A and E Security Screening Checkpoint Expansion, Project No. 8435 22.

The architectural/engineering services described in Article 1 will be provided contractually through the Design-Builder by the following person or entity who is lawfully licensed to practice architecture/engineering:

AECOM Architecture and Interior

Normal civil, structural, mechanical and electrical engineering services will be provided contractually through the Design-Builder as indicated below:

AECOM Civil  
AECOM Structural  
AECOM Fire Protection/Alarm  
AECOM Security  
VoltAir, Inc for MEP  
Arora for Public Address and Tel/Data

The Owner and Design-Builder agree as set forth below.

### TERMS AND CONDITIONS

#### **ARTICLE 1 DESIGN-BUILDER**

##### **1.1 SERVICES**

- 1.1.1 Conceptual, schematic, design development, and construction documents, budget, and schedule comprise the services required to accomplish the preparation and submission of the Design-Builder's Guaranteed Maximum Price (GMP) Proposal, as well as the preparation and submission of any modifications to the GMP Proposal prior to execution of the Part 2 Contract. These services are defined as Work (Work) throughout this Contract.

## 1.2 RESPONSIBILITIES

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 August 5, 2021, entitled "Request for Qualifications For Airsides A and E Security Screening Checkpoint Expansion at Tampa International Airport", which is incorporated by reference herein, and the Design-Builder's fee and scope proposal dated January 21, 2022, entitled "Airsides A and E Security Screening Checkpoint Expansion, Authority Project No. 8435 22," which is attached hereto 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 proposal
- 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

1.2.2 All design services provided by or through Design-Builder pursuant to this Contract must be performed by qualified design professionals (Designer). The contractual obligations of such professional persons or entities are undertaken and performed in the interest of the Design-Builder. Design-Builder designates Cliff Page, whose business address is 1001 Water Street Suite 400 Tampa, Florida 33602, to serve as the Project Director. The Project Director will be authorized and responsible to act on behalf of the Design-Builder with respect to directing, coordinating and administering all aspects of the services to be provided and performed under this Contract. Design-Builder designates Pete Tuffo, whose title is President, whose business address is 1001 Water Street Suite 400 Tampa Florida 33602, and who will have full authority to bind and obligate the Design-Builder on all matters arising out of or relating to this Contract. The Design-Builder agrees that the Project Director will devote whatever time is required to satisfactorily manage the services to be provided and performed by the Design-Builder hereunder. Any replacement of the Project Director will be subject to the prior approval and acceptance of the Owner.

1.2.3 The agreements between the Design-Builder and the persons or entities identified in this Contract as providing architectural and engineering services, and any subsequent modifications thereto, must be in writing. These agreements, including financial arrangements with respect to this Project, must be promptly and fully disclosed to the Owner upon request and must have met all requirements for openness and a non-restrictive solicitation process. Though the contractual obligations of such professional persons or entities are undertaken and performed in the interest of the Design-Builder, it is expressly acknowledged and agreed by Design-Builder that Owner

will be identified as an intended third party beneficiary of the agreements between Design-Builder and the design professionals.

- 1.2.4 Construction budgets must be prepared by qualified professionals, cost estimators or contractors retained by and acting in the interest of the Design-Builder.
- 1.2.5 The Design-Builder will be responsible to the Owner for acts and omissions of the Design-Builder's employees, subcontractors and their agents and employees, and other persons, including the Designer and other design professionals, performing any portion of the Design-Builder's obligations under this Contract.
- 1.2.6 Prior to the termination of the services of the Designer or any other design professional designated in this Contract, the Design-Builder will identify to the Owner in writing another design professional, with respect to whom the Owner has no reasonable objection, who will provide the services originally to have been provided by the Designer or other design professional whose services are being terminated.
- 1.2.7 If the Design-Builder believes or is advised by the Designer or by another design professional retained to provide services on the Project that implementation of any instruction received from the Owner would cause a violation of any applicable law, the Design-Builder must promptly notify the Owner in writing. Neither the Design-Builder nor the Designer will be obligated to perform any act which violates any applicable law.
- 1.2.8 Nothing contained in this Contract will create a contractual relationship between the Owner and any person or entity other than the Design-Builder, except for the third party beneficiary obligation set forth in Paragraph 1.2.3 above.
- 1.2.9 Press releases or other specialized publicity documents, including the Design-Builder's advertising and news bulletins, which are related to this Contract and are intended by the Design-Builder for the press, broadcasting, or television, will be drawn up in consultation with the Owner. Except as otherwise required by law or regulation, the Design-Builder will not release or distribute any materials or information relating to this Contract or containing the name of the Owner or any of its employees without prior written approval by an authorized representative of the Owner. Design-Builder shall incorporate the terms of this provision into all of its contracts, subcontracts and other agreements of any tier and require all contractors, consultants, subcontractors and subconsultants to similarly incorporate the terms of this provision in their agreements.
- 1.2.10 During the duration of this Project, other construction and/or design-build projects will be underway at Tampa International Airport. It will be the responsibility of the Design-Builder to coordinate its Work with these other projects. Any problems with

such coordination will be brought to the attention of the Owner who will direct the affected parties accordingly.

- 1.2.11 The Design-Builder is required to hire a qualified consultant for the design phase of the Project.

### **1.3 BASIC SERVICES**

- 1.3.1 The Basic Services to be performed must commence on the date established in an executed work order and must be completed in accordance with Design-Builder's fee and scope proposal. Work orders are intended to be discrete working documents that will provide, in summary form, the background and factual context within which a particular work element or series of work elements will be completed by the Design-Builder. Each work order will include a scope of services, level of effort and related costs. Work orders will be construed to be in addition to, supplementary to, and consistent with the provisions of the Design-Builder's fee and scope proposal. Upon request by the Owner, Design-Builder will prepare and submit a work order to the Owner for review and approval. Work order forms will be provided by the Owner along with a detailed outline of design deliverables. Contracts involving multiple project numbers or airport locations will require work orders to identify basic services and reimbursement expense amounts per project and/or location. Supporting backup of the work classification, raw rates, overhead and weighted rate calculation will be submitted in Excel format when the work order is submitted.

- 1.3.2 The Design-Builder will provide a preliminary evaluation of the Owner's Project and Project budget requirements, each in terms of the other.

- 1.3.3 The Design-Builder will visit the Project site, become familiar with the local conditions, and correlate observable conditions with the requirements of the Owner's Project, schedule, and budget.

- 1.3.4 The Design-Builder will review laws applicable to design and construction of the Project, correlate such laws with the Owner's Project requirements and advise the Owner if any Project requirement may cause a violation of such laws. Necessary changes to the Owner's Project will be accomplished by appropriate written modification or disclosed as described in Paragraph 1.3.6. For the plans, specifications, construction contract documents, and any and all other engineering, construction and contractual documents produced by the Design-Builder, the Design-Builder will certify that:

- 1.3.4.1 The plans, specifications, construction contract documents, and any and all other engineering, construction and contractual documents shall be developed in

accordance with sound engineering and design principles, and with generally accepted professional standards.

1.3.4.2 The plans, specifications, construction contract documents, and any and all other engineering, construction and contractual documents shall be consistent with the intent of the Project as defined in the FDOT Public Transportation Grant Agreement.

1.3.4.3 A review of the certification requirements listed in Section B.2. of Exhibit E of the FDOT Public Transportation Grant Agreement and a determination as to their applicability to this Project is performed.

1.3.4.4 The plans shall comply with all applicable laws, ordinances, zoning and permitting requirements, public notice requirements, and other similar regulations.

1.3.5 The Design-Builder will comply fully with all applicable federal, state, county, municipal and other governmental laws, executive orders, wage, hour and labor, equal employment opportunity, disadvantaged business enterprises, pollution control and environmental regulations, applicable national and local codes, Florida Department of Transportation (FDOT) Policies, Guidelines, Standards, Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Commonly referred to as the "Florida Green Book"), Manual on Uniform Traffic Control Devices and requirements, FAA Advisory Circulars, and Owner's Rules and Regulations. Any projects with FDOT funding require the Design-Builder to comply with all applicable provisions of the FDOT Public Transportation Grant Agreement. The Design-Builder will obtain all necessary permits, pay all required charges, fees and taxes and otherwise perform these services in a legal manner. In the event that any construction occurs on FDOT right of way, the Design-Builder shall comply with all FDOT requirements contained in Exhibit C of the FDOT Public Transportation Grant Agreement.

1.3.6 The Design-Builder will review with the Owner alternative approaches to design and construction of the Project.

1.3.7 The Design-Builder will submit to the Owner for Owner's approval, the Design-Builder's plan for the competitive process the Design-Builder will use in obtaining subcontractor bids for the development of the GMP Proposal. The plan will include, but not be limited to, dates of subcontractor pre-bid meetings, bid submittal dates, analysis process of bids after receipt, subcontractors bid sheets by bid packages, determination of bids to be included in the GMP proposal and the dates the Design-Builder will meet with the Owner to review the subcontractor bids.

- 1.3.8 The Design-Builder will submit to the Owner for Owner's approval, the Design-Builder's plan for all self-performed Work on specific bid packages. The Design-Builder will detail how it will obtain competitive bids in addition to its own bid on those specific bid packages to ensure fairness and transparency once the bids are received and opened. The Design-Builder will also detail its analysis process of its own bids versus the subcontractor bids received.
- 1.3.9 The Design-Builder will submit to the Owner a GMP Proposal, including the final design documents, a statement of the proposed guaranteed maximum price and a proposed guaranteed completion date of the Project. Final design documents will consist of final construction design drawings, specifications or other documents sufficient to establish the size, quality and character of the entire Project including its architectural, structural, mechanical and electrical systems, and materials and such other elements of the Project as may be appropriate. Deviations from the Owner's Project will be disclosed and expressly highlighted in the GMP Proposal. If the GMP Proposal is accepted by the Owner, the parties will then execute the Part 2 Contract. Notwithstanding anything herein to the contrary, Owner reserves the absolute right, in its sole discretion, to reject the GMP Proposal and not execute the Part 2 Contract for any or no reason whatsoever, or to terminate this Contract in accordance with Article 8. In such event, all final design documents, including all Project Documents (as defined in Paragraph 3.1), will become the property of the Owner and Owner will be entitled to retain and use all such Project Documents as set forth in Paragraphs 3.1 and 8.5 herein.
- 1.3.10 The Design-Builder is required to provide all information and supporting documentation required to enable the Owner to receive or comply with any applicable state or federal grants.
- 1.3.11 When the Design-Builder considers that the whole Work, or a portion thereof designated in the Part 2 Contract Documents for separate completion, is complete, the Design-Builder shall notify the Owner in writing of the completion of the portion or the whole of the construction; and for all design work that originally required certification by a Professional Engineer, this notification shall contain an Engineer's Certification of Compliance, signed and sealed by a Professional Engineer, the form of which is attached to the FDOT Public Transportation Grant Agreement. The certification shall state that work has been completed in compliance with the Project construction plans and specifications. If any deviations are found from the approved plans or specifications, the certification shall include a list of all deviations along with an explanation that justifies the reason to accept each deviation.

#### **1.4 ADDITIONAL SERVICES**



- 1.4.1 The Additional Services described below will be provided by the Design-Builder and paid for by the Owner if authorized and confirmed in writing by the Owner.
  - 1.4.1.1 Making revisions in the final design documents, budget or other documents when such revisions are not the result of the fault or neglect of the Design-Builder or anyone for whom the Design-Builder is responsible and are:
    - 1.4.1.1.1 Inconsistent with approvals or instructions previously given by the Owner, including substantial revisions made necessary by adjustments in the Owner's Project or Project budget;
    - 1.4.1.1.2 Due to substantial changes required as a result of the Owner's failure to render decisions in a timely manner.
  - 1.4.1.2 Providing more extensive programmatic criteria than that furnished by the Owner as described in Paragraph 2.1 and other Contract Documents.
  - 1.4.1.3 Providing such other design-build services that may be required for the successful completion of the Project not otherwise covered herein.

**ARTICLE 2  
OWNER**

**2.1 RESPONSIBILITIES**

- 2.1.1 The Owner is the person or entity identified as such in this Contract and is referred to throughout the Contract Documents as if singular in number.
- 2.1.2 This Contract will be administered by the Owner's Chief Executive Officer or designee.
- 2.1.3 The Owner will provide full information in a timely manner, as requested by Design-Builder, regarding requirements for the Project, including a written plan which will set forth the Owner's objectives, schedule, constraints and criteria. The Owner will designate a representative authorized to act on the Owner's behalf with respect to the Project. The term "Owner" means Owner or Owner's other authorized representative(s) as notified by the Owner in writing.
- 2.1.4 The Owner will establish and update an overall budget for the Project, including reasonable contingencies. This budget will not constitute the Contract sum.

- 2.1.5 The Owner will render decisions pertaining to Project Documents submitted by the Design-Builder in a timely manner in order to avoid unreasonable delay in the orderly and sequential progress of the Design-Builder's services. The Owner may obtain independent review of the Project Documents by a separate architect, engineer, contractor, or cost estimator under contract to or employed by the Owner. Such independent review will be undertaken at the Owner's expense in a timely manner so as not to unreasonably delay the orderly progress of the Design-Builder's services. Design-Builder will ensure Owner is provided reasonably adequate time that permits Owner to render its decisions and conduct independent reviews of Project Documents in a timely manner.
- 2.1.6 Upon written request, the Owner will make available record documents and drawings in its possession, of which it is aware, for any existing buildings and/or facilities. To the extent known and in its possession, Owner will make available to the Design-Builder prior to and during the performance of the Work record documents and Drawings pertaining to the existing buildings and/or facilities relative to this Project. Record documents and Drawings will not be considered a part of the Contract Documents. Owner does not warrant to the Design-Builder the accuracy or completeness of such record documents and Drawings and the Design-Builder will be solely responsible for all assumptions made in reliance thereupon. Record documents and Drawings are not warranted or intended to be complete depictions of existing conditions, nor do they necessarily indicate concealed conditions. The locations of electrical conduit, telephone lines and conduit, computer cables, FAA cables, storm lines, sanitary lines, irrigation lines, gas lines, mechanical apparatus and appurtenances, HVAC piping/ductwork and plumbing may only appear schematically, if at all, and the actual location of such equipment and lines is in many cases unknown.
- 2.1.7 The Owner will disclose, to the extent known, the results and reports of prior tests, inspections or investigations conducted for the Project involving: structural or mechanical systems; chemical, air and water pollution; hazardous materials; or other environmental and subsurface conditions. The Owner will disclose all information known to the Owner regarding the presence of pollutants at the Project site. The Owner does not warrant the accuracy or completeness of any such information and accepts no responsibility therefore and the Design Builder will be solely responsible for all assumptions made in reliance thereupon.
- 2.1.8 The Owner will furnish all legal, accounting and insurance counseling services as the Owner may require at any time for the Project, including such auditing services as are needed to verify the Design-Builder's applications for payment.
- 2.1.9 The Owner will promptly obtain easements, zoning variances, and legal authorizations regarding Project site utilization where essential to the execution of the Owner's Project.

- 2.1.10 Those services, information, surveys, and reports described in Paragraphs 2.1.6 through 2.1.9 which are within the Owner's control will be furnished at the Owner's expense and are not part of the Contract Documents. The Owner does not warrant or certify the accuracy or completeness of any services, information, surveys or reports.
- 2.1.11 The Owner may communicate with persons or entities employed or retained by the Design-Builder, unless otherwise instructed for reasonable cause not to do so in writing by the Design-Builder.

**ARTICLE 3**  
**OWNERSHIP AND USE OF DOCUMENTS AND ELECTRONIC DATA/RETENTION AND**  
**MAINTENANCE OF PUBLIC RECORDS**

- 3.1 Design-Builder acknowledges and agrees that all records, documents, drawings, notes, tracings, plans, specifications, maps, evaluations, reports and other technical data and electronic data, instruments of service (other than working papers), including but not limited to, all Architectural Works as defined by the federal Architectural Works Copyright Protection Act (whether hard copy or electronically stored), prepared, developed or furnished by Design-Builder or the design professional(s) employed or retained by the Design-Builder under this Contract (Project Documents) will be and remain the property of the Owner. Project Documents will be deemed to be works made for hire, and all right, title and interest in and to the Project Documents will be vested in Owner. Design-Builder will take all actions necessary to secure for Owner all such right, title and interest. Design-Builder warrants that all materials comprising the Project Documents are original with Design-Builder and have not been copied or derived from any other material without the express written consent of the owner, proprietor and/or copyright holder of that other material, and are not subject to any other claim of copyright by any other person. Design-Builder will obtain any and all licenses necessary for the production and preparation of the Project Documents including, without limitation, licenses for the use of any material subject to copyright by other parties. Design-Builder will assign to Owner any and all rights, including any copyrights, in the Project Documents that Design-Builder or the design professional(s) employed or retained by the Design-Builder on this Project may possess now or in the future, and Design-Builder and its design professional(s) will claim no rights adverse to Owner in the Project Documents. The Project as designed by Design-Builder under this Contract, may be reused or repeated by Owner at Owner's option or discretion at any time or times, including but not limited to, completion, addition, renovation, maintenance, reconstruction or remodeling of the Project and construction of new projects. Design-Builder hereby grants its consent to reuse of the Project Documents by Owner for any and all such purposes. The Design-Builder shall retain its rights to all standard elements contained within the design, including standard details, specifications, or other design materials

generated and authorized by Design-Builder for its repeated, regular and ongoing use in plans, specifications, reports or other instruments of service for its clients. The Design-Builder will incorporate the terms of this Paragraph in all contracts with design professionals employed or retained by the Design-Builder to perform services on the Work covered by this Contract.

- 3.2 Submission or distribution of the Design-Builder's documents to meet official regulatory requirements or for similar purposes in connection with the Project is not to be construed as publication in derogation of the rights reserved in Paragraph 3.1.
- 3.3 Chapter 119, Fla. Statutes Requirement

**IF THE DESIGN-BUILDER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE DESIGN-BUILDER'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:  
(813) 870-8721, [ADMCENTRALRECORDS@TAMPAAIRPORT.COM](mailto:ADMCENTRALRECORDS@TAMPAAIRPORT.COM),  
HILLSBOROUGH COUNTY AVIATION AUTHORITY, P.O. BOX 22287,  
TAMPA FL 33622.**

Design-Builder agrees in accordance with Florida Statute Section 119.0701 to comply with public records laws including the following:

- a. Keep and maintain public records required by the Owner in order to perform the Work contemplated by this Contract.
- b. Upon request from the Owner's custodian of public records, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Fla. Stat. or as otherwise provided by law.
- c. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract Term and following completion of the Contract.
- d. Upon completion of this Contract, keep and maintain public records required by the Owner to perform the Work. Design-Builder shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner, upon request from the Owner's custodian of public records, in a format that is compatible with the information technology

systems of the Owner.

#### **ARTICLE 4 TIME**

- 4.1 Time is of the essence. Services to be rendered by the Design-Builder will commence subsequent to the execution of this Contract by the effective date of an executed work order issued by the Owner. The Owner reserves the right to stop and start work or cancel or postpone any executed work order or portion thereof at any time with seven days written notice to Design-Builder. Any delay to Design-Builder resulting therefrom will be handled in accordance with Paragraph 4.4 below. Notwithstanding the same, time is of the essence with respect to the performance of this Contract.
- 4.2 Should the Design-Builder fail to commence, provide, perform or complete any of the services to be provided in a timely and diligent manner, in addition to any other rights or remedies available to the Owner, the Owner, at its sole discretion and option, may withhold any and all payments due and owing to the Design-Builder until such time as the Design-Builder resumes performance of its obligations in such a manner so as to satisfy the Owner.
- 4.3 Upon the request of the Owner, the Design-Builder will prepare a schedule for the performance of the Basic and Additional Services which will not exceed the time limits contained in Design-Builder's fee and scope proposal referenced in Paragraph 1.2.1.2 and will include reasonably sufficient time required for the Owner's review and approval of submissions by authorities having jurisdiction over the Project.
- 4.4 If the Design-Builder is delayed in the performance of critical path services under this Contract through no fault of the Design-Builder, any applicable schedule will be adjusted. Design-Builder expressly acknowledges and agrees that it will receive no damages for delay. Design-Builder's sole remedy, if any, against Owner will be the right to seek an extension of time to the applicable schedule; provided, however, the granting of any such time extension will not be a condition precedent to the aforementioned "no damages for delay" provision. Design-Builder will incorporate the terms of this Paragraph into all of its subcontracts and subconsultant agreements and require all subcontractors and subconsultants to similarly incorporate such terms into their sub-subcontracts and sub-subconsultant agreements.

#### **ARTICLE 5 PAYMENTS**

- 5.1 Refer to ARTICLE 9 - BASIS OF COMPENSATION for additional requirements.

- 5.2 Subsequent payments for Basic Services, Additional Services, and Reimbursable Expenses provided for in this Contract will be made monthly on the basis set forth in Article 9.
- 5.3 With the exception of the month of September, all applications for payment will be submitted to the Owner by the twenty-fifth of each month. In the event that the twenty-fifth of the month falls on a Saturday or Sunday or holiday, applications for payment are due the first business day prior to the twenty-fifth of that month. Payment will be made by the twenty-fifth of the following month. Applications for payment submitted more than 20 days prior to the twenty-fifth of the month will be rejected and returned. Due to the end of fiscal year financial closeout, September applications for payment will be submitted by September 19th, and in the event that the 19th falls on a Saturday or Sunday, applications for payment are due the first business day prior and subsequent payments will be made the second Friday of October. Such applications for payment submitted more than 20 days prior to the second Friday of October will be rejected and returned.
- 5.4 The Design-Builder will submit to the Owner via the Records Management Department, two executed and notarized originals and two copies of an itemized Application for Payment prepared on a form supplied by the Owner. The Owner will approve, disapprove or adjust the Design-Builder's application for payment within seven days after receipt. The Owner will notify the Design-Builder in writing of any reasons for withholding payment in whole or in part. Except as noted above with respect to the September application for payment, Owner will make payment by the twenty-fifth of the following month in which the application for payment was submitted. In accordance with Florida Statute Sections 255.075 – 255.078, the Design-Builder will promptly pay each subcontractor or supplier upon receipt of the payment from the Owner. Payment to the Design-Builder will release the Owner from any liens or disputes between the Design-Builder and the Design-Builder's subcontractors.
- 5.5 Monthly payments to Design-Builder will in no way imply approval or acceptance of Design-Builder's work.

## **ARTICLE 6**

### **OWNER'S RIGHT TO PERFORM AUDITS, INSPECTIONS, OR ATTESTATION ENGAGEMENTS**

- 6.1 In connection with payments to the Design-Builder under this Contract, it is agreed the Design-Builder will maintain adequate records in accordance with generally accepted accounting practices. The Owner, Federal Aviation Administration, Federal Highway Administration, Florida Department of Transportation, Florida Auditor General, Florida Inspector General, Florida Chief Financial Officer, and the Comptroller General of the United States, or any duly authorized representative of each, have the right to initiate and perform audits, inspections or attestation

engagements or audit the Design-Builder's records for the purpose of determining payment eligibility under this Contract or over selected operations performed by Design-Builder under this Contract for the purpose of determining compliance with the Contract. Access will be to all of the Design-Builder's records, including books, documents, papers, and records of Design-Builder directly pertinent to this Contract, as well as records of parent, affiliate and subsidiary companies. If the records are kept at locations other than Tampa International Airport, Design-Builder will arrange for said records to be brought to a location convenient to Owner's auditors to conduct the engagement as set forth in this Article. Or, Company may transport Owner's team to Design-Builder headquarters for purposes of undertaking said engagement. In such event, Design-Builder will pay reasonable costs of transportation, food and lodging for Owner's team. Design-Builder agrees to deliver or provide access to all records requested by Owner's auditors within fourteen (14) calendar days of the request at the initiation of the engagement and to deliver or provide access to all other records requested during the engagement within seven (7) calendar days of each request. The parties recognize that Owner will incur additional costs if records requested by Owner's auditors are not provided in a timely manner and that the amount of those costs is difficult to determine with certainty. Consequently, the parties agree that Design-Builder may be charged a liquidated damage of \$100.00, in addition to all other contractual financial requirements, per item, per calendar day, for each time Design-Builder is late in submitting requested records to perform the engagement. Accrual of liquidated damages will continue until specific performance is accomplished. These liquidated damages are not an exclusive remedy and Owner retains its rights including but not limited to its rights to elect its remedies and pursue all legal and equitable remedies. The parties expressly agree that these liquidated damages are not a penalty and represent reasonable estimates of fair compensation for the losses that reasonably may be anticipated from such failure to comply.

- 6.2 In the event the Design-Builder maintains its accounting or Project information in electronic format, upon request by the Owner's auditors, the Design-Builder will provide a download of its accounting or Project information in an electronic format allowing formatting, reading and manipulation in Microsoft Office products.
- 6.3 The Owner has the right during the engagement to interview the Design-Builder's employees and subconsultants, make photocopies, and inspect any and all records at reasonable times. The right to initiate an engagement will extend for six years after the completion date of the Work, or six years after the termination of this Contract, whichever occurs later.
- 6.4 In the event the Design-Builder has overcharged the Owner for direct and reimbursable expenses, the Design-Builder will re-pay the Owner the amount of the overcharge, and the Owner may assess interest of up to 12% per year on the overcharge from the date the overcharge occurred. In addition, if the Design-Builder

has overcharged the Owner by more than 3% of the gross direct and reimbursable amount, the Owner may assess and the Design-Builder will pay for the entire cost of the audit.

- 6.5 The Design-Builder will include a provision providing the Owner the same rights to perform engagements at the subconsultant and subcontractor level in all of its subconsultant and subcontract contracts entered into by Design-Builder to effect Project completion.
- 6.6 Approvals by Owner's staff for any services not included in this Contract do not act as a waiver or limitation of the Owner's right to perform audits, inspections, or attestation engagements.
- 6.7 The Design-Builder agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with Section 20.055(5), Florida Statutes.

## **ARTICLE 7 DISPUTE RESOLUTION**

### **7.1 CLAIMS AND DISPUTES**

- 7.1.1 A claim is a written demand or assertion by one of the parties seeking, as a matter of right, an adjustment or interpretation of this Contract, payment of money, extension of time or other relief with respect to the terms of this Contract. The term claim also includes other matters in question between the Owner and Design-Builder arising out of or relating to this Contract. The responsibility to substantiate claims will rest with the party making the claim.
- 7.1.2 If for any reason the Design-Builder believes that additional cost or Contract time is due to the Design-Builder for work not clearly provided for in this Contract, or previously authorized changes in the work, the Design-Builder must notify the Owner in writing within the required ten calendar day notice period of its intention to claim such additional cost or Contract time. The Design-Builder must maintain strict accounting of all actual cost and/or time associated with the claim, in such detail as may be required by Owner. The failure to give proper notice as required herein will constitute a waiver of said claim.
- 7.1.3 Written notice of intention to claim must be made within ten calendar days after the claimant first recognizes the condition giving rise to the claim or before the Work begins on which the Design-Builder bases the claim, whichever is earlier.



- 7.1.4 When the Work on which the claim for additional cost or Contract time is based has been completed, the Design-Builder will, within ten calendar days, submit Design-Builder's written claim, together with all supporting documentation required by Owner, to the Owner. Such claim by the Design-Builder, and the fact that the Owner has kept strict accounting of the actual cost and/or time associated with the claim, will not in any way be construed as proving or substantiating the validity of the claim.
- 7.1.5 Pending final resolution of a claim, unless otherwise agreed in writing, the Design-Builder will proceed diligently, as directed by Owner, with performance of this Contract and maintain effective progress to complete the Work within the Contract time(s) set forth in the Contract Documents.
- 7.1.6 The acceptance of final payment by Design-Builder will constitute a waiver of all claims except those that are expressly identified as still pending in writing in the Design-Builder's final Application for Payment.
- 7.1.7 Final payment for this Contract by Owner does not constitute a waiver of Owner's rights arising from:
- 7.1.7.1 Latent defects;
  - 7.1.7.2 Terms of special warranties required by the Contract Documents;
  - 7.1.7.3 Failure of the Work to comply with the requirements of the Contract Documents;
  - 7.1.7.4 Claims, security interests or encumbrances arising out of this Contract and unsettled.

## **7.2 RESOLUTION OF CLAIMS AND DISPUTES**

The following shall occur as a condition precedent to the Owner's review of a claim unless waived in writing by the Owner:

- 7.2.1 **Project Representatives' Meeting:** Within five days (5) after a dispute occurs, the Design-Builder's senior project management personnel who have authority to resolve the dispute shall meet with the Owner's project representative who has authority to resolve the dispute in a good faith attempt to resolve the dispute. If a party intends to be accompanied at a meeting by legal counsel, the other party shall be given at least three (3) working days' notice of such and also may be accompanied by legal counsel. All negotiations pursuant to this clause are confidential and shall be treated as compromise and settlement negotiations for purposes of rules of evidence.

- 7.2.2 Management Representatives' Meeting: If the Project Representatives' Meeting fails to resolve the dispute or if they fail to meet, a senior executive for the Design-Builder and for the Owner, neither of which have day to day Project management responsibilities, shall meet, within ten days (10) after a dispute occurs, in an attempt to resolve the dispute and any other identified disputes or any unresolved issues that may lead to dispute. If a party intends to be accompanied at a meeting by legal counsel, the other party shall be given at least three (3) working days' notice of such and also may be accompanied by legal counsel. All negotiations pursuant to this clause are confidential and shall be treated as compromise and settlement negotiations for purposes of rules of evidence.
- 7.2.3 Following the Project Representatives' Meeting and the Management Representatives' Meeting, the Owner will review the Design-Builder's claims and may (1) request additional information from the Design-Builder which will be immediately provided to Owner, or (2) render a decision on all or part of the claim. The Owner will notify the Design-Builder in writing of the disposition of the claim within 21 days following the receipt of such claim or receipt of additional information requested.
- 7.2.4 If the Owner decides that the work relating to such claim should proceed regardless of the Owner's disposition of such claim, the Owner will issue to the Design-Builder a written directive to proceed. The Design-Builder will proceed as instructed.
- 7.2.5 If any claim is made pursuant to this Contract, the Design-Builder will provide, at the Owner's request, all documents in support of the claim. If the Owner requests to review the Project Documents and the Design-Builder fails to provide them in a timely manner or has failed to preserve them, the claim by the Design-Builder will be deemed waived.
- 7.2.6 Documents in support of the claim referred to in this Article may be subject to an independent audit by the Owner. In the event the audit supports the Design-Builder's claim, the Owner will pay for the audit. In the event the audit does not support the Design-Builder's claim, the Design-Builder will pay for the audit.
- 7.2.7 The exclusive venue for any action initiated by either party associated with a claim or dispute will be in the appropriate State Court in and for the 13<sup>th</sup> Judicial Circuit for Hillsborough County, Florida or the U.S. District Court in the Tampa Division of the Middle District of Florida.

**ARTICLE 8**  
**TERMINATION OF THE CONTRACT**

- 8.1 This Contract may be terminated by the Owner with or without cause upon at least seven days written notice to the Design-Builder. Upon termination of this Contract there will be no further duty or obligation with regard to a Part 2 Contract.
- 8.2 In the event of termination by Owner without cause, the Design-Builder will be entitled to receive compensation for that portion of the cost attributable to the services and reimbursable expenses under this Contract earned through the date of termination. In addition, the Design-Builder is entitled to receive compensation for direct, out-of-pocket termination expenses. However, as a prerequisite to receiving such termination expenses, the Design-Builder is required to include language regarding entitlement to compensation for costs attributable to services, reimbursable expenses and out-of-pocket expenses in all purchase orders, subcontracts and other agreements it enters into to effectuate completion of this Contract. The Design-Builder will not be entitled to any further or additional compensation from the Owner, including but not limited to, damages or lost or anticipated profits on portions of the Work not performed.
- 8.3 In the event of termination for cause, the Owner may retain all payments due to the Design-Builder at the date of termination until all of the Owner's damages have been established and deducted from payments due. To the extent Owner's damages exceed the payments due Design-Builder, such excess will be paid by Design-Builder to Owner within ten days of Owner's written demand for same to Design-Builder.
- 8.4 Upon 30 days written notice to Owner, the Design-Builder may terminate this Contract only if the Design-Builder is not in default of any term, provision, or covenant of this Contract, and only upon or after the occurrence of the inability of Design-Builder to perform work for a period of longer than 90 consecutive days due to war, terrorism, or the issuance of any order, rule or regulation by a competent governmental authority or court having jurisdiction over the Owner preventing Design-Builder from operating its business for a period of longer than 90 consecutive days; provided, however, that such inability or such order, rule or regulation is not due to any fault or negligence of Design-Builder.
- 8.5 In the event this Contract is terminated or in the event that a Part 2 Contract is not executed, Owner will be entitled to retain and use all Project Documents furnished or prepared by or for the Design-Builder or design professionals employed or retained by the Design-Builder as set forth in Paragraph 3.1.
- 8.6 In the event the Owner terminates Design-Builder for cause pursuant to this Article 8 and it is later determined that such termination was not proper or such termination

right was not otherwise available to the Owner, such termination will be deemed a termination without cause and Design-Builder's rights and remedies will be limited to those set forth in Paragraph 8.2 above.

- 8.7 In the event of termination, the Design-Builder consents to Owner's selection of a successor design-builder of the Owner's choice to assist the Owner in completing the Project, provided that (1) for a termination for cause, the Owner exercises its rights in good faith, and (2) for any termination for convenience, the Owner makes all payments due to Design-Builder under this Contract. The Design-Builder further agrees to cooperate and provide any information reasonably requested by the Owner in connection with the completion of the Project and consents to and authorizes the making of any reasonable changes to the Design-Builder's instruments of service by the Owner and successor design builder as the Owner may desire. In the event that the Design-Builder is terminated and a successor design-builder is employed to complete the Project, the Design-Builder shall not be liable for the successor design-builder's work. However, the Design-Builder remains liable under this Contract for all its acts and omissions up to and including the date of termination and subsequent provision of any information required to be provided under this provision.

## **ARTICLE 9 BASIS OF COMPENSATION**

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 Four Million Six Hundred Sixty One Thousand Eight Hundred Seventy One and No One Hundredth Dollars (\$4,661,871), which includes all fees for subconsultants.

### **9.1 COMPENSATION FOR BASIC SERVICES**

- 9.1.1 For Basic Services, compensation will be as follows:

For services performed under Article 1 hereof, total compensation to the Design-Builder will be based upon work completed and supported by monthly progress reports submitted to the Owner.

- 9.1.2 Upon receipt of payment from the Owner, the Design-Builder will promptly pay each licensed design professional and each subcontractor out of the amount paid to the Design-Builder, for such licensed design professional's and subcontractor's portion of the Work. The amount to which said licensed design professional and subcontractor is entitled should reflect percentages actually retained from payments to the Design-

Builder on account of such licensed design professional's and subcontractor's portion of the Work. The Design-Builder will, by appropriate contract with each licensed design professional and each subcontractor, require each licensed design professional and each subcontractor to make payments to their respective subconsultants and sub-subcontractors in a similar manner.

- 9.1.3 The Design-Builder agrees to pay each subcontractor under this Contract for satisfactory performance of its contract no later than 10 days from the receipt of each payment the Design-Builder receives from the Owner. The Design-Builder agrees further to release retainage payments to each subcontractor within 10 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written notice to the Owner. This clause applies to both DBE and non-DBE subcontractors.
- 9.1.4 Invoiced amounts will be based on the Design-Builder's and subconsultant's most recent audited overhead rates or agreed upon overhead rates, personnel direct labor rates, negotiated profits and actual time billed to the Project as substantiated by backup acceptable to the Owner and supported by monthly progress reports.
- 9.1.5 Invoiced amounts for multiple projects or multiple locations must be identified per project and/or location.
- 9.1.6 All subconsultant and subcontractor contracts must be submitted at time of billing. Subconsultant and subcontractor contracts must include a provision providing the Owner the same rights to audit all of Design-Builder's subconsultant and subcontractor contracts entered into by the Design-Builder to effect Project completion.
- 9.1.7 An employee basic services spreadsheet based on the fee and scope proposal in Excel format listing the employee's name, employee's classification and employee's raw rate must be submitted before the Design-Builder's invoice submittal. If there are changes such as new employees, new classification or new raw rate, then an updated basic services spreadsheet in Excel format is required to be submitted. New rate tables must be approved by the Owner.
- 9.1.8 Basic services invoices that are submitted with a Design-Builder's invoice that are older than 90 days before the submission date may be reimbursed in the sole discretion of the Owner.
- 9.1.9 Timesheets are required as supporting backup for all basic services invoice amounts. Hours billed must be clearly identified.
- 9.1.10 Overtime for all basic services must be pre-approved by the Owner.

- 9.1.11 Basic services must be organized using standard separators to identify the basic services being billed.
- 9.1.12 Rebalancing between tasks or fees must be requested with the first overage billing, along with an explanation for the overage and confirmation that the total Contract amount will not be exceeded. Proposed supporting sheets are to be submitted at the request for rebalancing.
- 9.1.13 All permit requirements, acceptable deliverables and badges are required to be submitted seven days before submission of a final professional service invoice.
- 9.1.14 If deficiencies are found, a standard deficiency e-mail will be sent to the Design-Builder to resolve. Design-Builder will have 24 hours to resolve such deficiency. If the deficiency is not resolved within that time, the Design-Builder's invoice will be returned.
- 9.1.15 Owner has the right to withhold payment for amounts in dispute in any invoice. All undisputed amounts in any invoice shall be paid in accordance with applicable law and this Contract.

## **9.2 COMPENSATION FOR ADDITIONAL SERVICES**

- 9.2.1 The compensation for Additional Services under this Contract will be on the basis of the scope of work and in the amount of fees set forth in a written request of the Owner, which will have resulted from negotiation of the scope and the fees prior to such request of the Owner.

## **9.3 REIMBURSABLE EXPENSES**

- 9.3.1 Reimbursable expenses will be supported by submitted and approved invoices.
- 9.3.2 The Design-Builder will be reimbursed at cost for all expenses in an amount not to exceed the maximum reimbursable amount. As specified hereinafter, the Design-Builder's reimbursable expenses will include only:
  - 9.3.2.1 The cost of securing a geotechnical engineering firm which will perform all soils and sub-surface investigations, tests, reports and recommendations required for the design of the Project.
  - 9.3.2.2 The cost of boundary surveys, topographic surveys, land surveys, establishment of boundary and monuments, field surveys, photogrammetry, control staking and related office computations and drafting.

- 9.3.2.3 The cost of outside special consultants to advise and assist Design-Builder throughout the Project.
- 9.3.2.4 The actual cost of reproduction and distribution of review plans and specifications and the Project Documents required for the securing of bids or quotes for the assigned Work and for the use of the Design-Builder, subcontractors, testing laboratories, and others having the need for such documents during this Contract.
- 9.3.2.5 All costs for long distance telephone calls, postage and overnight express delivery and couriers related to the Project.
- 9.3.2.6 Expenses for parking at Tampa International Airport and transportation related to the Project outside of Hillsborough, Pinellas and Pasco Counties, including airplane and automobile travel; and the cost of meals and lodging in the event overnight travel related to the Project is required. All travel expenses will be reimbursed upon submitted receipts or as agreed upon in the travel plan. Only travel expenses incurred in the performance of the Work are reimbursable. The most efficient and economical means of transportation is required. All travel must be pre-approved by the Owner. Travel included in Attachment 1, Fee and Scope Proposal is to be considered approved by execution of this Contract. Any additional travel will require pre-approval by the Owner. Employee expense sheets are required as well as supporting originals or legible copies of all receipts.
- 9.3.2.7 Materials for renderings, study models, film and processing expenses.
- 9.3.2.8 The costs of all required review fees required by and paid to agencies having jurisdiction. This does not include impact or development fees paid directly by the Owner or building permit fees paid by the Design-Builder.
- 9.3.2.9 Invoiced amounts for multiple projects or multiple locations must be identified per project and/or location.
- 9.3.2.10 All subconsultant signed contracts must be submitted at time of billing. Subconsultant contracts must include a provision providing the Owner the same rights to audit at the subconsultant level in all of its subconsultant contracts executed to effect Project completion.
- 9.3.2.11 Receipts/Invoices that are submitted with a professional service invoice that are older than 90 days before the submission date may be reimbursed in the sole discretion of the Owner.

- 9.3.2.12 Mileage within the Tri-County Area (Hillsborough, Pinellas, Pasco) will not be reimbursed. Mileage is part of travel which must be pre-approved by the Owner.
- 9.3.2.13 Original or legible copies of receipts/invoices that have not been altered are required for reimbursement. Receipts/Invoices must be identified by employee and employer, and include justification of expense.
- 9.3.2.14 Equipment purchased for and paid by the Owner must be identified when being paid so that an Asset Tag can be attached to that equipment. A detail listing in Excel format must be submitted with the invoice when equipment is purchased.
- 9.3.2.15 The following expenses shall not be reimbursable:
  - 9.3.2.15.1 Purchases of alcohol.
  - 9.3.2.15.2 Meals for Owner or local consultant staff members.
  - 9.3.2.15.3 Unreasonable photocopying costs or any photocopying costs for administrative and billing work.
  - 9.3.2.15.4 Clerical, secretarial or general administrative time with the exception of technical typing of specifications or technical reports and personnel assigned to Design-Builder's field office.
  - 9.3.2.15.5 Computer system time for any design or administrative work.
  - 9.3.2.15.6 Interest expenses.
  - 9.3.2.15.7 Any type of markup over the actual cost of any item otherwise reimbursable, unless specifically agreed to elsewhere.
  - 9.3.2.15.8 Expendable supplies unless authorized in advance by the Owner.
  - 9.3.2.15.9 Entertainment and personal expenses of any kind.
  - 9.3.2.15.10 Costs incurred by the Design-Builder as a result of, or to cure, any breach or violation of this Contract.
  - 9.3.2.15.11 Any part of the Design-Builder's capital expenses.



- 9.3.2.15.12 Amounts required to be paid by Design-Builder for federal, state or local income or franchise taxes.
- 9.3.2.15.13 Costs of subconsultants not pre-approved in writing by Owner.
- 9.3.2.15.14 Costs to comply with Article 6.
- 9.3.2.15.15 Unless pre-approved in writing by the Owner, time spent in travel.
- 9.3.2.16 No front loading on Progress Payments is allowed. Progress Payments are limited to the actual invoiced amounts.
- 9.3.2.17 Reimbursable expenses must be presented as a package organized in the following manner: Reimbursement Tracking Form, Reimbursement Matrix Sheet, actual invoices identifying item numbers and the matrix identifier as it appears on the Reimbursement Matrix Sheet and Reimbursement Tracking Form. This package should be secured by a clip or staple. The Reimbursement Tracking Form is required to be submitted electronically in Excel format, as is the supporting documentation for the submitted Design-Builder's Invoice.
- 9.3.2.18 Rebalancing between tasks or fees must first be requested with the first overage billing, along with an explanation for the overage and confirmation that the total contract amount will not be exceeded. Proposed supporting sheets are to be submitted at the request for balancing.
- 9.3.2.19 All permit requirements, acceptable deliverables and badges are required to be submitted seven days before submission of a final Design-Builder's invoice.
- 9.3.2.20 If deficiencies are found, a standard deficiency e-mail will be sent to the Design-Builder to resolve within 24 hours. If the deficiency is not resolved within that time, the Design-Builder's invoice will be returned.

## **9.4 INVOICES AND RECORDS**

- 9.4.1 Invoices for services must be submitted by the twenty-fifth of each month. Invoices, verified to the satisfaction of the Owner, will be paid by the twenty-fifth of the following month. The Design-Builder will submit with each invoice two originals and two copies of a detailed accounting of the value of Work performed to date by certified Woman and Minority Business Enterprises (W/MBE). This accounting will include the names and addresses of W/MBEs that have participated, a description of the work each named W/MBE has performed and the value of work performed by each named

W/MBE. Whenever compensation is paid to the Design-Builder on a reimbursable basis, records as to the direct expense must be kept on a generally accepted accounting basis and must be submitted with each invoice to the Owner. In addition, the Design-Builder will submit with each invoice a detailed accounting of the value of Work performed to date by their design professionals and subcontractors. This accounting will include the names and addresses of their design professionals and subcontractors that have participated, a description of the work each named design professional and subcontractor has performed and the value of work performed by each named design professional and subcontractor.

- 9.4.2 If the scope of the Project is changed materially, the amount of compensation may be equitably adjusted, if requested in writing, by either the Owner or the Design-Builder.
- 9.4.3 The Design-Builder will maintain a detailed, itemized, electronic spreadsheet to include identifiable references to the actual expense, in a format allowing readership in Microsoft Office products, of all reimbursable expenses submitted with each application for payment.
- 9.4.4 Whenever compensation is paid to the Design-Builder on a reimbursable basis, records as to the direct expense will be kept on a generally recognized accounting basis and will be submitted with each invoice.
- 9.4.5 Any compensation paid pursuant to a not-to-exceed amount will constitute full payment for all costs including, but not limited to, employee benefits, overhead, general administrative costs, profit and all other unallocated expenses.
- 9.4.6 The Design-Builder agrees to pay each subcontractor under this Contract for satisfactory performance of its agreement no later than 10 days from the receipt of each payment the Design-Builder receives from the Owner. The Design-Builder agrees further to release retainage payments to each subcontractor within 10 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above-referenced time frame may occur only for good cause following written notice to the Owner. This clause applies to both W/MBE and non-W/MBE subcontractors.
- 9.4.7 With each invoice, the Design-Builder will submit an electronic Excel spreadsheet with an updated cash flow projection from the current invoice period through the end of the Project.

## **ARTICLE 10 INSURANCE REQUIREMENTS**

- 10.1 The provisions of Attachment 2 - INSURANCE REQUIREMENTS are incorporated by reference into this Contract.

- 10.2 The Design-Builder will comply with the insurance requirements and coverage limits detailed in Attachment 2 - INSURANCE REQUIREMENTS. Such insurance will protect the Owner and Design-Builder from claims which may arise out of or result from operations under this Contract by the Design-Builder, by a subcontractor of the Design-Builder, by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.
- 10.3 Pursuant to Fla. Stat. 255.0517(2)(d), nothing contained herein prohibits the Design-Builder or subcontractor from purchasing any additional insurance coverage that the Design-Builder or subcontractor believes is necessary for protection against any liability arising out of the contract. However, in the event that the Design-Builder or subcontractor elects to purchase additional insurance, the cost of any additional insurance procured by the Design-Builder or subcontractor must be disclosed to the Owner.

## **ARTICLE 11 INDEMNITY**

- 11.1 To the maximum extent permitted by Florida law, in addition to Design-Builder's obligation to provide pay for and maintain insurance as set forth elsewhere in this Contract, Design-Builder will indemnify and hold harmless the Owner, its members, officers, agents, employees, and volunteers from any and all liabilities, suits, claims, procedures, liens, expenses, losses, costs, royalties, fines and damages (including but not limited to claims for attorney's fees and court costs) caused in whole or in part by the:
1. Presence on, use or occupancy of Owner property;
  2. Acts, omissions, negligence (including professional negligence and malpractice), errors, recklessness, intentional wrongful conduct, activities, or operations;
  3. Any breach of the terms of this Contract;
  4. Performance, non-performance or purported performance of this Contract;
  5. Violation of any law, regulation, rule, order, decree, Advisory Circular or ordinance;
  6. Infringement of any patent, copyright, trademark, trade dress or trade secret rights; and/or
  7. Contamination of the soil, groundwater, surface water, storm water, air or the environment by fuel, gas, chemicals or any other substance deemed by the Environmental Protection Agency or other regulatory agency to be an environmental contaminant.

by the Design-Builder or the Design-Builder's officers, employees, agents, volunteers, subcontractors, invitees, or any other person directly or indirectly employed or utilized by the Design-Builder, whether the liability, suit, claim, lien, expense, loss, cost, fine or damages is caused in part by an indemnified party. This indemnity obligation expressly applies, and shall be construed to include, any and all claim(s) caused in part by the

negligence, acts, or omissions of the Owner, its members, officers, agents, employees, and volunteers.

11.2 In addition to the duty to indemnify and hold harmless, Design-Builder will have the separate and independent duty to defend the Owner, its members, officers, agents, employees, and volunteers from all suits, claims, proceedings or actions of any nature seeking damages, equitable or injunctive relief, liens, expenses, losses, costs, royalties, fines, attorney's fees or any other relief in the event the suit, claim, or action of any nature arises in whole or in part from the:

1. Presence on, use or occupancy of Owner property;
2. Acts, omissions, negligence (including professional negligence and malpractice), errors, recklessness, intentional wrongful conduct, activities, or operations;
3. Any breach of the terms of this Contract;
4. Performance, non-performance or purported performance of this Contract;
5. Violation of any law, regulation, rule, order, decree, Advisory Circular or ordinance;
6. Infringement of any patent, copyright, trademark, trade dress or trade secret rights; and/or
7. Contamination of the soil, groundwater, surface water, storm water, air or the environment by fuel, gas, chemicals or any other substance deemed by the Environmental Protection Agency or other regulatory agency to be an environmental contaminant

by the Design-Builder or the Design-Builder's officers, employees, agents, volunteers, subcontractors, invitees, or any other person directly or indirectly employed or utilized by the Design-Builder regardless of whether it is caused in part by the Owner, its members, officers, agents, employees, or volunteers. This duty to defend exists immediately upon presentation of written notice of a suit, claim or action of any nature to the Design-Builder by a party entitled to a defense hereunder. This duty to defend obligation expressly applies, and shall be construed to include, any and all claim(s) caused in part by the negligence, acts, or omissions of the Owner, its members, officers, agents, employees, and volunteers.

11.3 If the above indemnity or defense provisions or any part of the above indemnity or defense provisions are limited by Fla. Stat. § 725.06(2)-(3) or Fla. Stat. § 725.08, then with respect to the part so limited, Design-Builder agrees to the following: To the maximum extent permitted by Florida law, Design-Builder will indemnify and hold harmless the Owner, its members, officers, agents, employees, and volunteers from any and all liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fee, to the extent caused by the negligence, recklessness, or intentional wrongful conduct of the Design-Builder and persons employed or utilized by the Design-Builder in the performance of this Contract.

- 11.4 If the above indemnity or defense provisions or any part of the above indemnity or defense provisions are limited by Fla. Stat. § 725.06(1) or any other applicable law, then with respect to the part so limited the monetary limitation on the extent of the indemnification shall be the greater of the (i) monetary value of this Contract, (ii) coverage amount of Commercial General Liability Insurance required under this Contract or (iii) \$1,000,000.00. Otherwise, the obligations of this Article will not be limited by the amount of any insurance required to be obtained or maintained under this Contract.
- 11.5 In addition to the requirements stated above, to the extent required by FDOT Public Transportation Grant Agreement and to the fullest extent permitted by law, the Design-Builder shall indemnify and hold harmless the State of Florida, FDOT, including the FDOT's officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentional wrongful misconduct of the Design-Builder and persons employed or utilized by the Design-Builder in the performance of this Contract. This indemnification in this paragraph shall survive the termination of this Contract. Nothing contained in this paragraph is intended to nor shall it constitute a waiver of the State of Florida's and FDOT's sovereign immunity.
- 11.6 Design-Builder's obligations to defend and indemnify as described in this Article will survive the expiration or earlier termination of this Contract until it is determined by final judgment that any suit, claim or other action against the Owner, its members, officers, agents, employees, and volunteers is fully and finally barred by the applicable statute of limitations or repose.
- 11.7 Nothing in this Article or Contract will be construed as a waiver of any immunity from or limitation of liability the Owner, or its members, officers, agents, employees, and volunteers may have under the doctrine of sovereign immunity under common law or statute.
- 11.8 The Owner and its members, officers, agents, employees, and volunteers reserve the right, at their option, to participate in the defense of any suit, without relieving Design-Builder of any of its obligations under this Article.
- 11.9 If the above Article 11.1-11.8 or any part of Article 11.1-11.8 is deemed to conflict in any way with any law, the Article or part of the Article will be considered modified by such law to remedy the conflict.

## **ARTICLE 12 SUCCESSORS AND ASSIGNS**

- 12.1 The Owner and Design-Builder respectively bind themselves, their partners, successors, assigns and legal representatives to the other party to this Contract and

to the partners, successors, and assigns of such other party with respect to the covenants of this Contract.

12.2 Except as hereinafter provided, neither party to this Contract will assign or sublet this Contract, in whole or in part, without the written consent of the other, nor will the Design-Builder assign any monies due, or to become due, hereunder without the previous written consent of the Owner. If the Design-Builder attempts to make such assignment or sublet without such consent, the Design-Builder will nevertheless remain legally responsible for all obligations under this Contract.

12.3 The Owner reserves the right to transfer its interests herein to any other governmental body authorized by law to operate the airport.

### **ARTICLE 13 TRUTH IN NEGOTIATIONS**

The Design-Builder certifies that the wage rates and other factual unit costs supporting the compensation described herein are accurate, complete and current as of the date of this Contract, and that the original compensation and any additions thereto will be adjusted to exclude any significant sums where the Owner determines the lump sum amount was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs. All such Contract adjustments must be made within one year following the end of this Contract.

### **ARTICLE 14 PROHIBITION AGAINST CONTINGENT FEES**

The Design-Builder warrants that Design-Builder has not employed or retained any company or person, other than a bona fide employee working solely for the Design-Builder, to solicit or secure this Contract, and that the Design-Builder has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the Design-Builder, any fee, commission, percentage, gift, or other consideration, contingent upon or resulting from the award or making of this Contract. If the Owner finds that Design-Builder violates this provision, the Owner may terminate this Contract without liability and, at its discretion, deduct from this Contract, or otherwise recover from Design-Builder, the full amount of any fee, commission, percentage, gift, or consideration.

### **ARTICLE 15 PROHIBITED INTEREST**

The following provision is made a part of this Contract and will be inserted in each of the Design-Builder's subcontracts:

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Airsides A and E Security Screening Checkpoint Expansion  
Project No. 8435 22

“No member, officer, or employee of the Hillsborough County Aviation Authority during their tenure or for two years thereafter will have any interest, direct or indirect, in this Contract or the proceeds thereof.”

**ARTICLE 16  
CONTRACT MADE IN FLORIDA**

This Contract has been made in and will be construed in accordance with the laws of the State of Florida.

**ARTICLE 17  
RESTRICTED VENDOR LISTS**

- 17.1 A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Design-Builder, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.
- 17.2 A person or affiliate who has been placed on the discriminatory vendor list kept by the Florida Department of Management Services may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Design-Builder, supplier, subcontractor, or consultant under a contract with any public entity and may not transact business with any public entity as provided in Section 287.134, Florida Statutes.
- 17.3 An entity or affiliate who has had its Certificate of Qualification suspended, revoked, denied, or have further been determined by FDOT to be a non-responsible contractor, may not perform work under this Contract.

**ARTICLE 18  
NON-DISCRIMINATION**

- 18.1 During the performance of this Contract, the Design-Builder, for itself, its assignees and successors in interest, agrees as follows:

18.1.1 The Design-Builder will comply with the regulations relative to non-discrimination in federally assisted programs of the Department of Transportation (DOT) Title 49, Code of Federal Regulations, Part 21, as amended from time to time (hereinafter referred to as the Regulations), which are incorporated herein by reference and made a part of this Contract.

18.1.2 Civil Rights. The Design-Builder, with regard to the work performed by it under the Contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. Design-Builder will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the Contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21. During the performance of this Contract, Design-Builder, for itself, its assignees, and successors in interest agrees to comply with the following nondiscrimination statutes and authorities, including but not limited to:

18.1.2.1 Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);

18.1.2.2 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);

18.1.2.3 The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);

18.1.2.4 Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;

18.1.2.5 The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);

18.1.2.6 Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);



18.1.2.7 The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);

18.1.2.8 Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;

18.1.2.9 The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);

18.1.2.10 Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;

18.1.2.11 Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, Design-Builder must take reasonable steps to ensure that LEP persons have meaningful access to Design-Builder’s programs (70 Fed. Reg. at 74087 to 74100); and

18.1.2.12 Title IX of the Education Amendments of 1972, as amended, which prohibits Design-Builder from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

18.1.3 In all solicitations either by competitive bidding or negotiation made by the Design-Builder for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier must be notified by the Design-Builder of the Design-Builder’s obligations under this Contract and the Regulations relative to nondiscrimination on the grounds of race, color or national origin.

- 18.1.4 The Design-Builder will provide all information and reports required by the Regulations or directives issued pursuant thereto and must permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the Owner or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of Design-Builder is in the exclusive possession of another who fails or refuses to furnish this information, the Design-Builder will so certify to the Owner or the FAA, as appropriate, and will set forth what efforts it has made to obtain the information.
- 18.1.5 In the event of the Design-Builder's non-compliance with the non-discrimination provisions of this Contract, the Owner will impose such contractual sanctions as it or the FAA may determine to be appropriate, including, but not limited to, withholding of payments to the Design-Builder under this Contract until the Design-Builder complies, and/or cancellation, termination or suspension of this Contract, in whole or in part.
- 18.1.6 The Design-Builder will include the provisions of Paragraphs 18.1.1 through 18.1.5 in every subcontract and subconsultant contract, including procurement of materials and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The Design-Builder will take such action with respect to any subcontract or procurement as the Owner or the FAA may direct as a means of enforcing such provisions, including sanctions for non-compliance. Provided, however, that in the event the Design-Builder becomes involved in or is threatened with litigation with a subcontractor or supplier as a result of such direction, the Design-Builder may request the Owner to enter into such litigation to protect the interests of the Owner and, in addition, the Design-Builder may request the United States to enter into such litigation to protect the interests of the United States.
- 18.1.7 Design-Builder assures that, in the performance of its obligations under this Contract, it will fully comply with the requirements of 14 CFR Part 152, Subpart E (Non-Discrimination in Airport Aid Program), as amended from time to time, to the extent applicable to Design-Builder, to ensure, among other things, that no person will be excluded from participating in any activities covered by such requirements on the grounds of race, creed, color, national origin, or sex. Design-Builder, if required by such requirements, will provide assurances to the Owner that Design-Builder will undertake an affirmative action program and will require the same of its subconsultants.

## ARTICLE 19

### WOMAN AND MINORITY OWNED BUSINESS ENTERPRISE (W/MBE) ASSURANCES

- 19.1 It is the policy of the Owner that W/MBEs, as defined in the Owner's W/MBE Policy and Program, will have full and fair opportunities to compete for and participate in the performance of non-federally funded contracts or in the purchase of goods and services procured by the Owner. Consequently, the W/MBE requirements and the Owner's W/MBE Policy and Program will apply to this Contract and are made a part hereof.
- 19.1.1 The Design-Builder and any subcontractor of the Design-Builder will not discriminate on the basis of race, color, national origin, or sex in the performance of the Contract. The Design-Builder will carry out applicable requirements of the Owner's W/MBE Policy and Program in the award and administration of contracts. Failure by the Design-Builder to carry out these requirements is a material breach of the Contract, which may result in the termination of the Contract or such other remedy as the Owner deems appropriate which may include, but not limited to:
- 19.1.1.1 Withholding monthly progress payments;
  - 19.1.1.2 Assessing sanctions;
  - 19.1.1.3 Liquidated damages; and/or
  - 19.1.1.4 Disqualifying the contractor from future bidding as non-responsible.
- 19.1.2 The Design-Builder agrees that it will not discriminate against any business owner because of the owner's race, color, national origin, or sex in connection with the award or performance of any contract, management contract, or subcontract, purchase or lease contract.
- 19.1.3 The Design-Builder agrees to include the statements in paragraphs (1) and (2) above in any subsequent contract or contract that it enters and cause those businesses to similarly include the statements in further contracts.
- 19.2 The Design-Builder agrees to ensure that W/MBEs, as defined in the Owner's W/MBE Policy and Program, have the maximum opportunity to participate in the performance of this Contract, and the Design-Builder will take all necessary and reasonable steps in accordance therewith to ensure that W/MBEs have the maximum opportunity to compete for and perform subcontracts.
- 19.3 W/MBE Goals. In compliance with the Owner's W/MBE Policy and Program, the Design-Builder's minimum W/MBE commitment is established as the sum total of the verified

Letter(s) of Intent for each portion of the Project submitted with their response. The W/MBE goal stated below is the sum total of the certified W/MBE's listed in the Design-Builder's fee and scope proposal which is attached hereto and which will be enforceable under the terms of this Contract. The Design-Builder will demonstrate that they will subcontract to certified W/MBEs at least 22.8% of the total dollar amount earned on the design phase of the Project.

- 19.4 All W/MBEs interested in participating in contracting/subcontracting opportunities must be certified as eligible W/MBEs before said business enterprises begins their portion of the Contract work. Only certified W/MBEs will count toward the W/MBE goal. If the Design-Builder fails to achieve the W/MBE expectancy stated herein, it will be required to provide documentation demonstrating that it made good faith efforts in attempting to do so.
- 19.5 W/MBE Termination and Substitution: The Design-Builder will not terminate a W/MBE for convenience without the Owner's prior written consent. If a W/MBE is terminated by the Design-Builder with the Owner's consent or because of the W/MBE's default, then the Design-Builder must make a good faith effort, in accordance with the requirements of the Owner's W/MBE Policy and Program, to find another W/MBE to substitute for the original W/MBE to provide the same amount of W/MBE participation.
- 19.6 Reporting Requirements: The Design-Builder agrees that, within 15 days after the expiration of each calendar month during the term of the Contract beginning on the effective date of the Contract, it will provide a W/MBE Utilization Activity report to the Owner's Business Diversity Manager reflecting, as applicable, in a form acceptable to the Owner, the Design-Builder's total dollar value received under the Contract for the applicable period and the amount expended for the purchase of goods and services from each W/MBE firm during that period, calculated in accordance with the requirements of the Owner's W/MBE Policy and Program.
- 19.7 Monitoring: The Owner will monitor the compliance and good faith efforts of the Design-Builder in meeting these requirements. The Owner will have access to the necessary records to examine such information as may be appropriate for the purpose of investigating and determining compliance with this subsection, including, but not limited to, records, records of expenditures, contracts between the Design-Builder and the W/MBE participant, and other records pertaining to the W/MBE participation plan, which the Design-Builder will maintain for a minimum of three years following the end of the Contract. Opportunities for W/MBE participation will be reviewed prior to the exercise of any renewal, extension or material amendment of the Contract to consider whether an adjustment in the W/MBE requirement is warranted. Without limiting the requirements of the Contract, the Owner reserves the right to review and approve all subleases or subcontracts utilized by the Design-Builder for the achievement of these goals.

- 19.8 Design-Builder agrees to indemnify the Owner from the loss of any funds or other damages that may result from Design-Builder's failure to achieve the W/MBE goals set forth herein or to establish a good faith effort to do so, including attorneys' fees and costs associated with said failure by Design-Builder or good faith investigation by Owner. Failure of Design-Builder to make a good faith effort to achieve W/MBE goals will be a material breach of this Contract. The determination of whether Design-Builder's efforts were made in good faith will be made by the Owner. At 50% completion, a plan of action properly reflecting anticipated W/MBE achievement of the commitment is required to be submitted to the Owner.
- 19.9 In the event of the Design-Builder's non-compliance with the Owner's W/MBE Policy and Program, failure to meet the prescribed W/MBE goal set forth in this Contract, or failure to establish a good faith effort to do so, the Owner will impose such contract sanctions as the Owner may determine to be appropriate, including but not limited to:
- 19.9.1 Withholding of payments to the Design-Builder under this Contract until the Design-Builder complies; and/or
  - 19.9.2 Assessing sanctions; and/or
  - 19.9.3 Liquidated damages; and/or
  - 19.9.4 Cancellation, termination or suspension of this Contract in whole or in part; and/or
  - 19.9.5 Suspension or debarment of Design-Builder from eligibility to contract with the Owner in the future or to receive bid packages or request for qualification (RFQ) packages, pursuant to the Owner's Policy P414, Suspension/Debarment of Contractors.

**ARTICLE 20**  
**PROHIBITION AGAINST CONTRACTING WITH SCRUTINIZED COMPANIES**

This Contract will be terminated in accordance with Florida Statute Section 287.135(3) if it is found that the Design-Builder submitted a false Scrutinized Company Certification as provided in Florida Statute Section 287.135(5) or any of the following occur with respect to the company or a related entity: (i) it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of \$1 million or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

**ARTICLE 21**  
**E-VERIFY REQUIREMENT/UNAUTHORIZED ALIENS**

- 21.1 In accordance with the State of Florida, Office of the Governor, Executive Order Number 11-116 (Verification of Employment Status), all agencies under the direction of the Governor are to include as a condition of all state contracts for the provision of goods or services to the state in excess of nominal value, an express requirement that contractors utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the contractor during the contract term, and an express requirement that contractors include in such subcontracts the requirement that subcontractors performing work or providing services pursuant to the state contract utilize the E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term. Any projects with Florida Department of Transportation (FDOT) funding will contain this assurance as a condition for any new Joint Participation Agreements dated after January 4, 2011. The Design-Builder will verify all of their new employees and will require that their subcontractors verify all of their new employees in accordance with the E-verify requirements set out above.
- 21.2 FDOT considers the employment by any contractor of unauthorized aliens a violation of Section 274A(e) of the Immigration and Nationality Act. If the Design-Builder knowingly employs unauthorized aliens, such violation will be cause of unilateral cancellation of this Contract.

**ARTICLE 22**  
**COMPLETE CONTRACT**

This Contract represents the entire agreement between the Owner and the Design-Builder and supersedes all prior negotiations, representations or agreements, either written or oral. This Contract may be amended only by written instrument signed by both the Owner and the Design-Builder.

**ARTICLE 23**  
**NO WAIVER**

The failure of the Owner to enforce at any time or for any period of time any one or more of the provisions of this Contract will not be construed to be and will not be a waiver of any such provision or provisions or of its right thereafter to enforce each and every such provision.

**ARTICLE 24**  
**NO EQUITABLE ADJUSTMENT**

Design-Builder's remedies are limited to those remedies specified herein. To the fullest extent permitted by law, Design-Builder agrees that it is not entitled nor will it seek equitable adjustment of any of the terms of this Contract including but not limited to Contract time and compensation. This provision shall take precedence over any conflicting Contract provisions.

**ARTICLE 25**  
**LOBBYING**

No funds received pursuant to this Contract may be expended for lobbying the Florida Legislature, judicial branch, or any state agency, in accordance with Section 216.347, Florida Statutes.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

**ARTICLE 26  
CONTRACT**

This Contract entered into as of the day and year first written above.

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

By the Design-Builder this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

ATTEST:

**SUFFOLK CONSTRUCTION COMPANY, INC.**

\_\_\_\_\_

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

Title: \_\_\_\_\_

Print Name

\_\_\_\_\_  
Print Address  
\_\_\_\_\_  
\_\_\_\_\_

Signed, sealed, and delivered  
in the presence of:

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Print Name

**Notary for** \_\_\_\_\_

**STATE OF** \_\_\_\_\_  
**COUNTY OF** \_\_\_\_\_

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization, this \_\_\_\_ day of \_\_\_\_\_, 2022, by \_\_\_\_\_ as  
(Name of person)

\_\_\_\_\_, for \_\_\_\_\_.  
(type of authority) (name of party on behalf of whom contract was executed)

\_\_\_\_\_  
Signature of Notary

\_\_\_\_\_  
Print, Type, or Stamp Commissioned Name of Notary

Personally Known OR Produced Identification  
Type of Identification Produced

\_\_\_\_\_  
Airsides A and E Security Screening Checkpoint Expansion  
Project No. 8435 22



By the Authority this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**HILLSBOROUGH COUNTY AVIATION AUTHORITY**

*(Affix Corporate Seal)*

By: \_\_\_\_\_  
\_\_\_\_\_, Chairman

**ATTEST:**

\_\_\_\_\_  
\_\_\_\_\_, 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**

**STATE OF FLORIDA  
COUNTY OF HILLSBOROUGH**

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

\_\_\_\_\_  
Signature of Notary

\_\_\_\_\_  
Print, Type, or Stamp Commissioned Name of Notary

Personally Known OR Produced Identification  
Type of Identification Produced

\_\_\_\_\_  
Airsides A and E Security Screening Checkpoint Expansion  
Project No. 8435 22

**FINAL**

rev. January 21, 2022

# Airsides A & E Security Screening Checkpoint Expansion

**PART 1 CONTRACT FOR DESIGN-BUILD SERVICES**

Tampa International Airport  
Hillsborough County Aviation Authority  
HCAA Project No. 8435 22

## **Table of Contents**

1. Scope Narrative
2. Schedule
3. Fees
4. Rate Sheets
5. Travel Plan
6. Reimbursable Back Up

# 1

## Scope Narrative

## **Airsides A & E Security Screening Checkpoint Expansion**

Tampa International Airport  
Hillsborough County Aviation Authority  
HCAA Project No. 8435 22

### **Part 1 Contract Narrative Scope of Work / Services**

#### **Section A – General Overview**

01. Project Introduction
02. Background
03. Basis of Design
04. Outline of Project Delivery
05. Anticipated Project Stakeholders

#### **Section B – Scope of Services by Discipline**

06. Preconstruction Services
07. Project Management
08. Architecture & Interiors
09. Structural Engineering
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11. Fire Protection & Fire Alarm
12. Security
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16. Public Address

## Section A - General Overview

### 01. Project Introduction

This Project involves expanding the Security Screening Checkpoint Areas at Airsides A and E to meet capacity demands.

The existing Security Screening Checkpoints (SSCP) areas have been strategically located at the airsides to reduce congestion in the Main Terminal. Both Airsides A and E were designed prior to current TSA standards and therefore do not meet the throughput and space requirements to provide a satisfactory level of customer service. When these spaces are expanded and designed to the proper TSA standards as part of this Project's scope, the circulation, queuing, and screening throughput will be greatly enhanced and will provide high levels of customer service.

### 02. Background

Through competitive qualifications-based selection, the Design-Builder selection was approved by the Owner's Board on 12/02/21 to take on this important Project. The following pages outline the scope of services that will be provided by the Design-Builder.

### 03. Preliminary Concept

Prior to this Part 1 Contract for Design-Build Services, Owner has worked with their consultants RS&H and Ricondo to analyze, program and advance a concept for each airside through concept approval with TSA. The Owner has provided the resulting three documents that will serve as the preliminary concept design for this Project. A listing of these documents is provided as follows:

1. "Tampa International Airport Airsides A&E Security Checkpoint Expansion Cost Estimating Memorandum Revision #001", dated 05/03/21, by RS&H
2. "Airside A Security Screening Checkpoint Expansion – Transportation Security Administration Concept Approval", dated 12/01/21, by Ricondo
3. "Airside E Security Screening Checkpoint Expansion – Transportation Security Administration Concept Approval", dated 12/01/21, by Ricondo

### 04. Outline of Project Delivery

The Project design will be delivered in support of multiple logically assembled and timed bid packages in order to expedite construction. The intended design development and document delivery is outlined as follows.

#### **Task 1 | 30% Schematic Design & Part 2 Contract (associated with Part 2 GMP) | Duration 11 wks for 30% Design; Overall 25 wks including Part 2 Contract Bid Documents**

The purpose of this task is to arrive at a 30% level of design for the overall Project and to develop the Part 2 Contract Document set. There will be an early, concurrent focus on both stakeholder engagement and investigation and documentation of existing conditions. There will be a period of focus on Target Value Design before final production on the Part 2 Contract Documents.

#### **Task 1 Major Deliverables:**

**1.a 30% Schematic Design Submittal** - 30% Design Submittal will include:

- 30% level drawings
- Specification table of contents
- 30% level cost estimate (Design-Builder)

04  
cont'd

- updated Project schedule (Design-Builder)
- updated phasing plans (Design-Builder)
- QA/QC documentation, including “red lines”

At the outset of the Project, the estimating team will develop a cost estimate. This estimate will form the basis of the Target Value Design process – a continuous process that begins by breaking out and evaluating the estimate in terms of cost by trade and cost by geographic area. Targets for construction cost are established at this more granular level in order to meet the Owner’s overall Construction Budget. This process first allows visibility into where/how cost is being allocated and then the “right-sizing” of the sub-budgets in order to ensure Project priorities are upheld as costs are engineered out of the Project. Through this collaborative Target Value Design process, a Consensus Budget is arrived at between the Owner and the Design-Builder which is what all future estimates and bids will be reviewed against for alignment with the Project budget, as well as design decisions along the way for a continuous Target Value process.

30% level drawings will be included along with anticipated specifications table of contents and an associated level 30% Cost Estimate, prepared by Design-Builder. At this stage in the Project, the costs are based solely on estimation. Later estimates will include values from previously bid packages in place of estimated values.

**1.b Part 2 Contract Bid Documents (60% Level Design Development for Bid Scopes) – Part 2 Contract Construction Documents include the following trades:**

- Early Sitework (including underground utilities and demolition)
- Structural Steel
- Foundations
- Concrete (Slab on Deck/Pads/Etc)
- Concrete (Pile Caps and Grade Beams)

The drawings and full specifications developed under this subtask will be used to procure bids from prospective subcontractors which will form the Part 2 GMP for recommendation to the Board.

## **Task 2 | 60% Design Development & Part 2 100% Permit Set | Duration 14 wks**

Under this task, the team will continue to develop the Project design to a 60% level of design, with the exception of the trades that were already developed to a 60% level in the Part 2 Contract Construction Documents (see Task 1b above). Under Task 2, the Part 2 GMP discipline drawings will be brought to a 100% level to facilitate the Foundations and Frame permits. Through this task, appropriate stakeholder engagement and approval for all key decisions will be a priority, as well as a concurrent focus on designing to budget.

### **Task 2 Major Deliverables:**

**2.a 60% Design Development Submittal - 60% Design Development Submittal will include:**

- 60% level drawings
- Outline specifications
- 60% level cost estimate, including actual bid values for Task 1 scopes (Design-Builder)
- Updated Project schedule (Design-Builder)
- Updated phasing plans (Design-Builder)
- QA/QC documentation, including “red lines”

**04**  
cont'd

**2.b Part 2 100% Permit Set** (100% Construction Docs for Bid Scopes) – Part 2 Permit Set includes final construction documents for the following trades:

- Early Sitework (including underground utilities and demolition)
- Structural Steel
- Foundations
- Concrete (Slab on Deck/Pads/Etc)
- Concrete (Pile Caps and Grade Beams)

The drawings and specifications developed under this subtask will be signed and sealed and used to apply for the foundations and frame permits with City of Tampa.

### **Task 3 | 90% Contract Documents & Part 2A Contract (Part 2 GMP, Supplement A) |**

#### **Duration 14 wks**

The purpose of this task is to arrive at a 90% level of design for the overall Project and to develop the Part 2A Contract Documents.

#### **Task 3 Major Deliverables:**

**3.a 90% Design Submittal** - 90% Design Submittal will include:

- 90% level drawings
- Specifications
- 90% level cost estimate, including actual bid values for Task 1 scopes (Design-Builder)
- Updated Project schedule (Design-Builder)
- Updated phasing plans (Design-Builder)
- QA/QC documentation, including “red lines”

**3.b Part 2A Contract Bid Documents** (90% Level Design Development for Bid Scopes)

Part 2A Contract Bid Documents includes the following trades:

- Remaining Civil
- Roofing
- Curtainwall Systems
- Metal Panels
- Exterior Framing
- Waterproofing
- MEP/FP/IT
- Electrical Service
- Vertical Transportation (stairs)
- Masonry/Misc Metals
- Interior Finishes
- Signage/Wayfinding



**04**  
cont'd

#### **Task 4 | 100% Design & Part 2A 100% Permit Set | Duration 9 wks**

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The purpose of this task is to arrive at a 100% level of design for the overall Project and to develop the final permit set for the trades bought under the Part 2 GMP, Supplement A.

##### **Task 4 Major Deliverables:**

###### **4.a 100% Overall Design Submittal & Part 2A 100% Permit Set**

This 100% Design Submittal will include all bought under the Part 2 GMP, Supplement A. 100% level drawings will be included along with full specifications.

- 100% level drawings, signed and sealed for permit application
- Specifications, signed and sealed for permit application
- QA/QC documentation, including “red lines”
- Approved Permit Drawings

#### **Task 5 | Bid Phase Services**

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Assist Design-Builder with any questions from prospective bidders and provide a recommendation on final award, if needed.

##### **Task 5 Major Deliverables:**

###### **5.a Responses to bidder questions**

###### **5.b Addenda, as needed**

#### **Task 6 | Construction Administration Phase Services**

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During construction, the design team will make regular site visits to observe the ongoing work. Further the team will respond to RFIs and submittals. The team will also generate ASI's, as needed. Finally, the team will assist in the final space turnover and permit close out.

##### **Task 6 Major Deliverables:**

###### **6.a RFI responses and ASI's**

###### **6.b Submittal reviews**

###### **6.c Field observation reports (weekly) and other CA responsibilities**

**05**

**05. Anticipated Project Stakeholders**

The Project design will require the input and participation from multiple stakeholders, in varying degrees. A listing of the anticipated stakeholders with whom we'll need to coordinate includes:

- HCAA P&D
- HCAA Operations
- HCAA Maintenance
- HCAA Real Estate
- HCAA IT
- HCAA Concessions
- HCAA Communications
- TSA
- Concessionaire
- Delta Airlines
- Silver Airlines
- United Airlines
- Building Officials
- FAA
- Other Stakeholders as determined by the Owner

## Section B – Scope of Services by Discipline

### 06 06. Preconstruction Services (Design-Builder)

#### Preconstruction Scope Overview – General

Design-Builder will lead all preconstruction activities and will be responsible for meeting the Owner required scopes, schedules, budget, and deliverables. Design-Builder will be responsible and manage all communications between the Owner and the Design-Builder team. In all phase of Preconstruction and design, Design-Builder will manage all regular team meetings, regular meetings with the Owner, and maintain meetings minutes. Design-Builder will be responsible to deliver a cost estimate for each task, schedule update at each task submittal, phasing plans, constructability review, and value engineering options to maintain budget. Design-Builder will also lead the QA/QC process and ensure compliance with ISO 9001. Design-Builder will direct and manage all exploratory field work by any of its sub-contractor or consultant. Design-Builder will prepare bid packages, conduct sub-contractor outreach including MWBE, issue bid addenda, if necessary, receive bids, evaluate all bids including de-scoping each sub, leveling all bids, making awarding recommendation to the Owner, prepare GMP and Part 2 Contracts for Board approval. The detailed scope for each task is as follows:

#### Preconstruction Services – By Task Deliverables

##### 06.1. Task 1 | 30% Schematic Design & Part 2 Contract (Design-Builder Preconstruction)

###### *06.1.a. 30% Schematic Design Submittal & Part 2 Contract – Preconstruction*

- a) Project Kick-off Meeting with the Owner to review:
  - The Owner goals and objectives.
  - Communication procedures with Owner; identify roles and responsibilities of Owner and design team members, decision makers and stakeholders.
  - The scope of the Project and identify critical areas that will determine a successful outcome.
  - Review Project schedule and budget
  - Initial schedule of meetings and presentations
- b) Facilitate Internal Design-Build Team Kick-off & Recurring Meetings
- c) Lead / Participate in Regular Weekly Design Coordination Meetings (Design-Build Team & Owner).
- d) Provide Regular Constructability Feedback / Review of Design.
- e) Procure Preconstruction investigative scope i.e. Tag and Trace of electrical and low voltage lines within the Project areas
- f) Manage and supervise all field investigative work in support of the design effort.
- g) Develop Preliminary Project Schedule including developing preliminary phasing concepts for review / refinement.
- h) Provide Base estimate with Preliminary Project Cost Modeling / Budget Validation.
- i) Prepare Part 2 contract trades for procurement of early site work, utilities relocations, Foundation, structural steel, and concrete packages. This effort will include preparing list of bidders to be approved by the Owner.
- j) Conduct a Sub-Contractor outreach program including W/MBE Subs to increase competition and diversity participations.
- k) QA/QC of 30% package and 60% early Part 2 Contract procurements and provide proof of QA/QC as a deliverable.
- l) Review Owner comments and revise plans as required

**06**  
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- m) Receive bids, evaluate bids, de-scope each bidder, level all bids, and make award recommendation to the Owner. (This effort will be concurrent with Task 2, 60% Design and will overlap in the schedule)
- n) Prepare Part 2 Contract GMP and provide necessary documents for Owner Board approval. (This effort will be concurrent with Task 2, 60% Design and will overlap in the schedule)
- o) Prepare presentations and present to Owner's Executive Team (This effort will be concurrent with Task 2, 60% Design and will overlap in the schedule)
- p) Prepare presentations and present to Owner's Executive Team.

## **06.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (Design-Builder Preconstruction)**

### ***06.2.a. 60% Design Development Submittal & Part 2 100% Permit Set – Preconstruction***

- a) Lead / Participate in Regular Weekly Design Coordination Meetings (Design-Build Team & Owner).
- b) Provide updates on cost and feedback on materials / concepts and their influence on estimate
- c) Provide Value engineering through Value Targeted design option for budget control
- d) Provide Regular Constructability Feedback / Review of Design
- e) Continuation of Phasing Plan Development.
- f) After Owner Board approval of Part 2 Contract, proceed with Part 2 Contract awards and signing of contracts with Subs, and starting submittals.
- g) Continue to work with the design team to produce a 100% design documents to be used for permitting for the work procured under Part 2 Contract.
- h) Prepare a permitting package to be submitted to the Owner Having Jurisdiction (AHJ)
- i) Further development of Project schedule based on input from Part 2 contract subs submittals.
- j) Prepare presentations and present to Owner's Executive Team.

## **06.3. Task 3 | 90% Contract Documents & Part 2A Contract (Design-Builder Preconstruction)**

### ***06.3.a. 90% Contract Documents Submittal – Preconstruction***

- a) Lead / Participate in Regular Weekly Design Coordination Meetings (Design-Builder & Owner).
- b) Provide Regular Constructability Feedback / Review of Design.
- c) QA / QC of 90% package for Part 2A Contract procurements and provide proof of QA/QC as a deliverable.
- d) Prepare Part 2A contract trades for procurement of all remaining trades. This effort will include preparing list of bidders for each trade to be approved by the Owner.
- e) Conduct a Sub-Contractor outreach program including MWBE Subs to increase competition and diversity participations.
- f) Review Owner comments and revise plans as required.
- g) Receive Bids, evaluate bids, de-scope each bidder, level all bids, and make award recommendation to the Owner. (This effort will be concurrent with Task 4, 100% Design and will overlap in the schedule)
- h) Prepare Part 2A Contract GMP and provide necessary documents for Owner Board approval. (This effort will be concurrent with Task 4, 100% Design and will overlap in the schedule)
- i) Prepare presentations and present to Owner's Executive Team, as needed (This effort will be concurrent with Task 4, 100% Design and will overlap in the schedule)

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#### **06.4. Task 4 | 100% Design & Permit Set for Part 2A (Design-Builder Preconstruction)**

##### ***06.4.a. 100% Overall Design Submittal & Part 2A Permit Set – Preconstruction***

- a) Lead / Participate in Regular Weekly Design Coordination Meetings (Design-Builder & Owner).
- b) Finalize Schedule and phasing plans
- c) QA / QC of 100% package for Part 2A Contract procurements and provide proof of QA/QC as a deliverable.
- d) After Owner Board approval of Part 2A Contract, proceed with Part 2A Contract awards and signing of contracts with Subs, and starting submittals.
- e) Work with the design team to produce a 100% design documents to be used for permitting for the work procured under Part 2A Contract.
- f) Prepare a permitting package to be submitted to the Owner Having Jurisdiction (AHJ) for Part 2A Contract
- g) Obtain final permits and start Part 2A contract
- h) Prepare presentations and present to Owner's Executive Team, as needed.

#### **06.5. Task 5 | Bid Phase Services (Design-Builder Preconstruction)**

The scope of this task has been included as part of Task 1,2,3, and 4 above.

#### **06.6. Task 6 | Construction Phase Services (Design-Builder Preconstruction)**

Not applicable – excluded.

**07**

## **07. Project Management (AECOM)**

### **Project Management Scope Overview – General**

AECOM will provide design project management services, which are outlined by task below.

It is our mission to deliver this Project to the Owner in collaboration with the Design-Builder on-time and on-budget. It is through strong leadership and clear communication that we will achieve the collaboration required to meet the goals of the Project and the Owner.

### **Project Management Scope – By Task Deliverables**

#### **07.1. Task 1 | 30% Schematic Design & Part 2 Contract (AECOM Project Management)**

##### ***07.1.a. 30% Schematic Design Submittal & Part 2 Contract Bid Documents - Project Management***

- a) Owner weekly meetings
- b) Major milestone presentations
- c) Coordination with Design-Builder
- d) AECOM design team coordination
- e) Subconsultant coordination and management
- f) Schedule review and maintenance
- g) Design reviews
- h) Meeting notes
- i) Work plans and deliverables
- j) Conflict resolution
- k) Monthly progress reports and invoicing

#### **07.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (AECOM Project Management)**

##### ***07.2.a. 60% Design Development Submittal & Part 2 100% Permit Set - Project Management***

- a) Owner weekly meetings
- b) Major milestone presentations
- c) Coordination with Design-Builder
- d) AECOM design team coordination
- e) Subconsultant coordination and management
- f) Schedule review and maintenance
- g) Design reviews
- h) Meeting notes
- i) Work plans and deliverables
- j) Conflict resolution
- k) Monthly progress reports and invoicing

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**07.3. Task 3 | 90% Contract Documents & Part 2A Contract (AECOM Project Management)**

***07.3.a. 90% Design Submittal & Part 2A Contract Bid Documents - Project Management***

- a) Owner weekly meetings
- b) Major milestone presentations
- c) Coordination with Design-Builder
- d) AECOM design team coordination
- e) Subconsultant coordination and management
- f) Schedule review and maintenance
- g) Design reviews
- h) Meeting notes
- i) Work plans and deliverables
- j) Conflict resolution
- k) Monthly progress reports and invoicing

**07.4. Task 4 | 100% Design & Part 2A 100% Permit Set (AECOM Project Management)**

***07.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Project Management***

- a) Owner weekly meetings
- b) Major milestone presentations
- c) Coordination with Design-Builder
- d) AECOM design team coordination
- e) Subconsultant coordination and management
- f) Schedule review and maintenance
- g) Design reviews
- h) Meeting notes
- i) Work plans and deliverables
- j) Conflict resolution
- k) Monthly progress reports and invoicing

**07.5. Task 5 | Bid Phase Services (AECOM Project Management)**

***07.5.a. General Bid Phase Services - Project Management***

- a) Review and facilitate any packaging adjustments needed by Design-Builder to support bidding
- b) Assist in Addenda preparation, as needed
- c) Attendance at pre-bid conferences

**07.6. Task 6 | Construction Administration Phase Services (AECOM Project Management)**

***07.6.a. General CA Services - Project Management***

- a) Attend pre-construction conference
- b) Prepare issued for construction drawings
- c) Weekly contractor's meeting and site visit
- d) Attend specialty meetings
- e) Construction changes and change orders
- f) Review shop drawings and generate ASI's, as needed

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- g) Review and approve pay request
- h) Prepare construction management plan
- i) Review and assist with materials testing
- j) Review contractor's safety plan and compliance document
- k) Perform substantial and final inspections
- l) Prepare record drawings from contractor markups
- m) Assist in obtaining close out documents and provide monthly invoicing



08

## 08. Architecture & Interiors (AECOM)

### Architecture & Interiors Scope Overview – General

#### *An Integrated Approach to Project delivery*

The Design-Builder and AECOM will function as an integrated team, from start to finish—all pulling the rope in the same direction. AECOM will lead the visioning and design efforts, under the direction of the Design-Builder, and will be supported by the entire team for design development and production. Working closely with the Design-Builder, AECOM will manage all aspects of the design, including coordination of the subconsultants during the design phases and the preparation of multiple bid packages within the constructs of the Owner's Design-Build procedures.

#### *Existing Conditions*

We will investigate, locate, survey, and document existing utilities to eliminate unknowns and drive cost and schedule certainty. Through our subconsultants, we will conduct a laser scan of existing interior and exterior spaces and will reconcile the resulting point cloud file with available as-built information. Further, the scanning team scope includes some selective above-ceiling scans that will help to clarify the scope. Diagrams of the intended scanning areas are included in the reimbursable expense back up for Echo later in this document. Additionally, the team may require the assistance of the Design-Builder to do some selective demolition and repair in order to get at key but particularly concealed spaces (ie behind a column cover),. If this comes to pass, we're able to leverage Echo's local presence to get in and scan these areas right away, minimizing the amount of time that these selective areas need to be opened up. These locations have not yet been identified and may or may not be needed.

We will integrate reconciled as-built information into 3D model which feeds into coordinated layout drawings. We will leverage 3D modeling to develop a complete and accurate set of documents.

#### *Stakeholder Engagement*

##### The Owner

The Design-Builder understands the importance of engaging the Owner to review and approve each design step and operational decision. The Design-Builder encourages regular reviews with the client in between milestone reviews and will coordinate the potential for "over-the-shoulder" reviews. Weekly design update meetings with the Owner's stakeholders are anticipated.

##### TSA

The Design-Builder also understands the importance of engaging the TSA locally and nationally. These groups function in parallel and both have important and distinct items to weigh in on. The Design-Builder will collaborate with the TSA in accordance with the schedule to maximize the benefit of their input, keeping the Owner in the loop throughout.

#### *Phasing*

In order to maintain existing operations without interruptions to airport and airline operations, concessions or tenants, the Design-Builder will develop a thorough phasing plan to eliminate impacts to airport operations and the passenger experience. There will be a focus on phasing from the initial 30% task. The Design-Builder will implement 3D modelling capabilities to develop and finalize the phasing approach, in concert with the Owner.

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### ***BIM Focused Delivery***

BIM is a key tool to drive positive Project outcomes - integrating building systems into one model to identify design “clashes” throughout the design process and before they get to construction. The team will perform formal clash detection using programs like Glue and Navisworks. BIM enhances the design team’s ability to produce coordinated design packages to support the construction team’s critical path planning and reducing design and production “waste.” In essence, we will build it before we build it. BIM models will be developed in accordance with Owner’s guidelines.

### ***Target Value Design***

The Design-Builder’s implementation of Target Value Design provides visibility to enable early warning of scope/budget mismatches and to empower the Owner with the information they need to manage their many stakeholder scopes requests. Specifically, our experience with terminal design in active terminals, as well as construction, allows us to break apart estimates into modules of functional areas, allowing compartmentalization of stakeholder concerns within those various modules and design-to-budget efforts relative to the needs of each stakeholder. This “Target Value Design” process keeps the Owner informed at all times and eliminates any surprises. We have also found that it allows the team to make informed decisions as the design intent and cost expectations are always in alignment.

In practice, an early estimate is generated that is broken into buckets – either by trade or by geography or other, as identified as useful. The values of those “buckets” are reviewed in the form of meetings and we’ll work collaboratively with the Owner to be sure that the Project dollars are being allocated in alignment with the Project priorities and goals. IE: Are we spending too much on a special curtain wall system? Maybe there’s an opportunity to integrate areas of an opaque wall system to reduce our exterior façade cost and maybe even reallocate those funds to some special furniture or other amenity that passengers will appreciate.

Further, as bids come in, we’ll be able to compare them against the estimate to monitor and react accordingly to keep the Project on budget.

### ***QA/QC***

#### ***Page Turn***

Before any major deliverable, ie 30%,60%, 90%, Bid Sets and Permit Sets, is due, the quality manager will conduct a “heads down” red line review and then a page turn with the key discipline leaders to verify that all stakeholder issues have been addressed and the quality of the document is outstanding. The duration of this page turn will be driven by the size and complexity of the deliverable.

#### ***Prior Package Evaluation***

In a multiple procurement package environment, decisions made in later packages sometimes have impacts and may conflict with decisions made in prior packages. If not addressed quickly, procurement from earlier packages may be impacted. It is necessary that as future packages are developed and issued, a review of previously issued procurement packages must be evaluated against the new package to identify required changes to the previous packages.

The quality manager will be responsible for reporting the findings to the Owner and Design-Builder Project leadership immediately. This will allow the Owner and the Design-Builder to quickly understand the impacts that must be addressed in the previously delivered procurement packages and allow the team to provide feedback and ideas on how to reduce or address those impacts. The quality manager will be responsible for scheduling and coordinating any prior package revisions and reissue.

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### Quality Management

This proposed approach to Quality Management requires a Quality Manager whose responsibility it is to hold the team accountable to following QA/QC protocols and maintain appropriate QA/QC documentation. The Project Manager also plays a role in Quality Management - to monitor and maintain continuous development, coordination and improvement through a regimented review process designed to quickly identify problems, secure solutions and produce complete and accurate procurement packages on time.

## **Architecture & Interiors Scope – By Task Deliverables**

### **08.1. Task 1 | 30% Schematic Design & Part 2 Contract (AECOM Architecture & Interiors)**

#### ***08.1.a. 30% Schematic Design Submittal - Architecture & Interiors***

The purpose of this subtask is to investigate and document the existing conditions for the site and building and arrive at a 30% level design for the overall Project.

- a) QA/QC on the 30% Package, including Architectural/Interior discipline review and interdisciplinary coordination reviews
- b) Meetings with the Owner, TSA, the AHJs, the Design-Builder and the Design team, including regular design presentations/updates and ongoing coordination meetings; AHJ coordination includes preliminary plan review with the AHJ to introduce the Project and get in front of any code concerns they have
- c) Preparation for and minutes/summaries from meetings with the Owner, TSA and other Stakeholders, including renderings, slide deck development and other presentation graphics
- d) Existing Conditions site visits
- e) Coordination of existing conditions investigations by subconsultants. The investigations include SUE (Element), building lidar scanning (Echo), topographic survey (Northwest) and geotechnical exploration (Tierra). More information on the specific scopes of these investigations can be found in their proposal backup under the “Reimbursable Expense Back Up” section of this document.
- f) Incorporation of existing conditions findings into existing condition drawings
- g) Coordination of Architectural and Interior scope with target value design and cost estimating
- h) Schematic level code analysis, egress drawings and egress phasing plans
- i) Schematic level plan and RCP development
- j) Schematic level sections and elevations
- k) Schematic level phasing plans
- l) Specification Table of Contents
- m) Assemble 30% Schematic Design Submittal
- n) Incorporate/respond to Owner Comments
- o) Design management
- p) Interdisciplinary coordination
- q) BIM Management
- r) Project financial administration

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**08.1.b. Part 2 Contract Bid Documents - Architecture & Interiors**

This subtask represents the first of two Project bid packages and will include the underground, foundations and superstructure developed to a 60% level. Architecture's primary roles in this package include development of the design in BIM to promote coordination with the bid scopes and Quality Control.

- s) QA/QC on the bid documents, including interdisciplinary coordination review
- t) Meetings with the Owner, the Design-Builder and the Design team on the package (ie page turns, estimate reviews and value engineering sessions)
- u) Architectural and systems coordination with the accelerated design progress of the Part 2 Bid documents, including slab edges, beam penetrations, structural loading
- v) Assemble Part 2 Bid Set Submittal
- w) Incorporate/respond to Owner Comments
- x) Assemble Final Part 2 Bid Set Submittal
- y) Document management and control

**08.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (AECOM Architecture & Interiors)**

**08.2.a. 60% Design Development (DD) Submittal - Architecture & Interiors**

- a) QA/QC on the 60% Package, including Architectural/Interior discipline review and interdisciplinary coordination reviews
- b) Meetings with the Owner, TSA, the Design-Builder and the Design team, including regular design presentations/updates and ongoing coordination meetings
- c) Preparation for and minutes/summaries from meetings with the Owner, TSA and other Stakeholders, including renderings, slide deck development and other presentation graphics
- d) Existing Conditions site visits, as needed
- e) Coordination of Architectural and Interior scope with target value design and cost estimating
- f) Expand code development to the 60% level, including code analysis, egress drawings and egress phasing plans as the design evolves
- g) Design Development level plans, glare and interior comfort studies and RCPs development
- h) Design Development level sections, elevations, partition types, interior / exterior plan and section details
- i) Design Development level phasing plans
- j) Design Development level wayfinding plans
- k) Design Development finish and hardware schedules
- l) Outline Specifications
- m) Assemble 60% Design Development Submittal
- n) Incorporate/respond to Owner comments
- o) Design management
- p) Interdisciplinary coordination
- q) BIM Management
- r) Project Financial Administration

**08.2.b. Part 2 100% Permit Set - Architecture & Interiors**

- s) QA/QC on the permit documents, including interdisciplinary coordination review
- t) Meetings with the Owner, the Design-Builder and the Design team on the package (ie page turns, estimate reviews and value engineering sessions)

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- u) Architectural and systems coordination with the accelerated design progress of the Part 2 Permit documents, including refinements to beam penetrations, structural loading, etc.
- v) Assemble Part 2 Permit Set Submittal
- w) Incorporate/respond to Owner comments
- x) Assemble Final Part 2 Permit Set Submittal
- y) Document management and control

### **08.3. Task 3 | 90% Contract Documents & Part 2A Contract (AECOM Architecture & Interiors)**

#### ***08.3.a. 90% Design Submittal - Architecture & Interiors***

- a) QA/QC on the 90% Package, including Architectural/Interior discipline review and interdisciplinary coordination reviews
- b) Meetings with the Owner, TSA, the Design-Builder and the Design team, including regular design presentations/updates and ongoing coordination meetings
- c) Preparation for and minutes/summaries from meetings with the Owner, TSA and other Stakeholders, including renderings, slide deck development and other presentation graphics
- d) Existing Conditions site visits, as needed
- e) Coordination of Architectural and Interior scope with target value design and cost estimating
- f) Expand code development to the 90% level, including code analysis, egress drawings and egress phasing plans as the design evolves
- g) 90% level plans and RCPs development
- h) 90% level sections, elevations, partition types
- i) 90% level phasing plans
- j) 90% level wayfinding plans
- k) 90% finish and hardware schedules
- l) 90% level detail drawings
- m) Specifications
- n) Assemble 90% Contract Documents Submittal
- o) Incorporate/respond to Owner comments
- p) Design management
- q) Interdisciplinary coordination
- r) BIM Management
- s) Project financial administration

#### ***08.3.b. Part 2A Contract Bid Documents - Architecture & Interiors***

The design development associated with this package is captured in the scopes above. The effort described here is limited to the packaging and processing of the specific scopes being bid.

- t) QA/QC on the bid documents, including interdisciplinary coordination
- u) Meetings with the Owner, the Design-Builder and the Design team on the package (ie page turns)
- v) Assemble Part 2A Bid Set Submittal
- w) Incorporate/respond to Owner comments
- x) Assemble Final Part 2A Bid Set Submittal
- y) Document management and control

**08**  
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#### **08.4. Task 4 | 100% Design & Part 2A 100% Permit Set (AECOM Architecture & Interiors)**

##### ***08.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Architecture & Interiors***

- a) QA/QC on the 100% Part 2A permit documents, including Architectural/Interior discipline review and interdisciplinary coordination reviews
- b) Meetings with the Owner, TSA, the Design-Builder and the Design team, including regular design presentations/updates and ongoing coordination meetings; Meetings with the Owner, the Design-Builder and the Design team on the 100% permit package (ie page turns, estimate reviews and value engineering sessions)
- c) Preparation for and minutes/summaries from meetings with the Owner, TSA and other Stakeholders, including renderings, slide deck development and other presentation graphics
- d) Existing Conditions site visits, as needed
- e) Coordination of Architectural and Interior scope with target value design and cost estimating
- f) Expand code development to the 100% level, including code analysis, egress drawings and egress phasing plans as the design evolves
- g) 100% level plans and RCPs development signed and sealed for permit application
- h) 100% level sections, elevations, partition types signed and sealed for permit application
- i) 100% level phasing plans signed and sealed for permit application
- j) 100% level wayfinding plans signed and sealed for permit application
- k) 100% finish and hardware schedules signed and sealed for permit application
- l) 100% level detail drawings signed and sealed for permit application
- m) 100% Specifications, signed and sealed for permit application
- n) Assemble Part 2A Permit Set submittal
- o) Incorporate/respond to Owner comments
- p) Assemble final Part 2A Permit Set submittal
- q) Design management, document management and control
- r) Interdisciplinary coordination
- s) BIM Management
- t) Project financial administration

#### **08.5. Task 5 | Bid Phase Services (AECOM Architecture & Interiors)**

##### ***08.5.a. Responses to bidder questions - Architecture & Interiors***

- a) Provide responses to bidder questions as they relate to Architectural and Interior scopes
- b) Coordinate responses to bidder questions as they relate to other disciplines

##### ***08.5.b. Addenda, as needed - Architecture & Interiors***

- c) Provide addenda in the form of drawing or specification modification, as needed
- d) Perform QA/QC checks on all design team addenda

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## **08.6. Task 6 | Construction Administration Phase Services (AECOM Architecture & Interiors)**

### ***08.6.a. RFI responses - Architecture & Interiors***

- a) Provide responses to RFIs and provide ASI's, as needed
- b) Coordinate cross-discipline RFI responses
- c) RFI distribution and record keeping

### ***08.6.b. Submittal reviews - Architecture & Interiors***

- d) Review shop drawings and other submittals
- e) Shop drawing distribution and record keeping

### ***08.6.c. Field observation reports - Architecture & Interiors***

- f) Regular site visits
- g) Photograph-based reports on site progress

### ***08.6.d. Other CA Responsibilities - Architecture & Interiors***

- h) Attend pre-construction conference
- i) Weekly contractor + Owner's meeting
- j) Attend specialty meetings
- k) Review construction changes and change orders; document control and maintenance of a conformed set of drawings and specifications throughout the duration of the Project as changes are made / incorporated. The conformed set will be provided to the Owner at regular intervals so the Owner always has a set of "latest and greatest" documents
- l) Perform substantial and final inspections
- m) Prepare record drawings from contractor mark ups
- n) Assist in obtaining close-out documents

09

## 09. Structural Engineering (AECOM)

### Structural Scope Overview – General

The structural system for both airside is the same. The roof framing consists of roof steel truss supported by steel or concrete columns. The metal roof deck will be supported by infill steel beam supported by steel truss. The floor framing system will be either composite steel beam supported by girder and steel column or concrete beam supported by concrete column and supporting concrete slab. The slab on grade will be concrete to support the design load. The foundation system will be pile and / or spread footing per geotechnical engineer recommendation.

The wind lateral load will be supported by either concrete or steel moment frame system.

The structural framing of the roof will rely on a long span truss to create a clear, column free space in the area of the new checkpoint equipment.

### Structural Scope – By Task Deliverables

#### 09.1. Task 1 | 30% Schematic Design & Part 2 Contract Documents (AECOM Structural)

##### *09.1.a. 30% Schematic Design Submittal – Structural*

- a) Coordinate overall geometry and column spacing with architect and civil
- b) Wind and gravity load calculation
- c) Establish framing plan and infill beam spacing.
- d) Establish foundation system
- e) QA/QC Discipline Review and Documentation
- f) Review and incorporate Owner's comments
- g) Meetings with the Owner, the Design-Builder and the design team

##### *09.1.b. Part 2 Contract Documents – Structural*

The drawings and specifications developed under this task will result in 60% level development bid documents.

- h) Foundation Plans and specifications. Include for all structures, showing dimensions, arrangements, elevations, locations referred to a column line grid system, type of foundation and foundation obstructions. Include the layout of all parts, including but not limited to, slabs, footings, piers, grade beams, showing all foundation features of the design.
- i) Framing Plans and specifications. Include a framing plan for each structural level of the facility, showing dimensions, elevations, and column locations and numbering referenced to a column line grid system, and overall sizes of major members and components. Show the layout of system, including, but not limited to, beams, joists, and stringers.
- j) Structural Details and specifications. Show typical details of construction, indicating the connection and relationship between major components of the structural system.
- k) Structural Elevations and specifications. Show general sizes, location and arrangement of all significant features of the vertical framing system, such as columns, walls, and beams.
- l) QA/QC Documentation
- m) Review and incorporate Owner's comments
- n) Meetings with the Owner, the Design-Builder and the design team



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## 09.2. Task 2 | 60% Design Development (AECOM Structural)

### **09.2.a. 60% Conceptual Submittal – Structural**

No effort is included in this subtask, as the Structural 60% level design has been developed under previous task 09.1.

### **09.2.b. Part 2 Permit Set – Structural**

- a) Incorporate all Owner comments
- b) Design lateral resistance system of the structure
- c) Finalize the roof and floor framing plan
- d) Finalize the foundation design
- e) Detail roof and framing plan
- f) Finalize roof truss design
- g) Provide specification
- h) QA/QC Documentation
- i) Review and incorporate Owner's comments
- j) Prepare final engineer signed and sealed construction document for permitting

## 09.3. Task 3 | 90% Contract Documents & Part 2A Contract Documents (AECOM Structural)

### **09.3.a. 90% Design Submittal – Structural**

Structural has very little participation in this submittal, as Structural Construction Drawings have been completed under previous tasks. Effort here is meant to capture any changes that need to be incorporated and issued as a result of concurrent design development of the rest of the Project disciplines.

- a) Incorporate any Owner comments that impact Structural scopes
- b) Refine final design as required
- c) QA/QC Documentation on any revisions issued

### **09.3.b. Part 2A Contract Documents – Structural**

No effort is included here as this task represents the assembly of bid documents associated with other non-Structural scopes.

## 09.4. Task 4 | 100% Design & Permit Set for Part 2A (AECOM Structural)

### **09.4.a. 100% Overall Design Submittal Permit Set - Structural**

Structural has very little participation in this submittal, as Structural Construction Drawings have been completed under previous task 09.2. Effort here is meant to capture any changes that need to be incorporated and issued as a result of concurrent design development of the rest of the Project disciplines.

- a) Incorporate any Owner comments that impact Structural scopes
- b) Refine final design as required
- c) QA/QC Documentation on any revisions issued

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**09.5. Task 5 | Bid Phase Services (AECOM Structural)**

***09.5.a. Responses to bidder questions – Structural***

- a) Provide responses to bidder questions as they relate to Structural scopes

***09.5.b. Addenda, as needed – Structural***

- b) Provide addenda in the form of drawing or specification modification, as needed
- c) Perform QA/QC checks on all Structural addenda

**09.6. Task 6 | Construction Administration Phase Services (AECOM Structural)**

***09.6.a. RFI responses – Structural***

- a) Provide responses to RFIs and contribute to ASI's, as needed

***09.6.b. Submittal reviews – Structural***

- b) Review shop drawings and other submittals

***09.6.c. Field observation reports – Structural***

- c) Regular site visits
- d) Photograph-based reports on site progress

***09.6.d. Other CA Responsibilities – Structural***

- e) Attend specialty meetings
- f) Review construction changes
- g) Perform substantial and final inspections
- h) Prepare record drawings from contractor mark ups
- i) Assist in obtaining close-out documents

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## 10. Civil Engineering (AECOM)

### Civil Scope Overview – General

The Civil Engineering scope of work includes coordinating with topographic survey, geotechnical engineering, and subsurface utility engineering subconsultants with regards to on-site field work required for the Project as well as Project coordination with the Project team, architects, and structural engineer. The scope will include a site visit for verification of existing conditions once the field work is complete. Civil engineering will include airfield engineering, utility relocations, civil demolition, civil engineering, and Project phasing. A more detailed breakout by Airside is below:

#### Airside A

- Aircraft Gate Position Layouts for Gates A-1 and A-3 to include apron remarking plans per FAA criteria.
- Demolition plans to include airfield pavements, sidewalks, and other civil elements
- Airfield Pavement Design to correct slope deficiencies for NFPA 415 of approximately 50' from new building exteriors.
- Includes pavement design under the building addition for GSE equipment loads.
- AOA Perimeter fencing modifications as necessary for building expansion utilizing FAA AOA fencing with the Owner's preferences regarding height.
- FAA Coordination including Construction Safety and Phasing Plans and 7460 to support design and construction.
- Utilities
  - Relocate Water, Sanitary Sewer, Natural Gas (if not designed by TECO/Peoples Gas) and Storm Water as required for foundation installation. Relocations will be permitted through City of Tampa and FDEP as required.

#### Airside E

- Demolition plans to include pavements, sidewalks, and other civil elements
- Includes pavement design under the building addition for GSE equipment loads.
- Bollards for columns at grade level
- AOA Perimeter fencing modifications as necessary for building expansion utilizing FAA AOA fencing with the Owner's preferences regarding height including gate relocation (civil only; need scope from security and electrical). Assumed electronic gate with access control and CCTV.
- FAA Coordination including Construction Safety and Phasing Plans and 7460 to support design and construction.
- Utilities
  - Relocate Water, Sanitary Sewer, Natural Gas (if not designed by TECO/Peoples Gas) and Storm Water as required for foundation installation. Relocations will be permitted through City of Tampa and FDEP as required.
- Included compactor relocation to location within Project footprint

#### Exclusions

- No modifications to fueling system unless required by NFPA or necessary due to Gate A1 relocation.
- No modifications to fence or gate guard shack at "Airside A or E" unless modifications are required as a product of the design solution presented by the Design-Builder
- No modifications to existing pump station northwest of the Airside A Project site.
- No modifications to the existing loading dock or wall adjacent to the loading dock on Airside A unless modifications are required as a product of the design solution presented by the Design-Builder
- Parking replacement for Airside E will be under the proposed addition. No parking replacement areas outside the area are included unless required as a product of the design solution presented by the Design-Builder.

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- No impacts to the existing guideway systems
- Environmental Assessments by others
- No hazardous material included
- Southwest Florida Water Management (SWFWMD) Permit not anticipated but included if necessary; a letter modification to SWFWMD is included

## Civil Scope – By Task Deliverables

### 10.1. Task 1 | 30% Schematic Design & Part 2 Contract (AECOM Civil)

#### 10.1.a. 30% Schematic Design Submittal – Civil

- a. Existing Conditions document collection and field verifications are included for each airside to document or verify elements from the survey or to recheck Record Drawing information.
- b. Coordinate with on-site subconsultants during their on-site field exploration work
- c. Project Management and Meetings including coordination with other disciplines, internal team meetings, and meetings with the Owner
- d. Base Drawing Creation – will utilize existing CADD drawings provided by the Owner and update with additional detailing for the Project areas including layer management of existing data and incorporation of other Projects into the Project area.
- e. Incorporate Survey into Base drawing – will take the survey provided under this Project and incorporate it into the overall base drawing for the Project including graphical changes, detailed item descriptions, and layering modifications as necessary.
- f. Incorporate SUE into Base drawing – Will add detailed SUE data into the utility CADD file provided by the airport and develop 3-D file for subsurface locations of utilities.
- g. General Sheets – G – Will create cover sheet, note sheets, and standard general sheets to support the Project to the 30% level.
- h. Civil Demolition Sheets – A 30% civil demolition sheet set will be provided.
- i. Utility Demolition Sheets - A 30% utility demolition sheet set will be provided.
- j. Civil Layout Sheets – CA – A 30% design for civil will include building location and pavement geometrics for each building
- k. Civil Detail Sheets -Civil details will be included as required for 30% deliverable.
- l. Utility Layout Sheets – CU – Will provide existing utility locations and work with structural engineer and civil engineer to determine extent of utility relocations necessary for foundation installation at 30%.
- m. Utility Profile Sheets – CU- No profiles will be included at 30%.
- n. Utility Detail Sheets - CU- Will provide utility details in support of 30%.
- o. Civil Temporary or Phasing Sheets – Will provide 30% temporary sheets and phasing plans to support the overall Project.
- p. Engineer's Report – Will draft Engineer's Report outline and update as design progresses.
- q. CSPP - Will draft CSPP outline and update as design progresses.
- r. QA/QC – Will perform quality control on all deliverables per AECOM QA/QC plan.
- s. Gate Planning – Will provide options for Airside A gates A1 and A3 relocation based on building footprint and input from stakeholders for review.
- t. Specifications – Will provide outline civil specifications for 30%.

#### 10.1.b. Part 2 Contract Bid Documents

- u. General Sheets – G – Will create cover sheet, note sheets, and standard general sheets to support the Project.

- v. Civil Demolition Sheets – Civil demolition sheet set will be provided for the 60% Bid set of select demolition necessary for foundation installation.
- w. Utility Demolition Sheets - Utility demolition sheet set will be provided for the 60% Bid set of select demolition necessary for foundation installation.
- x. Civil Detail Sheets -Civil details will be included to support the 60% Bid Documents.
- y. Utility Layout Sheets – CU – Designated utilities will be included plan view of relocated utilities for the 60% Bid documents package.
- z. Utility Profile Sheets – CU- Will provide profiles in support of 60% bid documents.
- aa. Utility Detail Sheets - CU- Will provide utility details in support of 60% bid documents.
- bb. Civil Temporary or Phasing Sheets – Will provide 60% temporary sheets and phasing plans to support the overall Project and 60% Bid package as required.
- cc. QA/QC – Will perform quality control on all deliverables per AECOM QA/QC plan.
- dd. Specifications – Will provide 60% Bid document specifications for elements included in that package.

## 10.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (AECOM Civil)

### 10.2.a. 60% Design Development Submittal - Civil

- a. Existing Conditions document collection and field verifications
- b. Incorporate comments from 30% Review
- c. Project Management and Meetings
- d. General Sheets – G (General)
- e. Civil Demolition Sheets
- f. Utility Demolition Sheets
- g. Civil Layout Sheets – CA (Civil)
- h. Civil Grading and Drainage Sheets
- i. Pavement Design
- j. Typical Sections
- k. Marking Design
- l. Fencing Design
- m. Civil Detail Sheets
- n. 100% Utility Layout Sheets – CU (Civil Utility sheet nomenclature)
- o. 100% Utility Profile Sheets – CU (Civil Utility sheet nomenclature)
- p. 100% Utility Detail Sheets – CU (Civil Utility sheet nomenclature)
- q. Civil Temporary or Phasing Sheets
- r. Engineer's Report
- s. CSPP (Construction Safety and Phasing Plan)
- t. QA/QC
- u. Gate Planning
- v. Specifications

### 10.2.b. Part 2 100% Permit Set - Civil

- w. General Sheets – G Permitting
- x. Civil Demolition Sheets & Permitting
- y. Utility Demolition Sheets & Permitting
- z. Civil Detail Sheets Permitting
- aa. 100% Utility Layout Sheets – CU Permitting
- bb. 100% Utility Profile Sheets – CU Permitting
- cc. 100% Utility Detail Sheets – CU Permitting

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- dd. Civil Temporary or Phasing Sheets Permitting
- ee. QA/QC

### **10.3. Task 3 | 90% Contract Documents & Part 2A Contract (AECOM Civil)**

#### ***10.3.a. 90% Design Submittal - Civil***

- a. Incorporate comments from 60% Review
- b. Project Management and Meetings
- c. General Sheets - G
- d. Civil Demolition Sheets
- e. Utility Demolition Sheets adjustments
- f. Civil Layout Sheets - CA
- g. Civil Grading and Drainage Sheets
- h. Pavement Design
- i. Typical Sections
- j. Marking Design
- k. Fencing Design
- l. Civil Detail Sheets
- m. Utility Layout Sheets - CU adjustments
- n. Utility Profile Sheets - CU adjustments
- o. Utility Detail Sheets - CU adjustments
- p. Civil Temporary or Phasing Sheets
- q. Engineer's Report
- ff. CSPP (Construction Safety and Phasing Plan)
- r. QA/QC
- s. Gate Planning
- t. Specifications

#### ***10.3.a. Part 2a Contract Bid Documents - Civil***

- u. General Sheets - G
- v. Civil Demolition Sheets
- w. Civil Layout Sheets - CA
- x. Civil Grading and Drainage Sheets
- y. Pavement Design
- z. Typical Sections
- aa. Marking Design
- bb. Fencing Design
- cc. Civil Detail Sheets
- dd. Civil Temporary or Phasing Sheets
- ee. QA/QC

### **10.4. Task 4 | 100% Design & Part 2A 100% Permit Set (AECOM Civil)**

#### ***10.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Civil***

- a. Incorporate comments from 90% Review
- b. Project Management and Meetings
- c. General Sheets - G – signed and sealed for Final Permitting
- d. Civil Demolition Sheets - signed and sealed for Final Permitting
- e. Civil Layout Sheets - CA - signed and sealed for Final Permitting
- f. Civil Grading and Drainage Sheets - signed and sealed for Final Permitting
- g. Pavement Design - signed and sealed for Final Permitting

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- h. Typical Sections - signed and sealed for Final Permitting
- i. Marking Design - signed and sealed for Final Permitting
- j. Fencing Design - signed and sealed for Final Permitting
- k. Civil Detail Sheets - signed and sealed for Final Permitting
- l. Civil Temporary or Phasing Sheets - signed and sealed for Final Permitting
- m. Civil Permitting
- n. Engineer's Report
- o. CSPP
- p. QA/QC
- q. Specifications signed and sealed for Final Permitting

#### **10.5. Task 5 | Bid Phase Services (AECOM Civil)**

- a. Package Plans for Bidding
- b. Assist in Addenda Preparation
- c. Attend PreBid Conference

#### **10.6. Task 6 | Construction Administration Phase Services (AECOM Civil)**

- a. Attend PreConstruction Conference
- b. Prepare Issued For Construction Drawings
- c. Weekly Contractor's Meeting & Periodic Site Visits (including field observation reports with photos)
- d. Attend Specialty Meetings
- e. Construction Changes & Change Orders
- f. Review Shop Drawings and participate in generation of ASI's, as needed
- g. Review and Approve Pay Request
- h. Prepare Construction Management Plan
- i. Review and assist with Materials Testing
- j. Review Contractor's Safety Plan and Compliance Doc
- k. Perform substantial and final inspections
- l. Prepare Record Drawings from contractor markups
- m. Assist in obtaining close-out documents

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## 11. Fire Protection & Fire Alarm (AECOM)

### Fire Protection & Fire Alarm Scope Overview – General

The sprinkler system expansion will be designed in accordance with the Seventh Edition of the Florida Fire Prevention Code and in full compliance with NFPA, including the editions of NFPA 13, NFPA 15, and NFPA 415 as referenced by the FFPC. The building portion of the sprinklers shall be designed in accordance with NFPA 13 utilizing the design criteria of specific areas as required by NFPA 415. For areas where NFPA 415 does not provide specific criteria, NFPA 13 will be used to make those determinations. In all locations of Airside A where the glazing is less than 7 feet above the floor and less than 100 feet from a potential fuel spill point, a deluge system will be required to protect the glazing from the heat of a potential fire on the ramp. The parking locations and aircraft type will be coordinated with the design team to determine the location of the potential fuel spills to determine the required limits of the glass that require protection. The amount of glass required for protection will be reviewed to determine the required amount of water for the deluge systems. To minimize the amount of water required, multiple systems will be employed. Prior to starting the design AECOM will determine the amount of water flow and pressure available and will design the systems to that water supply. A valve room location will be coordinated with the Architectural team to house the deluge valves. The routing of the pipe from an adequately sized existing main to the valve room will be determined and calculations will be conducted to size a new main from the existing main to the valve room. The existing fire pump room is near this site and every reasonable effort will be made to avoid, or minimize, disruption of existing operations to install the new main. A similar approach will be used to locate the sprinkler supply for the interior sprinkler systems in Airside A and E. If the existing system cannot be extended to cover the new area due to system size limitations, new floor control assemblies will be installed for the new areas. Consideration will be given to area annunciation and to maintenance and testing access. The preferred locations for floor control assemblies will be in stairwells for access and protection. All new flow switches, pressure switches, deluge system detectors, and valve tamper switches will be coordinated with the fire alarm design team for monitoring by the fire alarm system. The deluge system activation will be by flame detectors connected to a UL listed tripping panel.

Portable fire extinguishers will be provided and located per NFPA 10. Locations will be coordinated with the Architect to provide proper coverage while being aware of the aesthetics of the surrounding area.

The fire alarm system for both Airside A and E is a JCI system which reports back to the new Airport Operation Center. Audio Visual device will be added to provide coverage in the new screening lobbies. New initiating devices such as pull stations, duct smoke detectors, and ceiling smoke detectors will be provided as required by codes. All devices will be tied to the respective Airside Fire Alarm Control Panel (FACP).

### Fire Protection & Fire Alarm Scope – By Task Deliverables

#### 11.1. Task 1 | 30% Schematic Design & Part 2 Contract (AECOM Fire Protection & Fire Alarm)

##### 11.1.a. 30% Schematic Design Submittal - Fire Protection & Fire Alarm

- a) Coordinate with design team to locate potential fuel spill points.
- b) Conduct an existing conditions survey and review any available record drawings. Determine sizes of existing systems and determine if new systems are required, or if existing systems can be expanded.
- c) Provide Existing Conditions/Demo Sprinkler Plans.
- d) Develop 30% level sprinkler plans that identify areas of coverage, hazards to protect, and location of water for the new/expanded systems. Locate new system control assemblies if required.



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- e) Develop 30% level deluge system plans to identify system coverage and valve room locations.
- f) Develop 30% deluge detection and activation system drawing.
- g) Develop one-line diagram to depict the water supply and sprinkler/deluge riser components and arrangement.
- h) Coordinate detection and alarm requirements with fire alarm design team.
- i) Determine flow and pressure available from existing water supply.
- j) Prepare written narrative of Fire Protection & Fire Alarm system requirements and existing conditions.
- k) Conduct preliminary calculations to verify that the available water supply will support the sprinkler and deluge system demand.
- l) Existing fire alarm systems for each Airside will be reviewed for expandability and required upgrades will be included for the expansion.
- m) Preliminary Fire Alarm Riser Diagrams identifying equipment to be used in the system expansion.
- n) Provide list of proposed specifications.
- o) QA/QC Review

**11.1.b. Part 2 Contract Bid Documents - Fire Protection & Fire Alarm**

We do not currently anticipate the need for Fire Protection & Fire Alarm participation in the Part 2 Contract Bid Document process.

**11.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (AECOM Fire Protection & Fire Alarm)**

**11.2.a. 60% Design Development Submittal - Fire Protection & Fire Alarm**

- a) Advance the sprinkler drawings to a 60% level to locate and coordinate major components and sprinkler bulk mains
- b) Advance the deluge drawings to a 60% level to locate and coordinate major components and deluge system bulk mains
- c) Advance the deluge detection and activation drawings to a 60% level
- d) Coordinate the deluge pipe and detection system with the Architectural team to address appearance and traveler experience
- e) Coordinate the deluge system design with the structural design team and develop supports for the pipe and detectors
- f) Advance the one-line diagram to a 60% level to incorporate any required up-dates
- g) Conduct calculations to verify that the advanced design has not altered the water demand beyond what the existing water system can supply
- h) Participate in BIM Clash Detection analysis and coordinate with affected disciplines
- i) Overall Fire Alarm Plans indicating new device locations
- j) Developed Fire Alarm Riser Diagram
- k) Fire alarm operational matrix
- l) Fire Alarm and Electrical specifications
- m) Fire Alarm Details
- n) Prepare outline specifications
- o) QA/QC Review

**11.2.b. Part 2 100% Permit Set - Fire Protection & Fire Alarm**

We do not currently anticipate the need for Fire Protection and Fire Alarm participation in the Part 2 Permit Document process.

**11.3. Task 3 | 90% Contract Documents & Part 2A Contract (AECOM Fire Protection & Fire Alarm)**

**11.3.a. 90% Design Submittal - Fire Protection & Fire Alarm**

- a) Conduct hydraulic calculations to size sprinkler and deluge system pipes
- b) Advance sprinkler system drawings to 90%
- c) Advance deluge system drawings to 90%
- d) Advance deluge system detection and activation drawings to 90%
- e) Prepare completed specifications
- f) Participate in final BIM Clash Detection Analysis
- g) Overall Fire alarm Plans indicating new device locations, operational details.
- h) Developed Fire Alarm Riser Diagram
- i) Fire alarm operational matrix indicating sequence of operation.
- j) Final Fire Alarm specifications
- k) Fire Alarm Details
- l) QA/QC Review

**11.3.b. Part 2A Contract Bid Documents - Fire Protection & Fire Alarm**

The Contract Bid Documents for Fire Protection & Fire Alarm will include:

- m) Adoption and resolution of stakeholder comments resulting from 90% design submittal review
- n) Coordination and confirmation of FP and FA specifications, contractor division of scope and bidder instructions with Owner procurement agent
- o) Biddable Fire Protection & Fire Alarm contract documents (90% developed design drawings and specifications)
- p) QA/QC Review

**11.4. Task 4 | 100% Design & Part 2A 100% Permit Set (AECOM Fire Protection & Fire Alarm)**

**11.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Fire Protection & Fire Alarm**

- a) Incorporate all Owner and TSA comments into the design documents.
- b) Overall Fire alarm Plans indicating new device locations, operational details.
- c) Developed Fire Alarm Riser Diagram
- d) Fire alarm operational matrix indicating sequence of operation.
- e) Final Fire Alarm specifications
- f) Fire Alarm Details
- g) Signed and sealed drawings and specifications for permit submittal
- h) QA/QC Review

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## **11.5. Task 5 | Bid Phase Services (AECOM Fire Protection & Fire Alarm)**

### ***11.5.a. Responses to bidder questions - Fire Protection & Fire Alarm***

- a) Respond to Fire Protection & Fire Alarm bidder questions and address any coordination required between disciplines

### ***11.5.b. Addenda, as needed - Fire Protection & Fire Alarm***

- b) Prepare any required addenda to Fire Protection & Fire Alarm documents

## **11.6. Task 6 | Construction Administration Phase Services (AECOM Fire Protection & Fire Alarm)**

### ***11.6.a. RFI responses - Fire Protection & Fire Alarm***

- a) Prepare responses to Fire Protection & Fire Alarm RFI's and contribute to ASI's, as needed

### ***11.6.b. Submittal reviews - Fire Protection & Fire Alarm***

- b) Review sprinkler system shop drawings and calculations.
- c) Review deluge system shop drawings and calculations.
- d) Review deluge detection and activation system shop drawings.

### ***11.6.c. Field observation reports - Fire Protection & Fire Alarm***

- e) Provide reports of field observations during construction field investigations.

### ***11.6.d. Other CA responsibilities - Fire Protection & Fire Alarm***

- f) Attend specialty meetings
- g) Review construction changes
- h) Perform substantial and final inspections
- i) Prepare record drawings from contractor mark ups
- j) Assist in obtaining close-out documents

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## 12. Security (AECOM)

### Security Scope Overview – General

The security systems design team will be fully integrated with partner disciplines throughout design development. Checkpoint security system designs will be based on the most current TSA Checkpoint Requirements and Design Guide (CPRG) and all applicable existing Owner technical standards. The security system design team will meet early in the design process with Owner stakeholders to gain a detailed understanding of all existing equipment and installation standards at TPA. Security system as-builts will be requested and analyzed to gain a complete understanding of current infrastructure. Any new surveillance cameras, access control systems and alarm systems will be designed as expansions of the existing airport security systems to avoid any potential system compatibility and integration concerns. The team will also participate in any design review meetings and/or conferences as required by the contract.

The team will develop a security system testing and commissioning process document for review and approval by the Owner. Once finalized the security design team will participate in final system testing and documentation process along with the system installers, the Owner and TSA representatives (should they choose to participate).

### Security Scope – By Task Deliverables

#### 12.1. Task 1 | 30% Schematic Design & Part 2 Contract (AECOM Security)

##### **12.1.a. 30% Schematic Design Submittal - Security**

The 30% Schematic Design Submittal for security will include:

- a) Updated security design narrative and existing conditions report detailing findings from completed existing conditions surveys and stakeholder interviews.
- b) Security equipment layout plans based on architectural and communications infrastructure design development and coordination.
- c) Outline security specifications to include access control, surveillance camera, and alarm systems (as applicable).
- d) QA/QC Review

##### **12.1.b. Part 2 Contract Bid Documents - Security**

We do not currently anticipate the need for security participation in the Part 2 Contract Bid Document process.

#### 12.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (AECOM Security)

##### **12.2.a. 60% Design Development Submittal - Security**

The 60% Design Development Submittal for security will include:

- a) Adoption and resolution of stakeholder comments resulting from 30% design submittal review.
- b) Further refinement of security system layout plans based on coordination with system stakeholders, architecture, MEP and communications infrastructure design partners. Develop a matrix of responsibilities for security scope, to include OFE equipment, OFCI, OFOI, CFCl, etc.
- c) Preliminary security system details and elevations, equipment schedules and system line diagrams.
- d) Preliminary security technology specifications.

- e) QA/QC Review

**12.2.b. Part 2 100% Permit Set - Security**

We do not currently anticipate the need for security participation in the Part 2 Permit Document process.

**12.3. Task 3 | 90% Contract Documents & Part 2A Contract (AECOM Security)**

**12.3.a. 90% Design Submittal - Security**

The 90% Design Submittal for security will include:

- a) Adoption and resolution of stakeholder comments resulting from 60% design submittal review.
- b) Pre-final security system layout plans based on coordination with system stakeholders, architecture, MEP and communications infrastructure design partners.
- c) Fully detailed security equipment elevations, details, schedules, and diagrams.
- d) Fully developed security systems specifications.
- e) QA/QC Review

**12.3.b. Part 2A Contract Bid Documents - Security**

The Contract Bid Documents for security will include:

- f) Adoption and resolution of stakeholder comments resulting from 90% design submittal review.
- g) Final coordination with Project stakeholders, architecture, MEP, and communications technology design partners.
- h) Coordination and confirmation of security specifications, contractor division of scope and bidder instructions with Owner procurement agent.
- i) Fully biddable security contract documents (fully developed design drawings and specifications).
- j) QA/QC Review

**12.4. Task 4 | 100% Design & Part 2A 100% Permit Set (AECOM Security)**

**12.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Security**

The 100% Overall Design and Permitting Set for security will include:

- a) Corrected final design documents to include adoption and resolution of comments resulting from 90% Contract Document review by Project stakeholders.
- b) Final security design edits and coordination resulting from corrected final changes by partner design disciplines post-90%.
- c) Signed and sealed security drawings and specifications for permit application.
- d) QA/QC Review

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## 12.5. Task 5 | Bid Phase Services (AECOM Security)

### 12.5.a. Responses to bidder questions – Security

- a) The security team will promptly respond to bidder questions in writing and submit all responses for documentation and stakeholder review to the Project management team prior to distribution to bidders. Responses to bidder questions will be made in accordance with procurement protocols and regulations and within the timeframe allotted by procurement.

### 12.5.b. Addenda, as needed – Security

- b) In the event that security design changes become necessary as a result of bidder questions or other unforeseen circumstances, the security team will incorporate any required drawing and specification edits to be issued as addenda to the bid package, in addition to incorporating any such changes in the permit set.

## 12.6. Task 6 | Construction Administration Phase Services (AECOM Security)

### 12.6.a. RFI responses - Security

- a) The security design team will promptly address all security contractor RFIs within the design contract timeframe, if not sooner. If a security RFI involves partner disciplines, the security design team will report this immediately to the Project management team and the respective disciplines to ensure a coordinated and comprehensive response. The security team will contribute to ASI's, as needed.

### 12.6.b. Submittal reviews - Security

- b) Security submittals will be reviewed and evaluated against the contract documents, noting deviations in equipment or technical approach that materially affect system quality, performance or cost of operation. Reviews will be completed promptly within the design contract timeframe, if not sooner. Alternative technical approaches meeting the design intent will be reviewed and evaluated for cost and performance implications and referred to the Project management team for further discussion and approval by Project stakeholders when appropriate. Submittal reviews will include drawing markups and written comments submitted for review and dissemination by the Project management team.

### 12.6.c. Field observation reports and other CA responsibilities - Security

- c) Members of the security design team will conduct construction progress inspections at commencement of security system installation activities, 90% completion, and final testing and commissioning stages of the security system installation. The initial inspection will ensure that the preparatory work and coordination with related trades is progressing properly, there are no scope gaps between trades, and that the security integration contractor has proper understanding of the expected level of quality of the installation. The 90% completion inspection will document the progress of installation and any outstanding issues which will need to be addressed prior to final testing and commissioning. It will include a final written punch-list. The final testing and commissioning inspection will include a testing plan and participation from the contractor and an airport representative (at the airport's discretion). Final testing and commissioning of each security door, camera and alarm component will be documented and signed off by the contractor, designer, and airport representative (at the airport's

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discretion) as part of the final testing and commissioning report. Other CA responsibilities will include attendance at specialty meetings, review of construction changes, performance of substantial and final inspections, preparation of record drawings from contractor mark ups and assistance in obtaining close-out documents.

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## 13. Mechanical and Plumbing Engineering (Voltair)

### Mechanical and Plumbing Scope Overview – General

#### Airside A and Airside E

The mechanical engineering design shall consist of the design of the mechanical systems providing heating and cooling to the new SSCP.

The design shall include routing and sizing of the chilled water piping from the existing chiller plant to the new mechanical room. A new chilled water single zone variable volume air handling unit with electric reheat shall be installed in the mechanical room. The supply and return air will be ducted to/from the air handling unit to the air distribution devices installed in the new screening space.

Existing ductwork and loads for units serving the existing spaces will be evaluated to ensure that they are balanced to accommodate the revised load profile that they will see.

New building controls shall tie into the existing control system that is currently located within the airside.

Existing equipment and openings will be modified as required to ensure that the existing systems are not adversely impacted by the construction of the new SSCP. This includes maintaining all outside air openings and chases currently functioning within the space.

The plumbing systems will be extended in both Airside A and E. The sanitary systems will be extended to provide condensate drains in the new mechanical rooms that are being constructed.

New domestic water piping shall be extended to provide a new hose bib in the new mechanical rooms that are being constructed for the mechanical rooms.

New roof drains and overflow roof drains are anticipated to carry water from the new and old roof to the storm drain systems.

### Mechanical & Plumbing Scope – By Task Deliverables

#### 13.1. Task 1 | 30% Schematic Design & Part 2 Contract (VOLTAIR Mechanical & Plumbing)

**13.1.a. 30% Schematic Design Submittal - Mechanical & Plumbing** – 30% design submittal will include 30% level drawings and specification table of contents. This submission will include the following:

- a) Preliminary design of the mechanical systems for Airside A and Airside E HVAC distribution required to maintain the space temperature within the facility. This includes investigation of the existing systems to determine the modifications to the existing systems within the existing building.
- b) Air distribution and duct routing within the space will be investigated and coordinated with architectural and structural elements.
- c) Verification of the existing chiller plants serving the facility will be verified to ensure that the capacity for this additional square footage is able to be included in the existing chilled water system.
- d) Preliminary approach to the removal of the storm water from both the existing roof and the new roof will be coordinated and various approaches will be determined and presented.



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- e) Coordinate with the architect on the skin of the building to begin developing a load of the space to accurately determine the heating and cooling load within the spaces.
- f) Preliminary overall mechanical plans for Airside A and Airside E indicating the scope of the work to be performed.
- g) Demolition plans indicating items that are required to be modified to support the transition of the old space and the integration of the new space.
- h) Preliminary ductwork and diffusers indicated on the plans showing the new work within the new spaces.
- i) Enlarged mechanical room plans with preliminary mechanical equipment connected, sized and clearances shown.
- j) Preliminary piping plans indicating routing of chilled water supply and return
- k) Preliminary mechanical schedules
- l) Preliminary sanitary piping drawings from point of connection to new termination location
- m) Preliminary pressure piping drawings from point of connection to new termination location
- n) Preliminary storm water piping drawings from point of connection to new termination location
- o) Specification Table of Contents
- p) QA/QC of the package prior to submission
- q) Attend design review meetings with the Owner's Stakeholders

**13.1.b. Part 2 Contract Bid Documents – Mechanical & Plumbing**

We do not currently anticipate the need for specific Mechanical & Plumbing participation in the Part 2 Contract Bid Document process.

**13.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (VOLTAIR Mechanical & Plumbing)**

**13.2.a. 60% Design Development Submittal - Mechanical & Plumbing** – The concepts and comments from the 30% submission will be further developed into the 60% level drawings and specifications to include the following:

- a) Overall mechanical plans for Airside A and Airside E indicating the scope of the work to be performed.
- b) Demolition plans indicating items that are required to be modified to support the transition of the old space and the integration of the new space.
- c) Ductwork and diffusers indicated on the plans showing the new work within the new spaces.
- d) Enlarged mechanical room plans with mechanical equipment connected, sized and clearances shown.
- e) Piping plans indicating routing of chilled water supply and return
- f) Mechanical schedules
- g) Mechanical controls and flow diagrams
- h) Plumbing schedules
- i) Sanitary piping drawings from point of connection to new termination location
- j) Pressure piping drawings from point of connection to new termination location
- k) Storm water piping drawings from point of connection to new termination location
- l) Specifications developed
- m) QA/QC of the package prior to submission
- n) Attend design review meetings with the Owner's Stakeholders

**13.2.b. Part 2 100% Permit Set – Mechanical & Plumbing**

We do not currently anticipate the need for specific Mechanical & Plumbing participation in the Part 2 Permit Document process.

**13.3. Task 3 | 90% Contract Documents & Part 2A Contract (VOLTAIR Mechanical & Plumbing)**

**13.3.a. 90% Design Submittal - Mechanical & Plumbing** – The 60% drawings will be developed further including incorporation of comments presented to the design team at the 60% drawings.

- a) Overall mechanical plans for Airside A and Airside E indicating the scope of the work to be performed.
- b) Demolition plans indicating items that are required to be modified to support the transition of the old space and the integration of the new space.
- c) Ductwork and diffusers indicated on the plans showing the new work within the new spaces. Sections and isometrics included on the plans to ensure coordination with structural and architectural items.
- d) Enlarged mechanical room plans with mechanical equipment connected, sized and clearances shown.
- e) Piping plans indicating routing of chilled water supply and return
- f) Finalized mechanical schedules
- g) Mechanical controls and flow diagrams
- h) Mechanical details
- i) Plumbing schedules
- j) Sanitary piping drawings from point of connection to new termination location
- k) Pressure piping drawings from point of connection to new termination location
- l) Storm water piping drawings from point of connection to new termination location
- m) Plumbing details
- n) Plumbing isometrics
- o) Specifications developed
- p) QA/QC of the package prior to submission
- q) Attend design review meetings with the Owner's Stakeholders

**13.3.b. Part 2A Contract Bid Documents – Mechanical & Plumbing**

The Contract Bid Documents for Mechanical and Plumbing will include:

- r) Adoption and resolution of stakeholder comments resulting from 90% design submittal review
- s) Coordination and confirmation of specifications, contractor division of scope and bidder instructions with the Owner's procurement agent
- t) Biddable Mechanical and Plumbing contract documents (90% developed design drawings and specifications)
- u) QA/QC Review

13  
cont'd

### 13.4. Task 4 | 100% Design & Part 2A 100% Permit Set

#### **13.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Mechanical & Plumbing**

The 90% drawings will be further developed to incorporate comments from the Owner and final coordination between all the trades.

- a) Overall mechanical plans for Airside A and Airside E indicating the scope of the work to be performed.
- b) Demolition plans indicating items that are required to be modified to support the transition of the old space and the integration of the new space.
- c) Ductwork and diffusers indicated on the plans showing the new work within the new spaces.
- d) Enlarged mechanical room plans with equipment connected, sized and clearances shown. Provide sections and isometrics of the mechanical rooms to clarify installation in rooms
- e) Mechanical piping plans indicating routing of chilled water supply and return
- f) Mechanical schedules
- g) Mechanical riser and flow diagrams
- h) Mechanical controls
- i) Mechanical details
- j) Plumbing schedules
- k) Plumbing sanitary piping drawings from point of connection to new termination location
- l) Plumbing pressure piping drawings from point of connection to new termination location
- m) Plumbing storm water piping drawings from point of connection to new termination location.
- n) Plumbing risers
- o) Plumbing details
- p) Finalized plumbing and mechanical specifications and drawings, signed and sealed for permit application
- q) QA/QC of the package prior to submission
- r) Design review meetings with the Owner's Stakeholders

### 13.5. Task 5 | Bid Phase Services (VOLTAIR Mechanical & Plumbing)

#### **13.5.a. Responses to bidder questions - Mechanical & Plumbing**

- a) Attend Pre-Bid meetings and walk-throughs
- b) Respond to bidder RFI's and questions

#### **13.5.b. Addenda, as needed - Mechanical & Plumbing**

- c) Prepare Mechanical and Plumbing Addendums as required from responses to bidder RFI's

### 13.6. Task 6 | Construction Administration Phase Services

#### **13.6.a. RFI responses - Mechanical & Plumbing**

- a) Respond to contractor RFI's including drawing updates in responses when required for all mechanical and plumbing related questions. Issue periodic bulletins for permit updates including RFI responses. Mechanical & plumbing will contribute to ASI's, as needed.

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cont'd

**13.6.b. Submittal reviews - Mechanical & Plumbing**

- b) Review all shop drawings for the mechanical and plumbing ductwork and piping for the Project. Review the submittals for all equipment and products being installed on the Project to ensure compliance with the design requirements.

**13.6.c. Field observation reports and other CA responsibilities - Mechanical & Plumbing**

- c) The mechanical and plumbing engineers will visit the site on a weekly basis (or as needed) during construction. A field observation report will be provided for each site visit annotating the progress on the Project, observed deficiencies will be annotated on the list. Other CA responsibilities will include attendance at specialty meetings, review of construction changes, performance of substantial and final inspections, preparation of record drawings from contractor mark ups and assistance in obtaining close-out documents.

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## 14. Electrical Engineering (Voltair)

### Electrical Scope Overview – General

#### Airside A and E

The electrical engineering design shall consist of power distribution, lighting and equipment branch circuit coordination.

There will be a new 600A, 480/277 volt panelboard placed in the mechanical area fed from switchboard MDPE in Airside A. From this panelboard, branch circuit panels will be served to feed miscellaneous receptacles, and lighting loads. Large mechanical equipment will be served directly from the panelboard. Security equipment to be relocated will be connected using floor mounted receptacles and re-circuited to panel ELPE. All existing floor boxes for security equipment will be disconnected, removed and patched.

There will be a new 600A, 480/277 volt panelboard placed in the mechanical area fed from switchboard MDP-C in Airside E. From this panelboard, branch circuit panels will be served to feed miscellaneous receptacles, and lighting loads. Large mechanical equipment will be served directly from the panelboard. Security equipment to be relocated will be connected using floor mounted receptacles. For phasing purposes a new 120/208 volt panel will be provided connected to generator panel NE-DP. All existing floor boxes for security equipment will be disconnected, removed and patched.

Lighting design will provide and average lighting level of 30 fc in the security screening area. LED fixtures will be utilized in this space. Fixture selection will be coordinated with the architect. Utility lighting will be designed for the apron level areas and mounted to the underside of the passenger level floor. All lighting control shall match the existing building systems. Life safety lighting will be connected to existing building life safety panels. All apron lighting poles in conflict with the new construction will be evaluated and replaced as required.

Lightning protection system will be provided in accordance with NFPA 780. It will consist of perimeter rods, down conductors and roof mounted coursing conductors. The system will be tied into the existing building system in a manner to be UL master labeled.

### Electrical Scope – By Task Deliverables

#### 14.1. Task 1 | 30% Schematic Design & Part 2 Contract (VOLTAIR Electrical)

##### **14.1.a. 30% Schematic Design Submittal – Electrical**

30% Schematic Design Submittal will include 30% level drawings and specification table of contents and will involve the following:

- a) Power distribution conceptual design for Airside A and Airside E electrical distribution required to serve the facilities. This includes power for security screening equipment, general power, mechanical equipment, and facility lighting. Investigation of the existing distribution systems will be performed to determine sources of power from the existing building.
- b) Security screening equipment loads will be reviewed and electrical connection methodology will be included
- c) Preliminary one line diagrams indicating new proposed electrical distribution along with existing electrical distribution to be utilized in the design solution.
- d) Enlarged electrical room plans with preliminary equipment layouts
- e) Existing overall electrical plans which will capture locations of equipment serving as sources of new power distribution.
- f) Develop conceptual lighting plans and fixture selections.

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cont'd

- g) Survey of the existing facilities and preliminary demolition plans required for expansion of existing electrical system.
- h) Perform QA/QC of submittal
- i) Specification Table of Contents
- j) Attend review meetings with Owner's Stakeholders

**14.1.b. Part 2 Contract Bid Documents - Electrical**

We do not currently anticipate the need for Electrical participation in the Part 2 Contract Bid Document process.

**14.2. Task 2 | 60% Design Development (VOLTAIR Electrical)**

**14.2.a. 60% Design Development Submittal – Electrical**

The concepts and comments from the 30% submission will be further developed into 60% level drawings and outline specifications. The following will be included:

- a) Site electrical plans for Airside A and Airside E. Site plans will include apron and exterior lighting where required.
- b) Exterior photometric plans were required
- c) Overall power plans indicating equipment connections and coordination for screening equipment, security equipment, A/V equipment, mechanical equipment, telecommunications equipment, and public address equipment.
- d) Enlarged power plans as required
- e) Lightning Protection Plans
- f) Overall lighting plans of Transfer Level and Apron Level areas
- g) Interior photometric plans where required
- h) Panel schedules, fixture schedules, electrical equipment connection schedules
- i) Developed electrical one line diagrams
- j) Electrical Details
- k) QA/QC of the package prior to submission
- l) Design review meetings with Owner's Stakeholders

**14.2.b. Part 2 100% Permit Set - Electrical**

We do not currently anticipate the need for Electrical participation in the Part 2 Permit Document process.

**14.3. Task 3 | 90% Contract Documents & Part 2A Contract (VOLTAIR Electrical)**

**14.3.a. 90% Design Submittal – Electrical**

The 60% Drawings including comment incorporation will be further developed to include the following

- a) Site electrical plans for Airside A and Airside E. Site plans will include apron and exterior lighting where required. All site equipment requiring electrical connections. Branch circuit and feeder information for all lighting and equipment power.
- b) Exterior photometric plans to be further developed
- c) Overall power plans indicating equipment connections and coordination for screening equipment, security equipment, A/V equipment, mechanical equipment, telecommunications equipment, and public address equipment. This will include branch circuit and feeder detailed information
- d) Enlarged power plans as required with final equipment, branch circuit and feeder detailed information
- e) Lightning Protection Plans completed to show grounding information and details.

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cont'd

- f) Overall lighting plans of Transfer Level and Apron Level areas. All branch circuit and lighting control will be detailed.
- g) Interior photometric plans to be further developed
- h) Panel schedules, fixture schedules, electrical equipment connection schedules. All schedules will indicate load information, and final connection information.
- i) Electrical one line diagrams with load calculations, final feeder information, short circuit calculations, voltage drop calculations
- j) Electrical Details
- k) Final Electrical specifications
- l) QA/QC of the package prior to submission
- m) Design review meetings with Owner's Stakeholder

**14.3.b. Part 2A Contract Bid Documents - Electrical**

The Contract Bid Documents for Electrical will include:

- n) Adoption and resolution of stakeholder comments resulting from 90% design submittal review
- o) Coordination and confirmation of Electrical specifications, contractor division of scope and bidder instructions with Owner's procurement agent
- p) Biddable Electrical contract documents (90% developed design drawings and specifications)
- q) QA/QC Review

**14.4. Task 4 | 100% Design & Part 2A 100% Permit Set (VOLTAIR Electrical)**

**14.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set – Electrical**

The 90% Drawings will be further developed to include comment incorporation and final equipment coordination between all trades.

- a) Site electrical plans for Airside A and Airside E. Site plans will include apron and exterior lighting where required. All site equipment requiring electrical connections. Branch circuit and feeder information for all lighting and equipment power.
- b) Exterior photometric plans to be further developed
- c) Overall power plans indicating equipment connections and coordination for screening equipment, security equipment, A/V equipment, mechanical equipment, telecommunications equipment, and public address equipment. This will include branch circuit and feeder detailed information
- d) Enlarged power plans as required with final equipment, branch circuit and feeder detailed information
- e) Lightning Protection Plans completed to show grounding information and details.
- f) Overall lighting plans of Transfer Level and Apron Level areas. All branch circuit and lighting control will be detailed.
- g) Interior photometric plans to be further developed
- h) Panel schedules, fixture schedules, electrical equipment connection schedules. All schedules will indicate load information, and final connection information.
- i) Electrical one line diagrams with load calculations, final feeder information, short circuit calculations, voltage drop calculations
- j) Electrical Details
- k) Final Electrical Specifications and drawings, signed and sealed for permit application
- l) QA/QC of the package prior to submission
- m) Design review meetings with Owner's Stakeholders

**14**  
cont'd

#### **14.5. Task 5 | Bid Phase Services**

##### ***14.5.a. Responses to bidder questions – Electrical***

- a) Attend Pre-Bid meetings
- b) Respond to bidder RFI's and questions

##### ***14.5.b. Addenda, as needed – Electrical***

- c) Prepare Electrical Addendums as required from bidder RFI responses

#### **14.6. Task 6 | Construction Administration Phase Services**

##### ***14.6.a. RFI responses – Electrical***

- a) Respond to contractor RFI's including drawing updates in responses when required for all Electrical related questions. Issue periodic ASI's for permit updates including RFI responses

##### ***14.6.b. Submittal reviews – Electrical***

- b) Review all shop drawings and submittals for Electrical products and equipment

##### ***14.6.c. Field observation reports and other CA responsibilities – Electrical***

- c) Review the Project for Electrical progress on a weekly basis(or as needed) during construction. Provide a field observation report for each site visit. Other CA responsibilities will include attendance at specialty meetings, review of construction changes, performance of substantial and final inspections, preparation of record drawings from contractor mark ups and assistance in obtaining close-out documents.



15

## 15. Telephone/Data/Wireless (Arora)

### Telephone/Data/Wireless Scope Overview – General

The information communications and technology (ICT) scope of work includes investigation and design of data systems for the expansion of the security screening checkpoint (SSCP) in Airsides A and E. The design of these areas will closely follow the 2021 Checkpoint Requirements and Planning Guide (CRPG) issued by the TSA as well as the Owner IT Design Criteria Manual. Close coordination with the Owner and TSA through design meetings and presentations will guarantee a successful Project. The ICT scope of work includes structured cabling for security system that are being designed by AECOM specifically. Arora will design the structured cabling for the following AECOM systems:

1. Security, Access Control
2. AED and any other security system, Simplex System or Siemens system monitored points
3. CCTV
4. Duress Alarms

The ICT scope of work also include the following systems which will be designed by Arora entirely including:

1. Structured Cabling Systems, complete
2. ICT room modifications including rack or cabinet elevations
3. Wireless access points
4. Telephony (TSA and or Owner)
5. Electronic Video Information Display Systems (EVIDS)

During design, an Owner furnished equipment matrix that identifies items such as network switches and displays that may be Owner furnished will be generated and coordinated with the Owner.

### Telephone/Data/Wireless Scope – By Task Deliverables

#### 15.1. Task 1 | 30% Schematic Design & Part 2 Contract (ARORA Telephone/Data/Wireless)

##### **15.1.a. 30% Schematic Design Submittal - Telephone/Data/Wireless**

30% Schematic Design Submittal along with written narratives will include 30% level drawings and outline specifications. Tasks shall include:

- a) Determine how to extend backbone infrastructure from existing TSA/Owner IDFs to modified equipment locations and new locations.
- b) Identify any other building system requiring data transmission, such as Unified Communications (UC), Access Control Systems (ACS), Closed Circuit Television Systems (CCTV), Audio Visual Systems (A/V), Building Automation Systems (BAS), Fire Alarm Systems (FA), Outside Plant cabling (OSP), inter-campus connections, etc.
- c) Aid Architect in the location of demarcation point and determine size/needs for TSA and Owner Telecommunication Rooms (TR) based on physical building and SSCP structure layout.
- d) Outline the Data Infrastructure Distribution based off the 2021 Checkpoint Requirements and Planning Guide (CRPG) issued by the TSA.
- e) Determine acceptable/feasible level of cable infrastructure and critical system fault tolerance.
- f) Complete an existing conditions survey and document. Provide Existing/Demo floor plans.
- g) Develop new conditions floor plans that layout initial data infrastructure

15  
cont'd

- h) Create overall high level single line diagrams that present preliminary cable plant and data systems topology.
- i) Incorporate necessary high-level items from the TSA CRPG for the SSCP development.
- j) Perform a wireless spectrum analysis to inform the Wi-Fi design. Provide approximate quantities and topology-based spectrum analysis findings.
- k) Coordinate with all disciplines based on findings.
- l) Provide outline specifications
- m) QA/QC review

**15.1.b. Part 2 Contract Bid Documents - Telephone/Data/Wireless**

Part two contract bid documents will include the following, as required:

- n) Underground telecommunications infrastructure and demolition as required, as well as associated details.
- o) Slab penetrations for telecommunications infrastructure, coordination with structural steel for all required penetrations.

**15.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (ARORA Telephone/Data/Wireless)**

**15.2.a. 60% Design Development Submittal - Telephone/Data/Wireless**

60% Design Development Submittal along with updated written narratives will include 60% level drawings and DD Level specifications. Tasks shall include:

- a) Further layout telecommunications pathways and routing plan. Provide pathway types and sizes, cable quantities and characteristics. Layout end devices. Provide installations details.
- b) Show telecommunication space equipment. Identify key components including monitoring sensors, raised floor and cable tray systems, and interdisciplinary device coordination.
- c) Provide network cabinet and wall elevations detailing equipment positions and interconnections
- d) Provide an overall network diagram. Identify system interconnections (interdisciplinary), redundant pathways, service provider equipment and connections
- e) Provide single line and system diagrams, for all intended telecommunications systems
- f) Provide equipment and installation details, riser diagrams, schedules and set coordination
- g) Provide detailed single lines and schedules for devices including TSA data interconnection diagram for the SSCP that supports the CPSS with ASL equipment and other TSA required rooms including but not limited to PSR, OSRA, Interview rooms, etc.
- h) Prepare presentations for TSA regarding data to rack design, TSA allocated space in Telecom rooms and initial installation plans
- i) Provide Heat Maps for WIFI distribution. Provide ceiling coordinated device layout
- j) Attend BIM Clash Detection Meetings and update model to achieve clash free environment
- k) Coordinate the extension of POTS and VoIP services and circuits

15  
cont'd

- l) Continue to update specifications to a design deliverable level of design
- m) QA/QC review

**15.2.b. Part 2 100% Permit Set - Telephone/Data/Wireless**

- n) Incorporate all comments from the previous bid set submission, adjust design as required to coordinate with all trades. Complete permit specifications, if needed

**15.3. Task 3 | 90% Contract Documents & Part 2A Contract (ARORA Telephone/Data/Wireless)**

**15.3.a. 90% Design Submittal - Telephone/Data/Wireless**

90% Design Submittal along with updated written narratives will include 90% level drawings and CD Level specifications. Tasks shall include:

- a) Refine all plan work, details, diagrams, and schedules based on DD and review set comments and final design coordination
- b) Perform final interdisciplinary review
- c) Finalize specifications to include detailed product lists, installation procedures and close out process
- d) Finalize software specifications including set up and testing requirements, demonstration, O&M and training requirements
- e) QA/QC review

**15.3.b. Part 2A Contract Bid Documents - Telephone/Data/Wireless –**

- f) 90% design documents will be updated as required to reflect a contract bid set.

**15.4. Task 4 | 100% Design & Part 2A 100% Permit Set (ARORA Telephone/Data/Wireless)**

**15.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Telephone/Data/Wireless**

100% Design Submittal along with updated written narratives will include 100% level drawings and CD Level specifications. Tasks shall include:

- a) Incorporate all Owner and TSA comments for final package release.
- b) Refine all plan work, details, diagrams, and schedules based on DD and review set comments and final design coordination
- c) Perform final interdisciplinary review
- d) Finalize specifications to include detailed product lists, installation procedures and close out process
- e) Finalize software specifications including set up and testing requirements, demonstration, O&M and training requirements
- f) Attend Owner and TSA Design Presentations.
- g) QA/QC Review

**15**  
cont'd

## **15.5. Task 5 | Bid Phase Services (ARORA Telephone/Data/Wireless)**

### ***15.5.a. Responses to bidder questions - Telephone/Data/Wireless***

- a) In this task Arora will present the telecommunications design to prospective bidders as part of a pre-bid conference, if required, and/or provide content for the authority architect or Design-Builder to do so. Arora will respond to bidder questions and RFI's.

### ***15.5.b. Addenda, as needed - Telephone/Data/Wireless***

- b) As a result of an RFI response which also warrant a drawing change, or any changes by other consultants, or requests from the authority, Arora will update the telecommunications design as appropriate and issue addenda drawings, narrative and specifications.

## **15.6. Task 6 | Construction Administration Phase Services (ARORA Telephone/Data/Wireless)**

### ***15.6.a. RFI responses - Telephone/Data/Wireless***

- a) Arora will provide RFI responses to builder RFI's as required. Should the RFI require further detailed response it will be include sketches or updated drawings. Arora anticipates some of these to also be issued via the ASI process.

### ***15.6.b. Submittal reviews - Telephone/Data/Wireless***

- b) Arora will review, provide comment to and approve submittals including product data, shop drawings, warranty data, sequences of operation and coordination of such with other trade submittals. Arora review of submittals will be for general conformance with the drawings and specifications.

### ***15.6.c. Field observation reports and other CA responsibilities - Telephone/Data/Wireless***

- c) Periodically, Arora will visit the site and make observations on the construction progress. Any comments, concerns or note worth observations will be made in field observation reports with photos and issued to AECOM. Other CA responsibilities will include attendance at specialty meetings, review of construction changes, performance of substantial and final inspections, preparation of record drawings from contractor mark ups and assistance in obtaining close-out documents.

16

## 16. Public Address (Arora)

### Public Address Scope Overview – General

The following scope outlines the activities and deliverables associated with the Public Address system design for the building expansions at Airsides A and E.

### Public Address Scope – By Task Deliverables

#### 16.1. Task 1 | 30% Schematic Design & Part 2 Contract (ARORA Public Address)

##### **16.1.a. 30% Schematic Design Submittal - Public Address –**

- a) Develop a system narrative or diagram identifying the systems that must use a public address system and the protocols
- b) Develop Public Address diagram or narrative. This narrative will outline the design intent to extend the existing public address system into the expansion areas. This narrative and/or diagram shall be updated with each design stage
- c) Identify integration needs with other systems such as EVIDS/CMS for Visual Paging or other emergency systems as needed
- d) Complete an existing conditions survey and document. Provide Existing/Demo floor plans
- e) Develop new conditions floor plans that layout initial speaker zones to determine amplifier quantities and power requirements
- f) Provide overall single line functional diagrams and tie-in points with the existing system.
- g) Provide outline specifications
- h) QA/QC review

##### **16.1.b. Part 2 Contract Bid Documents - Public Address**

No Part 2 Public Address Scope is anticipated.

#### 16.2. Task 2 | 60% Design Development & Part 2 100% Permit Set (ARORA Public Address)

##### **16.2.a. 60% Design Development Submittal - Public Address**

60% Design Development Submittal along with updated written narratives will include 60% level drawings and DD Level outline specifications. We will further develop the design of the Public Address system that will include the following aspects:

- a) Speaker selections and locations coordinated with architect
- b) Ambient noise sensing system
- c) Paging station requirements
- d) Backup power requirements for PA system components
- e) Network device requirements
- f) Paging system zoning
- g) Integration with EVIDS and Visual paging systems
- h) Wiring diagrams
- i) Elevations
- j) Details
- k) Continue to update specifications to an outline specification
- l) QA/QZ review

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cont'd

**16.2.b. Part 2 100% Permit Set - Public Address**

No Part 2 Public Address Scope is anticipated.

**16.3. Task 3 | 90% Contract Documents & Part 2A Contract (ARORA Public Address)**

**16.3.a. 90% Design Submittal - Public Address –**

90% Design Submittal will include 90% level drawings and CD Level specifications. Tasks shall include:

- a) Refine all plan work, details, diagrams, and schedules based on DD and review set comments and final design coordination.
- b) Perform final interdisciplinary review.
- c) Finalize specifications to include detailed product lists, installation procedures and close out process.
- d) Finalize software specifications including set up and testing requirements, demonstration, O&M and training requirements.
- e) QA/QC Review

**16.3.b. Part 2A Contract Bid Documents - Public Address**

- f) 90% design documents will be updated as required to reflect a contract bid set.

**16.4. Task 4 | 100% Design & Part 2A 100% Permit Set (ARORA Public Address)**

**16.4.a. 100% Overall Design Submittal & Part 2A 100% Permit Set - Public Address –**

100% Design Submittal will include 100% level drawings and CD Level specifications. Tasks shall include:

- a) Incorporate all Owner and TSA comments for final package release.
- b) Refine all plan work, details, diagrams, and schedules based on DD and review set comments and final design coordination
- c) Perform final interdisciplinary review
- d) Finalize specifications to include detailed product lists, installation procedures and close out process
- e) Finalize software specifications including set up and testing requirements, demonstration, O&M and training requirements
- f) Attend Owner and TSA Design Presentations.
- g) QA/QC Review

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cont'd

## **16.5. Task 5 | Bid Phase Services (ARORA Public Address)**

### ***16.5.a. Responses to bidder questions - Public Address***

- a) In this task Arora will present the public address design to prospective bidders as part of a pre-bid conference, if required, and or provide content for the authority architect or Design-Builder to do so. Arora will respond to bidder questions and RFI's.

### ***16.5.b. Addenda, as needed - Public Address***

- b) As a result of an RFI response which also warrant a drawing change, or any changes by other consultants, or requests from the authority, Arora will update the public address design as appropriate and issue addenda drawings, narrative and specifications.

## **16.6. Task 6 | Construction Administration Phase Services (ARORA Public Address)**

### ***16.6.a. RFI responses - Public Address***

- a) Arora will provide RFI responses to builder RFI's as required. Should the RFI require further detailed response it will be include sketches or updated drawings. Arora anticipates some of these to also be issued via the ASI process.

### ***16.6.b. Submittal reviews - Public Address***

- b) Arora will review, provide comment to and approve submittals including product data, shop drawings, warranty data, sequences of operation and coordination of such with other trade submittals. Arora review of submittals will be for general conformance with the drawings and specifications.

### ***16.6.c. Field observation reports and other CA responsibilities - Public Address***

- c) Periodically, Arora will visit the site and make observations on the construction progress. Any comments, concerns or note worth observations will be made in field observation reports with photos and issued to AECOM. Other CA responsibilities will include attendance at specialty meetings, review of construction changes, performance of substantial and final inspections, preparation of record drawings from contractor mark ups and assistance in obtaining close-out documents.

# 2

## Schedule

The P6 schedule shown on the following pages depicts our proposed schedule for the Part 1 contract and a preliminary schedule for the Part 2 contract based on available information to-date.

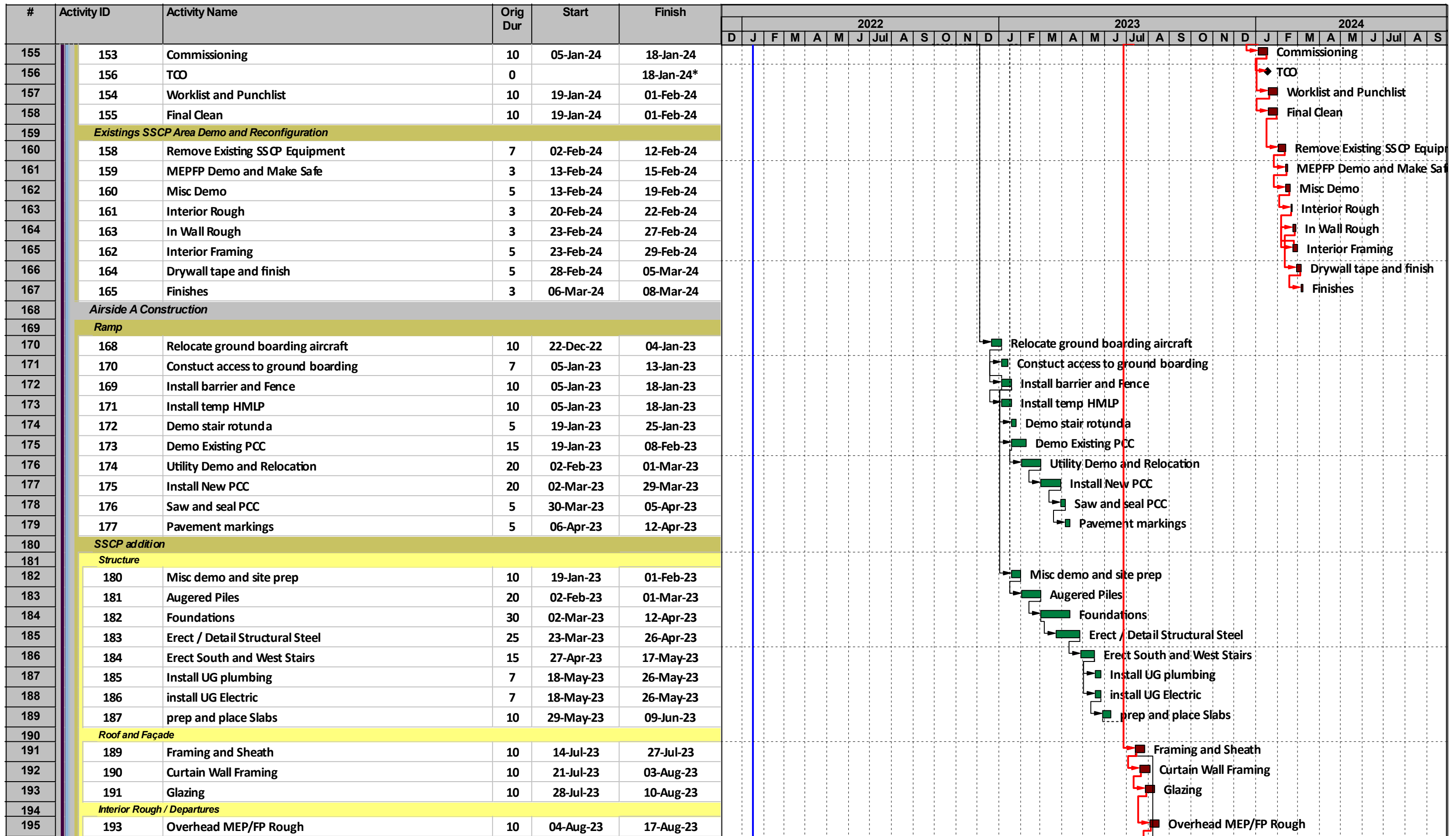






#	Activity ID	Activity Name	Orig Dur	Start	Finish	2022												2023												2024																																															
						D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S																																						
74	72	Submit Part 2A GMP for Review	0		03-Mar-23																																					Submit Part 2A GMP for Review																																			
75	73	Review of GMP Submission	5	03-Mar-23	09-Mar-23																																					Review of GMP Submission																																			
76	74	Negotiations Complete - 5 Weeks Prior to Board	25	03-Mar-23	06-Apr-23																																					Negotiations Complete - 5 Weeks Prior to Board																																			
77	75	Board Meeting to Approve Part 2A GMP (* Constrained for Apr 1st Thursday, Board meeting)	1	06-Apr-23	06-Apr-23*																																					Board Meeting to Approve Part 2A GMP (* Constrained for Apr 1st Thursday, Board meeting)																																			
78	<b>Part 2 Contract Duration: Proposed Construction Schedule</b>																																																																												
79	<b>Procurement</b>																																																																												
80	<b>Part 2 Agreement - Buy Package</b>																																																																												
81	82	Concrete (SOD/Pads/Etc.)	25	07-Oct-22	10-Nov-22																																					Concrete (SOD/Pads/Etc.)																																			
82	83	Concrete (PC's/GB's)	25	07-Oct-22	10-Nov-22																																					Concrete (PC's/GB's)																																			
83	79	Early Sitework	31	07-Oct-22	18-Nov-22																																					Early Sitework																																			
84	81	Foundations	35	07-Oct-22	24-Nov-22																																					Foundations																																			
85	80	Structural Steel	80	07-Oct-22	26-Jan-23																																					Structural Steel																																			
86	<b>Part 2A Agreement - Buy Package</b>																																																																												
87	94	Interior Finishes	30	07-Apr-23	18-May-23																																					Interior Finishes																																			
88	89	Waterproofing	45	07-Apr-23	08-Jun-23																																					Waterproofing																																			
89	93	Masonry/Misc. Metals	45	07-Apr-23	08-Jun-23																																					Masonry/Misc. Metals																																			
90	95	Signage/Wayfinding	50	07-Apr-23	15-Jun-23																																					Signage/Wayfinding																																			
91	85	Roofing	55	07-Apr-23	22-Jun-23																																					Roofing																																			
92	90	MEP/FP/IT	60	07-Apr-23	29-Jun-23																																					MEP/FP/IT																																			
93	88	Exterior Framing	65	07-Apr-23	06-Jul-23																																					Exterior Framing																																			
94	86	Curtainwall Systems	70	07-Apr-23	13-Jul-23																																					Curtainwall Systems																																			
95	87	Metal Panels	70	07-Apr-23	13-Jul-23																																					Metal Panels																																			
96	91	Electrical Service	85	07-Apr-23	03-Aug-23																																					Electrical Service																																			
97	92	Vertical Transportation	100	07-Apr-23	24-Aug-23																																					Vertical Transportation																																			
98	<b>Airside E Construction</b>																																																																												
99	<b>Ramp</b>																																																																												
100	98	Install barrier and Fence	10	21-Nov-22	02-Dec-22																																					Install barrier and Fence																																			
101	99	Construct access to ground boarding	10	21-Nov-22	02-Dec-22																																					Construct access to ground boarding																																			
102	100	Install temp HMLP	10	21-Nov-22	02-Dec-22																																					Install temp HMLP																																			
103	101	Demo Existing PCC	15	05-Dec-22	23-Dec-22																																					Demo Existing PCC																																			
104	102	Utility Demo and Relocation	20	19-Dec-22	13-Jan-23																																					Utility Demo and Relocation																																			
105	103	Install New PCC	20	16-Jan-23	10-Feb-23																																					Install New PCC																																			
106	104	Saw and seal PCC	5	13-Feb-23	17-Feb-23																																					Saw and seal PCC																																			
107	105	Pavement markings	5	20-Feb-23	24-Feb-23																																					Pavement markings																																			
108	106	Final Pavement Markings, SIDA Reconfigurations	5	08-Sep-23	14-Sep-23																																					Final Pavement Markings, SIDA Reconfigurations																																			
109	<b>SSCP addition</b>																																																																												
110	<b>Structure</b>																																																																												
111	109	Misc. demo and site prep	10	05-Dec-22	16-Dec-22																																					Misc. demo and site prep																																			
112	110	Augured Piles	10	19-Dec-22	30-Dec-22																																					Augured Piles																																			
113	111	Foundations	20	02-Jan-23	27-Jan-23																																					Foundations																																			







# 3

## Fees

OVERALL FEE SUMMARY | TPA AIRSIDES A+E

Fee Estimate



FINAL 01/10/2022

SUMMARY

Project Fee Proposal - Suffolk Construction Company, Inc. Team - Summary Sheet																		
Airsides A & E Security Screening Checkpoint Expansion																		
HCAA Project Number 8435 22																		
1/10/2022																		
Basic Design Services										W/MBE %	% W/MBE	% Construction						
Architecture, Engineering & Preconstruction Services										of Fee	Goal	Probable Cost						
Task 1	Task 2	Task 3	Task 4	Task 5	Subtotal	Task 6	Total											
30%+Part 2	60% Design + Part 2 Permit	90%+Part 2A	100%+Part 2A Permit	Bid & Award	Part 1 Agmt	Constr. Admin.												
06 Suffolk Construction - Airsides A & E	\$144,329.67	\$98,589.10	\$138,592.25	\$116,400.21	\$189,265.39	\$687,176.63	\$0.00	\$687,176.63										
07 AECOM Technical Services - Airsides A & E Project Management	\$100,002.44	\$80,062.04	\$80,062.04	\$39,981.17	\$4,074.84	\$304,182.52	\$98,361.79	\$402,544.31										
08 AECOM Technical Services - Airsides A & E Architecture + Interiors	\$467,065.54	\$378,952.97	\$378,952.97	\$189,567.11	\$20,178.52	\$1,434,717.10	\$334,026.46	\$1,768,743.56										
09 AECOM Technical Services - Airsides A & E Structural	\$100,075.76	\$80,061.49	\$80,061.49	\$40,074.94	\$4,024.87	\$304,298.65	\$76,164.38	\$380,463.93										
10 AECOM Technical Services - Airsides A & E Civil	\$130,169.22	\$104,271.61	\$104,137.48	\$52,037.18	\$15,890.46	\$406,505.95	\$98,088.48	\$504,594.43										
11 AECOM Technical Services - Airsides A & E Fire Protection/Alarm	\$50,109.89	\$40,162.68	\$40,052.48	\$20,130.91	\$2,190.13	\$152,646.09	\$38,159.88	\$190,805.97										
12 AECOM Technical Services - Airsides A & E Security	\$30,216.57	\$20,019.77	\$20,019.77	\$10,063.75	\$1,070.52	\$81,390.37	\$18,999.09	\$100,389.47										
13 14 VoltAir, Inc. - Airsides A & E	\$180,118.20	\$149,268.49	\$149,092.15	\$74,648.53	\$7,650.89	\$560,778.26	\$141,672.58	\$702,450.84	13.07%	WMBE	VoltAir							
15 16 Arora, Inc. - Airsides A & E	\$79,501.54	\$51,343.56	\$43,505.12	\$26,510.62	\$2,628.90	\$203,489.74	\$50,561.90	\$254,051.64	4.73%	WMBE	Arora							
<b>Engineering &amp; Preconstruction SubTotal</b>	<b>\$1,281,589</b>	<b>\$1,002,732</b>	<b>\$1,034,476</b>	<b>\$569,414</b>	<b>\$246,975</b>	<b>\$4,135,185</b>	<b>\$856,035</b>	<b>\$4,991,220</b>										
Direct Costs																		
Task 1	Task 2	Task 3	Task 4	Task 5	Subtotal	Task 6	Total											
30%+Part 2	60% Design + Part 2 Permit	90%+Part 2A	100%+Part 2A Permit	Bid & Award	Part 1 Agmt	Constr. Admin.												
MBWE AECOM   Northwest Surveying, Inc. - Airsides A & E Flat Survey	\$22,099.00				\$22,099.00		\$22,099.00	\$22,099.00	0.41%	WMBE	Northwest							
MBWE AECOM   ECHO - Airsides A & E Vertical Survey	\$50,787.50				\$50,787.50		\$50,787.50	\$50,787.50	0.95%	WMBE	Echo							
MBWE AECOM   Tierra, Inc. - Airsides A & E Geotechnical	\$86,287.23				\$86,287.23		\$86,287.23	\$86,287.23	1.61%	WMBE	Tierra							
MBWE AECOM   Element Engineering Group - Airsides A & E SUE	\$59,010.92				\$59,010.92		\$59,010.92	\$59,010.92	1.10%	WMBE	Element							
MBWE AECOM WMBE Subs Reimbursable Expenses	\$7,388.38	\$4,325.59	\$4,325.59	\$2,462.79	\$246.48	\$18,748.83	\$4,679.11	\$23,427.94	0.44%	WMBE	WMBE Expenses							
MBWE Suffolk Construction - Airsides A & E Tag and Trace Elect.	\$18,000.00				\$18,000.00		\$18,000.00	\$18,000.00										
Suffolk Construction - Airsides A & E - Travel Expenses	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$2,400.00	\$18,400.00		\$18,400.00										
Suffolk Construction - Permits		\$20,000.00			\$40,000.00	\$60,000.00		\$60,000.00										
Suffolk Construction - Bid Set Reprographics		\$5,000.00			\$10,000.00	\$15,000.00		\$15,000.00										
MBWE NuJAK - Airsides A & E Preconstruction Support	\$5,718.20	\$9,530.34	\$2,382.59	\$8,815.56	\$1,906.07	\$28,352.76		\$28,352.76	0.53%	WMBE	NuJAK							
<b>Direct Costs SubTotal</b>	<b>\$253,291</b>	<b>\$42,856</b>	<b>\$10,708</b>	<b>\$15,278</b>	<b>\$54,553</b>	<b>\$376,686</b>	<b>\$4,679</b>	<b>\$381,365</b>										
<b>SUB TOTAL USED FOR WMBE CALCULATION   BASELINE FEES</b>							\$5,372,585.13		22.8%	< TOTAL WMBE %								
Owner's Contingency							\$150,000	\$150,000		12.28%	< TOTAL WMBE %							
<b>Total Fee, Allowances, Direct Costs &amp; Reimbursable Expenses</b>										<b>\$1,534,880</b>	<b>\$1,045,588</b>	<b>\$1,045,184</b>	<b>\$584,693</b>	<b>\$301,527</b>	<b>\$4,661,871</b>	<b>\$860,714</b>	<b>\$5,522,585</b>	<b>&lt; TOTAL BUDGET w/ CONTINGENCY</b>

TOPLINE SUMMARY BY TASK

SUMMARY OF DESIGN FEES BY TASK:									
TASK 1   30% Design									
07 Project Management	\$100,002	AECOM							
08 Architecture, Interiors and Wayfinding	\$467,066	AECOM							
09 Structural Engineering	\$100,076	AECOM							
10 Civil Engineering	\$130,169	AECOM							
11 Fire Alarm + Fire Protection	\$50,110	AECOM							
12 Security Systems Design	\$30,217	AECOM							
13 14 MEP Engineering	\$180,118	VOLTAIR	WMBE	11.74%					
15 16 Low Voltage Design	\$79,502	ARORA	WMBE	5.16%					
<b>TOTAL TASK 1:</b>	<b>\$1,137,259</b>								
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>									
Site Survey   Site Horizontal	\$22,099	Northwest Survey	WMBE	1.44%					
Site Survey   Laser Scanning Building	\$50,788	Echo UES	WMBE	3.31%					
GeoTechnical	\$86,287	Tierra	WMBE	5.62%					
SUE Utilities	\$59,011	Element	WMBE	3.84%					
AECOM WMBE Subs Reimbursable Expenses	\$7,388	Volt Air & Arora	WMBE	0.48%					
<b>SubTotal Direct Costs</b>	<b>\$225,573</b>								
<b>SUBTOTAL TASK 1 DESIGN TEAM COST:</b>	<b>\$1,362,832</b>								
TASK 1   30% Design									
SUMMARY OF SUFFOLK PRECON COST									
6 TASK 1 - 30% PreCon:	\$144,330								
6 Tag and Trace	\$18,000								
6 NuJAK (WMBE) PreCon Support	\$5,718		WMBE	0.37%					
6 Add Permits for Construction	\$0								
6 Add Reprographics for Bid Documents	\$0								
6 Add Travel Expenses	\$4,000								
<b>SUBTOTAL TASK 1 SUFFOLK:</b>	<b>\$172,048</b>								
<b>GRAND TOTAL TASK 1</b>	<b>\$1,534,880</b>	check ok	<b>TOTAL WMBE \$</b>	<b>\$490,911</b>	<b>TOTAL WMBE %</b>	<b>31.98%</b>			

TASK 1   30% DESIGN AVERAGE FTE CALCULATION			
HOURS	DURATION	FTE CALC	TOTAL FTEs
520	25	1000	0.52
3,125	25	1000	3.13
803	25	1000	0.80
817	25	1000	0.82
431	25	1000	0.43
182	25	1000	0.18
1,262	25	1000	1.26
469	25	1000	0.47

NOTE: FTEs Overlap with 60%

TASK 1   30% DESIGN AVERAGE FTE CALCULATION			
HOURS	DURATION	FTE CALC	TOTAL FTEs
8,412	25	1000	8.4

30% + 60% Combined for FTE Calculation



# OVERALL FEE SUMMARY | TPA AIRSIDES A+E

## Fee Estimate

### TOPLINE SUMMARY BY TASK

T2 SUMMARY OF DESIGN FEES by TASK:		60%	
<b>TASK 2   60% Design</b>			
7	Project Management	\$80,062	AECOM
8	Architecture, Interiors and Wayfinding	\$378,953	AECOM
9	Structural Engineering	\$80,061	AECOM
10	Civil Engineering	\$104,272	AECOM
11	Fire Alarm + Fire Protection	\$40,163	AECOM
12	Security Systems Design	\$20,020	AECOM
13 14	MEP Engineering	\$149,268	VOLTAIR
15 16	Low Voltage Design	\$51,344	ARORA
<b>TOTAL TASK 2:</b>		<b>\$904,143</b>	
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>			
	Site Survey   Site Horizontal	\$0	Northwest Survey
	Site Survey   Laser Scanning Building	\$0	Echo UES
	GeoTechnical	\$0	Tierra
	SUE Utilities	\$0	Element
	AECOM WMBE Subs Reimbursable Expenses	\$4,326	Voit Air & Arora
	<b>SubTotal Direct Costs</b>	<b>\$4,326</b>	
<b>SUBTOTAL TASK 2 DESIGN TEAM COST:</b>		<b>\$908,468</b>	
<b>TASK 2   80% Design</b>			
<b>SUMMARY OF SUFFOLK PRECON COST</b>			
6	TASK 1 - 60% PreCon:	\$98,589	
6	Tag and Trace	\$0	
6	NuJak (DBE) PreCon Support	\$9,530	WMBE
6	Add Permits for Construction	\$20,000	
6	Add Reprographics for Bid Documents	\$5,000	
6	Add Travel Expenses	\$4,000	
<b>SUBTOTAL TASK 2 SUFFOLK:</b>		<b>\$137,119</b>	
<b>GRAND TOTAL TASK 2</b>		<b>\$1,045,588</b>	check ok
		<b>TOTAL WMBE \$</b>	<b>TOTAL WMBE %</b>
		<b>\$214,468</b>	<b>20.51%</b>

### TASK 2 | 60% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
389	25	1000	0.39
2,522	25	1000	2.52
633	25	1000	0.63
611	25	1000	0.61
336	25	1000	0.34
101	25	1000	0.10
908	25	1000	0.91
353	14	1000	0.35

NOTE: FTEs Overlap with 30%

### TASK 2 | 60% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
5,853	25	1000	5.9

30% + 60% Combined for FTE Calculation

#### NOTE:

The hours for structural engineering are primarily expended in 30% and 60% design, but the time is shown in 90% for task clarity. Bid documents for the foundations and structural steel are largely completed in the first Part 2 Bid Package.

### TOPLINE SUMMARY BY TASK

T3 SUMMARY OF DESIGN FEES by TASK:		90%	
<b>TASK 3   90% Design</b>			
7	Project Management	\$80,062	AECOM
8	Architecture, Interiors and Wayfinding	\$378,953	AECOM
9	Structural Engineering	\$80,061	AECOM
10	Civil Engineering	\$104,137	AECOM
11	Fire Alarm + Fire Protection	\$40,052	AECOM
12	Security Systems Design	\$20,020	AECOM
13 14	MEP Engineering	\$149,092	VOLTAIR
15 16	Low Voltage Design	\$43,505	ARORA
<b>TOTAL TASK 3:</b>		<b>\$895,883</b>	
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>			
	Site Survey   Site Horizontal	\$0	Northwest Survey
	Site Survey   Laser Scanning Building	\$0	Echo UES
	GeoTechnical	\$0	Tierra
	SUE Utilities	\$0	Element
	AECOM WMBE Subs Reimbursable Expenses	\$4,326	Voit Air & Arora
	<b>SubTotal Direct Costs</b>	<b>\$4,326</b>	
<b>SUBTOTAL TASK 3 DESIGN TEAM COST:</b>		<b>\$900,209</b>	
<b>TASK 3   90% Design</b>			
<b>SUMMARY OF SUFFOLK PRECON COST</b>			
6	TASK 1 - 90% PreCon:	\$138,592	
6	Tag and Trace	\$0	
6	NuJak (WMBE) PreCon Support	\$2,383	WMBE
6	Add Permits for Construction	\$0	
6	Add Reprographics for Bid Documents	\$0	
6	Add Travel Expenses	\$4,000	
<b>SUBTOTAL TASK 3 SUFFOLK:</b>		<b>\$144,975</b>	
<b>GRAND TOTAL TASK 3</b>		<b>\$1,045,184</b>	check ok
		<b>TOTAL WMBE \$</b>	<b>TOTAL WMBE %</b>
		<b>\$199,305</b>	<b>19.07%</b>

### TASK 3 | 90% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
389	14	560	0.69
2,522	14	560	4.50
633	14	560	1.13
582	14	560	1.04
336	14	560	0.60
101	14	560	0.18
910	14	560	1.63
290	14	560	0.52

### TASK 3 | 90% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
5,763	14	560	10.3

#### NOTE:

The hours for structural engineering are primarily expended in 30% and 60% design, but the time is shown in 90% for task clarity. Bid documents for the foundations and structural steel are largely completed in the first Part 2 Bid Package.

# OVERALL FEE SUMMARY | TPA AIRSIDES A+E

## Fee Estimate

### TOPLINE SUMMARY BY TASK

T4 SUMMARY OF DESIGN FEES by TASK:		100%	
<b>TASK 4   100% Design</b>			
7	Project Management	\$39,981	AECOM
8	Architecture, Interiors and Wayfinding	\$189,567	AECOM
9	Structural Engineering	\$40,075	AECOM
10	Civil Engineering	\$52,037	AECOM
11	Fire Alarm + Fire Protection	\$20,131	AECOM
12	Security Systems Design	\$10,064	AECOM
13 14	MEP Engineering	\$74,649	VOLTAIR
15 16	Low Voltage Design	\$26,511	ARORA
<b>TOTAL TASK 4:</b>		<b>\$453,014</b>	
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>			
	Site Survey   Site Horizontal	\$0	Northwest Survey
	Site Survey   Laser Scanning Building	\$0	Echo UES
	GeoTechnical	\$0	Tierra
	SUE Utilities	\$0	Element
	AECOM WMBE Subs Reimbursable Expenses	\$2,463	Volt Air & Arora
	<b>SubTotal Direct Costs</b>	<b>\$2,463</b>	
<b>SUBTOTAL TASK 4 DESIGN TEAM COST:</b>		<b>\$455,477</b>	
<b>TASK 4   100% Design</b>			
<b>SUMMARY OF SUFFOLK PRECON COST</b>			
6	TASK 4 - 100% PreCon:	\$116,400	
6	Tag and Trace	\$0	
6	NuJak (WMBE) PreCon Support	\$8,816	WMBE
6	Add Permits for Construction	\$0	
6	Add Reprographics for Bid Documents	\$0	
6	Add Travel Expenses	\$4,000	
<b>SUBTOTAL TASK 4 SUFFOLK:</b>		<b>\$129,216</b>	
<b>GRAND TOTAL TASK 4</b>		<b>\$584,693</b>	check ok
		<b>TOTAL WMBE \$</b>	<b>\$112,437</b>
		<b>TOTAL WMBE %</b>	<b>19.23%</b>

### TASK 4 | 100% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
190	14	360	0.53
1,254	14	360	3.48
317	14	360	0.88
278	14	360	0.77
178	14	360	0.49
53	14	360	0.15
496	14	360	1.38
158	14	360	0.44

### TASK 4 | 100% DESIGN AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
2,924	14	360	8.1

### TOPLINE SUMMARY BY TASK

T5 SUMMARY OF DESIGN FEES by TASK:		B&A	
<b>TASK 5   Bid &amp; Award</b>			
7	Project Management	\$4,075	AECOM
8	Architecture, Interiors and Wayfinding	\$20,179	AECOM
9	Structural Engineering	\$4,025	AECOM
10	Civil Engineering	\$15,890	AECOM
11	Fire Alarm + Fire Protection	\$2,190	AECOM
12	Security Systems Design	\$1,071	AECOM
13 14	MEP Engineering	\$7,651	VOLTAIR
15 16	Low Voltage Design	\$2,629	ARORA
<b>TOTAL TASK 5:</b>		<b>\$57,709</b>	
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>			
	Site Survey   Site Horizontal	\$0	Northwest Survey
	Site Survey   Laser Scanning Building	\$0	Echo UES
	GeoTechnical	\$0	Tierra
	SUE Utilities	\$0	Element
	AECOM WMBE Subs Reimbursable Expenses	\$246	Volt Air & Arora
	<b>SubTotal Direct Costs</b>	<b>\$246</b>	
<b>SUBTOTAL TASK 5 DESIGN TEAM COST:</b>		<b>\$57,956</b>	
<b>TASK 5   Bid &amp; Award</b>			
<b>SUMMARY OF SUFFOLK PRECON COST</b>			
6	TASK 5 - Bid & Award:	\$189,265	
6	Tag and Trace	\$0	
6	NuJak (DBE) PreCon Support	\$1,906	WMBE
6	Add Permits for Construction	\$40,000	
6	Add Reprographics for Bid Documents	\$10,000	
6	Add Travel Expenses	\$2,400	
<b>SUBTOTAL TASK 5 SUFFOLK:</b>		<b>\$243,571</b>	
<b>GRAND TOTAL TASK 5</b>		<b>\$301,627</b>	check ok
		<b>TOTAL WMBE \$</b>	<b>\$12,432</b>
		<b>TOTAL WMBE %</b>	<b>4.12%</b>

### TASK 5 | BID & AWARD AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
20	5	360	0.06
116	5	360	0.32
41	5	360	0.11
90	5	360	0.25
60	5	360	0.17
6	5	360	0.02
50	5	360	0.14
18	5	360	0.05

### TASK 5 | BID & AWARD AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
403	5	360	1.1

# OVERALL FEE SUMMARY | TPA AIRSIDES A+E

## Fee Estimate

### TOPLINE SUMMARY BY TASK

T6 SUMMARY OF DESIGN FEES by TASK:		CA			
<b>TASK 6   Construction Phase Services</b>					
7	Project Management	\$98,362	AECOM		
8	Architecture, Interiors and Wayfinding	\$334,026	AECOM		
9	Structural Engineering	\$76,164	AECOM		
10	Civil Engineering	\$98,088	AECOM		
11	Fire Alarm + Fire Protection	\$38,160	AECOM		
12	Security Systems Design	\$18,999	AECOM		
13 14	MEP Engineering	\$141,673	VOLTAIR	WMBE	16.46%
15 16	Low Voltage Design	\$50,562	ARORA	WMBE	5.87%
<b>TOTAL TASK 5:</b>		<b>\$856,035</b>			
<b>OTHER DESIGN TEAM DIRECT COST(WMBE)</b>					
	Site Survey   Site Horizontal	\$0	Northwest Survey	WMBE	0.00%
	Site Survey   Laser Scanning Building	\$0	Echo UES	WMBE	0.00%
	GeoTechnical	\$0	Tierra	WMBE	0.00%
	SUE Utilities	\$0	Element	WMBE	0.00%
	AECOM WMBE Subs Reimbursable Expenses	\$4,679	Volt Air & Arora	WMBE	0.54%
	<b>SubTotal Direct Costs</b>	<b>\$4,679</b>			
<b>SUBTOTAL TASK 6 DESIGN TEAM COST:</b>		<b>\$860,714</b>			
<b>TASK 6   CPS SERVICES</b>					
<b>SUMMARY OF SUFFOLK PRECON COST</b>					
6	TASK 6 - CPS Services	\$0			
6	Tag and Trace	\$0			
6	NuJak (WMBE) PreCon Support	\$0	WMBE		0.00%
6	Add Permits for Construction	\$0			
6	Add Reprographics for Bid Documents	\$0			
6	Add Travel Expenses	\$0			
<b>SUBTOTAL TASK 6 SUFFOLK:</b>		<b>\$0</b>			
<b>GRAND TOTAL TASK 6</b>		<b>\$860,714</b>			
				<b>TOTAL WMBE \$</b>	<b>TOTAL WMBE %</b>
				<b>\$196,914</b>	<b>22.88%</b>
<b>GRAND TOTAL ALL TASKS</b>		<b>\$5,372,585</b>			
OWNER'S CONTINGENCY:		\$150,000			
		<b>\$5,522,585</b>			

### TASK 6 CPS SERVICES AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs	
568	5	2080	0.27	AECOM
2,046	5	2080	0.98	AECOM
656	5	2080	0.32	AECOM
643	5	2080	0.31	AECOM
294	5	2080	0.14	AECOM
133	5	2080	0.06	AECOM
1,078	5	2080	0.52	VOLTAIR
358	5	2080	0.17	ARORA

### TASK 6 CPS SERVICES AVERAGE FTE CALCULATION

HOURS	DURATION	FTE CALC	TOTAL FTEs
5,776	5	2080	2.8

end tr



**TASK 1 DETAILS**  
TPA AIRSIDES A+E

**Task 1 Design Fee**  
30% Design + Part 2 Contract

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														
<b>AECOM</b>														
10														
CIVIL ENGINEERING														
Executive Hours	Principal Henriquez/Kacer Hours	Sr. Aviation PM Combs Hours	Sr. Aviation E Piercy Hours	Aviation Engr Blend Hours	Sr. Utility Eng Handjev Hours	Utility Eng Blend Hours	Sr. Designer Irgang Hours	Designer Blend Hours	Admin Kline Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Civil</b>														
<b>Task 1 - 30% Design &amp; Part 2 Contract AECOM - Airsides A &amp; E</b>														
a	Existing Conditions document collection and field verifications		8	8		8	8							32
b	Coordinate with on-site subconsultants		8	2		2								12
c	Project Management and Meetings	4	42	22		8			6					82
d	Base Drawing Creation		2	8	24			24	40					98
e	Incorporate Survey into Base drawing		2	8	16				24					50
f	Incorporate SUE into Base drawing		2	2	2			16	8					30
g, u	General Sheets - G	1	2	8	16		8		8					43
h, v	Civil Demolition Sheets		2	8	8				8					26
i, w	Utility Demolition Sheets		1	2	8	4		8						16
j	Civil Layout Sheets - CA		2	8	24		16		16					67
k, x	Civil Detail Sheets		2	4	8				8					22
l, y	Utility Layout Sheets - CU	1	2	8	24	4		32	16					53
m, z	Utility Profile Sheets - CU		2	4	4			32	16					52
naa	Utility Detail Sheets - CU		4	8	2			8	8					18
o, bb	Civil Temporary or Phasing Sheets		4	16	12			24						56
p	Engineer's Report	1	8	8		8								25
q, cc	CSPP		2	4			16		12					34
r	QA/QC	1	12	8		16								29
s	Gate Planning		4	8	12									24
t, dd	Specifications		8	8		8			12					36
<b>Subtotal Hours</b>		0	9	108	122	122	66	128	64	30	0	0		817
Rate		\$158.00	\$110.00	\$80.00	\$75.00	\$50.00	\$73.00	\$43.00	\$78.00	\$30.00	\$31.00	\$32.00		
Subtotal Direct Labor		\$0	\$990	\$8,640	\$9,150	\$6,100	\$4,818	\$5,504	\$4,992	\$900	\$0	\$0		\$49,494
Subtotal Burdened Labor @ 2.63														\$130,169.22
<b>AVERAGE FTEs:</b>		0.00	0.02	0.25	0.28	0.28	0.15	0.29	0.15	0.38	0.07	0.00	0.00	1.86

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														
<b>AECOM</b>														
11														
FIRE ALARM + FIRE PROTECTION														
Executive Name 1 Hours	FP/FA Mgr. Davis Hours	Sr FP/FA Eng Walker Hours	FP/FA Engineer Laine Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Fire Protection + Fire Alarm</b>														
<b>Task 1 - 30% Design &amp; Part 2 Contract AECOM - Airsides A &amp; E</b>														
a	Coordinate Potential Fuel Spill Points	2	4	8										14
b	Conduct Existing Conditions Assessment	2	4	8										14
c	Prepare Preliminary Sprinkler Demo Modification Plans	2	4	12										18
d	Prepare 30% Fire Protection Plans	8	24	24										56
e	Prepare 30% Deluge System Plans	8	24	36										68
f	Prepare 30% Deluge Detection and Activation Plans	8	24	36										68
g	Develop One-Line FP Diagrams	8	24	36										68
h	Coordinate Detection and Alarm Requirements	2	4	8										14
i	Determine Existing Flows and Pressures	2	4	8										14
j	Prepare Fire Protection and Fire Alarm Design Narrative	2	4	12										18
k	Conduct Preliminary Calculations - Supply and Demand	8	4	8										20
l	Prepare Mods and Integration w/ Existing PF and FA Systems	2	4	12										18
m	Prepare Preliminary FA Riser Diagrams	4	6	12										22
n	Prepare Outline Specs	2	5	8										15
o	QA/QC Review	2	1	1										4
<b>Subtotal Hours</b>		0	62	140	229	0	0	0	0	0	0	0	0	431
Rate		\$158.00	\$80.00	\$48.18	\$33.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal Direct Labor		\$0	\$4,960.00	\$6,465.20	\$7,627.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,053.19
Subtotal Burdened Labor @ 2.63														\$50,109.89
<b>AVERAGE FTEs:</b>		0.00	0.14	0.32	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														
<b>AECOM</b>														
12														
SECURITY SYSTEMS														
Security Lead Rueda Hours	Sr. Security Newton Hours	Security Tech Sparrow Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Security</b>														
<b>Task 1 - 30% Design &amp; Part 2 Contract AECOM - Airsides A &amp; E</b>														
a	Update Security Design Narrative	1	16	40										56
b	Advance Security Systems Design	1	16	40										56
c	Prepare Security Outline Specs	1	16	40										56
d	QA/QC Review of 30% Design	1	5	8										14
<b>Subtotal Hours</b>		4	53	128	0	0	0	0	0	0	0	0	0	182
Rate		\$104.24	\$86.03	\$50.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal Direct Labor		\$416.96	\$4,559.59	\$6,512.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,489.19
Subtotal Burdened Labor @ 2.63														\$30,216.57
<b>AVERAGE FTEs:</b>		0.01	0.12	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42

**TASK 1 DETAILS**  
TPA AIRSIDES A+E

**Task 1 Design Fee**  
30% Design + Part 2 Contract

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022													
<b>VOLT+AIR</b>													
<b>MEP ENGINEERING (VOLT+AIR)</b>													
	Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Clerical Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services - Mechanical Plumbing and Electrical</b>													
<b>Task 1 - 30% Design &amp; Buy Package 1 VoltAir - Airsides A &amp; E</b>													
<b>13. Mechanical and Plumbing Engineering</b>													
p					2	4	2	2	2				12
a, b, c					2	8	60	20	40	3			133
d					2	8	20	60	40	4			134
e					2	8	48	20	40	2			120
b, f, g, h, i, j, k					2	8	64	60	60	3			197
l, m, n					2	8	48	60	60	2			180
o					2	8	28	16	4	2			60
q					8	8	40	20	36				112
<b>14. Electrical Engineering</b>													
a	2	2	8	24									36
b	2	2	6	8									18
c	2	4	8	32									46
d	4	4	8	24									40
e	2	2	8	20									32
f	4	4	6	20									34
g	2	2	8	16									28
h	4	2	4	4									12
i	2	2	8	8									20
j	8	8	8	24									48
	<b>Subtotal Hours</b>	<b>32</b>	<b>32</b>	<b>70</b>	<b>180</b>	<b>22</b>	<b>60</b>	<b>310</b>	<b>258</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>1262</b>
	Rate	\$94.29	\$89.29	\$72.27	\$47.70	\$77.24	\$66.50	\$38.44	\$50.11	\$37.71	\$0.00	\$0.00	
	Subtotal Direct Labor	\$3,017.28	\$2,857.28	\$5,058.90	\$8,586.00	\$1,699.28	\$3,990.00	\$11,916.40	\$12,928.38	\$14,133.84	\$603.36	\$0.00	\$ 64,790.72
	Subtotal Burdened Labor @ 2.78												\$ 180,118.20
	<b>AVERAGE FTEs:</b>	<b>0.07</b>	<b>0.07</b>	<b>0.16</b>	<b>0.41</b>	<b>0.05</b>	<b>0.14</b>	<b>0.70</b>	<b>0.59</b>	<b>0.64</b>	<b>0.04</b>	<b>0.00</b>	<b>2.87</b>

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022													
<b>ARORA</b>													
<b>LOW VOLTAGE BUILDING SYSTEMS (ARORA)</b>													
	Principal Hours	PM Hours	SE/IDL Hours	Engineer Hours	Sr. Designer Hours	Designer Hours	Sr. Tech Hours	Tech Hours	Clerical Hours	Not Used Name 11 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services - Tele/Data &amp; PA</b>													
<b>Task 1 - 30% Design &amp; Buy Package 1 Arora - Airsides A &amp; E</b>													
a, b, c, d, e, f	1	4	8	8	6	4	4	4	6				45
g	1	5	8	6	4	12	12	12					60
h	1	5	8	6	4	4	4	4					36
i	1	4	8	4	2	2	2	2					25
j	1	8	16	8	6	2	2	2					45
k	1	6	16	10	8	24	24	24	6				119
l	1	4	8	6	4	8	8	8	8				55
m	1	2	4	4	2	2	2	2					19
n, o	1	2	8	16	8	8	8	10	1				62
	<b>Subtotal Hours</b>	<b>9</b>	<b>40</b>	<b>84</b>	<b>68</b>	<b>44</b>	<b>66</b>	<b>66</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>466</b>
	Rate	\$132.00	\$114.00	\$82.00	\$78.74	\$48.25	\$57.75	\$41.00	\$27.50	\$0.00	\$0.00	\$0.00	
	Subtotal Direct Labor	\$1,188	\$4,560	\$6,888	\$5,354	\$2,948	\$3,185	\$3,812	\$2,788	\$578	\$0	\$0	\$ 31,299.82
	Subtotal Burdened Labor @ 2.54												\$ 79,501.54
	<b>AVERAGE FTEs:</b>	<b>0.02</b>	<b>0.09</b>	<b>0.19</b>	<b>0.15</b>	<b>0.10</b>	<b>0.15</b>	<b>0.15</b>	<b>0.15</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	<b>1.06</b>

<b>TASK 1 DESIGN EFFORT SUMMARY</b>		<b>METRICS</b>
APPROX. DURATION THIS TASK ( WEEKS:		11
TOTAL HOURS THIS TASK:		8,412
AVERAGE DESIGN TEAM HOURS PER WEEK:		765
TOTAL AVERAGE FTE'S THIS TASK:		19.1
TOTAL FEES THIS TASK:		\$1,101,471



**TASK 2 DETAILS**  
TPA AIRSIDES A+E

**Task 2 Design Fee**  
60% Design + Part 2 100% Permit Set

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
10 CIVIL ENGINEERING		Executive Hours	Principal Henriquez/Kacer Hours	Sr. Aviation PM Combs Hours	Sr. Aviation E Piercy Hours	Aviation Engr Blend Hours	Sr. Utility Eng Handjev Hours	Utility Eng Blend Hours	Sr. Designer Irgang Hours	Designer Blend Hours	Admin Kline Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total	
<b>Basic Design Services - Civil</b>															
<b>Task 2 - 60% Design AECOM - Airsides A &amp; E</b>															
a	Existing Conditions document collection and field verifications			2	2		2							6	
b	Incorporate comments from 30% Review			4	8	4	8	4						28	
c	Project Management and Meetings		2	40	16		8			8				74	
d, w	General Sheets -- G (General) & Permitting		2	2	4	8			8	4				28	
a, x	Civil Demolition Sheets & Permitting			2	8	8				4				22	
t, y	Utility Demolition Sheets & Permitting						4	8						16	
g	Civil Layout Sheets -- CA (Civil)		2	6	16	16			12	8				60	
h	Civil Grading and Drainage Sheets			4	12	36				4				56	
i	Pavement Design			8	16					4				28	
j	Typical Sections			2	2	8			8	4				24	
k	Marking Design			2	4	8				4				18	
l	Fencing Design			2	4	8				4				18	
m, z	Civil Detail Sheets			4	8	8				4				24	
n, aa	100% Utility Layout Sheets -- CU & Permitting						4	1						13	
o, bb	100% Utility Profile Sheets -- CU & Permitting							24		8				36	
p, cc	100% Utility Detail Sheets -- CU & Permitting						2	8		4				14	
q, dd	Civil Temporary or Phasing Sheets														
r	Engineer's Report		2	8	8	8			12					32	
s	CSPP (Construction Safety and Phasing Plan)			2	4		8			8				26	
t, ee	QA/QC		2		12									20	
u	Gate Planning			4	8	8								20	
v	Specifications			4	4		4				8			20	
	<b>Subtotal Hours</b>	0	10	112	132	120	56	45	48	64	24	0	0	611	
	<b>Rate</b>	\$158.00	\$110.00	\$80.00	\$75.00	\$50.00	\$73.00	\$43.00	\$78.00	\$50.00	\$30.00	\$31.00	\$32.00		
	<b>Subtotal Direct Labor</b>	\$0.00	\$1,100.00	\$8,960.00	\$9,900.00	\$6,000.00	\$4,088.00	\$1,935.00	\$3,744.00	\$3,200.00	\$720.00	\$0.00	\$0.00	\$ 39,647.00	
	<b>Subtotal Burdened Labor @ 2.63</b>													\$ 104,271.61	
	<b>AVERAGE FTEs:</b>	0.00	0.02	0.20	0.24	0.21	0.10	0.08	0.09	0.11	0.04	0.00	0.00	1.09	

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
11 FIRE ALARM + FIRE PROTECTION		Executive Name 1 Hours	PPFA Mgr. Davis Hours	Sr PPFA Eng Walker Hours	PPFA Engineer Larsen Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total	
<b>Basic Design Services - Fire Protection + Fire Alarm</b>															
<b>Task 2 - 60% Design AECOM - Airsides A &amp; E</b>															
a	Coordinate Potential Fuel Spill Points		2	4	8									14	
b	Conduct Existing Conditions Assessment		2	4	8									14	
c	Prepare Preliminary Sprinkler Demo Modification Plans		2	4	12									18	
d	Prepare 60% Fire Protection Plans		8	12	20									40	
e	Prepare 60% Deluge System Plans		8	12	24									44	
f	Prepare 60% Deluge Detection and Activation Plans		8	12	24									44	
g	Develop One-Line FP Diagrams		8	12	24									44	
h	Participate in BIM Clash Detection		2	4	8									14	
i	Advance FP/FA Locations		2	4	8									14	
j	Advance Overall FA/FP Riser Diagrams		2	4	10									16	
k	Develop Fire Alarm Ops Diagram		8	4	8									20	
l	Prepare FA and Electrical Specs		2	4	10									16	
m	Prepare Fire Alarm Details		4	6	10									20	
n	Prepare Outline Specs		2	5	7									14	
o	QA/QC Review		2	1	1									4	
	<b>Subtotal Hours</b>	0	62	92	182	0	0	0	0	0	0	0	0	336	
	<b>Rate</b>	\$158.00	\$80.00	\$48.18	\$33.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
	<b>Subtotal Direct Labor</b>	\$0.00	\$4,960.00	\$4,248.56	\$6,062.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 15,270.98	
	<b>Subtotal Burdened Labor @ 2.63</b>													\$ 40,162.68	
	<b>AVERAGE FTEs:</b>	0.00	0.11	0.16	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
12 SECURITY SYSTEMS		Security Lead Rueda Hours	Sr. Security Newton Hours	Security Tech Sperry Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total	
<b>Basic Design Services - Security</b>															
<b>Task 2 - 60% Design AECOM - Airsides A &amp; E</b>															
a	Incorporate Comments from 30% Review	4	4	4										12	
b	Refine Security Systems Layout	4	12	13										29	
c	Develop Preliminary Details and Schedules	4	8	8										20	
d	Prepare Preliminary Security Specs	4	8	8										20	
e	QA/QC	4	8	8										20	
	<b>Subtotal Hours</b>	20	40	41	0	0	0	0	0	0	0	0	0	101	
	<b>Rate</b>	\$104.24	\$86.03	\$50.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
	<b>Subtotal Direct Labor</b>	\$2,084.80	\$3,441.20	\$2,086.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,612.08	
	<b>Subtotal Burdened Labor @ 2.63</b>													\$20,019.77	
	<b>AVERAGE FTEs:</b>	0.04	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	



**TASK 2 DETAILS**  
TPA AIRSIDES A+E

**Task 2 Design Fee**  
60% Design + Part 2 100% Permit Set

Project Fee Proposal - Suffolk Construction Company, Inc. Team														
Airsides A & E Security Screening Checkpoint Expansion														
HCAA Project Number 8435 22														
1/10/2022														
MEP ENGINEERING	Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Clerical Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total	
<b>Basic Design Services</b>														
<b>Task 2 - 60% Design VoltAir - Airsides A &amp; E</b>														
<b>13. Mechanical and Plumbing Engineering</b>														
a					6	8	8	8					30	
b					12	48	36	36					132	
c	1				12	12	12	12					49	
d	6				12	20	0	20					58	
e					12	12	12	12					48	
f	1				12	32	32	0	16				93	
g	1				0	0	0	0	16				17	
h	1				0	0	0	0	16				17	
i					12	30	40	40	8				130	
j	1				2	2			8				13	
k					12	12	8	10		8			50	
<b>14. Electrical Engineering</b>														
a, b	1	12	8	4									25	
c, d	1	8	12	20									41	
e	1	8	10	20									39	
f, g	1	8	12	20									41	
h	1	8	10	20									39	
i, j		8	12	32									52	
k	1	8	2	2									13	
l	1	4	8	8									21	
	<b>Subtotal Hours</b>	<b>18</b>	<b>64</b>	<b>74</b>	<b>126</b>	<b>92</b>	<b>176</b>	<b>148</b>	<b>138</b>	<b>64</b>	<b>8</b>	<b>0</b>	<b>908</b>	
	<b>Rate</b>	<b>\$94.29</b>	<b>\$89.29</b>	<b>\$72.27</b>	<b>\$47.70</b>	<b>\$77.24</b>	<b>\$66.50</b>	<b>\$39.44</b>	<b>\$50.11</b>	<b>\$50.12</b>	<b>\$37.71</b>	<b>\$0.00</b>	<b>\$0.00</b>	
	<b>Subtotal Direct Labor</b>	<b>\$1,697.22</b>	<b>\$5,714.56</b>	<b>\$5,347.98</b>	<b>\$6,010.20</b>	<b>\$7,106.08</b>	<b>\$11,704.00</b>	<b>\$5,689.12</b>	<b>\$6,915.18</b>	<b>\$3,207.68</b>	<b>\$301.68</b>	<b>\$0.00</b>	<b>\$ 53,693.70</b>	
	<b>Subtotal Burdened Labor @ 2.78</b>												<b>\$ 149,268.49</b>	
	<b>AVERAGE FTEs:</b>	<b>0.03</b>	<b>0.11</b>	<b>0.13</b>	<b>0.23</b>	<b>0.16</b>	<b>0.31</b>	<b>0.26</b>	<b>0.25</b>	<b>0.11</b>	<b>0.01</b>	<b>0.00</b>	<b>1.62</b>	

Project Fee Proposal - Suffolk Construction Company, Inc. Team														
Airsides A & E Security Screening Checkpoint Expansion														
HCAA Project Number 8435 22														
1/10/2022														
LOW VOLTAGE BUILDING SYSTEMS	Principal Hours	PM Hours	SE/DL Hours	Engineer Hours	Sr. Designer Hours	Designer Hours	Sr. Tech Hours	Tech Hours	Clerical Hours	Not Used Name 11 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total	
<b>Basic Design Services</b>														
<b>Task 2 - 60% Design Arora - Airsides A &amp; E</b>														
a, b, c, d, e, f		2	2		3	2			1				10	
g		2	2		2	12			1				19	
h		2	2		2	4			1				11	
i		2	2		2	1			1				8	
j		2	6		4	1			1				14	
k		2	6		4	16			1				29	
l		2	2		4	8			1				17	
m		2	2		2	2	2	2	1				13	
n, o		3	20		25	106	18	58	2				232	
	<b>Subtotal Hours</b>	<b>0</b>	<b>19</b>	<b>44</b>	<b>0</b>	<b>48</b>	<b>152</b>	<b>20</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>353</b>	
	<b>Rate</b>	<b>\$94.29</b>	<b>\$114.00</b>	<b>\$82.00</b>	<b>\$78.74</b>	<b>\$77.00</b>	<b>\$48.25</b>	<b>\$7.75</b>	<b>\$41.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
	<b>Subtotal Direct Labor</b>	<b>\$0.00</b>	<b>\$2,166.00</b>	<b>\$3,608.00</b>	<b>\$0.00</b>	<b>\$3,216.00</b>	<b>\$7,334.00</b>	<b>\$1,155.00</b>	<b>\$2,460.00</b>	<b>\$275.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$ 20,214.00</b>	
	<b>Subtotal Burdened Labor @ 2.54</b>												<b>\$ 51,343.56</b>	
	<b>AVERAGE FTEs:</b>	<b>0.00</b>	<b>0.03</b>	<b>0.08</b>	<b>0.00</b>	<b>0.09</b>	<b>0.27</b>	<b>0.04</b>	<b>0.11</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.63</b>	

TASK 2 DESIGN EFFORT SUMMARY	METRICS
APPROX. DURATION THIS TASK1 WEEKS:	14
TOTAL HOURS THIS TASK:	6,403
AVERAGE DESIGN TEAM HOURS PER WEEK:	457
TOTAL AVERAGE FTE'S THIS TASK:	11.4
TOTAL FEES THIS TASK:	\$1,002,732





**TASK 3 DETAILS**  
TPA AIRSIDES A+E

**Task 3 Design Fee**  
90% Design + Part 2A Contract

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														
MEP ENGINEERING		Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Clerical Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services</b>														
<b>Task 3 - 90% Design &amp; Buy Package 2 VoltAir - Airsides A &amp; E</b>														
<b>13. Mechanical and Plumbing Engineering</b>														
a	Prepare 90% overall mechanical plans					6	8	8	8	8				38
b	Prepare 90% Demolition plans					8	16	16	24	8				72
c	Prepare 90% Ductwork and diffuser plans	1				8	12	12	12	8				53
d	Prepare 90% Enlarged mechanical room plans	1				8	20	8	18	8				63
e	Prepare 90% Piping plans					10	12	12	12	8				54
f	Finalize mechanical schedules	1				10	23	22	4	8				68
g	Prepare 90% Mechanical controls and flow diagrams	1				4	4	4	4	8				25
h	Prepare 90% Mechanical details	1				4	4	4	4	8				25
i	Prepare 90% Plumbing schedules					12	12	16	16	8				64
j,k	Prepare 90% Sanitary piping and pressure Piping drawings	1				2	2	4	16	8				33
l	Prepare 90% Storm water piping drawings					10	12	8	10	8	9			57
m	Prepare 90% Plumbing details - Isometrics					4	4	4	4	8				24
n	Advance Specifications to 90% level					4	4	4	4	8				24
o	QA/QC of the package prior to submission					2	2	2	2	2				10
q	Attend design review meetings with HCAA Stakeholders					6	6	6	6	6				24
<b>14. Electrical Engineering</b>														
a	Prepare 90% overall electrical plans	1	10	8	4									23
b	Prepare exterior photometric plans	1	8	8	8									25
c	Prepare 90% overall power plans	1	4	8	20									33
d	Prepare 90% enlarged power plans	1	4	8	20									33
e	Prepare 90% lightning protection plans	1	4	8	20									33
f	Prepare 90% overall lighting plans		8	8	12									28
g	Prepare interior photometric plans	1	4	2	4									11
h	Prepare 90% schedules for fixtures and equipment	1	4	8	8									24
i	Prepare 90% electrical one-line diagrams and calculate loads	1	4	4	8									17
j	Develop 90% details		4	4	8									16
k	Prepare 90% Specs		4	4	8									16
l	QA/QC of the package prior to submission	2	2	2	2									8
m	Attend design review meetings with HCAA Stakeholders	2	4	4	2									12
<b>Subtotal Hours</b>		<b>18</b>	<b>64</b>	<b>76</b>	<b>124</b>	<b>98</b>	<b>141</b>	<b>130</b>	<b>144</b>	<b>106</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>910</b>
<b>Rate</b>		<b>\$94.29</b>	<b>\$89.29</b>	<b>\$72.27</b>	<b>\$47.70</b>	<b>\$77.24</b>	<b>\$66.50</b>	<b>\$38.44</b>	<b>\$50.11</b>	<b>\$50.12</b>	<b>\$37.71</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$53.630</b>
<b>Subtotal Direct Labor</b>		<b>\$1,697.22</b>	<b>\$5,714.56</b>	<b>\$5,492.52</b>	<b>\$5,914.80</b>	<b>\$7,569.52</b>	<b>\$9,376.50</b>	<b>\$4,997.20</b>	<b>\$7,215.84</b>	<b>\$5,312.72</b>	<b>\$339.39</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$53,630</b>
<b>Subtotal Burdened Labor @ 2.75</b>		<b>2.75</b>												<b>\$ 149,092.15</b>
<b>AVERAGE FTEs:</b>		<b>0.03</b>	<b>0.11</b>	<b>0.14</b>	<b>0.22</b>	<b>0.18</b>	<b>0.25</b>	<b>0.23</b>	<b>0.26</b>	<b>0.19</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>1.63</b>

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														
LOW VOLTAGE BUILDING SYSTEMS		Principal Hours	PM Hours	SE/EL Hours	Engineer Hours	Sr. Designer Hours	Designer Hours	Sr. Tech Hours	Tech Hours	Clerical Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services</b>														
<b>Task 3 - 90% Design &amp; Buy Package 2 Arora - Airsides A &amp; E</b>														
a, b, c, d, e, f	Confirm Backbone & Existing Conditions		2	2		3	2							9
g	Develop Layout Plans		2	2		2	12							18
h	Develop Single Line Diagrams		2	2		2	4							10
i	Incorporate TSA Standards		1	2		2	1			1				7
j	Wireless Spectrum Analysis		1	6		4	1			1				13
k	Coordinate w/ Other Disciplines		2	6		4	16			1				29
l	Prepare Specs		1	2		4	8			1				16
m	QA/QC		2	2		2	2	2	2					12
n, o	Develop Tele, Data, PA, WIFI Design		3	14		29	66	22	42					176
<b>Subtotal Hours</b>		<b>0</b>	<b>16</b>	<b>38</b>	<b>0</b>	<b>52</b>	<b>112</b>	<b>24</b>	<b>44</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>290</b>
<b>Rate</b>		<b>\$132.00</b>	<b>\$114.00</b>	<b>\$82.00</b>	<b>\$78.74</b>	<b>\$67.00</b>	<b>\$48.25</b>	<b>\$57.75</b>	<b>\$41.00</b>	<b>\$27.50</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$17,128</b>
<b>Subtotal Direct Labor</b>		<b>\$0.00</b>	<b>\$1,824.00</b>	<b>\$3,116.00</b>	<b>\$0.00</b>	<b>\$3,484.00</b>	<b>\$5,404.00</b>	<b>\$1,386.00</b>	<b>\$1,804.00</b>	<b>\$110.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$17,128</b>
<b>Subtotal Burdened Labor @ 2.54</b>		<b>2.54</b>												<b>\$ 43,505.12</b>
<b>AVERAGE FTEs:</b>		<b>0.00</b>	<b>0.03</b>	<b>0.07</b>	<b>0.00</b>	<b>0.09</b>	<b>0.20</b>	<b>0.04</b>	<b>0.08</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.52</b>

TASK 3 DESIGN EFFORT SUMMARY	METRICS
APPROX. DURATION THIS TASK   WEEKS:	14
TOTAL HOURS THIS TASK:	6,547
AVERAGE DESIGN TEAM HOURS PER WEEK:	468
TOTAL AVERAGE FTEs THIS TASK:	11.7
TOTAL FEES THIS TASK:	\$1,034,476



**TASK 4 DETAILS**  
TPA AIRSIDES A+E

**Task 4 Design Fees**  
100% Final Design - Part 2A 100% Permit Set

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022															<b>AECOM</b>	
10																
CIVIL ENGINEERING																
Executive Hours	Principal Henriquez/Kacor Hours	Sr. Aviation PM Combs Hours	Sr. Aviation E Piercy Hours	Aviation Engr Blend Hours	Sr. Utility Eng Handjov Hours	Utility Eng Blend Hours	Sr. Designer Irgang Hours	Designer Blend Hours	Admin Kline Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total				
<b>Basic Design Services - Civil</b>																
<b>Task 4 - 100% Design + Buy Package 3 AECOM - Airsides A &amp; E</b>																
a	Incorporate comments from 90% Review		2	8	4	2	2							18		
b	Project Management and Meetings		40	36		4			4					86		
c	General Sheets - G - Final Permitting			2	2			2						6		
d	Civil Demolition Sheets - Final Permitting			2	2									6		
e	Civil Layout Sheets - CA - Final Permitting		1	8	4			4						21		
f	Civil Grading and Drainage Sheets - Final Permitting		4	4	8			2						16		
g	Pavement Design - Final Permitting			2	2									4		
h	Typical Sections - Final Permitting			2	2			2						6		
i	Marking Design - Final Permitting			2	2			2						6		
j	Fencing Design - Final Permitting			2	2			2						6		
k	Civil Detail Sheets - Final Permitting			4	2			2						8		
l	Civil Temporary or Phasing Sheets - Final Permitting			2	4									9		
m	Civil Permitting			16	17	8			1					41		
n	Engineer's Report		1	4	5									10		
o	CSPP			2					2					4		
p	QA/QC		2	16				8						26		
q	Specifications			2	4									6		
<b>Subtotal Hours</b>		0	6	92	102	38	14	2	1	17	6	0	0	278		
<b>Rate</b>		\$158.00	\$110.00	\$80.00	\$75.00	\$50.00	\$73.00	\$43.00	\$78.00	\$50.00	\$30.00	\$31.00	\$32.00			
<b>Subtotal Direct Labor</b>		\$0.00	\$660.00	\$7,360.00	\$7,650.00	\$1,900.00	\$1,022.00	\$86.00	\$78.00	\$850.00	\$180.00	\$0.00	\$0.00	\$ 19,786.00		
<b>Subtotal Burdened Labor @ 2.63</b>														\$ 52,037.18		
<b>AVERAGE FTEs:</b>		0.00	0.02	0.26	0.28	0.11	0.04	0.01	0.00	0.05	0.02	0.00	0.00	0.77		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022															<b>AECOM</b>	
11																
FIRE ALARM + FIRE PROTECTION																
Executive Name 1 Hours	FP/FA Mgr. Davis Hours	Sr FP/FA Eng Walker Hours	FP/FA Engineer Lasner Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total				
<b>Basic Design Services - Fire Protection</b>																
<b>Task 4 - 100% Design + Buy Package 3 AECOM - Airsides A &amp; E</b>																
a	Incorporate HCAA and Stakeholder Comments into the Docs		2	8	12									22		
b	Finalize Overall Plans		2	12	12									26		
c	Finalize Fire Alarm Riser Diagram		2	12	12									26		
d	Finalize Fire Alarm Ops Matrix		2	12	12									26		
e	Finalize Fire Alarm Specs		2	12	12									26		
f	Finalize Fire Alarm Details		2	10	12									24		
g	Review, Sign and Seal 100% Bid Documents		2	8	12									22		
h	QA/QC Review		2	2	2									6		
<b>Subtotal Hours</b>		0	16	76	86	0	0	0	0	0	0	0	0	178		
<b>Rate</b>		\$158.00	\$80.00	\$46.18	\$33.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
<b>Subtotal Direct Labor</b>		\$0.00	\$1,280.00	\$3,509.68	\$2,864.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 7,654.34		
<b>Subtotal Burdened Labor @ 2.63</b>														\$ 20,130.91		
<b>AVERAGE FTEs:</b>		0.00	0.04	0.21	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022															<b>AECOM</b>	
12																
SECURITY SYSTEMS																
Security Lead Ruesia Hours	Sr. Security Newton Hours	Security Tech Sparrow Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total				
<b>Basic Design Services - Security</b>																
<b>Task 4 - 100% Design + Buy Package 3 AECOM - Airsides A &amp; E</b>																
a	Update Documents to Address Comments		2	2	4									8		
b	Final Updates to Bid Documents		2	7	10									19		
c	Finalize, Sign and Seal Security Drawings & Specs		2	8	8									18		
d	QA/QC		2	3	3									8		
<b>Subtotal Hours</b>		8	20	25	0	0	0	0	0	0	0	0	0	53		
<b>Rate</b>		\$104.24	\$86.03	\$50.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
<b>Subtotal Direct Labor</b>		\$833.92	\$1,720.60	\$1,272.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 3,826.52		
<b>Subtotal Burdened Labor @ 2.63</b>														\$ 10,063.75		
<b>AVERAGE FTEs:</b>		0.02	0.06	0.07	0.00	0.00	0.00	0.00	0.00	#DIV/0!	#DIV/0!	#DIV/0!	0.00	0.15		

**TASK 4 DETAILS**  
TPA AIRSIDES A+E

**Task 4 Design Fees**  
100% Final Design - Part 2A 100% Permit Set

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022													
<b>VOLT AIR</b>													
MEP ENGINEERING													
	Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services - Mechanical, Plumbing and Electrical</b>													
<b>Task 4 - 100% Design + Buy Package 3 VoltAir - Airsides A &amp; E</b>													
<b>13. Mechanical and Plumbing Engineering</b>													
a					2	4	8	8	12				34
b					2	2	2	2	2				10
c					2	4	8	8	10				32
d					2	4	8	8	8				30
e					2	4	8	8	10				32
f, g					2	4	8	8	8				30
h, j					2	8	8	8	8				34
k, l, m, n, o					2	4	8	8	8				30
p					2	4	8	8	8				30
q	2				2	2	2	2	2				12
r					4	4							8
<b>14. Electrical Engineering</b>													
a		1	4	12									17
b		1	4	12									17
c		1	4	12									17
d		1	4	12									17
e		1	4	12									17
f		1	4	12									17
g		1	4	12									17
h		1	4	12									17
i		1	4	12									17
j		1	4	20									25
k		1	6	12									19
l	2	1	1	1									5
m			4	8									12
<b>Subtotal Hours</b>													
	4	12	51	149	24	44	68	68	76	0	0	0	496
<b>Rate</b>													
	\$94.29	\$89.29	\$72.27	\$47.70	\$77.24	\$66.50	\$38.44	\$50.11	\$50.12	\$37.71	\$0.00	\$0.00	\$0.00
<b>Subtotal Direct Labor</b>													
	\$377.16	\$1,071.48	\$3,685.77	\$7,107.30	\$1,853.76	\$2,926.00	\$2,613.92	\$3,407.48	\$3,809.12	\$0.00	\$0.00	\$0.00	\$ 26,851.99
<b>Subtotal Burdened Labor @ 2.78</b>													
	2.78	0.01	0.03	0.14	0.07	0.12	0.19	0.19	0.21	0.00	0.00	0.00	1.38
<b>AVERAGE FTEs:</b>													

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022													
<b>ARORA</b>													
LOW VOLTAGE BUILDING SYSTEMS													
	Principal Name 1 Hours	PM Name 2 Hours	SE/DL Name 3 Hours	Engineer Name 4 Hours	Sr. Designer Name 5 Hours	Designer Name 6 Hours	Sr. Tech Name 7 Hours	Tech Name 8 Hours	Clerical Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
<b>Basic Design Services</b>													
<b>Task 4 - 100% Design + Buy Package 3 Arora - Airsides A &amp; E</b>													
a, b, c, d, e, f													0
g													0
h													0
i													0
j		1	1		1	1	1	1					6
k		2	2		2	2	2	2					12
l		1	1		1	1	1	1					6
m		1	1		1	1	1	1					6
n	12				1	1	1	1					18
o			7	17	18	24	15	31	4				116
<b>Subtotal Hours</b>													
	12	12	22	0	23	29	20	36	4	0	0	0	158
<b>Rate</b>													
	\$132.00	\$114.00	\$82.00	\$78.74	\$67.00	\$48.25	\$57.75	\$41.00	\$27.50	\$0.00	\$0.00	\$0.00	\$0.00
<b>Subtotal Direct Labor</b>													
	\$1,584.00	\$1,368.00	\$1,804.00	\$0.00	\$1,541.00	\$1,399.25	\$1,155.00	\$1,476.00	\$110.00	\$0.00	\$0.00	\$0.00	\$ 10,437.25
<b>Subtotal Burdened Labor @ 2.54</b>													
	2.54	0.03	0.03	0.06	0.00	0.06	0.08	0.06	0.10	0.01	0.00	0.00	0.44
<b>AVERAGE FTEs:</b>													

TASK 4 DESIGN EFFORT SUMMARY	METRICS
APPROX. DURATION THIS TASK   WEEKS:	9
TOTAL HOURS THIS TASK:	3,584
AVERAGE DESIGN TEAM HOURS PER WEEK:	398
TOTAL AVERAGE FTE'S THIS TASK:	10.0
TOTAL FEES THIS TASK:	\$569,414





**TASK 5 DETAILS**  
TPA AIRSIDES A+E

**Task 5 Design Fees**  
Bid and Award

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022														<b>AECOM</b>	
11															
FIRE ALARM + FIRE PROTECTION															
	Executive Name 1 Hours	FP/FA Mgr. Davis Hours	Sr FP/FA Eng Walker Hours	FP/FA Engineer Lasner Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Fire Protection</b>															
<b>Task 5 - Bid &amp; Award AECOM - Airsides A &amp; E</b>															
Package Plans for Bidding				5			2	5	1					13	
Assist in Addenda Preparation				18			5	14	4					41	
Attend PreBid Conference				2	1		1	1						6	
<b>Subtotal Hours</b>	0	0	0	25	1	0	8	20	6	0	0	0	60		
<b>Rate</b>	\$158.00	\$80.00	\$46.18	\$33.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$832.75		
<b>Subtotal Direct Labor</b>	\$0.00	\$0.00	\$0.00	\$832.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$832.75		
<b>Subtotal Burdened Labor @ 2.63</b>													\$2,190.13		
<b>AVERAGE FTEs:</b>	0.00	0.00	0.00	0.13	0.01	0.00	0.04	0.10	0.03	0.00	0.00	0.00	0.30		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022														<b>AECOM</b>	
12															
SECURITY SYSTEMS															
	Security Lead Rueda Hours	Sr. Security Newton Hours	Security Tech Sparrow Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Security</b>															
<b>Task 5 - Bid &amp; Award AECOM - Airsides A &amp; E</b>															
a Respond to Bidder Questions	0	0	2										2		
b Issue Addenda as Needed	0	0	6										6		
<b>Subtotal Hours</b>	0	0	8	0	0	0	0	0	0	0	0	0	8		
<b>Rate</b>	\$	\$104.24	\$86.03	\$	\$50.88	\$	\$	\$	\$	\$	\$	\$	\$407.04		
<b>Subtotal Direct Labor</b>	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$407.04		
<b>Subtotal Burdened Labor @ 2.63</b>													\$1,070.52		
<b>AVERAGE FTEs:</b>	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022														<b>VOLT AIR</b>	
13 14															
MEP ENGINEERING															
	Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Mechanical, Plumbing and Electrical</b>															
<b>Task 5 - Bid &amp; Award VoltAir - Airsides A &amp; E</b>															
<b>13. Mechanical and Plumbing Engineering</b>															
Assist in Addenda Preparation & Answer Bidder Questions					1	1	10	10	8				30		
<b>14. Electrical Engineering</b>															
Assist in Addenda Preparation & Answer Bidder Questions	1	3	8	8									20		
<b>Subtotal Hours</b>	1	3	8	8	1	1	10	10	8	0	0	0	50		
<b>Rate</b>	\$94.29	\$89.29	\$72.27	\$47.70	\$77.24	\$66.50	\$38.44	\$50.11	\$50.12	\$37.71	\$0.00	\$0.00	\$752.12		
<b>Subtotal Direct Labor</b>	\$94.29	\$267.87	\$578.16	\$381.60	\$77.24	\$66.50	\$384.40	\$501.10	\$400.96	\$0.00	\$0.00	\$0.00	\$7,550.89		
<b>Subtotal Burdened Labor @ 2.78</b>													\$21,000.00		
<b>AVERAGE FTEs:</b>	0.01	0.02	0.04	0.04	0.01	0.01	0.05	0.05	0.04	0.00	0.00	0.00	0.25		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 Z2 1/10/2022														<b>ARORA</b>	
15 16															
LOW VOLTAGE BUILDING SYSTEMS															
	Principal Name 1 Hours	PM Name 2 Hours	SE/DL Name 3 Hours	Engineer Name 4 Hours	Sr. Designer Name 5 Hours	Designer Name 6 Hours	Sr. Tech Name 7 Hours	Tech Name 8 Hours	Clerical Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services</b>															
<b>Task 5 - Bid &amp; Award Arora, Inc. - Airsides A &amp; E</b>															
Assist in Addenda Preparation & Answer Bidder Questions			4		4	4		6					18		
<b>Subtotal Hours</b>	0	0	4	0	4	4	0	6	0	0	0	0	18		
<b>Rate</b>	\$132.00	\$114.00	\$82.00	\$78.74	\$67.00	\$48.25	\$67.75	\$41.00	\$27.50	\$0.00	\$0.00	\$0.00	\$1,035.00		
<b>Subtotal Direct Labor</b>	\$0.00	\$0.00	\$328.00	\$0.00	\$268.00	\$193.00	\$0.00	\$246.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,035.00		
<b>Subtotal Burdened Labor @ 2.54</b>													\$2,628.90		
<b>AVERAGE FTEs:</b>	0.00	0.00	0.02	0.00	0.02	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.09		

TASK 5 DESIGN EFFORT SUMMARY		METRICS	
APPROX. DURATION THIS TASK   WEEKS:			5
TOTAL HOURS THIS TASK:			1,365
AVERAGE DESIGN TEAM HOURS PER WEEK:			273
TOTAL AVERAGE FTE'S THIS TASK:			6.8
TOTAL FEES THIS TASK:			\$246,975

end tr

**TASK 6 DETAILS**  
TPA AIRSIDES A+A-

**Task 6 Design Fees**  
Construction Administration



01/10/2022

Project Fee Proposal - Suffolk Construction Company, Inc. Team													
Airsides A & E Security Screening Checkpoint Expansion													
HCAA Project Number 8435 22													
1/10/2022													
Suffolk													
PRECONSTRUCTION SERVICES	EVP Hours	Pr. Director Hours	Sr. PM Hours	Gen. Super Hours	Sr. Estimator Hours	Estimator Hours	Super Hours	Pr. Controller Hours	Admin Hours				Total
Preconstruction Services													
Task 6 - CA Services Suffolk													
NOT APPLICABLE													
Subtotal Hours	-	-	-	-	-	-	-	-	-	-	-	-	-
Rate	No Cost	\$ 137.02	\$ 74.52	\$ 125.00	\$ 114.90	\$ 50.96	\$ 66.35	\$ 64.42	\$ 33.65				
Subtotal Direct Labor		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				\$ -
Subtotal Burdened Labor @ 2.09													\$ -

NOTE: Task Items 01 through 05 are "General Scope" and not specifically tabulated below.

Project Fee Proposal - Suffolk Construction Company, Inc. Team													
Airsides A & E Security Screening Checkpoint Expansion													
HCAA Project Number 8435 22													
1/10/2022													
AECOM													
PROJECT MANAGEMENT	Executive Rookard Hours	PM Wengler Hours	Deputy PM Canevani Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
Basic Design Services - Project Management													
Task 6 - CA Services - AECOM- Airsides A & E													
a Attend PreConstruction Conference		16	30										46
b Prepare Issued For Construction Drawings		16	30										46
c Weekly Contractor's Meeting & Site Visit		16	30										46
d Attend Specialty Meetings		16	30										46
e Construction Changes & Change Orders		16	30										46
f Review Shop Drawings		16	30										46
g Review and Approve Pay Request		16	30										46
h Prepare Construction Management Plan		16	30										46
i Review and assist with Materials Testing		16	30										46
j Review Contractor's Safety Plan and Compliance Doc		16	30										46
k Perform Substantial and Final Inspections		16	20										36
l Prepare Record Drawings from contractor markups		16	20										36
m Assist in obtaining close-out documents		16	20										36
Subtotal Hours	0	208	360	0	0	0	0	0	0	0	0	0	568
Rate	\$154.71	\$81.24	\$56.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Subtotal Direct Labor	\$0.00	\$16,897.92	\$20,502.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37,400
Subtotal Burdened Labor @ 2.63													\$98,361.79
AVERAGE FTEs:	0.00	0.10	0.17										0.27

Project Fee Proposal - Suffolk Construction Company, Inc. Team													
Airsides A & E Security Screening Checkpoint Expansion													
HCAA Project Number 8435 22													
1/10/2022													
AECOM													
ARCHITECTURE, INTERIORS + WAYFINDING	Lead Architect Rushmore Hours	Tech Architect Corbell Hours	Interior Des. Groves Hours	Job Captains Blended (3) Hours	Drafter Ortiz Hours	Arch 3D/IVDC Halkyard Hours	Wayfinding Zung Hours	Specs Solomon Hours	Hardware Hatfield Hours	TSA Equipment Aguiar Hours	Proj Controls Maloney Hours	Code Arch Blended (2) Hours	Total
Basic Design Services - Architecture and Interiors, Wayfinding													
Task 6 - CA Services - AECOM- Airsides A & E													
a Prepare RFI Responses	42	200	200	180	20		40						682
d Review Submittals	42	200	200	180	20		40						682
f,g Field Observations & Reports	21	100	100	90	10		20						341
h,i,j,k,l,m Other CA Responsibilities	21	100	100	90	10		20						341
Subtotal Hours	126	600	600	540	60	0	120	0	0	0	0	0	2046
Rate	\$93.31	\$57.89	\$67.24	\$58.50	\$36.40	\$58.62	\$53.31	\$50.70	\$76.79	\$42.31	\$44.74	\$50.00	
Subtotal Direct Labor	\$11,757.06	\$34,734.00	\$40,344.00	\$31,590.00	\$2,184.00	\$0.00	\$6,397.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$127,006
Subtotal Burdened Labor @ 2.63													\$334,026.46
AVERAGE FTEs:	0.06	0.29	0.29	0.26	0.03	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.98

Project Fee Proposal - Suffolk Construction Company, Inc. Team													
Airsides A & E Security Screening Checkpoint Expansion													
HCAA Project Number 8435 22													
1/10/2022													
AECOM													
STRUCTURAL ENGINEERING	Executive Rookard Hours	Str. Mgr. Hassani Hours	Sr. Structural Vaccarello Hours	Sr. Structural Papadopoulos Hours	Str. Designer Jno Baptiste Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total
Basic Design Services - Structural													
Task 6 - CA Services - AECOM- Airsides A & E													
a Provide Responses to RFIs		2	8		24								82
b Review Submittals and Shop Drawings		2	8		24								82
c,d Site Visits and Field Reports		2	8		24								82
e Attend Specialty Meetings		2	8		24								82
f Review Changes during Construction		2	8		24								82
g Perform Substantial and Final Inspections		2	8		24								82
h Prepare Record Drawings from As Builts		2	8		24								82
i Assist in Close-Out Documents		2	8		24								82
Subtotal Hours	0	16	64	192	384	0	0	0	0	0	0	0	656
Rate	\$158.00	\$74.35	\$45.17	\$45.12	\$42.23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Subtotal Direct Labor	\$0.00	\$1,189.60	\$2,890.88	\$8,663.04	\$16,216.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,960
Subtotal Burdened Labor @ 2.63													\$76,164.38
AVERAGE FTEs:	0.00	0.01	0.03	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32

**TASK 6 DETAILS**  
TPA AIRSIDES A+E

**Task 6 Design Fees**  
Construction Administration

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
CIVIL ENGINEERING	Executive Hours	Principal Henriquez/Kacer Hours	Sr. Aviation PM Combs Hours	Sr. Aviation E Piercy Hours	Aviation Engr Blend Hours	Sr. Utility Eng Handjev Hours	Utility Eng Blend Hours	Sr. Designer Irrgang Hours	Designer Blend Hours	Admin Kline Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Civil</b>															
<b>Task 6 - CA Services - AECOM- Airsides A &amp; E</b>															
a			4										4		
b			16		10		12		12				50		
c			24		22		16		16				78		
d		2	10		8		4		8				32		
e		2	24		20		20		20				96		
f		2	60		24		20		40				146		
g					12								12		
h		2	4		14		4						24		
i			10		24		12		12				58		
j		1	4		8		4		8				25		
k			10		12		12		12				46		
l			8		12		8		16				44		
m			8		10		10		10				38		
	Subtotal Hours	0	9	182	0	176	122	0	154	0	0	0	643		
	Rate	\$158.00	\$110.00	\$80.00	\$75.00	\$50.00	\$73.00	\$78.00	\$50.00	\$30.00	\$31.00	\$32.00	\$ 37,296.00		
	Subtotal Direct Labor	\$0.00	\$990.00	\$14,560.00	\$0.00	\$8,800.00	\$0.00	\$5,246.00	\$0.00	\$7,700.00	\$0.00	\$0.00	\$ 98,088.48		
	Subtotal Burdened Labor @ 2.63												\$ 98,088.48		
	AVERAGE FTEs:	0.00	0.00	0.09	0.00	0.08	0.00	0.06	0.00	0.07	0.00	0.00	0.31		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
FIRE ALARM * FIRE PROTECTION	Executive Name 1 Hours	FP/FA Mgr. Davis Hours	Sr FP/FA Eng Walker Hours	FP/FA Engineer Lasner Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Fire Protection * Fire Alarm</b>															
<b>Task 6 - CA Services - AECOM- Airsides A &amp; E</b>															
a		24	32	40									96		
b, c, d		24	32	40									96		
e		24	32	40									96		
f, g, h, i, j		2	2	2									6		
	Subtotal Hours	0	74	98	0	0	0	0	0	0	0	0	294		
	Rate	\$158.00	\$80.00	\$46.18	\$33.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 14,509.46		
	Subtotal Direct Labor	\$0.00	\$5,920.00	\$4,525.64	\$4,063.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 38,159.88		
	Subtotal Burdened Labor @ 2.63												\$ 38,159.88		
	AVERAGE FTEs:	0.00	0.04	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>AECOM</b>	
SECURITY SYSTEMS	Security Lead Rueda Hours	Sr. Security Newton Hours	Security Tech Sparrow Hours	Not Used Name 4 Hours	Not Used Name 5 Hours	Not Used Name 6 Hours	Not Used Name 7 Hours	Not Used Name 8 Hours	Not Used Name 9 Hours	Not Used Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Security</b>															
<b>Task 6 - CA Services - AECOM- Airsides A &amp; E</b>															
a		4	40										44		
b		4	40										44		
c		5	40										45		
	Subtotal Hours	0	13	120	0	0	0	0	0	0	0	0	133		
	Rate	\$104.24	\$86.03	\$50.88	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 7,223.99		
	Subtotal Direct Labor	\$0.00	\$1,118.39	\$6,105.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ 18,959.09		
	Subtotal Burdened Labor @ 2.63												\$ 18,959.09		
	AVERAGE FTEs:	0.00	0.01	0.06									0.06		

Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022														<b>VOLT+AIR</b>	
MEP ENGINEERING	Principal Name 1 Hours	Electrical Director/PM Name 2 Hours	Senior Electrical Eng. Name 3 Hours	Electrical Eng. II Name 4 Hours	Mech Director Name 5 Hours	Sr. Mechanical Engineer Name 6 Hours	Mechanical Engineer II Name 7 Hours	Senior Plumbing Designer Name 8 Hours	BIM Technician Name 9 Hours	Clerical Name 10 Hours	Not Used Name 11 Hours	Not Used Name 12 Hours	Total		
<b>Basic Design Services - Mechanical, Plumbing and Electrical</b>															
<b>Task 6 - CA Services - VoltAir - Airsides A &amp; E</b>															
<b>13. Mechanical and Plumbing Engineering</b>															
a			40	120									160		
b			40	120									160		
c			40	120									160		
<b>14. Electrical Engineering</b>															
a					1	60	60	60		38			219		
b					2	60	60	60		38			220		
c					1	40	40	40		38			159		
	Subtotal Hours	0	120	360	4	160	160	160	0	114	0	0	1078		
	Rate	\$94.29	\$89.29	\$72.27	\$47.70	\$77.24	\$66.50	\$38.44	\$50.12	\$37.71	\$0.00	\$0.00	\$ 50,961.36		
	Subtotal Direct Labor	\$0.00	\$0.00	\$8,672.40	\$17,172.00	\$308.96	\$10,640.00	\$6,150.40	\$0.00	\$4,298.94	\$0.00	\$0.00	\$ 141,672.58		
	Subtotal Burdened Labor @ 2.78												\$ 141,672.58		
	AVERAGE FTEs:	0.00	0.00	0.06	0.17	0.00	0.08	0.08	0.00	0.05	0.00	0.00	0.52		

**TASK 6 DETAILS**  
TPA AIRSIDES A+E

**Task 6 Design Fees**  
Construction Administration

15 16		Project Fee Proposal - Suffolk Construction Company, Inc. Team Airsides A & E Security Screening Checkpoint Expansion HCAA Project Number 8435 22 1/10/2022												
LOW VOLTAGE BUILDING SYSTEMS		Principal	PM	SE/DL	Engineer	Sr. Designer	Designer	Sr. Tech	Tech	Clerical	Not Used	Not Used	Not Used	Total
Basic Design Services		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
<b>Task 6 - CA Services - Arora, Inc. - Airsides A &amp; E</b>														
a	RFI Responses	5	16	8	12	10	20	24	24	24				119
b	Review Submittals and Shop Drawings	5	16	8	12	10	20	24	24	24				119
c	Field Observations and Reports & Record Drawings	6	16	8	12	10	20	24	24	24				120
<b>Subtotal Hours</b>			16	48	24	36	30	60	72	72				358
<b>Rate</b>		\$ 132.00	\$ 114.00	\$ 82.00	\$ 78.74	\$ 67.00	\$ 48.25	\$ 57.75	\$ 41.00	\$ 27.50	\$ -	\$ -	\$ -	
<b>Subtotal Direct Labor</b>		\$ -	\$ 1,824.00	\$ 3,936.00	\$ 1,889.76	\$ 2,412.00	\$ 1,447.50	\$ 3,465.00	\$ 2,952.00	\$ 1,980.00	\$ -	\$ -	\$ -	\$ 19,906.26
<b>Subtotal Burdened Labor @ 2.64</b>														\$ 50,561.90
<b>AVERAGE FTEs:</b>		0.00	0.01	0.02	0.01	0.02	0.01	0.03	0.03	0.01	0.00	0.00	0.00	0.15

TASK 6 DESIGN EFFORT SUMMARY		METRICS
APPROX. DURATION THIS TASK   WEEKS:		52
TOTAL HOURS THIS TASK:		5,776
AVERAGE DESIGN TEAM HOURS PER WEEK:		111
TOTAL AVERAGE FTEs THIS TASK:		2.8
TOTAL FEES THIS TASK:		\$856,035

end tr

# 4

## Rate Sheets

Name	Job Title	Raw Rate (\$/hour)	FAR Audited Overhead (\$/hr)	Profit (\$/hour)	Hourly Billing Rate (\$/hr)	Billing Multiplier
SUFFOLK						
			<b>90.00%</b>	<b>10%</b>		
C. Page	Project Director	\$137.02	\$ 123.32	\$ 26.03	\$ 286.37	2.09
B. Salamone	Senior Project Manager	\$74.52	\$ 67.07	\$ 14.16	\$ 155.75	2.09
C. DeRose	General Superintendent	\$125.00	\$ 112.50	\$ 23.75	\$ 261.25	2.09
J. Ostrowski	Senior Estimator	\$114.90	\$ 103.41	\$ 21.83	\$ 240.14	2.09
J. Stanford	Estimator	\$50.96	\$ 45.86	\$ 9.68	\$ 106.51	2.09
B. Converse	Superintendent	\$66.35	\$ 59.72	\$ 12.61	\$ 138.67	2.09
J. Magadanz	Project Controller	\$64.42	\$ 57.98	\$ 12.24	\$ 134.64	2.09
M. Rodriguez	Project Administrator	\$33.65	\$ 30.29	\$ 6.39	\$ 70.33	2.09
V. Harris	Scheduler	\$69.71	\$ 62.74	\$ 13.24	\$ 145.69	2.09

Name	Job Title	Raw Rate (\$/hour)	FAR Audited Overhead (\$/hr)	Profit (\$/hour)	Hourly Billing Rate (\$/hr)	Billing Multiplier
AECOM						
			<b>138.76%</b>	<b>10%</b>		
Rookard, Terry	Project Executive	\$154.71	\$ 214.68	\$ 36.94	\$ 406.32	2.63
Wengler, Kayla	Architecture Sr Project Manager	\$81.24	\$ 112.73	\$ 19.40	\$ 213.37	2.63
Canevari, Patricia	Architecture Deputy PM	\$56.95	\$ 79.02	\$ 13.60	\$ 149.57	2.63
Corbeil, Adam	Technical Architect	\$57.89	\$ 80.33	\$ 13.82	\$ 152.04	2.63
Rushmore, Jonathan	Lead Architect	\$93.31	\$ 129.48	\$ 22.28	\$ 245.07	2.63
Aguiar, Andrea	Architecture TSA Chkpoint Designer	\$42.31	\$ 58.71	\$ 10.10	\$ 111.12	2.63
Hatfield, Michael	Senior Hardware Specialist	\$76.79	\$ 106.55	\$ 18.33	\$ 201.68	2.63
Groves, John	Senior Interior Designer	\$67.24	\$ 93.30	\$ 16.05	\$ 176.60	2.63
Solomon, Nardin	Senior Specification Writer	\$50.70	\$ 70.35	\$ 12.11	\$ 133.16	2.63
Maloney, Steve	Sr. Project Controls Analyst	\$44.74	\$ 62.08	\$ 10.68	\$ 117.50	2.63
Danhoe, Jonathan	Architecture Sr. Designer	\$48.20	\$ 66.88	\$ 11.51	\$ 126.59	2.63
Halkyard, Tanner	Architect 3D   VDC	\$58.62	\$ 81.34	\$ 14.00	\$ 153.96	2.63
Selkirk, Geordie	Support Architect	\$89.93	\$ 124.79	\$ 21.47	\$ 236.19	2.63
Sanchez, Miguel	Architecture Sr. Designer	\$46.05	\$ 63.90	\$ 10.99	\$ 120.94	2.63
Zung, Stacy	Wayfinding Design Specialist	\$53.31	\$ 73.97	\$ 12.73	\$ 140.01	2.63
Heim, Jon	Code Engineer	\$55.00	\$ 76.32	\$ 13.13	\$ 144.45	2.63
Rutherford, Dan	Sr. Code Engineer	\$45.00	\$ 62.44	\$ 10.74	\$ 118.19	2.63
Davis, Charles	Fire Protection Manager	\$80.00	\$ 111.01	\$ 19.10	\$ 210.11	2.63
Walker, Jennifer	Sr. Fire Protection Designer	\$46.18	\$ 64.08	\$ 11.03	\$ 121.29	2.63
Lanser, Peter	Fire Protection Designer	\$33.31	\$ 46.22	\$ 7.95	\$ 87.48	2.63
Lechner, Jim	Sr. Fire Alarm Engineer	\$74.35	\$ 103.17	\$ 17.75	\$ 195.27	2.63
Walker, Jennifer	Fire Alarm System Engineer	\$74.35	\$ 103.17	\$ 17.75	\$ 195.27	2.63
Purdy, Chris	Fire Alarm System Designer	\$74.35	\$ 103.17	\$ 17.75	\$ 195.27	2.63
Hassani, Saeed	Structural Manager	\$74.35	\$ 103.17	\$ 17.75	\$ 195.27	2.63
Vaccarello-Wadehra, Vincent	Sr. Structural Designer	\$45.17	\$ 62.68	\$ 10.78	\$ 118.63	2.63
Papadopoulos, George	Sr. Structural Designer	\$45.12	\$ 62.61	\$ 10.77	\$ 118.50	2.63
Jno Baptiste Nick	Structural Designer	\$42.23	\$ 58.60	\$ 10.08	\$ 110.91	2.63
Rueda, Roger	Security Lead	\$104.24	\$ 144.64	\$ 24.89	\$ 273.77	2.63

Name	Job Title	Raw Rate (\$/hour)	FAR Audited Overhead (\$/hr)	Profit (\$/hour)	Hourly Billing Rate (\$/hr)	Billing Multiplier
AECOM						
			<b>138.76%</b>	<b>10%</b>		
Newton, Thomas	Sr. Security Technical Consultant	\$86.03	\$ 119.38	\$ 20.54	\$ 225.95	2.63
Sparrow, Scott	Sr. Technical Consultant	\$50.88	\$ 70.60	\$ 12.15	\$ 133.63	2.63
Combs, Dennis	Sr. Aviation PM	\$79.88	\$ 110.84	\$ 19.07	\$ 209.79	2.63
Piercy, Kelli	Sr. Aviation Engineer	\$74.58	\$ 103.49	\$ 17.81	\$ 195.87	2.63
Aydin, Robert	Aviation Engineer	\$40.41	\$ 56.07	\$ 9.65	\$ 106.13	2.63
Henriquez, Steve	Aviation Principal	\$116.93	\$ 162.25	\$ 27.92	\$ 307.10	2.63
Kacer, Andy	Aviation Principal	\$98.63	\$ 136.86	\$ 23.55	\$ 259.04	2.63
Kline, Diane	Administration	\$28.86	\$ 40.05	\$ 6.89	\$ 75.80	2.63
Lanier, Lisa	Procurement	\$29.85	\$ 41.42	\$ 7.13	\$ 78.40	2.63
Irrgang, Ron	Sr. Designer	\$65.79	\$ 91.29	\$ 15.71	\$ 172.79	2.63
Signorin, Ryan	Aviation Engineer	\$43.43	\$ 60.26	\$ 10.37	\$ 114.06	2.63
Martin, Clint	Aviation Engineer	\$58.99	\$ 81.85	\$ 14.08	\$ 154.93	2.63
Wilcox, Dave	Tech Utility Advisor	\$93.14	\$ 129.24	\$ 22.24	\$ 244.62	2.63
Handjiev, Bohzo	Sr. Utility Engineer	\$70.86	\$ 98.33	\$ 16.92	\$ 186.10	2.63
Paredes, Stephanie	Utility Engineer	\$43.50	\$ 60.36	\$ 10.39	\$ 114.25	2.63
Mayes, Carrie	Utility Engineer	\$41.25	\$ 57.24	\$ 9.85	\$ 108.34	2.63
Sonnenberg, Terry	Utility Cadd Designer	\$79.11	\$ 109.77	\$ 18.89	\$ 207.77	2.63
McCann, Daryl	Utility Cadd Designer	\$48.08	\$ 66.72	\$ 11.48	\$ 126.28	2.63



Name	Job Title	Raw Rate (\$/hour)	FAR Audited Overhead (\$/hr)	Profit (\$/hour)	Hourly Billing Rate (\$/hr)	Billing Multiplier
VoltAir Consulting Engineers						
			153.00%	10%		
Gerald Crnkovich	Director of Electrical Engin	\$ 89.29	\$ 136.61	\$ 22.59	\$ 248.49	2.78
Kenny Roberts	Director of Mechanical En	\$ 77.24	\$ 118.18	\$ 19.54	\$ 214.96	2.78
Bryan Zemina	Senior Mechanical Engine	\$ 66.50	\$ 101.75	\$ 16.82	\$ 185.07	2.78
Chris Salvo	Senior Electrical Engineer	\$ 72.27	\$ 110.57	\$ 18.28	\$ 201.13	2.78
Maria Aguirre	Electrical Engineer	\$ 42.82	\$ 65.51	\$ 10.83	\$ 119.17	2.78
Roger Wiegman	BIM Coordinator	\$ 50.12	\$ 76.68	\$ 12.68	\$ 139.48	2.78
William Beard	Electrical Engineer	\$ 47.70	\$ 72.98	\$ 12.07	\$ 132.75	2.78
Julius Davis	Principal	\$ 94.29	\$ 144.26	\$ 23.86	\$ 262.41	2.78
Robert Tirado	Mechanical Engineer	\$ 38.44	\$ 58.81	\$ 9.73	\$ 106.98	2.78
Ross Kristof	Mechanical Engineer	\$ 33.84	\$ 51.78	\$ 8.56	\$ 94.18	2.78
Rob Shorey	Director of Plumbing	\$ 56.73	\$ 86.80	\$ 14.35	\$ 157.88	2.78
Frank Poruba	Senior Plumbing Designer	\$ 50.11	\$ 76.67	\$ 12.68	\$ 139.46	2.78
Kristie Williams	Administration	\$ 37.71	\$ 57.70	\$ 9.54	\$ 104.95	2.78

Name	Job Title	Raw Rate (\$/hour)	FAR Audited Overhead (\$/hr)	Profit (\$/hour)	Hourly Billing Rate (\$/hr)	Billing Multiplier
Arora Engineers, Inc.						
			<b>130.77%</b>	<b>10%</b>		
<b>Manik Arora</b>	Principal	\$ 132.00	\$ 172.61	\$ 30.46	\$ 335.07	2.54
<b>Jason Shevrin</b>	Sr. Project Manager	\$ 114.00	\$ 149.07	\$ 26.31	\$ 289.38	2.54
<b>Edward Hart</b>	Special Systems Discipline Lead	\$ 68.50	\$ 89.58	\$ 15.81	\$ 173.88	2.54
<b>Milan Sutaria</b>	Special Systems Discipline Lead	\$ 82.00	\$ 107.23	\$ 18.92	\$ 208.15	2.54
<b>Francisco Del Rosario</b>	Sr. Special Systems Designer	\$ 67.00	\$ 87.61	\$ 15.46	\$ 170.08	2.54
<b>Sheeba Money</b>	Special Systems Designer	\$ 48.25	\$ 63.10	\$ 11.13	\$ 122.48	2.54
<b>Hamilton Mateca</b>	Special Systems Designer	\$ 38.00	\$ 49.69	\$ 8.77	\$ 96.46	2.54
<b>Kennith Chepkok</b>	Special Systems Designer	\$ 48.00	\$ 62.77	\$ 11.08	\$ 121.84	2.54
<b>Thang Van</b>	Sr. Special Systems Designer	\$ 45.00	\$ 58.85	\$ 10.38	\$ 114.23	2.54
<b>Daniel Kolman</b>	Special Systems Designer	\$ 36.00	\$ 47.08	\$ 8.31	\$ 91.38	2.54
<b>Earl Carter</b>	Practice Lead, BIM/CAD	\$ 57.75	\$ 75.52	\$ 13.33	\$ 146.59	2.54
<b>James Bersheim</b>	Assistant BIM CAD Manager	\$ 41.00	\$ 53.61	\$ 9.46	\$ 104.08	2.54
<b>Cynthia Lambert</b>	Sr. BIM CAD Specialist	\$ 47.25	\$ 61.79	\$ 10.90	\$ 119.94	2.54
<b>Joshua Haws</b>	BIM/CAD Technician	\$ 33.75	\$ 44.13	\$ 7.79	\$ 85.67	2.54
<b>Kimberly Sampson</b>	Project Coordinator	\$ 27.50	\$ 35.96	\$ 6.35	\$ 69.81	2.54

# 5

## Travel Plan

## **Suffolk Construction Travel Plan**

All Suffolk personnel except for the Project Director, Cliff Page, and Executive Vice President, Sam Sleiman, will be home based in Tampa and will not have any travel expenses for this project.

The Executive Vice President travel expenses are part of the corporate cost and are not billable to the project.

The Project Director Travel cost will consist of round-trip flight from Boston to Tampa and Hotel stays. We estimated that a round trip flight will cost approximately \$300 and a hotel stay will cost approximately \$163 per night according to GSA 2022 approved rates. The Project director will be spending up to three nights in Tampa for each visit. Total cost per visit:

- Flight: \$300
- Hotel: \$489 (three nights)

Total:           \$ 789 per trip

We have included in our Part 1 contract \$ 18,400 for total travel which will account for approximately 24 trips over the Part 1 contract period. Suffolk will cover any cost for flights or hotel that is beyond the stated rates above.

We believe that the above travel plan is reasonable, and we commit to providing additional trips for the Project Director as needed to provide the best service to the Authority at no additional cost above the total approved travel budget of \$18,400.

**TRAVEL PLAN**

- a) This Travel Plan is intended to set forth a general guideline for how AECOM proposes to approach travel on the Airsides A+E Checkpoint project.
- b) Travel Expenses are included in the AECOM FDOT billing multiplier of 2.63 and separate billing for expenses is not allowed.
- c) It should be noted that much of the work will be executed locally from our Tampa office, and for many disciplines, travel will not be required.
- d) The majority of our design team subs are local. For those subs with a need to travel, this will be included in the Reimbursable Expense budgets in our proposal.
- e) Travel for Arora and Volt Air are included in the separate reimbursable expense category for AECOM subs.
- f) The following is an overview of our proposed Travel Plan for this assignment:

**1 Key assumptions include:**

- a) The project will conduct weekly meetings.
- b) Meetings will be conducted in person, at the airport or virtual, with key AECOM staff participating.
- c) Every other week, meetings will be conducted in person.
- d) Every other week, meetings will be conducted virtually.
- e) There will be no billings for travel, as it is not allowed by the FDOT Approved Billing Multiplier by Audit. AECOM travel is included in the multiplier. Travel time is not billed.

**2 Key persons expected to travel on a regular basis include:**

a) Kayla Wengler	Project Manager	travel to TPA every other week
b) Jonathan Rushmore	Project Architect	travel to TPA once per month
c) George Selkirk	Supporting Architect	travel to TPA once per month
d) Dennis Combs	Lead Civil Engineer	no travel required
e) Saeed	Lead Structural Engineer	no travel required
f) Other Staff	Varies	other staff will travel to TPA as required without additional cost to TPA

**3 Anticipated Travel by Phase of Work**

1 Design Phases	Role  Travel Plan	Comments
a) Kayla Wengler	Project Manager	Travel to TPA every other two weeks average (or more frequent if required for specific tasks)
b) Jonathan Rushmore	Project Architect	Travel to TPA once every month average (or more frequent if required for specific tasks)
c) George Selkirk	Supporting Architect	Travel to TPA once every month average (or more frequent if required for specific tasks)
d) Dennis Combs	Lead Civil Engineer	no travel required
e) Saeed	Lead Structural Engineer	no travel required
f) SubConsultant	Varies	subs are largely local, but out-of-town subs will be funded by the Expense Budget per sub
g) Other	Varies	other AECOM staff will travel to TPA as required without additional cost to TPA

2 Construction Phase	Role  Travel Plan	Comments
a) Kayla Wengler	Project Manager	Travel to TPA once every month
b) Jonathan Rushmore	Project Architect	Travel to TPA once every month or less (as required)
c) George Selkirk	Supporting Architect	Travel to TPA once every month or less (as required)
d) Dennis Combs	Lead Civil Engineer	no travel required
e) Saeed	Lead Structural Engineer	no travel required
f) SubConsultant	Varies	subs are largely local, but out-of-town subs will be funded by the Expense Budget per sub
g) Other	Varies	other staff will travel to TPA as required without additional cost to TPA

end tr

# 6

## Reimbursable Back Up



December 10, 2021

Mr. Dennis Combs, PE  
AECOM  
7650 W. Courtney Campbell Causeway #700  
Tampa, FL 33607-1462

RE: TPA Checkpoints A & E  
NSI Proposal No. 210811

**REVISION NO. 1**

Dear Mr. Combs:

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

The scope of work included in this proposal is a 25' grid topographic survey of the areas shaded on your exhibits attached hereto.

Specifically, we will establish control points and benchmarks for our use and others working on this project. The horizontal datum will be NAD 83/2011 adjustment and the vertical datum will be NAVD 88. We will survey all topographic features within the survey limits and obtain additional shots at each concrete joint on the PCC slabs. We will open sanitary and storm structures to obtain all pipe data.

Our fee to perform the services discussed above will be as follows:

Airside A:	\$11,666.50
Airside E:	\$10,432.50

We will require 3 weeks from your notice to proceed date to complete the survey and submit an Autocad Civil 3D file along with digitally signed PDF maps.

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

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

Sincerely,

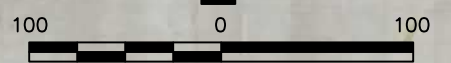
**NORTHWEST SURVEYING, INC.**

Gerald Silva, PSM  
President

Survey Area

Building scan

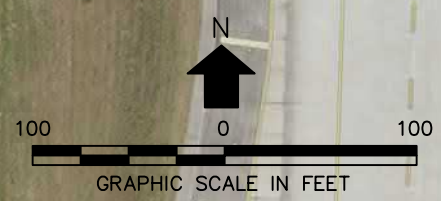
AIRSIDE  
A



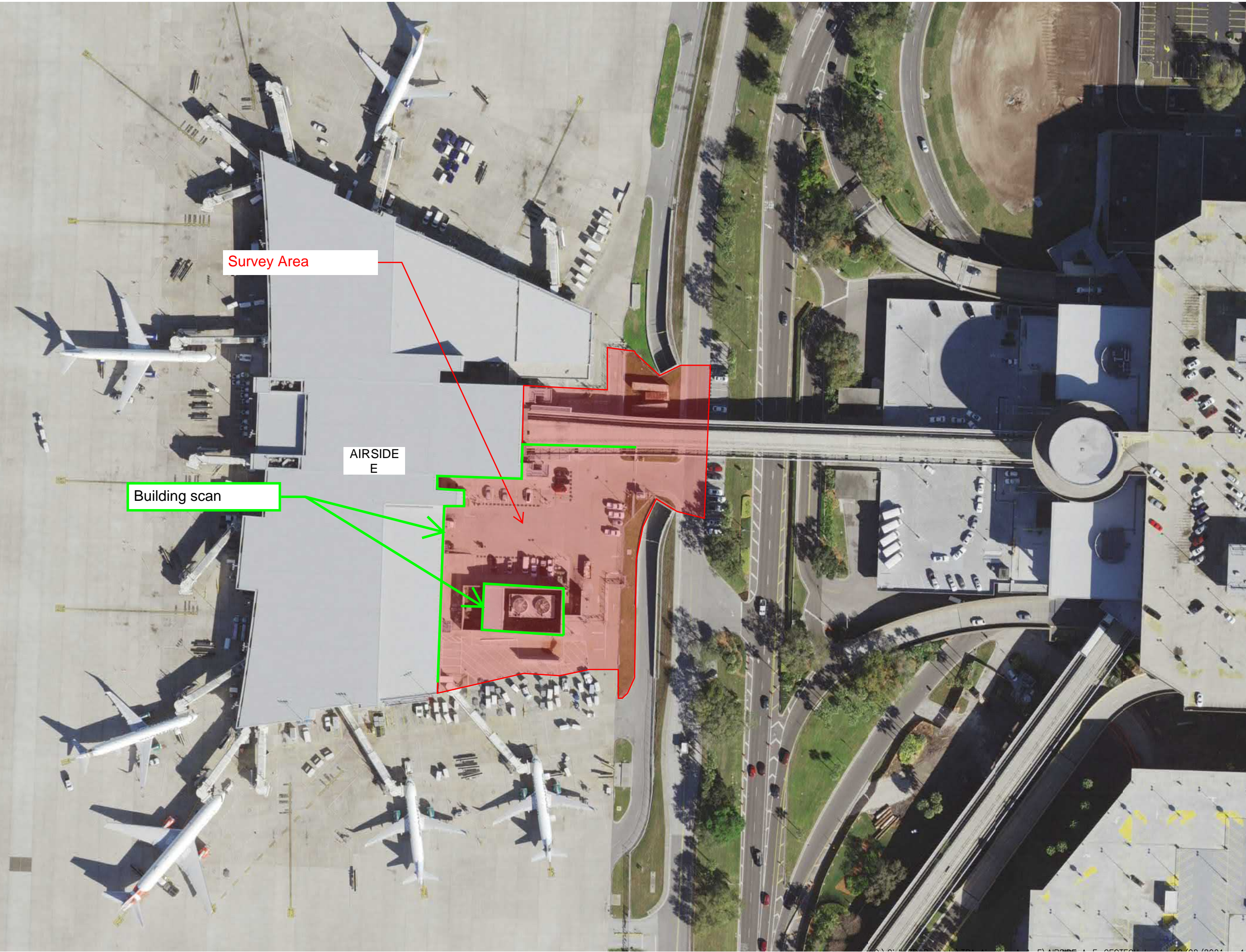
GRAPHIC SCALE IN FEET

**AIRSIDE A**





# AIRSIDE E



Survey Area

AIRSIDE E

Building scan



**ECHO UES, Inc.**  
4803 George Road, Suite 350  
Tampa, Florida 33634  
888.778.ECHO  
*Grow, Inspire, Make a Difference*

January 3, 2022

Kayla Wengler RA, NCARB  
Associate Vice President  
B+P Aviation & Transportation  
East Region  
One Federal Street, Suite 800  
Boston, MA 02110

## **PROPOSAL FOR STATIC LIDAR**

### **Project: Tampa International Airport – Terminal A & E**

Dear Ms. Wengler:

At ECHO UES, Inc. (ECHO) we value your consideration and appreciate the opportunity to provide a technical proposal for the provision of professional services. This technical proposal, inclusive of a competitive offer and schedule, details the approach we consider as the most suitable for your specific project's needs.

**Project Synopsis:** Based on the information made available to ECHO, we understand the project to consist of a conceptual design of portions of Terminal A & E at Tampa International Airport. ECHO's professional services have been requested to perform static LiDAR and provide a point cloud of the areas within the proposed improvements.

**Project Limits:** ECHO's proposed services will be performed within a well-defined area (i.e. Project Limits) as shown on the attached graphic representation.

### **Static LiDAR Scan**

1. Set scan targets throughout the project limits for the purpose of registering the scan data and relating to the project coordinate system.
2. Complete sufficient number of scans to provide a point cloud of all areas within the project limits of the floor elevation, general space and ceiling, see Exhibit A & B for specific requests per area.
3. The survey will be based on the North American Datum of 1983 (NAD83), West Zone and elevations will be referenced to the North American Vertical Datum 1988 (NAVD 88).
4. All survey efforts will be conducted in accordance with the Standards of Practice set forth in Rule Chapter 5J-17, F.A.C., pursuant to Section 472.027, F.S.

**Deliverables:**

- Point cloud in an e57 file format and a certified survey report.

**Proposed Schedule:**

- To be determined upon receipt of the Notice to Proceed (NTP).

**Notes and Limitations:**

1. Standard work hours are from 7:00am to 4:00pm, Monday through Friday; additional charges may occur (following discussion with the Client) in case of weekend or nighttime work.
2. ECHO will not work on any site that is known to be contaminated with any hazardous or harmful substance.

**Fee:** ECHO's competitive offer, which is inclusive of all field, office, materials, supplies, and equipment costs is detailed below.

**Lump Sum fee: \$50,787.50**

**Acceptance:** We will honor this proposal for 90 days. If accepted, please return to our attention together with a professional services agreement / task work order authorization and official Notice to Proceed.

At ECHO UES, Inc. we believe in collaboration and communication with our clients and are driven to understand their needs and provide time efficient and cost-effective solutions. ECHO strives to provide quality utility and survey reliable data to design better, build faster, and safely enhance Engineering, Design, Construction and Maintenance of infrastructure.

Thank you for considering ECHO for this important project and please do not hesitate to contact me directly should you have any questions or concern.

Sincerely,

**ECHO UES, Inc.**

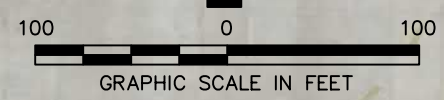


Mike Patterson, PSM  
Vice President

# Exhibit A - Terminal A

AIRSIDE  
A

Building scan -  
exterior

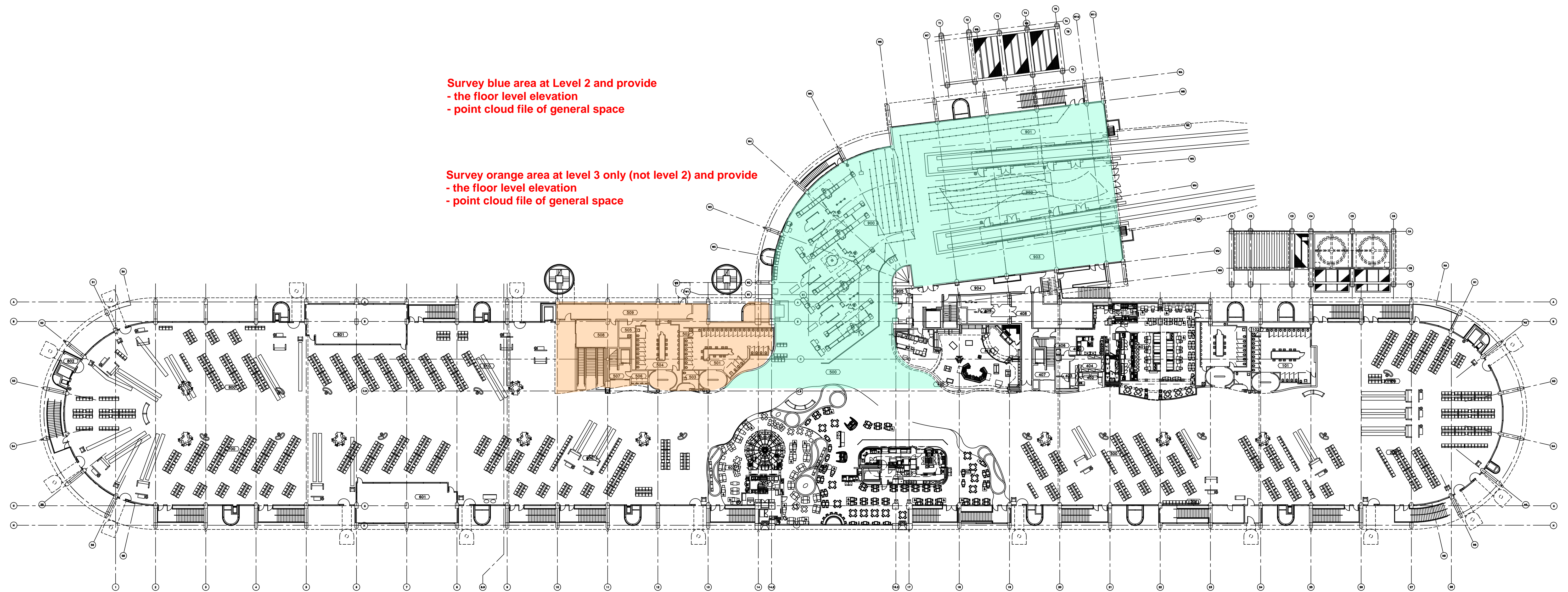


**AIRSIDE A**



**Exterior - Terminal A**

**scan and deliver point cloud for exterior only**

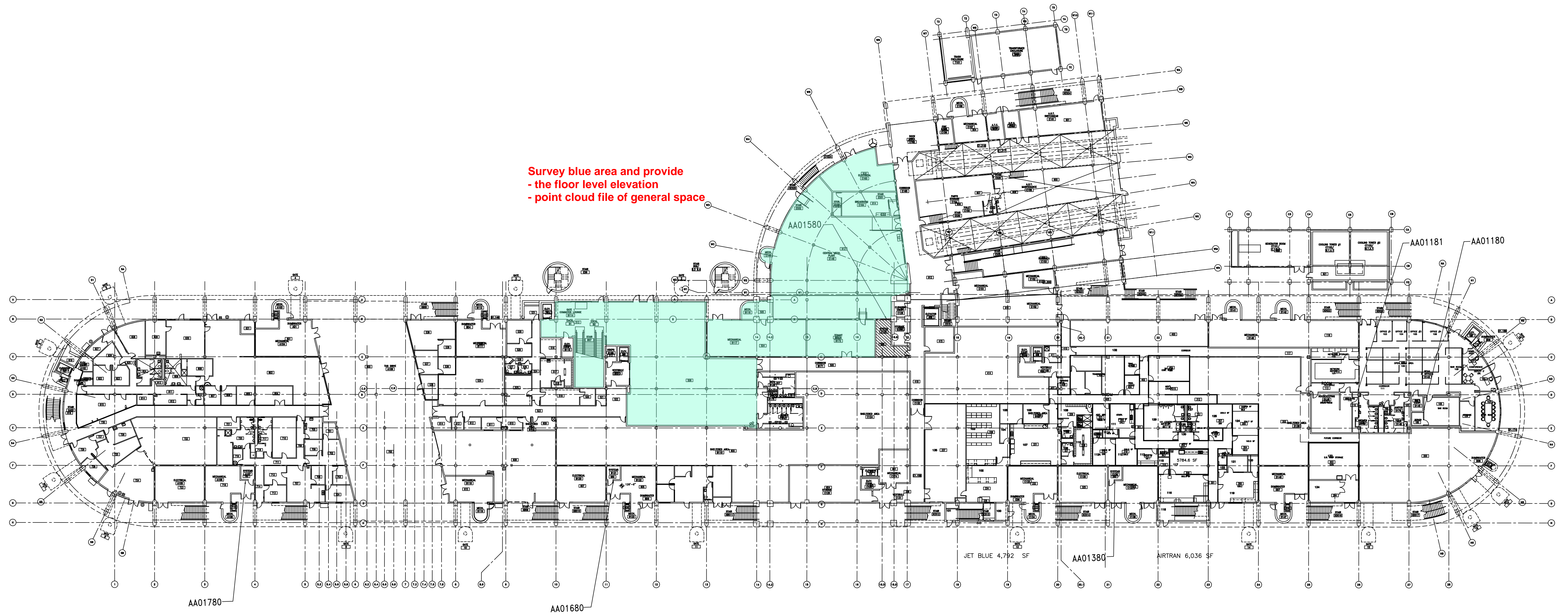


Survey blue area at Level 2 and provide  
- the floor level elevation  
- point cloud file of general space

Survey orange area at level 3 only (not level 2) and provide  
- the floor level elevation  
- point cloud file of general space

TPA Terminal A  
Boarding Level

CAD Origin "x-airside a - boarding level.dwg"  
Scale 1:30  
05/28/21

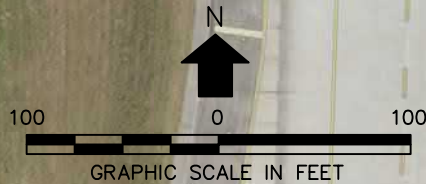


Survey blue area and provide  
- the floor level elevation  
- point cloud file of general space

TPA Terminal A  
Ramp Level

CAD Origin "A-FPAA01.dwg"  
Scale 1:30  
05/28/21

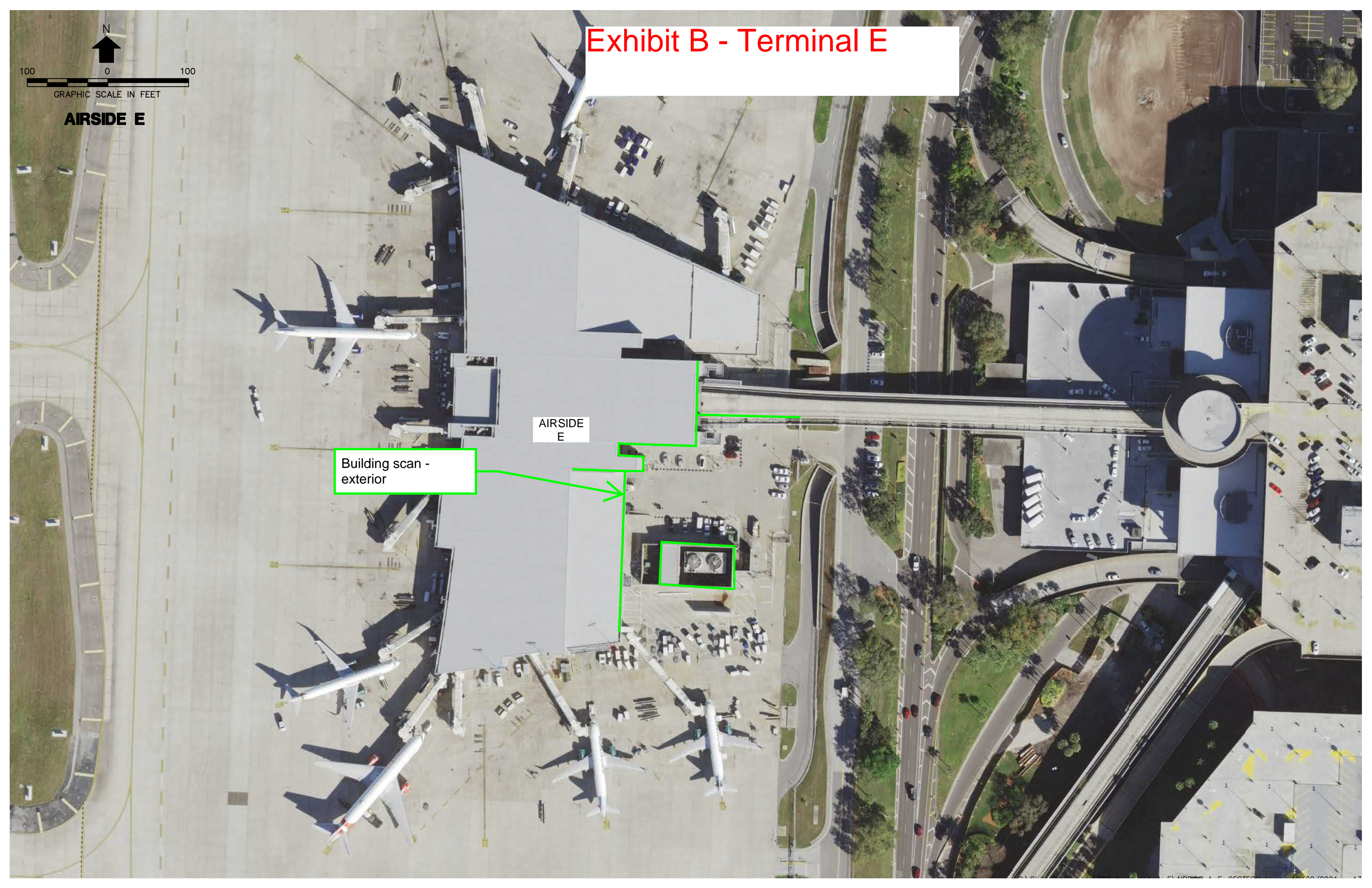
# Exhibit B - Terminal E



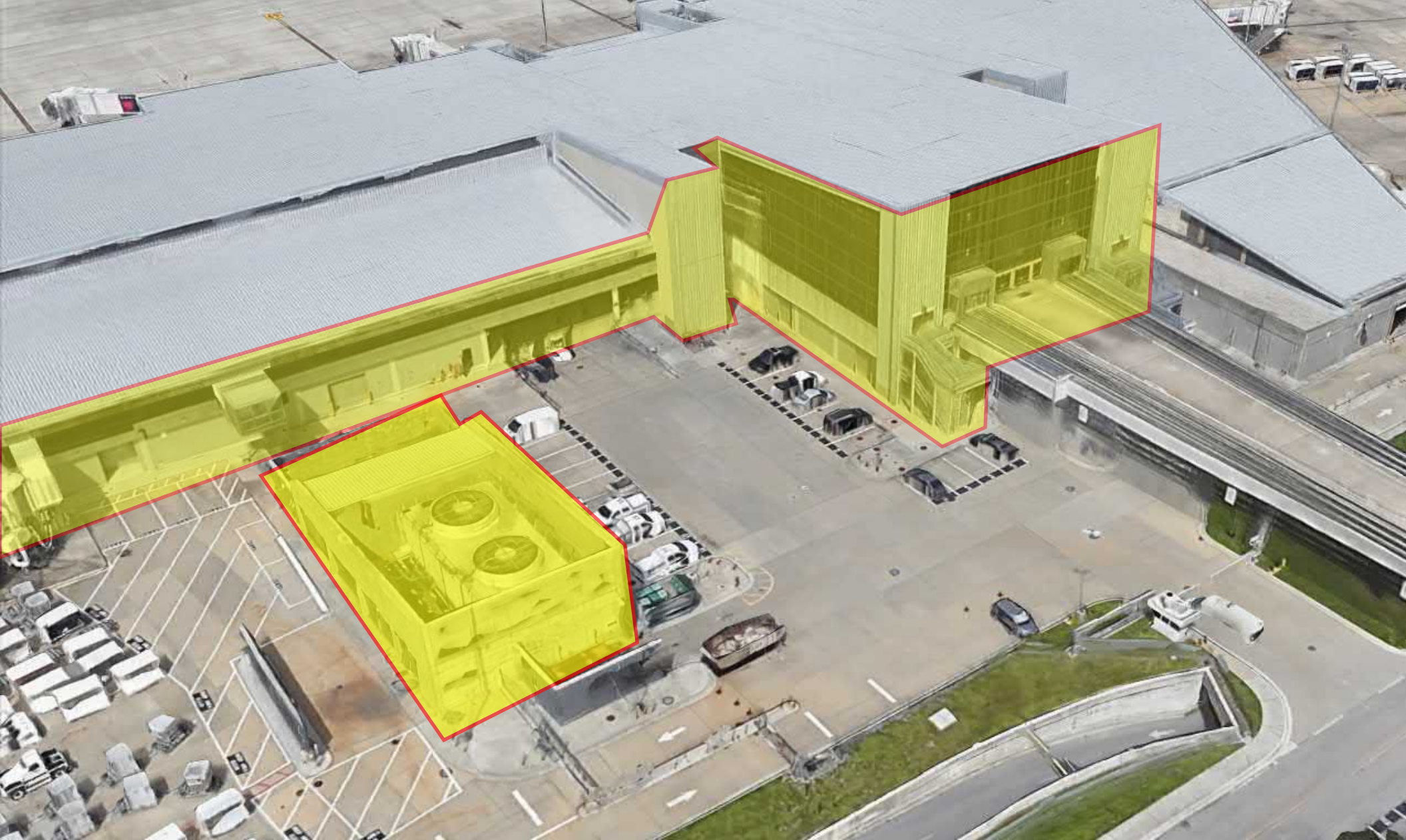
**AIRSIDE E**

AIRSIDE  
E

Building scan -  
exterior

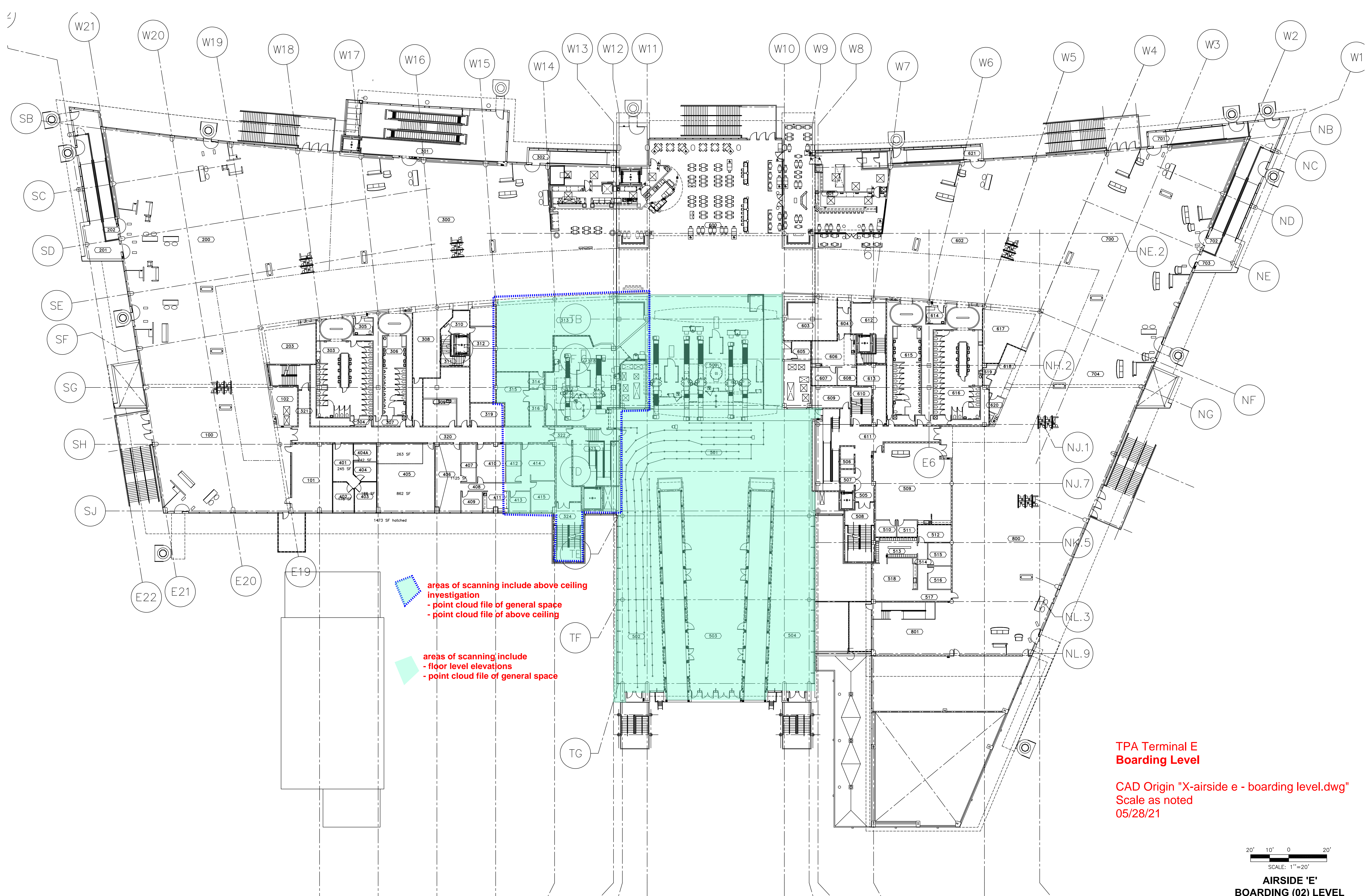


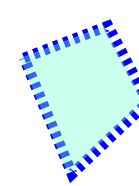





**Exterior - Terminal E**

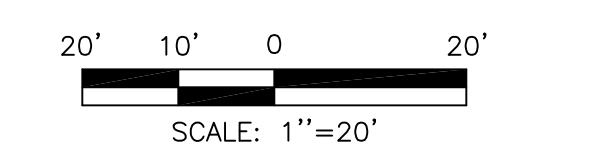
**scan and deliver point cloud for exterior only**



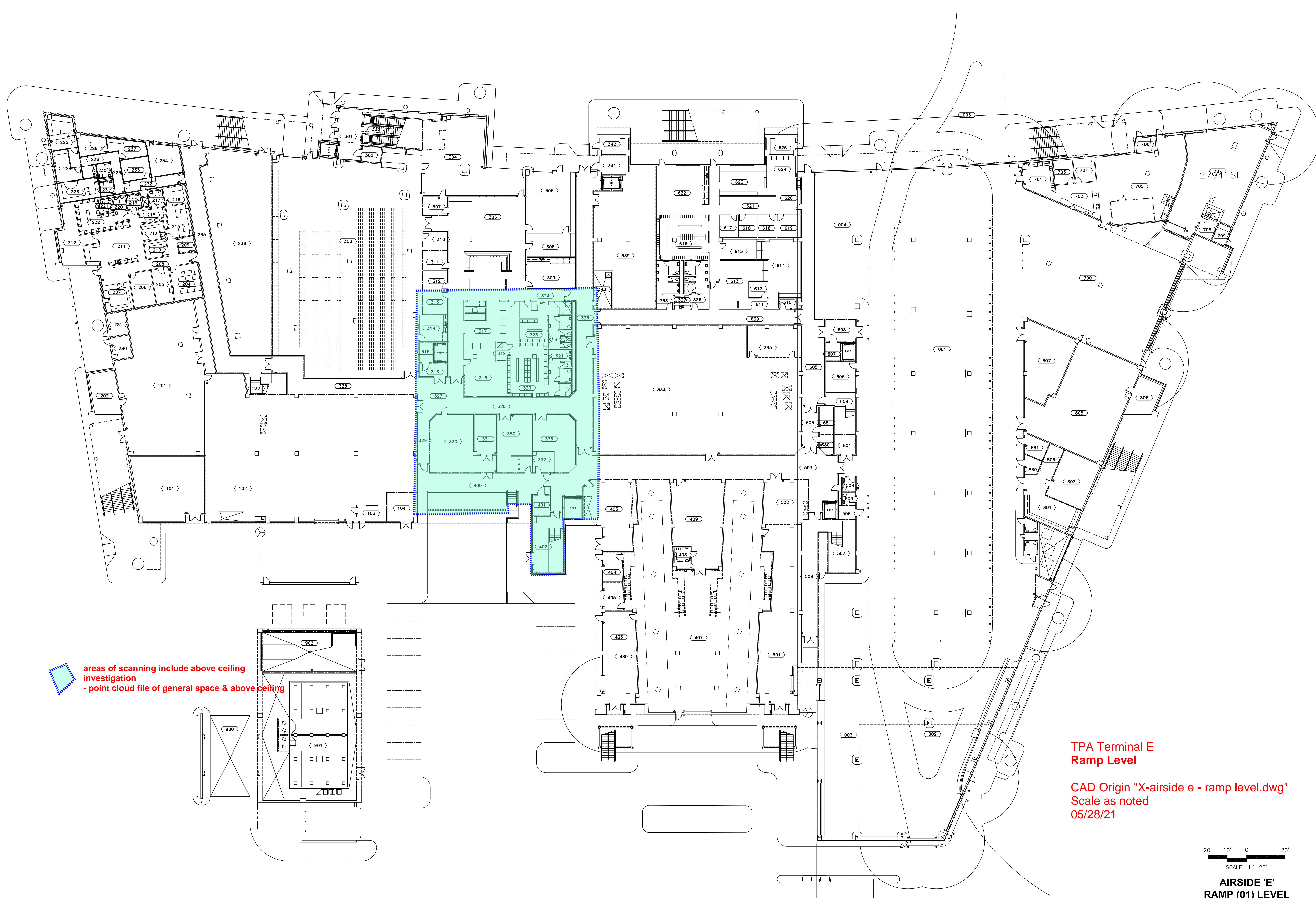
 areas of scanning include above ceiling investigation  
 - point cloud file of general space  
 - point cloud file of above ceiling

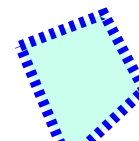
 areas of scanning include  
 - floor level elevations  
 - point cloud file of general space

**TPA Terminal E Boarding Level**  
 CAD Origin "X-airside e - boarding level.dwg"  
 Scale as noted  
 05/28/21

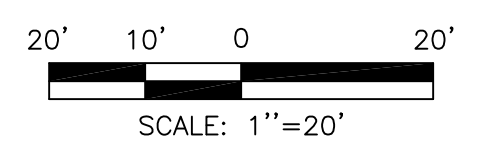


**AIRSIDE 'E'  
 BOARDING (02) LEVEL**

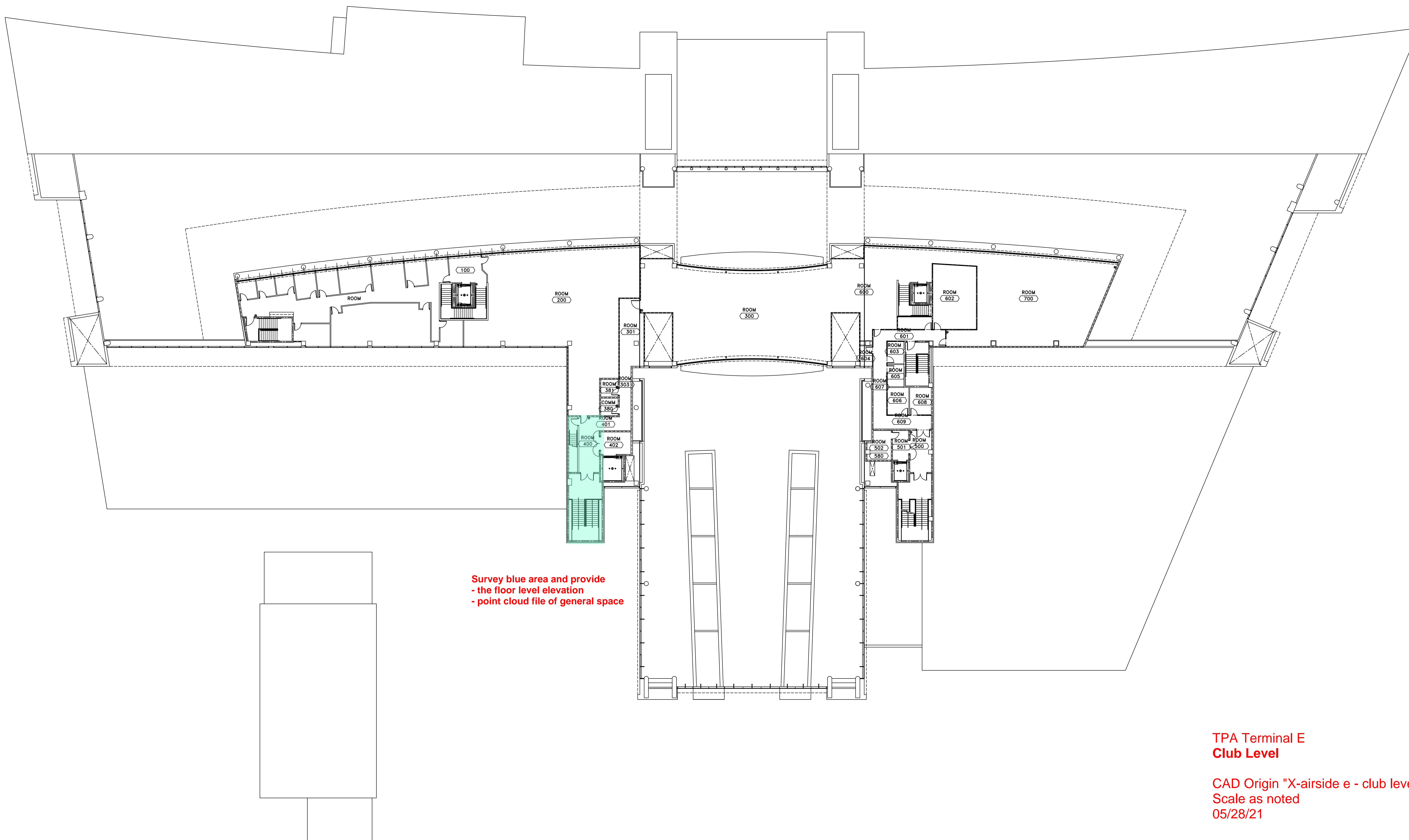



 areas of scanning include above ceiling investigation  
 - point cloud file of general space & above ceiling

**TPA Terminal E Ramp Level**  
 CAD Origin "X-airside e - ramp level.dwg"  
 Scale as noted  
 05/28/21



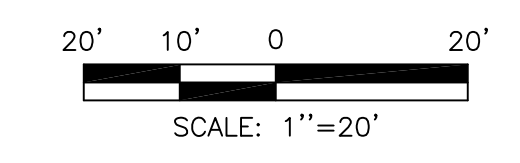
**AIRSIDE 'E'  
 RAMP (01) LEVEL**



Survey blue area and provide  
 - the floor level elevation  
 - point cloud file of general space

TPA Terminal E  
**Club Level**

CAD Origin "X-airside e - club level.dwg"  
 Scale as noted  
 05/28/21



**AIRSIDE 'E'**  
**CLUB (03) LEVEL**

# TIERRA

December 10, 2021

AECOM  
7650 W. Courtney Campbell Causeway  
Tampa, FL 33607

Attn: Mr. Dennis Combs, PE  
Ms. Kayla Wengler, RA

**Re: Geotechnical Fee Proposal  
Airsides A & E Checkpoint Expansion  
Tampa International Airport  
Hillsborough County  
HCAA project No. 8435 22  
Tierra Project No. 6511-21-402**

Mr. Combs:

Thank you for the opportunity to be part of the Suffolk / AECOM Design Build Team on the referenced project. The project will include the design and construction of the expansion of the Airside A and E screening checkpoints. Attached herein is our fee proposal for the Geotechnical Design services.

## **GEOTECHNICAL PROJECT APPROACH**

Based on the review of the published geotechnical data and information provided by AECOM, Tierra will complete the required geotechnical services for the project in accordance with the HCAA project requirements/criteria.

The geotechnical services anticipated to support the design and construction of the project are summarized as follows:

- Conduct a visual reconnaissance of the project site and coordinate utility clearance via Sunshine State One Call and maintenance of traffic (MOT).
- Perform Standard Penetration Test (SPT) borings to provide design information for the proposed structure expansions and within pavement areas identified by AECOM. Borings will consist of the following:
  - Perform 11 SPT borings on the order of 50 feet deep for the Airside A proposed checkpoint expansion.
  - Perform 11 SPT borings on the order of 50 feet deep for the Airside E proposed checkpoint expansion.
  - Perform six (6) concrete pavement cores with SPT borings to 15 below grade within the pavement area at Airside A.
  - Perform six (6) DCPs at the pavement core locations to estimate the *insitu* CBR value.

- Visually classify recovered soil samples in the laboratory. Perform laboratory tests on selected representative samples to develop the soil legend for the project using the USCS. The laboratory testing will likely include grain size analyses, Atterberg Limit testing, organic and natural moisture content determination and corrosion series testing, as required. Rock strength testing (uniaxial compression and split tensile testing) may also be performed.
- Perform engineering evaluations and analyses to develop geotechnical recommendations for the evaluation of the existing pavement area at Airside A and design and construction of the project structures.
- Provide signed and sealed geotechnical reports that summarize our geotechnical study including the field and laboratory test results, the engineering evaluations and analyses, and the geotechnical recommendations for the design and construction of the project.

## **FEE ESTIMATE - DESIGN SERVICES**

It is estimated fee for performance of the above-outlined services is **\$86,287.23** 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. Should you have any questions with regard to this proposal, please do not hesitate to contact this office.

Respectfully Submitted,

**TIERRA, INC.**



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

Attachment:

2021 Fee Schedule

Item Description	Unit	Unit Price	Quantity	Total
305-Concrete Pavement Coring - 4" Dia	Each	\$ 163.45		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 197.70	6	\$ 1,186.20
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.59		\$ -
402-Geo Auger Borings- Track	LF	\$ 13.53		\$ -
403-Geo Backhoe (Owned)	Day	\$ 930.00		\$ -
405-Geo Barge (Owned)	Day	\$ 2,650.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 55.00		\$ -
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 518.75		\$ -
416-Geo Dozer (Owned)	Day	\$ 910.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 165.46	16	\$ 2,647.36
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 61.65		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 67.70		\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 84.08		\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 94.99		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 49.59		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 54.50		\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 69.55		\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 79.37		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 314.00		\$ -
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 285.00	12	\$ 3,420.00
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.09		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 10.35		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 14.27		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 19.33		\$ -
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 5.93	1190	\$ 7,056.70
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 7.27		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 10.00		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 13.25		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 31.93		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 39.55		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 55.04		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 67.53		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 79.51		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 93.15		\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 41.84	45	\$ 1,882.80
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 48.71		\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 57.31		\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 20.83		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 26.68		\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 41.80		\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 53.91		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 14.38	1190	\$ 17,112.20
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 17.08		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 25.83		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 32.57		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 12.59		\$ -
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 15.46		\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 18.37		\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 23.19		\$ -
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 8.84	500	\$ 4,420.00
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 11.43		\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 14.16		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 18.09		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 199.55		\$ -

Item Description	Unit	Unit Price	Quantity	Total
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 218.41		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 248.57		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 282.25		\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 169.79		\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 175.19		\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 198.17		\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 230.92		\$ -
525-Geo Well Development	Hour	\$ 157.61		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,400.00		\$ -
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 1,600.00		\$ -
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,600.00		\$ -
538-Geo Clearing Equipment	Day	\$ 2,007.50		\$ -
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 9.53		\$ -
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 11.75		\$ -
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 17.67		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 337.26		\$ -
606-Mobilization Concrete Coring	Each	\$ 331.55	2	\$ 663.10
608-Geo Mobilization Drill Rig - Amphibious	Each	\$ 8,963.39		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 8,234.24		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 2,287.77		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 489.52	15	\$ 7,342.80
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 724.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,107.67		\$ -
620-Geo Mobilization of Clearing Equipment	Each	\$ 600.00		\$ -
701-MOT Attenuator Truck	Hour	\$ 190.90		\$ -
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 4.65		\$ -
706-MOT Portable Sign	Each	\$ 43.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 3.88		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 218.64		\$ -
712-MOT Support Vehicle	Hour	\$ 110.41		\$ -
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 69.64		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 547.69		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Day	\$ 150.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 226.73	6	\$ 1,360.38
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 350.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 350.00		\$ -
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00	15	\$ 900.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 43.59	30	\$ 1,307.70
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 14.65	15	\$ 219.75
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 44.11	3	\$ 132.33
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 170.91		\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 69.48	2	\$ 138.96
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 280.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 289.64		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 39.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 61.26	15	\$ 918.90
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 120.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 115.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 54.89		\$ -



Item Description	Unit	Unit Price	Quantity	Total
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 134.77	10	\$ 1,347.70
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 60.45		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 136.06	10	\$ 1,360.60
<b>Professional Services</b>				
Chief Engineer 2	Hour	\$ 219.60	10	\$ 2,196.00
Chief Scientist	Hour	\$ 166.06		\$ -
Engineer 1	Hour	\$ 145.19	38	\$ 5,517.22
Engineering Intern	Hour	\$ 103.28	50	\$ 5,164.00
Engineering Technician	Hour	\$ 82.71	25	\$ 2,067.75
Principal Engineer	Hour	\$ 226.88	8	\$ 1,815.04
Secretary/Clerical	Hour	\$ 88.44	13	\$ 1,149.72
Senior Designer	Hour	\$ 118.83	45	\$ 5,347.35
Senior Engineer 1	Hour	\$ 187.34	38	\$ 7,118.92
Senior Engineering Technician	Hour	\$ 99.75	25	\$ 2,493.75
Senior Scientist	Hour	\$ 141.22		\$ -
<b>Total Estimated Fee</b>				<b>\$ 86,287.23</b>

December 10, 2021

**AECOM**

ATTN: Dennis Combs, PE  
7650 West Courtney Campbell Causeway  
Tampa, FL 33607

**RE: Airside A and Airside E Security Checkpoint Expansion  
Price Proposal for Designating & Locating Services**

Dear Mr. Combs:

In accordance with your request, Element Engineering Group, LLC (ELEMENT) is pleased to submit our proposal to provide subsurface utility engineering (SUE) designating and locating services to AECOM.

**DESCRIPTION OF SERVICES**

**Subsurface Utility Engineering (SUE)**

Element will provide technicians, equipment, and special tools to designate and mark the horizontal and vertical position with paint and/or flags all utilities detected and/or requested with EM, GPR and non-invasive excavation methods at each of the requested locations shown in red on the attached exhibits.

**SUE Designating (Quality Level B)**

Electromagnetic (EM) induction is a method in which a transmitter signal is applied by directly coupling to a metallic target. A receiver is then 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, Very Low Frequency (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, we may not be able to locate using EM techniques. Ground Penetrating Radar (GPR) uses a high frequency radio signal that is transmitted into the ground and reflected signals are returned to the receiver for storage on digital media. The computer measures the time taken for a pulse to travel to and from the target indicating its depth and location. The reflected signals are interpreted by the system and displayed on the unit's LCD panel.

**SUE Locating (Quality Level A)**

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, depth, diameter and material type can be obtained to verify designation and/or potential utility conflicts with the proposed design.

Utilization of the above equipment and methods is the industry recognized procedure for finding and locating underground utilities and features. Although effective and reliable, there is the possibility that all utilities may not be detected due to environmental conditions, soil conditions, water table, excessive depth and/or feature makeup.

**Assumptions (Designating – SUE Level B)**

- Estimate is based on 1 acre for Airside A and 1 acre for Airside E
- Utilities we anticipate on this project (HCAA, TECO electric, FAA, FOC, and Jet Fuel)

**Assumptions (Locating – SUE Level A)**

- Estimate on 26 Locates at 4 locates per day.
- Each locate will require a concrete coring and replacement of core using high strength concrete mixed on site by ELEMENT SUE crews

**Field and Office Effort for completion of CADD File (Included in loaded rate)**

- Processing all field collected data.
- QA/QC of all files and reports.
- Attend project associated meetings.
- Gathering utility record drawing or as-builts

**Office Effort for completion of Signed and Sealed Plan Sets**

- Complete signed and sealed plan set for SUE data

**Field and Office Effort for completion of CADD File**

<u>Item Description</u>	<u>Crew Days</u>	<u>Staff Hours</u>	<u>Rate</u>	<u>Sub-Total</u>
Designating Crew	7.0	N/A	\$2,804.18	\$19,629.26
Locating Crew	7.0	N/A	\$3,049.28	\$21,344.96
Survey Crew	5.0	N/A	\$2,578.32	\$12,891.60

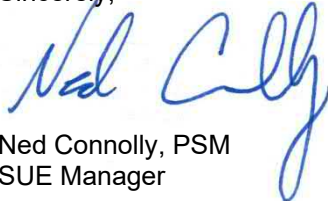
**Office Effort for completion of Signed and Sealed Plan Sets**

<u>Item Description</u>	<u>Crew Days</u>	<u>Staff Hours</u>	<u>Rate</u>	<u>Sub-Total</u>
SUE Project Manager / PSM	N/A	10.0	\$209.29	\$2,092.90
CADD Technician	N/A	30.0	\$101.74	\$3,052.20
			<b>TOTAL</b>	<b>\$59,010.92</b>

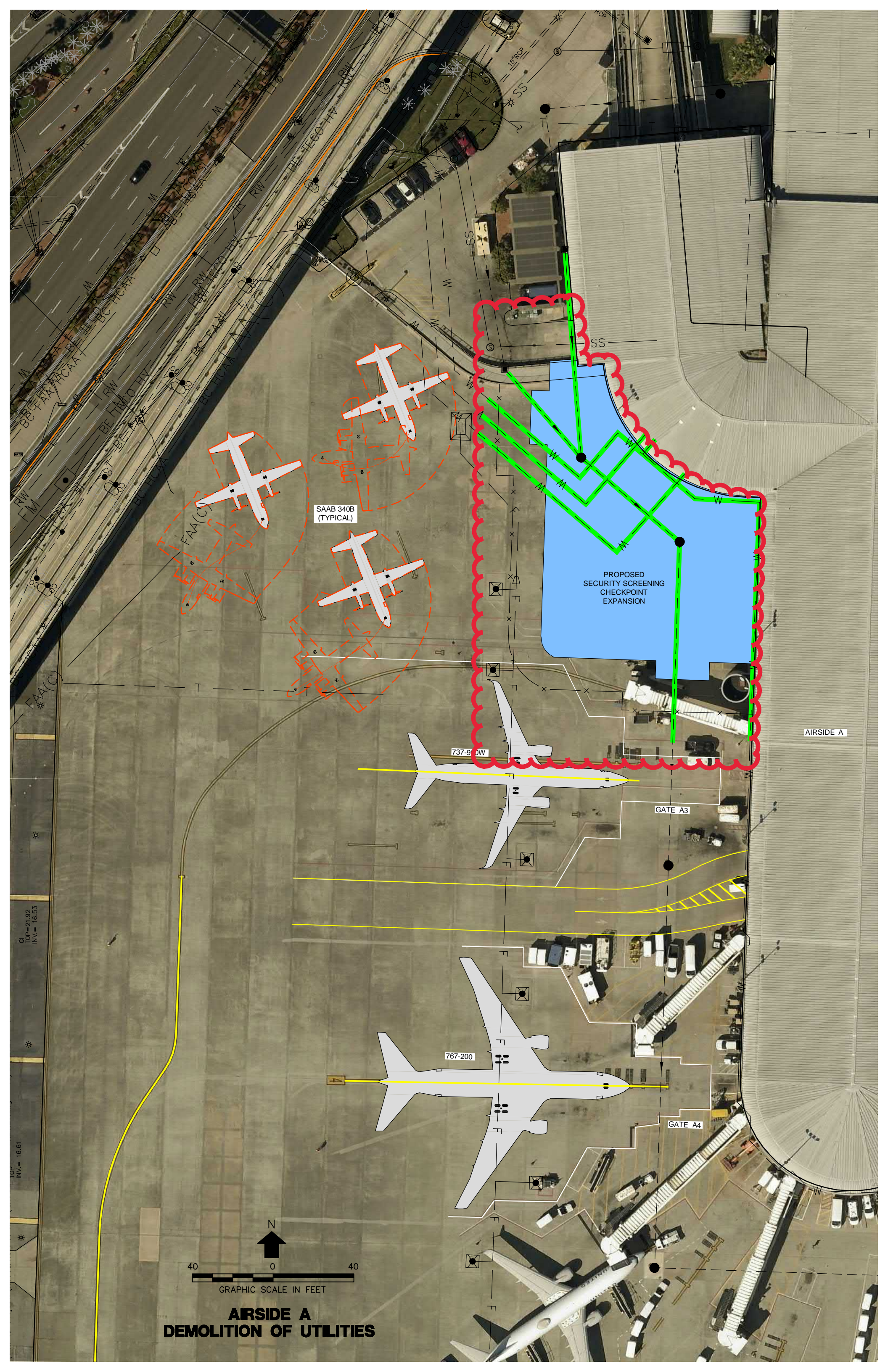
This proposal is valid for 30 days. Final deliverable will be 60 days after Notice to Proceed.

If you have any questions or need additional information, please do not hesitate to contact me. Again, we appreciate this opportunity and look forward to working with you on this project.

Sincerely,



Ned Connolly, PSM  
SUE Manager



SAAB 340B  
(TYPICAL)

PROPOSED  
SECURITY SCREENING  
CHECKPOINT  
EXPANSION

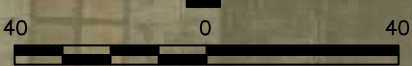
AIRSIDE A

737-900W

GATE A3

767-200

GATE A4



GRAPHIC SCALE IN FEET

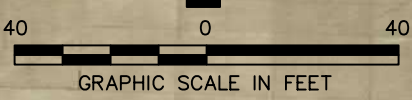
# AIRSIDE A DEMOLITION OF UTILITIES

AIRSIDE E

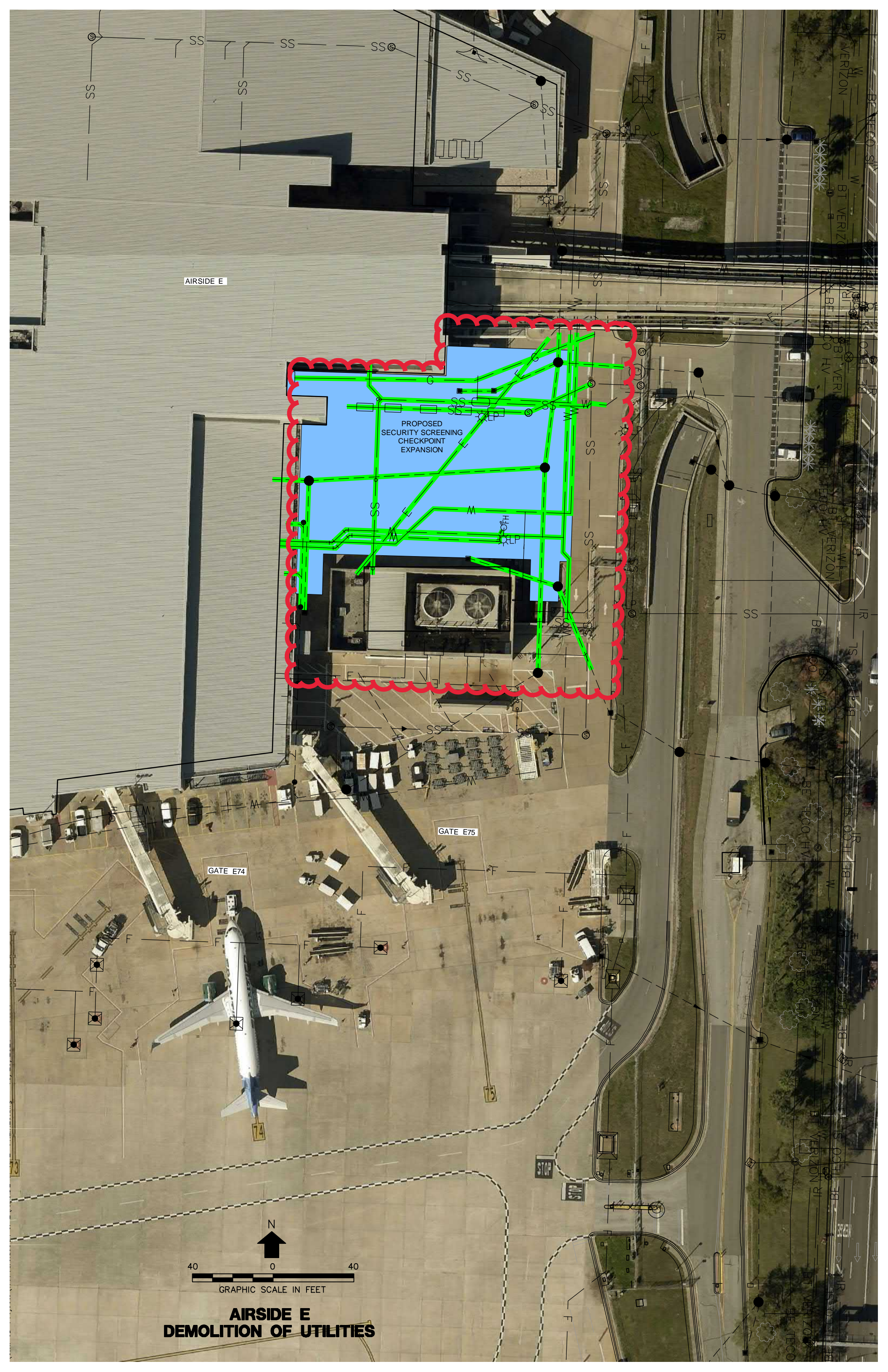
PROPOSED SECURITY SCREENING CHECKPOINT EXPANSION

GATE E74

GATE E75



**AIRSIDE E  
DEMOLITION OF UTILITIES**





Suffolk  
**AECOM**

## INSURANCE REQUIREMENTS

Design-Builder agrees to provide its full limits for every policy specified herein, without restriction or reduction, and shall require the same of all of its contractors, subcontractors, consultants, and subconsultants at each tier. To the extent that there is any exclusion, deficiency, reduction, or gap in a policy, the Design-Builder agrees to remain responsible and obligated to make the Authority whole as if the Design-Builder and all of its contractors, subcontractors, consultants, and subconsultants at each tier fully met the insurance requirements of the contract. Every policy shall be maintained without interruption or amendment throughout the life of this Contract and for any period of extension described herein. In the event the Design-Builder becomes in default of any requirements the Owner reserves the right to take whatever actions deemed necessary to protect its interests. The Design-Builder shall require every policy, other than Workers' Compensation, Employer's Liability and Professional Liability, to be endorsed to include the Owner, members of the Owner's governing body, and the Owner's officers, volunteers, agents, volunteers and its employees as well as the State of Florida, Department of Transportation, including the Department's officers and its employees as additional insureds. There shall be no language in any policy, endorsement, or exclusion that reduces or limits recovery to any amount less than the full policy limits. The Design-Builder will submit evidence that it and all subcontractors, consultants, and subconsultants at each tier has complied with this provision to the Owner before any work or service commences under this contract. Such evidence shall describe the full policy limits along with any deductible, retentions, attachment point, and any deviation from a fully insured program.

### Workers' Compensation/Employer's Liability

The Design-Builder shall not allow its coverage or that of any of its contractors, subcontractors, consultants, or subconsultants at each tier to drop below or become encumbered below the following minimum limits of insurance:

Part One:	"Florida Statutory"
Part Two:	
Each Accident	\$1,000,000
Disease – Policy Limit	\$1,000,000
Disease – Each Employee	\$1,000,000

It is the responsibility of the Design-Builder to ensure that all entities and person(s) working for or behalf of itself or any subcontractor, subconsultant, independent contractor, sole proprietorship, partner, "leased employee", person obtained through a professional employer organization ("PEO's"), operator, and any personnel obtained under an agreement, including equipment rental agreements have Workers' Compensation Insurance in accordance with Florida's Workers' Compensation law.

### Commercial General Liability

The Design-Builder will maintain and ensure that all contractors, subcontractors, consultants, and subconsultants at each tier has Commercial General Liability insurance providing continuous coverage for all liability resulting out of, or in connection with, any ongoing operations performed by, including the use or occupancy of Owner premises, or on behalf of the Design-Builder under this Contract. The insurance required under this contract shall be the full policy limits without reduction or limitation.

## INSURANCE REQUIREMENTS

The limits of coverage required shall apply fully to the work or operations performed under this Contract and may not be shared with or diminished by claims unrelated to this Contract. The coverage cannot contain any deductible, retention or self-insurance without prior approval of the Owner and must clearly identify any such deductible, retention or other than a fully insured plan. Any deductible, retention, or self-insurance will be the responsibility of and paid by the First Named Insured and not by the Owner.

Such coverage shall be primary as to any other available insurance and shall not be more restrictive than the coverage afforded to the Named Insured. It is to be written on an "occurrence" basis and shall include Products/Completed Operations coverage on a form no more restrictive than ISO Form CG 00 01 10 01. Additional insured coverage shall be provided on a form no more restrictive than ISO Form CG 20 10 10 01 and CG 20 37 10 01. The policy or policies shall not include a Contractual Liability Limitation (ISO CG 21 39), a Limitation of Coverage to Designated Premises or Project (CG 21 44), or any endorsement that similarity restricts or limits coverage to the Owner. The Design-Builder shall not allow its coverage or that of any of its contractors, subcontractors, consultants, or subconsultants at each tier to drop below or become encumbered below the following minimum limits of insurance:

	<u>Contract Specific</u>
General Aggregate	\$10,000,000
Each Occurrence	\$10,000,000
Personal and Advertising Injury	\$10,000,000
Products and Completed Operations	\$10,000,000

Products and Completed operations coverage will be maintained for a period of five (5) years from the date of termination of this Contract.

### Business Auto Liability

The Design-Builder agrees to provide its full policy limits for commercial auto coverage, without restriction or reduction, on all owned, hired and non-owned vehicles and shall require the same of all contractors, subcontractors, consultants, and subconsultants at each tier. Coverage shall be provided on a form no more restrictive than ISO Form CA 00 01. The Design-Builder shall not allow its coverage or that of any of its contractors, subcontractors, consultants, or subconsultants at each tier to drop below or become encumbered below the following minimum limits of insurance:

Each Occurrence – Bodily Injury and Property Damage Combined	\$10,000,000
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### Professional Liability

The Design-Builder agrees to provide its full policy limits for its professional liability exposures, without restriction or reduction, and shall require the same of all contractors, subcontractors, consultants, and subconsultants at each tier that provide professional services, work, or advice as it relates to this agreement. Such insurance will be maintained by the Design-Builder and by all other required contractors, subcontractors, consultants, and subconsultants at each tier without interruption or amendment throughout the life of this Contract and for a period of five (5) years following termination of the Contract. Any deductible, retention or self-insured amount must be approved in writing by the Owner. All policies shall be endorsed to include contractual liability. Coverage will include all work of the Design-Builder, and all contractors, subcontractors, consultants, and subconsultants at each tier that



## INSURANCE REQUIREMENTS

provide professional services, work, or advice as it relates to this agreement, including but not limited to areas with possible environmental impact, without any exclusions unless approved in writing by the Owner. The Design-Builder shall not allow its coverage or that of any of its contractors, subcontractors, consultants, or subconsultants at each tier required to have this coverage to drop below or become encumbered below the following minimum limits of insurance:

Each Occurrence	\$10,000,000
Annual Aggregate	\$10,000,000

### Environmental Impairment (Pollution) Liability

N/A

### Utility and Railroad Protective Liability

When work performed under this Contract is on or in the vicinity of utility-owned property or facilities the utility shall also be listed as an additional insured along with the Owner and State of Florida, Department of Transportation in the manner as described herein.

If the work performed is on or in the vicinity of a railroad right-of-way, including any encroachments thereon from such work or operations, the entities and persons involved shall require, procure, and maintain Railroad Protective Liability Coverage. Such coverage shall be no more restrictive than that provided by the latest occurrence form edition of the Railroad Protective Liability Coverage (ISO Form CG 00 35) as filed for use in the State of Florida.

Design-Builder agrees to provide its full policy limits for any Utility or Railroad, without restriction or reduction, and shall require the same of all of its contractors, subcontractors, consultants, and subconsultants at each tier. The Design-Builder shall not allow its coverage or that of any of its contractors, subcontractors, consultants, or subconsultants at each tier required to have this coverage to drop below or become encumbered below \$2,000,000 combined single limit for bodily injury and/or property damage for each occurrence or have an annual aggregate of less than a \$6,000,000, inclusive of amounts provided by an umbrella or excess policy.

The coverage shall include the railroad and utility along with the Owner and State of Florida, Department of Transportation as additional insureds in the manner as described herein.

## CONTRACTUAL INSURANCE TERMS AND CONDITIONS

This Section incorporates the Owner's Standard Procedure S250.66 and establishes the insurance terms and conditions associated with contractual insurance requirements. This Section is applicable to all Design-Builders with Authority contracts including every contractor, subcontractor, consultant, and subconsultant at each tier. Unless otherwise provided herein, any exceptions to the following conditions or changes to required coverages or coverage limits must have prior written approval from the Owner.

### INSURANCE COVERAGE:

#### A. Procurement of Coverage:

## INSURANCE REQUIREMENTS

With respect to each of the required coverages, the Design-Builder will, at the Design-Builder's expense, procure, maintain and keep in force in no lesser amount and type of insurance conforming to the minimum requirements set forth in the Contract. The Design-Builder shall further require that all contractors, subcontractors, consultants, and subcontractors at each tier satisfy and meet the all requirements of this Contract and Owner's Standard Procedure S250.66. All Coverage will be provided by insurance companies eligible to do business in the State of Florida and having an AM best rating of A- or better and a financial size category of VII or better. Utilization of non-rated companies, companies with AM Best ratings lower than A- or a financial size category lower than VII must be submitted for approval prior to use. Such insurance will be no more restrictive than is required by this Contract. The Owner retains the right to approve or disapprove the use of the any insurer, policy, risk-transfer or assumption program but in all cases the coverage, policy, or program should not be more restrictive than the latest edition of the Form filed for use in the State of Florida by the Insurance Services Office (ISO), without restrictive endorsements.

### B. Term of Coverage:

Except as otherwise specified in the contract, the insurance will commence on or prior to the effective date of the Contract and will be maintained in force throughout the duration of the Contract and for any period of extension described herein. If a policy is written on a claims-made form, the retroactive date must be shown and this date must be before the earlier of the date of the execution of the Contract or the beginning of contract work, and the coverage must respond to all claims reported within three years following the period for which coverage is required unless a longer period of time is otherwise stated in the Contract.

### C. Reduction of Aggregate Limits:

If the general or aggregate limit for any policy is exhausted, the Design-Builder and all of its contractors, subcontractors, consultants, and subconsultants at each tier will immediately take all possible steps to have it fully reinstated. The Commercial General Liability policies and any other policy that can be so endorsed shall include a per policy endorsement providing that the limits of such insurance specified in the Contract shall apply solely to the work under the Contract without erosion of such limits by other claims or occurrences.

#### 1. Cancellation Notice

Each insurance policy will be specifically endorsed to require the insurer to provide the Owner written notice within ten days of any cancellation, notice of cancellation, lapse, renewal, or proposed change to any policy or coverage described herein. The endorsement will specify that such notice will be sent to:

Hillsborough County Aviation Authority  
Attn.: Chief Executive Officer  
Tampa International Airport  
Post Office Box 22287  
Tampa, Florida 33622

### D. No waiver by approval/disapproval:

## INSURANCE REQUIREMENTS

The Owner accepts no responsibility for determining whether the Design-Builder or any contractor, subcontractor, consultant, or subconsultant at each tier is in full compliance with the insurance and coverage required by this Contract. The Owner's or State of Florida, Department of Transportation's approval or failure to disapprove any policy, coverage, or ACORD Certificate does not relieve or excuse any obligation to procure and maintain the insurance required herein, nor does it serve as a waiver of any rights or defenses the Owner or Department may have. To the extent that there is any exclusion, deficiency, reduction, or gap in a policy, the Design-Builder agrees to remain responsible and obligated to make the Authority whole as if the Design-Builder and all of its contractors, subcontractors, consultants, and subconsultants at each tier fully met the insurance requirements of the contract.

### E. Future Modifications – Changes in Circumstances:

#### 1. Changes in Coverage and Required Limits of Insurance

The coverage and minimum limits of insurance required by the Contract are based on circumstances in effect at the inception of the Contract. If in the opinion of the Owner, circumstances merit a change in such coverage or minimum limits of insurance required by the Contract, the Owner may change the coverage and the minimum limits of insurance required, and the Design-Builder will, within 60 days of receipt of written notice of a change in the coverage and the minimum limits required, comply with such change and provide evidence of such compliance in the manner required by the Contract. Provided, however, that no change in the coverage or minimum limits of insurance required will be made by the Owner until at least two years after inception of this Contract. Subsequent changes in the coverage or minimum limits of insurance will not be made by the Owner until at least two years after any prior change by the Owner unless extreme conditions warrant such change and are agreeable to both parties. Any such change or modification in coverage or limits shall also apply to the contractors, subcontractors, consultants, and subcontractors at each tier of the Design-Builder.

If in the opinion of the Owner compliance with the insurance requirements is not commercially practicable for the Design-Builder, at the written request of the Design-Builder, the Owner may, at its sole discretion and subject to any conditions it deems appropriate, relax or temporarily suspend, in whole or in part, the insurance requirements which would otherwise apply to the Design-Builder. Any such modification will be subject to the prior written approval of the Owner, and subject to the conditions of such approval.

The Design-Builder is responsible for verifying and monitoring the insurance coverage and policies of all contractors, subcontractors, consultants, and subconsultants at each tier to ensure compliance during the entire Contract and for any period of coverage extension described herein. Any circumstances that merit a change in such coverage or the minimum limits of insurance required or the requirements become commercially practicable for any contractor, subcontractor, consultant, or subconsultant at each tier then the Design-Builder will address those in the same manner as described above.

### F. Proof of Insurance – Insurance Certificate:

## INSURANCE REQUIREMENTS

### 1. Prior to Work, Use or Occupancy of Owner's Premises

The Design-Builder, its contractors, subcontractors, consultants, and subconsultants at each tier will not use or occupy Owner's premises in connection with the Contract until the required insurance is in force, preliminary evidence of insurance acceptable to the Owner has been provided to the Owner and the Owner has granted permission to the Design-Builder to commence work or use or occupy the premises in connection with the Contract. The Design-Builder will certify that it is in compliance to Owner and will verify that all contractors, subcontractors, consultants, and subconsultants at each tier are and remain in compliance.

### 2. Proof of Insurance Coverage

As preliminary evidence of compliance with the insurance required by the Contract, the Design-Builder will furnish the Owner with an ACORD Certificate of Liability Insurance reflecting the required coverage described herein and it shall be provided prior to the execution of the Contract, and prior to all renewal periods which occur before final acceptance of the work. Written notice must be provided to the Owner, State of Florida, Department of Transportation, and all other additional Insureds required by this Contract within ten days of any cancellation, notice of cancellation, lapse, renewal, or proposed change to any policy or coverage described herein.

The ACORD Certificate of Liability Insurance must:

- a. Be signed by an authorized representative of the insurer. Design-Builder shall furnish the entity with endorsements effecting coverage as required by this Article. The endorsements are to be signed by a person authorized by insurer to bind the coverage on its behalf. If requested by the Owner, the Design-Builder will, within 30 days after receipt of written request from the Owner, provide the Owner, or make available for review, a certified complete copy of the policies of insurance. The Design-Builder may redact those portions of the insurance policies that are not relevant to the coverage required by the Contract. The Design-Builder will provide the Owner with renewal or replacement evidence of insurance, acceptable to the Owner, prior to expiration or termination of such insurance.
- b. State that: "Hillsborough County Aviation Authority, members of the Authority's governing body and the Authority's officers, volunteers, and its employees, as well as the State of Florida, Department of Transportation, including the Department's officers and its employees are additional insureds for the coverages required by all policies as described above other than workers compensation and professional liability."
- c. the insurers for all policies have waived their subrogation rights against the Owner, the State of Florida, Department of Transportation, and name any railroads and utilities as described in the Contract;
- b. Indicate that the certificate has been issued in connection with the Contract;

## INSURANCE REQUIREMENTS

- c. Indicate the amount of any deductible or self-insured retention applicable to all coverages;
- d. Identify the name and address of the additional insured as:

Hillsborough County Aviation Authority  
Attn.: Chief Executive Officer  
Tampa International Airport  
Post Office Box 22287  
Tampa, Florida 33622;  
and

- e. Be signed and dated using approved methods by an individual who is an authorized representative of each insurer whose insurance is the subject of the certificate and who is authorized by each such insurer to issue the certificate of insurance as modified. Facsimile signatures are acceptable.

The Owner's or State of Florida, Department of Transportation's approval or failure to disapprove any policy, coverage, form, or ACORD Certificate does not relieve or excuse any obligation to procure and maintain the insurance required herein, nor does it serve as a waiver of any rights or defenses the Owner or Department may have. This provision shall apply to the Design-Builder and to every contractor, subcontractor, consultant, and subconsultant at each tier.

If requested by the Owner, the Design-Builder will, within 15 days after receipt of written request from the Owner, provide the Owner, or make available for review, a certified complete copy of the policies of insurance. The Design-Builder may redact those portions of the insurance policies that are not relevant to the coverage required by the Contract. The Design-Builder will provide the Owner with renewal or replacement evidence of insurance, acceptable to the Owner, prior to expiration or termination of such insurance.

### G. Deductibles, Self-Insurance, Alternative Risk or Insurance Programs:

1. All deductibles, as well as all self-insured retentions or any scheme, to include the use of a captive, trust, pooled program, parametric, investment-linked insurance, or any other than a fully insured program must be approved by the Owner. The Design-Builder agrees to provide all documentation necessary for the Owner to review the deductible, self-insurance, or alternative program.
2. The Design-Builder will pay on behalf of the Owner, any member of the Owner's governing body, or any officer or employee of the Owner, any deductible, self-insured retention (SIR), or difference from a fully insured program which, with respect to the required insurance, is applicable to any claim by or against the Owner, any member of the Owner's governing body, or any officer or employee of the Owner.
3. The agreement by the Owner to allow the use of a deductible, self-insurance program, or alternative program will be subject to periodic review by Owner. If, at any time, the Owner deems that the continued use of a deductible, self-insurance, or alternative program by the Design-Builder should not be permitted, the Owner may, upon 60 days written notice to the

## INSURANCE REQUIREMENTS

Design-Builder, require the Design-Builder to replace or modify the deductible, self-insurance, or alternative program in a manner satisfactory to the Owner.

4. Any deductible amount, self-insurance, or alternative program's retention will be included and clearly described on the certificate prior to any approval by the Owner. This is to include fully insured programs as to a zero deductible per the policy. Owner reserves the right to deny any certificate not in compliance with this requirement.

### H. Design-Builder's Insurance Primary:

The insurance required by this Contract will apply on a primary and noncontributory basis. The Design-Builder will ensure that it and all contractors, subcontractors, consultants, and subconsultants at each tier are and remain in compliance with this provision. Any insurance maintained by the Owner will be excess and will not contribute to the insurance provided by or on behalf of the Design-Builder.

### I. Applicable Law:

With respect to any contract entered into by the Owner with a value exceeding \$10,000,000, if any required policy or program is: (i) issued to a policyholder outside of Florida or (ii) contains a "choice of law" or similar provision stating that the law of any state other than Florida shall govern disputes concerning the policy, then such policy or program must be endorsed so that Florida law (including but not limited to Part II of Chapter 627 of the Florida Statutes) will govern any and all disputes concerning the policy or program in connection with claims arising out of work performed pursuant to the Contract. The Design-Builder will ensure that all contractors, subcontractors, consultants, and subconsultants at each tier are contractually bound and remain in compliance with this provision.

### J. Waiver of Subrogation:

The Design-Builder, for itself and on behalf of its insurers, to the fullest extent permitted by law without voiding the insurance required by the Contract, waives all rights against the Owner, members of the Owner's governing body and the Owner's officers, volunteers and its employees, as well as the State of Florida, Department of Transportation, including the Department's officers and its employees for damages or loss to the extent covered and paid for by any insurance maintained by the Design-Builder. The Design-Builder shall further require that all contractors, subcontractors, consultants, and subconsultants at each tier include the following in every contract and on each policy the following:

"Hillsborough County Aviation Authority, members of the Authority's governing body and the Authority's officers, volunteers, and its employees, as well as the State of Florida, Department of Transportation, including the Department's officers and its employees are additional insureds for the coverages required by all policies as described above other than workers compensation and professional liability."

### K. Design-Builder's Failure to Comply with Insurance Requirements:

#### 1. Owner's Right to Procure Replacement Insurance

If, after the inception of this Contract, the Design-Builder or any of its contractors, subcontractors, consultants, or subconsultants fails to fully comply with the insurance requirements of the Contract,

## INSURANCE REQUIREMENTS

in addition to and not in lieu of any other remedy available to the Owner provided by the Contract, the Owner may, at its sole discretion, procure and maintain on behalf of the Design-Builder, insurance which provides, in whole or in part, the required insurance.

### 2. Replacement Coverage at Sole Expense of Design-Builder

The entire cost of any insurance procured by the Owner pursuant to this section will be paid by the Design-Builder. At the option of the Owner, the Design-Builder will either directly pay the entire cost of the insurance or immediately reimburse the Owner for any costs incurred by the Owner, including all premiums, fees, taxes, and 15% for the cost of administration.

#### a. Design-Builder to Remain Fully Liable

The Design-Builder agrees to remain fully liable for full compliance with the insurance requirements in the Contract and shall require the same of all of its contractors, subcontractors, consultants, and subconsultants at each tier. To the extent that there is any exclusion, deficiency, reduction, or gap in a policy, the Design-Builder agrees to remain responsible and obligated to make the Authority whole as if the Design-Builder and all of its contractors, subcontractors, consultants, and subconsultants at each tier fully met the insurance requirements of the contract.

#### b. Owner's Right to Terminate, Modify, or Not Procure

Any insurance procured by the Owner pursuant to this section is solely for the Owner's benefit and is not intended to replace or supplement any insurance coverage which otherwise would have been maintained by the Design-Builder or by any of its contractors, subcontractors, consultants, or subconsultants at each tier. Owner is not obligated to procure any insurance pursuant to these requirements and retains the right, at its sole discretion, to terminate or modify any such insurance which might be procured by the Owner pursuant to this section.



Hillsborough County Aviation Authority  
PO Box 22287  
Tampa, FL 33622  
Telephone: 813-870-8700

## E-Verify Certification

### Airsides A and E Security Screening Checkpoint Expansion

This certification is required in accordance with the State of Florida, Office of the Governor, Executive Order Number 11-116 (Verification of Employment Status).

The State of Florida, Office of the Governor, Executive Order Number 11-116 (Verification of Employment Status), and any projects with Florida Department of Transportation (FDOT) funding as part of a Joint Participation Agreement between FDOT and the Authority, require, as a condition of all contracts for the provision of goods or services, an express requirement that contractors utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the contractor during the term of the contract, and an express requirement that contractors include in subcontracts the requirement that subcontractors performing work or providing services pursuant to the contract utilize the E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

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Company: \_\_\_\_\_ FID or EIN No.: \_\_\_\_\_

Address: \_\_\_\_\_ City/State/Zip: \_\_\_\_\_

I, \_\_\_\_\_, as a representative of \_\_\_\_\_,

certify and affirm that this company will comply with the E-Verification requirements of Executive Order Number 11-116.

\_\_\_\_\_  
Signature Title

\_\_\_\_\_  
Printed Name Date

[Affix Corporate Resolution if not signed by the President or Vice President of the Company]