

**ADDENDUM NO. 1**  
**TO THE BID DOCUMENTS**  
**FOR THE**  
**ATCT RENOVATIONS PHASE II- GLASS REPLACEMENT**  
**BOCA RATON AIRPORT**  
**BOCA RATON, FLORIDA**

**Project funded by:**

**FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)**

**October 15, 2018**

**PAGE 1 of 1**

**TO: ALL HOLDERS OF CONTRACT DOCUMENTS**

- a. Your attention is directed to the following interpretations of, changes in, and additions to the Contract Specifications and Plans for the above named project at Boca Raton Airport, Boca Raton, Florida.
- b. This Addendum is part of the Contract Documents and Plans, and the bidders are required to acknowledge receipt of this Addendum in the space provided below.

This addendum includes the following (see attachments):

- 1. **INVITATION TO BID** - Pre-bid Meeting Day and Time (attached)  
The Pre-Bid Conference will be held on Thursday, October 18<sup>th</sup>, 2018, at 2:30 PM
- 2. **BID FORM** – Liquidated Damages and Nighttime Operations (attached)  
Nighttime work hours 11:00 PM – 6:30 AM. Turnover by Contractor to Tower Operator at 6:30 AM. Five (5) Night Work Week: Sunday night (11:00 PM) through Friday morning (6:30 AM).
- 3. **TECHNICAL SPECIFICATION** (attached)  
01000 – Mobilization  
12-24-12 - Transparent Shades  
W-103 – Allowance Account
- 4. **ENGINEER’S ESTIMATE OF PROBABLE COSTS**  
\$350,000 - \$400,000

**NOTE: Sign and Return Addendum #1 Cover with Bids**

Acknowledged: \_\_\_\_\_ signature of Bidder

Name of Bidder: \_\_\_\_\_ Date: \_\_\_\_\_

**END OF ADDENDUM NO. 1**

**INVITATION TO BID NO. 2018-BRAA-003 – ATCT Renovations Phase II**

**NOTICE IS HEREBY GIVEN**, that Boca Raton Airport Authority (hereinafter referred to as “BRAA”), will receive sealed bids from General Contractors or other qualified contractors, at:

Boca Raton Airport Authority  
903 NW 35<sup>th</sup> Street  
Boca Raton, Florida 33431  
Attn.: Travis Bryan, Operations Manager

Until the hour of **2:00 PM**, Local Time, on **November 6, 2018** and said bids will be opened and publicly read immediately thereafter in the conference room, at the above address, on the same day.

Project Description: The work consists of renovations to the existing Air Traffic Control Tower (ATCT), including tower cab glass (glazing) removal and replacement, shades and motorized storm shutters, metal panel replacement.

The work must conform to plans and specifications, which may be obtained or examined on or after **Tuesday, October 9, 2018** at:

Boca Raton Airport Authority  
903 NW 35<sup>th</sup> Street  
Boca Raton, Florida 33431  
Contact Person: Travis Bryan, Operations Manager  
(561) 391-2202; e-mail-travis@bocairport.com

~~A non refundable service charge of xxx per set of plans and specifications is required. Bidders requiring plans and specifications to be mailed must submit a Federal Express account number to the Boca Raton Airport Authority. The bill will be charged to the recipient's account. Perspective plan holders will be required to sign a Non-Disclosure Agreement (NDA) and follow all stipulated conditions outlined in NDA documents in order to receive drawings and specifications.~~

Bid proposals must be submitted on the forms provided by BRAA and accompanied by a bid security in the form of a certified check, cashier's check, money order or a bid bond submitted on the form provided, in favor of BRAA in the amount of not less than five percent (5%) of the bid price.

Date of Advertisement:	Tuesday, October 9, 2018
<b>Date of Pre-Bid Conference:</b>	<b>Thursday, October 18, 2018; 2:30 PM</b>
Deadline for Requests for Clarification:	Tuesday October 30, 2018 (2:00 PM)
Deadline for Submission and Bid Opening:	Tuesday Nov. 6, 2018 (2:00 PM)

**CONTRACT TIME AND LIQUIDATED DAMAGES DISCLOSURE  
(Attachment No. 2 To The Bid Form)**

PROJECT NAME: \_\_\_\_\_

THIS FORM MUST ACCOMPANY BID FORM AND MUST BE COMPLETED AS APPLICABLE.

The Contractor may not proceed with the Work without prior written authorization from the BRAA. This authorization shall be called the **CONSTRUCTION NOTICE TO PROCEED**.

As detailed in Section 3.2 of the Contract:

COMPLETION TYPE	CALENDAR DAYS	LIQUIDATED DAMAGES FOR DELAY
Administrative Period	105 calendar days from issuance of Administrative Notice to Proceed (Material Procurement Period)	
ATCT Reopening	15 Minutes	\$500.00 per 15-minute interval
Substantial Completion	30 calendar days from issuance of the Construction Notice to Proceed	\$500 per day
Final Completion	30 calendar days from achievement of Substantial Completion	\$250 per day

\$500.00 for every 15 minutes late or portion thereof. Ex.-18 minute late reopening will result in \$1000.00 liquidated damages. The time of ATCT reopening will be determined using the Owner or Resident Project Representative provided clock. The Contractor may inspect the clock at the start of each night's work.

Nighttime work hours 11:00 PM – 6:30 AM. Turnover by Contractor to Tower Operator at 6:30 AM. Five (5) Night Work Week: Sunday night (11:00 PM) through Friday morning (6:30 AM).

Due to the BRAA's constraints and overall project completion requirements, the Contractor shall complete the work within the calendar day durations specified above from the date of issuance of the Construction Notice to Proceed. Should the Contractor fail to complete the time-limited work by the timeframes specified, the BRAA will suffer damages and will be entitled to liquidated damages as set forth above.

\_\_\_\_\_  
(Name of Bidding Firm)

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

**SECTION 01000**

**MOBILIZATION**

**01000-1 DESCRIPTION**

The work specified in this section consists of the preparatory work and operations in mobilizing and demobilizing for the project, including, but not limited to, the movement of personnel, equipment, supplies, and incidentals to the project site, and the establishment of temporary offices, shops, production plants, material storage areas, equipment parks, utility services, safety and security measures, first aid supplies, sanitary and other facilities, etc. The maintenance and removal of these facilities and incidentals at the end of the project are also included in this item. Office facilities or other accommodations for the Construction Manager are not required.

**01000-2 CONSTRUCTION METHODS**

Facilities, equipment and materials located on the airport by the Contractor shall be limited to those necessary to complete the work in the contract. They shall be located as shown on the drawings or as approved by the Construction Manager and shall comply with pertinent laws, regulations and codes. Fences, stockpiles, structures, lighting, access roads, drainage and utility connections, etc. shall be approved by the Construction Manager before they are established. All facilities shall be maintained in secure, safe and clean conditions, to include weekly trash removal and site cleanup. At the completion of the contract, all Contractor facilities, equipment and materials shall be removed and the site shall be cleaned up and returned to its original state, unless otherwise indicated on the drawings or approved by the Construction Manager. Pavement removal, pavement restoration, utilities removal, turf restoration, etc. shall be accomplished as necessary to meet these requirements. The Contractor will be responsible for cleanup of any soil and water contamination caused by his/her operations.

Utility Location Services shall be completed within the limits of the entire project area. Services shall be performed to a minimum ASCE Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data, CI/ASCE 38-02 Quality Level B. This item is generally described as "Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities."

**~~01002-3~~ FIELD OFFICE**

**DESCRIPTION:**

~~Contractor shall furnish, install and maintain temporary utilities required for construction and other temporary facilities as indicated; remove on completion of work.~~

~~No construction shall be started until the Engineer's field office is erected, furnished as herein specified, and made available to the Engineer. The office shall be erected at a location designated by the Engineer and shall be separate from any building used by the Contractor.~~

~~Related requirements are specified in other sections of the specifications.~~

**REQUIREMENTS OF REGULATORY AGENCIES:**

~~Comply with National Electric Code.~~

~~Comply with Federal, State, and Local codes and regulations and with utility company requirements.~~

## **PRODUCTS**

~~MATERIALS, GENERAL: Materials, furniture, and equipment may be new or used, but must be adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards. The Engineer will determine acceptability of all items.~~

## **EXECUTION**

~~TEMPORARY ELECTRICITY AND LIGHTING: Provide temporary electrical service required for power and lighting, and pay all costs for service and for power used.~~

### ~~TEMPORARY SANITARY FACILITIES:~~

~~Provide sanitary facilities in compliance with laws and regulations.~~

~~Service, clean and maintain facilities and enclosures.~~

### ~~TEMPORARY SUPPORT FACILITIES:~~

~~General: Provide reasonably neat and uniform in appearance temporary support facilities acceptable to the Engineer and the Owner.~~

~~Siting: Locate field offices, storage and fabrication sheds and other support facilities for easy access to the work. Position office so that windows give the best possible view of construction activities.~~

~~Maintenance: Maintain field offices, storage and fabrication sheds, temporary sanitary facilities, waste collection and disposal systems, and project identification and temporary signs until near substantial project completion. Immediately prior to substantial completion remove these facilities~~

~~Engineer's Field Office: In the main project staging area, furnish an office or trailer for exclusive use by Engineer's Resident Representative with the following requirements:~~

- ~~1. Utility services: Power, touchtone telephone, water, and sanitary.~~
- ~~2. Services: Water cooler, suitable toilet facilities, and HVAC.~~
- ~~3. Furnishings:
  - ~~a. office desks, with drawers, locks and two (2) sets of keys~~
  - ~~b. office swivel chair~~
  - ~~c. office straight back chairs~~
  - ~~d. 1 4 drawer legal size steel filing cabinet with lock and keys~~
  - ~~e. steel wastebasket~~
  - ~~f. 1 OSHA approved fire extinguisher~~~~
- ~~4. Site: Prepare the field office site consisting of two way access to public roads, grading of the site for field office placement and vehicle parking, surface drainage, stabilizing and maintaining the access road to the office site, and area lights. The vehicle parking areas shall be large enough to accommodate vehicles. The parking area and access road shall be adequately stabilized to provide an all-weather surface. The office area site preparation plans shall be reviewed and approved by the Engineer prior to construction.~~
- ~~5. Maintenance: The Contractor shall be responsible for periodically cleaning weekly the facility and furnishing toilet and washroom supplies.~~
- ~~6. All cost of utility usage, including local and long distance telephone calls, in the field office provided for the Engineer during the course of this project will be borne by the Contractor.~~

~~Maintain Engineer's field office up to sixty (60) days after until substantial completion of project. Remove when directed by the Engineer; grade the site to drain, and seed and mulch in accordance with specificaitons.~~

**01000-3 MEASUREMENT AND PAYMENT**

**01000-3.1** Measurement and payment will be based on the contract lump sum price for Mobilization. This price shall be full compensation for furnishing all labor, equipment, materials, tools and incidentals necessary to complete the item.

Partial payments for Mobilization shall be made in accordance with the following schedule:

Percent of Original Contract Amount Earned	Cumulative Percent of Lump Sum Price Payable*
5	25
25	50
50	75
75	90
100	100

\*Partial payments in accordance with the schedule will be limited to 5% of the original Contract amount for the project. The 5% limit and payment schedule noted above apply individually to the base bid and each bid alternate. Any remaining amount(s) will be paid upon completion of all work under the project.

The standard retainage, as specified in Contract Documents will be applied to these allowances. Partial payments made on this item shall in no way act to preclude or limit any of the provisions for partial payments otherwise provided for by the Contract.

Payment shall be made under:

- Item 01000-1 Mobilization - per lump sum
- Item 01000-2 Utility Location Services - per lump sum

**END OF SECTION 01000**

**Boca Raton Airport  
Air Traffic Control Tower  
Renovations Phase II  
Boca Raton, Florida**

SECTION 12 24 12  
ATCT TRANSPARENT PLASTIC WINDOW SHADES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes requirements for material, fabrication and installation of transparent plastic window shades for use in the Boca Raton Airport Traffic Control Tower (ATCT) cab. Shades shall be installed at each of the 6 sides of the control cab. Existing shades (primary) shall remain. A secondary set of overlapping darker shades shall be installed for this project. The shade pocket at the top of the cab windows shall be modified as required to provide for a minimum separation of 1" between primary and secondary rollers. To accommodate two shades, shade pockets should be at least 8" wide. See architectural drawings for that detail.

1.2 SUBMITTALS

- A. Where the contractor elects to use the manufacturer and model number specified herein, no technical information or shop drawing is required. Other submittal information is still required.
- B. Where the contractor desires to utilize the products of another manufacturer or where no make or model number is specified, a complete set of shop drawings and descriptive literature shall be submitted. The contractor shall submit copies of descriptive literature, shop drawings and/or samples of to the Contracting Officer for approval for any item he wishes to submit as equal to the brand name(s) as specified.
- C. The use of a brand name with or without an or equal statement following the purchase description in this specification or on the project drawings intended to promote completion by encouraging the offering of products that are equal in all materials respects to the brand name products cited in such descriptions.
- D. Identification by brand names does not indicate a preference for the products mentioned but indicates the quality and characteristics that will meet the government needs. All characteristics of a specified brand name product, which essential to the government, are described in the specification or on the project drawings. The contractor shall obtain product literature from the manufacturer of the specified brand name product to determine its general quality and functional characteristics and shall use that information in making any desired substitutions.
- E. Product Data: For plastic window shades; include a materials list.
- F. Shop Drawings: Include plans, elevations, sections, details, sequence of installation, operational clearances, and relationship to adjoining Work. Verify dimensions by field measurements before fabrication and indicate measurements on Shop Drawings.
- G. Cleaning and Maintenance Data.
- H. Qualification Data: For manufacturer and installer. List of at least 3 control tower cab installations over the last 3 years with customer contact information.

**Boca Raton Airport  
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1.3 PERFORMANCE REQUIREMENTS

- A. Shade material shall be scratch resistant and manufactured from a polyester type polymer in accordance with Federal Specification L-F-377b for type weatherable DuPont Mylar clear sheet film or other FAA approved manufacturer. Fire resistant rated "self-extinguishing to very slow burning" U.S. Testing Company, fire test 302; melting point 500 deg. F, combustion 977 deg. F. no toxic hazard.
- B. Secondary shades shall be installed behind the primaries and where called for on the drawings. The secondary shade shall be installed inboard on the primary shade utilizing the specified installation techniques and standards. Provide a film designation DS 8 SR, FAA-11SM/G or approved equivalent.
- C. Transparent Plastic Shade Film Construction: Shade product shall consist of a 5 mil, 3-ply laminated polyester film. Two sheets of polyester vat dyed gray, hard coat S/R applied to one side. The final film construction shall be 5 gage thick, optically clear and totally transparent. Surface tinting or color adhesives will not be acceptable.
- D. Visible Light Reflection: Secondary shades shall reflect no more than 8 percent of the visible light when measured by Association of Industrial Metalizers, Coaters, and Laminators (AIMCAL) Standard Methods.
- E. Ultra-Violet Transmission: Secondary shades shall transmit no more than 2 percent of the ultra-violet solar energy when measured by AIMCAL Standard Methods.
- F. Total Solar Energy Rejected: Secondary shades shall reject 59.8 percent of the total solar energy transmitted when measured by AIMCAL Standard Methods.
  - 1. Solar Absorptions: 55 percent.
  - 2. Shading Coefficient: 0.39.
  - 3. Solar Heat Gain Coefficient: 0.40.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer who can comply with applicable standard methods of the Association of Industrial Metalizers, Coaters, and Laminators (AIMCAL) for manufacture and fabrication of transparent plastic window shades. Manufacturer shall be recognized producer of transparent plastic window shades for the previous 10 years.
- B. Fire-Test-Response Characteristics: Provide products passing flame-resistance testing according to NFPA 701 by a testing agency acceptable to authorities having jurisdiction.

1.5 WARRANTY

- A. Furnish to FAA three (3) copies of the product warranty that certifies that all the specification requirements have been met and that all replacement costs shall be covered for one (1) year after the date of installation and acceptance.



**Boca Raton Airport  
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Boca Raton, Florida**

PART 2 - PRODUCTS

2.1 ROLLER SHADES

- A. Available Manufacturers: Provide products designed for this project by the following:
1. Plastic-View ATC.
  2. Solar-Screen.
  3. Other manufacturer if acceptable as approved equal.

2.2 ROLLER SHADE SYSTEM FABRICATION

- A. Bottom Bar: Shades shall have a flat 1-inch by 1/2 inch, dull black, full width metal hemline bar, minimum of 26 gage, at bottom onto which the pull cord and shade are attached. Black plastic caps shall be provided on each end of hemline bar to cover any sharp exposed edges.
- B. Shade Cords: Shade cords shall be black and of sufficient length to route around equipment to cord lock positions whenever required. The cords shall be 9/64 inch diameter rope made of 4.5 Duro Nylon and shall be attached underneath the center of the bottom of the hemline bar.
- C. Shade Rollers: Shades shall be mounted on a 1-3/4 inch diameter corrosion resistant metal wrapped roller. The rollers shall be spring loaded, single piece barrel, with a reusable safety cotter key type retainer installed through both end pins and washers to prevent roller from falling out of mounting brackets. Constant tensions in shades is required.
- D. Mounting Brackets: Provide mounting brackets with a 2-1/4 inch resting ledge. Standard ceiling brackets are not acceptable. A label stating "This End Down" with an arrow pointing in the proper installation direction of the roller into the mounting brackets shall be placed on the spring motor end of each shade roller. The shade film laminate material shall be mounted on rollers to minimize ridgings. Roll-off direction of material from roller shall be as directed by the shade manufacturer for use in the tower cab.
- E. Each shade shall have a label or whatever suitable means required to specify and identify the proper roll-off direction.
- F. Each shade shall have a manufacturer's label attached to the metal bar hemline giving cleaning instructions and the telephone number for emergency service.
- G. Lock Pulley. Lock pulleys shall consist of a roller and a spring return side action cam cord grip.
- H. Cord Direction Change Pulley: Provide cord direction change pulley which shall be used to route shade cord around obstructions where they exist. Pulleys shall be positioned in direct line with cord outlet on metal hemline. Cords for window shades in the rear of the cab shall be routed over the stairwell so they can be drawn from the cab floor level and not from inside the stairwell.

**Boca Raton Airport  
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- I. Shade Size: Shade roller width shall be within 1/2-inch of maximum possible width as determined by physical limitations. Shade material with shade fully drawn shall be to within (less than) 1 inch of columns on bias cut sides and to within (less than) 1-3/4 inch of columns on vertical cut sides. Horizontal seam shall be avoided but if required due to fabrication limits it shall be located a minimum of 55 inches from the bottom of the shade. Shades in ATCT cabs shall be bias cut when required. To ensure a safe roll-up, a minimum of 15 inches of shade material shall remain on the roller when the shade is fully extended.
- J. Measuring for Shades: Measuring for shades and positioning shall be strictly in accordance with the shade manufacturer's instructions. Marks showing the precise position of all brackets, pulleys, and metal hemline positions as related to the factory measuring instructions shall be provided. All measurements shall be taken per instructions from shade manufacturer.

**PART 3 - EXECUTION**

**3.1 ROLLER SHADE INSTALLATION**

- A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions. Allow clearances for window operation hardware. The secondary shade shall be installed inboard (toward the cab interior) from the primary.
- B. Shades shall be installed in shade recess pockets or on wood or metal plates. Shades shall follow the slope of cab glass as closely as practical within physical limitations of air ducts and other equipment. No drilling shall be done in vertical uprights of cab because some uprights may contain electrical cables.
- C. Spring tension in roller shall be manually adjusted so that shades roll comfortably and do not bind.
- D. In order to safely control and limit the shade travel, the installer shall make two knots in the shade cord. One knot shall be placed before the lock pulley to prevent the metal hemline bar from hitting the windowsill. The second knot shall be placed after the lock pulley to prevent the metal hemline bar from hitting and overrunning the shade roller. Adherence to THIS END UP label when installing shade will prevent improper roller installation which can result in a locked shade situation when the metal bar hemline is near the lock pulley and cannot be pulled down to release the spring motor cam lock.
- E. Shade shall be able to operate at a moment's notice; to gain unimpeded rapid access for the use of emergency light guns. The inability for one controller to "snap-up" the shade in an emergency endangers lives, and system that does not meet the unimpeded rapid access will not be approved.
- F. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.
- G. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

END OF SECTION 12 24 12

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ITEM W-103 ALLOWANCE ACCOUNT

**DESCRIPTION**

**103-1.1** Allowance accounts have been established to compensate the Contractor for approved and accepted additional work that may be necessary due to unforeseen conditions or Owner requested changes. Additional work required and cost incurred by the Contractor due to unacceptable work or damage by the Contractor will not be paid for from allowance accounts.

**METHOD OF MEASUREMENT**

**103-2** If directed by the Owner via Change Order, applicable established unit prices shall be used to pay for work under the Base Bid allowance account. If established unit prices are not applicable to the work, a price proposal will be requested by the Owner. The method of measurement and payment for materials or work performed under an allowance account must be established and approved by the Owner prior to executing the work. The work and cost must be acceptably documented prior to payment (invoices, delivery slips etc.), in accordance with the Contract Documents. Approved costs shall include all costs associated with the work or materials provided, such as taxes, freight, and delivery to the site.

**BASIS OF PAYMENT**

**103-3** Payment will be processed by the Owner for direct expenses associated with the completion of associated work. Allowance Account payments shall not exceed the amounts stated in the following table:

<b>Bid Schedule</b>	<b>Maximum Allowance</b>
Base Bid Allowance	\$10,000.00

Payment will be made under:

Item W-103                      Base Bid; FPL Allowance Account – per Allowance (ALL)

**END OF ITEM W-103**