

**ADDENDUM NO. ONE (1)
TO
REPLACE AIR TRAFFIC CONTROL TOWER EQUIPMENT
CONCORD REGIONAL AIRPORT
CONCORD, NORTH CAROLINA
TBE PROJECT NO. 2203-1802**

March 25, 2021



From: Talbert, Bright & Ellington, Inc.
3525 Whitehall Park Drive, Suite 210
Charlotte, North Carolina 28273

To: All Bidders of Record

This Addendum is hereby made a part of the contract documents and specifications of the above referenced project. All other requirements of the original specification shall remain in effect in their respective order. Acknowledge receipt of this addendum by inserting its number and date in the proposal form.

SPECS

TABLE OF CONTENTS

1. **ADD** the following under “Required Federal Provisions” on page TOC-i:
“**FORMS** F-1 to F-8”.

ITEMIZED PROPOSAL

2. **REVISE** the first paragraph of the “Proposal Requirements and Conditions” on page PRO-1 to read as follows:

“In compliance with the Advertisement (Notice to Bidders), the undersigned hereby proposes to furnish the materials and perform the work for completion of all items listed in the schedule for which the proposal is completed below in strict accordance with the Advertisement (Notice to Bidders), Plans, and General Provisions, Special Provisions of the Specifications, and all contract documents for the consideration of the price quoted in the following items and agrees, upon receipt of written notice of the acceptance of this Proposal, that within one hundred (120) days after the date of the opening of the Proposals, it will execute a contract in accordance with the Proposal as accepted and give the required Performance and Payment Bond with good and sufficient surety or sureties, within ten (10) days after receipt of notice of formal award of contract and presentation of the prescribed forms.”

PROJECT SPECIAL PROVISIONS

3. **ADD** the following under “PSP-14 Adjustment of Contract Time” on page PSP-6 under number 5.:

6. Delays in equipment availability.

4. **REVISE** “PSP-18 Guarantee” on page PSP-9 to read as follows:

“The Contractor shall guarantee all materials and workmanship for a period of two (2) years from the date of acceptance by the Owner and shall replace any portions that fail because of faulty materials or workmanship at no additional cost to the Owner. A one (1) year and twenty-three (23) month inspection will be held during the warranty period. The Contractor shall immediately repair all defective items upon notification. Items repaired under the warranty provisions shall have an extended warranty period of two (2) years for repair of the item.”

5. **REVISE** “PSP -19 Project Closeout Documents” on page PSP-9 to read as follows:

PSP-19 PROJECT CLOSEOUT DOCUMENTS

The Contractor shall provide the following documents with the final payment request, and any additional documents required by the FAA or NCDOT-DOA:

1. Consent of Surety to Final Payment (See Forms Section for appropriate form)
2. Contractor’s Affidavit of Payment of Debts and Claims (See Forms Section for appropriate form)
3. Contractor's Affidavit Of Release (Waiver) Of Liens (See Forms Section for appropriate form)
4. North Carolina and County Sales or Use Tax Statements and Certifications (See Forms Section for appropriate form)
5. Operation/Equipment Manuals

No final payment will be authorized until these documents have been properly completed and submitted by the Contractor.

FORMS

6. **ADD** the attached forms of Addendum No. One (1) to the specifications after the “Required Federal Provisions”.

TECHNICAL SPECIFICATIONS

7. **REPLACE** page 4 of the Technical Specifications with the attached of Addendum No. One (1).
8. **REPLACE** page 11 of the Technical Specifications with the attached of Addendum No. One (1).
9. **REPLACE** page 22 of the Technical Specifications with the attached of Addendum No. One (1).

QUESTIONS AND ANSWERS

1. QUESTION: Can the Pre-bid Meeting outline be provided?
ANSWER: Yes, see attached to this Addendum.
2. QUESTION: Is the proposed GCO using the same frequency as the existing RCO?
ANSWER: Yes, the GCO shall use the same frequency as the existing RCO.
3. QUESTION: What are the existing radios in the tower?
ANSWER: The existing radios in the tower are CM200.
4. QUESTION: What brand is the existing voice switch?
ANSWER: The existing voice switch is a Harris.
5. QUESTION: Some equipment has a six-month lead time. Does the contract time take account for equipment lead time?
ANSWER: Yes, Project Special Provision “PSP-14 Adjustment of Contract Time” has been amended in this addendum to include “Delays in equipment availability”.
6. QUESTION: Does the Contractor have to track sales tax?
ANSWER: Yes, the Contractor must track sales tax, and submit the Tax Statement Form with each pay request. The Tax Statement Form has been added as part of this addendum.

ATTACHMENTS:

1. FORMS
2. Technical Specification Page 4
3. Technical Specification Page 11
4. Technical Specification Page 22
5. Pre-Bid Meeting Outline

END OF ADDENDUM NO. ONE (1)

City of Concord
Post Office Box 308
Concord, North Carolina 28026-0308

For Office Use Only:
Charge to P.O. # _____
Due _____

PROJECT: 2203-1904 DESCRIPTION: "Obstruction Removal"
Concord-Padgett Regional Airport
Concord, North Carolina

Date Notice to Proceed: _____
Completion Date: _____
Days Remaining in Contract: _____
Percent Work Complete: _____
Percent Time Complete: _____
Percent Payment Complete: _____

APPLICATION FOR PAYMENT NO. _____ SHEET NO. _____ OF _____

PERIOD FROM: _____ TO: _____

CERTIFICATE OF THE CONTRACTOR

To the best of my knowledge and belief, I certify that this periodical estimate is correct and all work has been performed and materials supplied in full accordance with the terms and conditions of the contract documents between the undersigned contractor and the City of Concord.

GROSS AMOUNT OF PARTIAL PAYMENT ----- \$ _____
LESS: RETAINAGE AT _____ **PERCENT** ----- \$ _____
PREVIOUS PAYMENT ----- \$ _____
LIQUIDATION DAMAGES
_____ DAYS @ \$ ----- \$ _____
OTHER DEDUCTIONS:
_____ ----- \$ _____
_____ ----- \$ _____
TOTAL DEDUCTIONS ----- \$ _____
NET AMOUNT DUE THIS ESTIMATE ----- \$ _____

Name of Contractor: _____ Address: _____

Signed: _____ Title: _____ Date: _____

CERTIFICATE OF CONSTRUCTION ADMINISTRATOR/ENGINEER

I certify that I have verified this periodical estimate and that to the best of my knowledge and belief, it is a true and correct statement of work performed and materials supplied under the contract.

Consultant Engineer: _____ Date: _____

Construction Administrator: _____ Date: _____

APPROVED AND PAYMENT RECOMMENDED:

CITY OF CONCORD

Signed: _____ Title: _____ Date: _____

FIN/AP/31 - Revised 03/14/07

“OBSTRUCTION REMOVAL,” CONCORD-PADGETT REGIONAL AIRPORT, CONCORD, NC (TBE #2203-1904) Sheet _____ of _____

No. and Description of Unit		Contract			Work Done This Period		Work Completed To Date		
Item No.	Detailed Estimate	Quantity	Unit Price	Cost Estimate	No. of Units	Amount Earned	No. of Units	Amount Earned	% Complete
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

NORTH CAROLINA SALES TAX REPORT

OWNER: _____

CONTRACTOR: _____

PROJECT: _____

PURCHASE ORDER: _____

DATE	VENDOR NAME	INVOICE NO.	NET INVOICE AMOUNT	STATE TAX AMOUNT	COUNTY TAX AMOUNT	SPECIAL COUNTY TAX	COUNTY PAID
TOTAL							

I certify that the above listed vendors were paid sales tax upon purchases of materials during the period covered by the Construction Estimate, and the property upon which such taxes were paid with or will be used in the performance of this contract. No tax on purchases or rentals of tools and/or equipment is included in the above list. All of the materials above became a part of or is annexed to the building or structure being erected, altered or repaired.

 Contractor or Subcontractor Name (PRINT)
 Signature: _____
 Name (print): _____
 Title: _____

SWORN AND SUBSCRIBED BEFORE
 ME THIS ____ DAY OF _____, ____.

 NOTARY PUBLIC
 MY COMMISSION EXPIRES: _____

FIN/AP/30
 REVISED 5/18/05

TAX STATEMENT AND CERTIFICATION

This is to certify that the foregoing or attached statement is a true and complete statement of all North Carolina and Local Sales or Use Tax paid by the undersigned Contractor from _____, 20____, to _____, 20____, inclusive for the materials and equipment that were or will become a part of the construction of the:

(THE FOLLOWING PORTION TO BE FILLED OUT BY THE GENERAL CONTRACTOR ONLY.)

It is further certified that:

are the subcontractors that are engaged by this Contractor in the performance of this Contract whose tax statements are also enclosed herewith.

CONTRACTOR OR SUBCONTRACTOR

Sworn and subscribed before me this
____ day of _____, 2020.

NOTARY PUBLIC

(SEAL)

CONSENT OF SURETY COMPANY TO FINAL PAYMENT

OWNER
ENGINEER
CONTRACTOR
SURETY
OTHER

PROJECT (Name and Address): “Obstruction Removal” – Concord-Padgett Regional Airport
9000 Aviation Boulevard – Concord, North Carolina 28027

TO (Owner): Engineer’s Project No.: 2203-1904
Grant No.: _____
Contract for: _____
Contract Date: _____

CONTRACTOR: _____

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
(insert name and address of Surety Company here)

_____, Surety Company

on bond of (here insert name and address of Contractor)

_____, Contractor

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company
of its obligations to (here insert name and address of Owner)

_____, Owner

as set forth in the said Surety Company’s bond.

IN WITNESS WHEREOF,

the Surety Company has hereunto set its hand this ____ day of _____ 2020.

Surety Company
Signature of Authorized Representative

Attest: _____
(Seal): Title

CONTRACTOR'S AFFIDAVIT OF RELEASE OF LIENS

OWNER
ENGINEER
CONTRACTOR
SURETY
OTHER

TO (Owner): Engineer's Project No.: 2203-1904
Grant No.: _____
Contract for: _____
Contract Date: _____

PROJECT (Name and Address): "Obstruction Removal" – Concord-Padgett Regional Airport
9000 Aviation Boulevard – Concord, North Carolina 28027

State of: _____
County of: _____

The undersigned, pursuant to the General Conditions of the Contract for Construction, hereby certifies that to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services, who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

CONTRACTOR: _____
Address: _____

BY: _____

Subscribed and sworn to before me this _____
Day of _____ 2020.
Notary Public: _____
My Commission Expires: _____

(Seal)

AFFIDAVIT OF PAYMENTS OF DEBTS AND CLAIMS

OWNER
ENGINEER
CONTRACTOR
SURETY
OTHER

TO (Owner): Engineer's Project No.: 2203-1904
Grant No.: _____
Contract for: _____
Contract Date: _____

PROJECT (Name and Address): "Obstruction Removal" – Concord-Padgett Regional Airport
9000 Aviation Boulevard – Concord, North Carolina 28027

State of: _____
County of: _____

The undersigned, pursuant to the General Conditions of the Contract for Construction, hereby certifies that, except as listed below, he has paid in full or has otherwise satisfied all obligations for all materials and equipment furnished, for all work, labor, and services performed, and for all known indebtedness and claims against the Contractor for damages arising in any manner in connection with the performance of the Contract referenced above for which the Owner or his property might in any way be held responsible.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

CONTRACTOR: _____
Address: _____

BY: _____

Subscribed and sworn to before me this _____
Day of _____ 2020.
Notary Public: _____
My Commission Expires: _____

(Seal)

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PREBID OUTLINE

AIR TRAFFIC CONTROL TOWER EQUIPMENT REPLACEMENT

CONCORD-PADGETT REGIONAL AIRPORT
CONCORD, NORTH CAROLINA

TBI PROJECT NO.2203-1802

Prebid Meeting:
March 24, 2021, 10:00 a.m.
GoToMeeting

1. Scope of Project / Description
Procure, install, and integrate new equipment listed on page 4 of the Technical Specifications. There are three optional bid items that the Owner reserves the right to select any or none. Those Options are 'A' Long Term Radio Periodic Maintenance and Tuning, 'B' Long Term VCCS Extended Warranty and Maintenance, and 'C' Spares.
2. Contract time: 180 Calendar Days - Total contract time
3. Liquidated damages: \$1,600 per calendar day
4. Bid Opening: Wednesday, April 7, 2021 at 2:00 p.m.
Concord-Padgett Regional Airport
General Aviation Terminal Building - Conference Room
 - Any late bids will be rejected as non-responsive.
 - Envelopes containing bids must have airport address, care of Dirk Vanderleest, project name, and contractor license number.
 - Any binding interpretations or explanations of Plans/Specs will be made only by written addendum. No interpretation is binding if not in writing. Last day for questions will be close of business Tuesday, March 30, 2021.
 - Please review Proposal Requirements and Conditions and Section 20 of the Specifications.
5. Specifications – The front-end specifications is FAA boiler plate specs which are required when FAA participates in funding. A lot of these specifications are not applicable to equipment replacement.

Section 10 - Definition of Terms

Section 20 - Proposal, Requirements and Conditions

Proposal Quantities are estimates of quantities for comparison of bids only.

Written words are required in the proposal. However, print outs of electronic proposals

will be accepted. Send an email if you would like to receive the file by email. Remainder of proposal still must be filled out.

Addendums shall be acknowledged in the proposal by number and date. At least one (1) addendum will be issued.

Bid Bond/Certified Check of 5% of bid price must be submitted.

Section 30 - Award and Execution of Contract

Contract to be awarded within 120 calendar days.

Contract bonds shall include 100% Performance and Labor and Material Payment. These bonds shall remain in force for one year from final acceptance.

Start Date - It is anticipated that this project will start in June 2021 but will depend on when FAA grant is executed.

Section 40 - Scope of Work

Owner reserves the right to make changes to quantities as required to complete the work in an acceptable manner.

Section 50 - Control of Work

Section 60 - Control of Materials

Section 70 - Legal Regulations and Responsibility to Public

The Contractor shall procure all Permits, Licenses and Taxes. No known permits or licenses for this scope of work.

Insurance shall be per the requirements of what is shown in the Standard Form Construction Contract.

Section 80 - Prosecution and Progress

Progress Schedule is required at least 5 days prior to the Preconstruction Conference.

Contract time is based on calendar days which include weekends, holidays and non-working days. Timely completion is essential to the Owner.

Section 90 - Measurement and Payment

Partial Payments may be made monthly.

5% retainage will be withheld from payment until the final payment is made.

Project Special Provisions

Progress meetings will be held during the duration of the project, and the frequency will be scheduled at the preconstruction. Plan will be for bi-weekly meetings.

Shop Drawings/Submittals - 6 copies or one electronic copy of all Shop Drawings and Submittals shall be submitted for review to the engineer. Contractor shall review and stamp submittal prior to sending to the Engineer.

Guarantee - Contractor shall guarantee all materials and workmanship for a period of one (1) year, and manufactures' warranties if greater than one (1) year. *Being changed in Addendum No. One (1).*

Safety and Security Requirements

Standard Form Construction Contract

Sample contract, and Owner reserves the right to make changes.

Required Federal Provisions

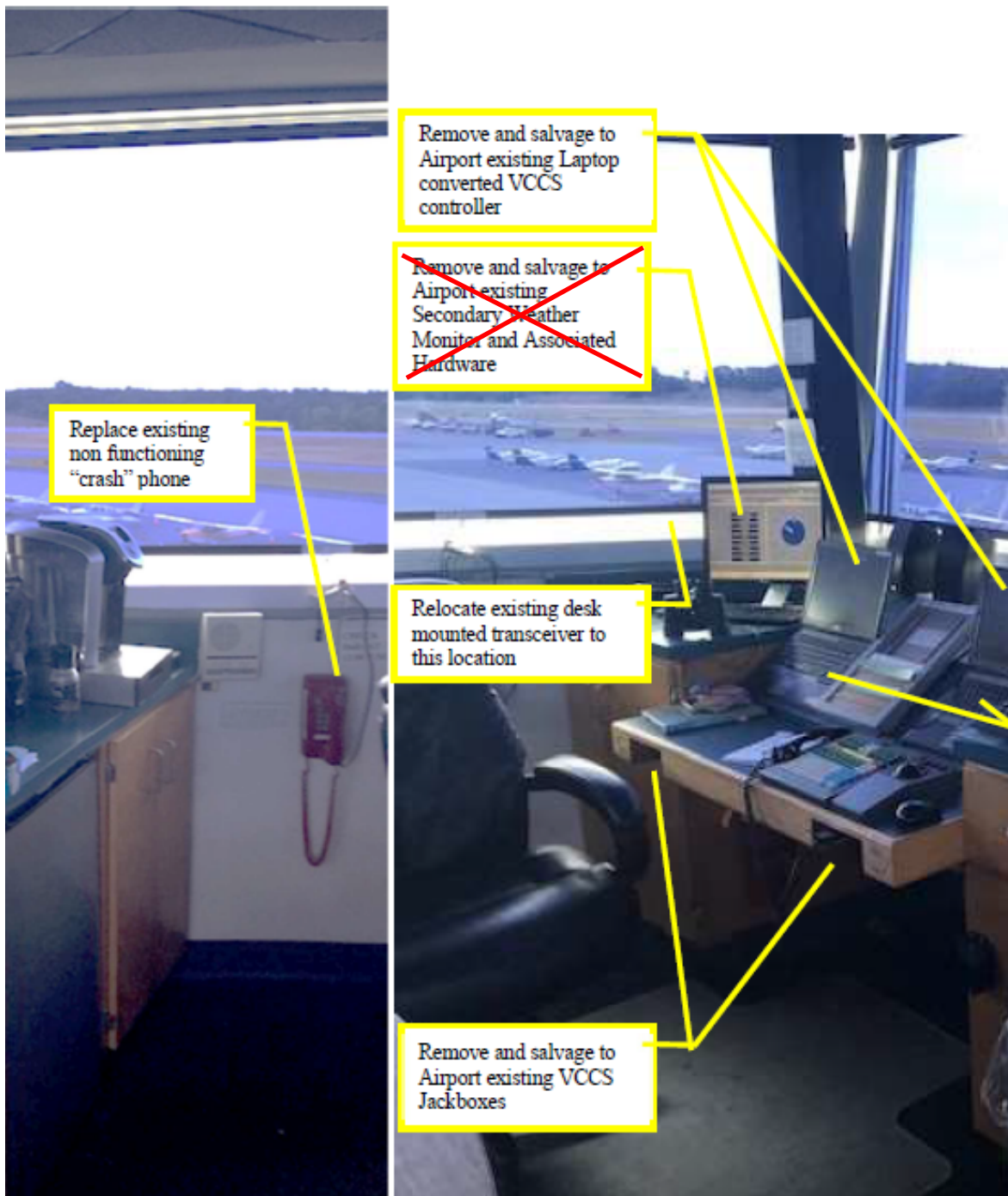
Required Federal Provisions.

Technical Specs

1. Project should be retitled as there is no work involving the secondary weather systems.
2. Page 22 of the Technical Specifications lists the removal and salvage of the existing Secondary Weather Monitor which now changes and is to remain. See next page.
3. It is not the intent to provide a completely redundant standby voice switch. The intent is to add a Back Up Bridge only to allow all of the controller position equipment to use the existing Liberty Star VCCS as a standby in the event of malfunction of the new Harris VCCS. Recent study by Harris has added additional requirements for this redundancy so this part of the scope may be eliminated.
4. Basic Scope:
 1. New equipment
 - (1) Voice Communications Control System (VCCS) handsets, microphones, headsets and spares
 - (2) Two (2) VHF Transmitter and two (2) VHF Receiver Base radios
 - (3) One (1) Desktop VHF Transceiver
 - (4) One (1) VHF handheld transceiver
 - (5) Three (3) Antennas and Roof Top Support complete with polyphaser protection.
 - (6) Rewire Four (4) existing Antenna cabling and polyphaser replacements
 - (7) Radio Filters
 - (8) Global Positioning System (GPS) Synchronized Clock
 - (9) Tower Hotline

- (10) Uninterruptable Power Supplies (UPS)
 - (11) Cabling and Wiring
 - (12) Desktop Lamps
 - (13) Counter
 - (14) Three (3) Controller Chairs
 - (15) Console Plates and Appurtenances
 - (16) "Crash" phone as required
 - (17) Subcontract Remote Communications Outlet (RCO) Abandonment and installation of new Ground Communications Outlet (GC) to ILS Technical Services, Inc.
 - (18) All other items required to provide a functional and conforming system.
2. Site Acceptance Testing.
 3. Installation of speakers and volume controls into wood/plastic laminate counters.
 4. Configure existing radios and ~~upgrade voice switch equipment~~ to become standby system to the new equipment.
 5. Coordinate, install and integrate the 4 wire shout, 2 digit dial up and commercial phone lines and data lines as required to the Approach Control Center (ACC) and nearby ATCTs as required.
 6. Clean up existing wiring not in use.
 7. Salvage all equipment as directed by the Airport.
 8. Train ATCT controllers on the operation of the new equipment

LACE ATCT COMMUNICATIONS AND WEATHER EQUIPMENT



1.1 TABULAR SCOPE

A. Provide the following works of this Section:

1. Procure, install and integrate new equipment as follows:

- (1) Voice Communications Control System (VCCS) handsets, microphones, headsets and spares
- (2) Two (2) VHF Transmitter and two (2) VHF Receiver Base radios
- (3) One (1) Desktop VHF Transceiver
- (4) One (1) VHF handheld transceiver
- (5) Three (3) Antennas and Roof Top Support complete with polyphaser protection.
- (6) Rewire Four (4) existing Antenna cabling and polyphaser replacements
- (7) Radio Filters
- (8) Global Positioning System (GPS) Synchronized Clock
- (9) Tower Hotline
- (10) Uninterruptable Power Supplies (UPS)
- (11) Cabling and Wiring
- (12) Desktop Lamps
- (13) Counter
- (14) Three (3) Controller Chairs
- (15) Console Plates and Appurtenances
- (16) "Crash" phone as required
- (17) Subcontract Remote Communications Outlet (RCO) Abandonment and installation of new Ground Communications Outlet (GC) to ILS Technical Services, Inc.
- (18) All other items required to provide a functional and conforming system.

2. Site Acceptance Testing.

3. Installation of speakers and volume controls into wood/plastic laminate counters.

4. Configure existing radios ~~and upgrade voice switch equipment~~ to become standby system to the new equipment.

5. Coordinate, install and integrate the 4 wire shout, 2 digit dial up and commercial phone lines and data lines as required to the Approach Control Center (ACC) and nearby ATCTs as required.

6. Clean up existing wiring not in use.

7. Salvage all equipment as directed by the Airport.

8. Train ATCT controllers on the operation of the new equipment.

9. Procure and provide spares for all systems.

10. Provide warranty agreements.

Optional Bid Items include the following:

OPTION A – Long Term Radio Periodic Maintenance and Tuning

The contractor shall provide a cost to tune the radios as prescribed by the FAA on a yearly basis. Term period shall be priced yearly for a period not to exceed three (3) years after two year warranty period has expired. Other tasks shall include VSWR tests of the antenna connections, VCCS and radio software updates, checking and calibrating secondary weather system, periodic maintenance of any moving parts, cleaning of computers and equipment of dust and debris and any other items to keep the

capability between positions and software. The system shall be programmable either at station or remotely. The control components for these positions shall be touch screens surface mounted on the cab console under the direction of the Airport Manager or his/her designated representative as well as a maintenance position mounted on the VCCS component rack.

The Contractor shall provide, install and integrate a new Harris Liberty STAR VCCS, the Frequentis pure3020X or approved equal and suitable to meet, as a minimum, these specifications. Contractor shall follow the VCCS installation documentation to provide the airport with a complete and working system.

~~The new VCCS shall integrate the existing Liberty Star III VCCS as a standby system. Contractor shall work closely with Harris and obtain patches and any required licensing to upgrade the existing VCCS to the latest Windows Operating System available. A Back Up Bridge (BUB) is required which acts as a 3 way 4 wire audio bridge to the DAP Ports.~~

The VCCS and associated components shall be rack mountable. These racks shall be mounted in equipment cabinets. As a minimum all equipment cabinets shall include 4 legged open racks. Each rack shall include 10 position power strip and full-length copper ground strip with pre threaded screw holes. Provide cable management cable tray on all corners, as a minimum.

Touchscreen Editing Devices (position monitor) shall be mounted onto a Point of Sale Counter Mount POS2-TAB Compact Desk Mount by Ergomart or approved equal. Mount securely to the existing turret or flat desktop as directed by the ATM.

Minimum Specifications (VCCS)

Three (3) Controller Positions

Integration of existing VCCS as a standby VCCS

Three (3) Radio Communication Channels, Main and Standby, ATIS plus one (1) Commercial Phone Line

One (1) Dedicated 4-wire Telephonic Communications to include 4-wire Voice Page (Shout Line)

One (1) 2 Digit Direct Ring-Down lines

Interface with E1 2Mps (G703) dual redundant link

One-Button Call Feature that will seize a telephone line to automatically dial a preprogrammed number

Local and Ground Control Units shall be configured identically for interconnectivity

Busy Out Feature/Capable of Group Call-Out on all Channels

Remote maintenance position to include keyboard and display provided for cab and equipment room

Audio outputs for use with the existing Eventide NexLog 740DX voice recorder

System clock shall display a min. $\frac{3}{4}$ " numbers and shall be synchronized through the new GPS Clock

Touch screen shall be a minimum 12" diagonal measure, mounted on a swivel stand that allows tilt left-right swivel, mounted into the new console panel (see paragraph 2.7)

Flush mounted Speakers

SPARE PARTS FOR VCCS

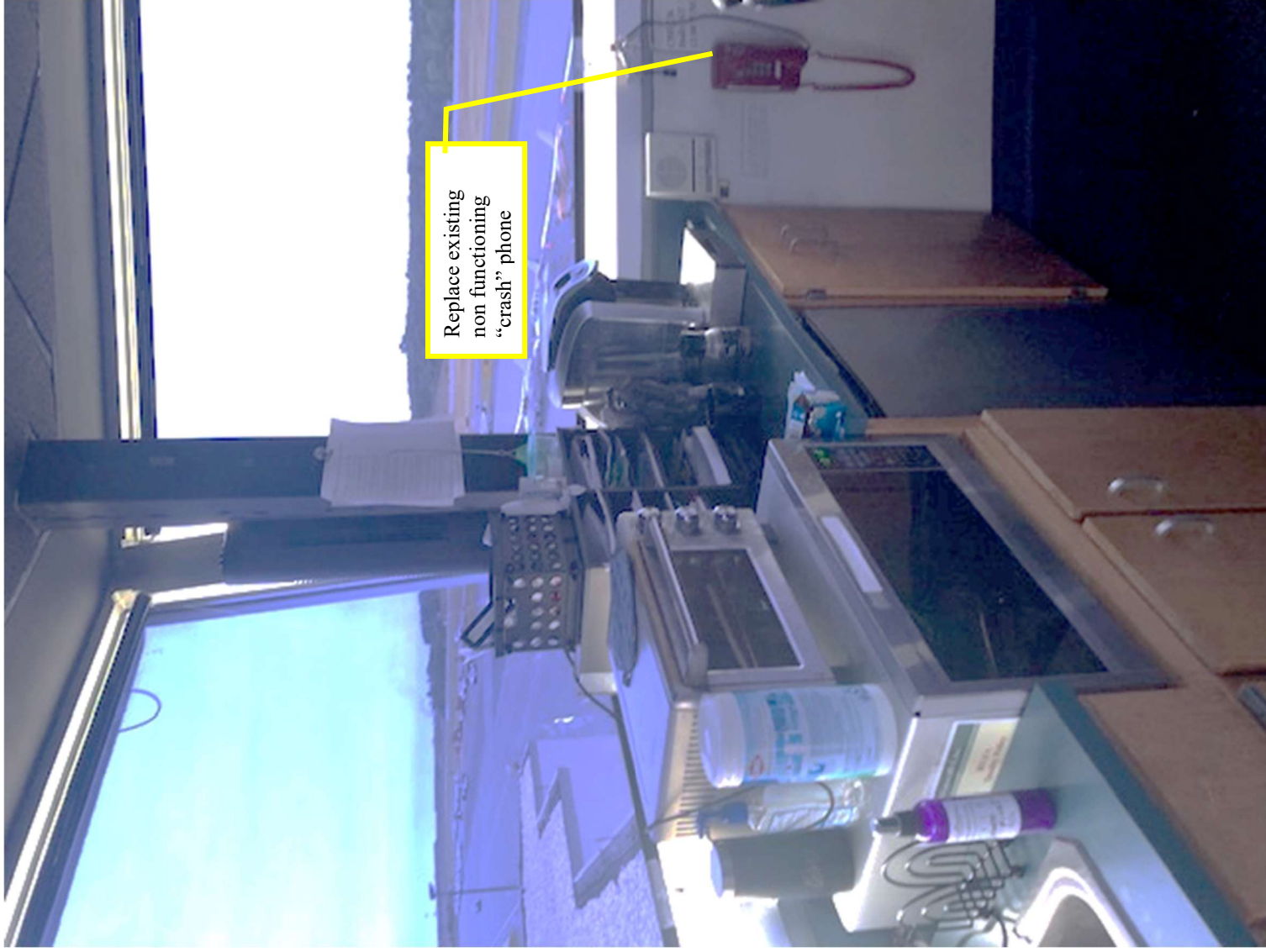
Provide the following, as a minimum or as recommended by the VCCS manufacturer, all spares shall be completely configured and tested:

Position Electronics Equipment, including TED and Computer

Radio Interface Module

Telephone Interface Module

One (1) Jackbox



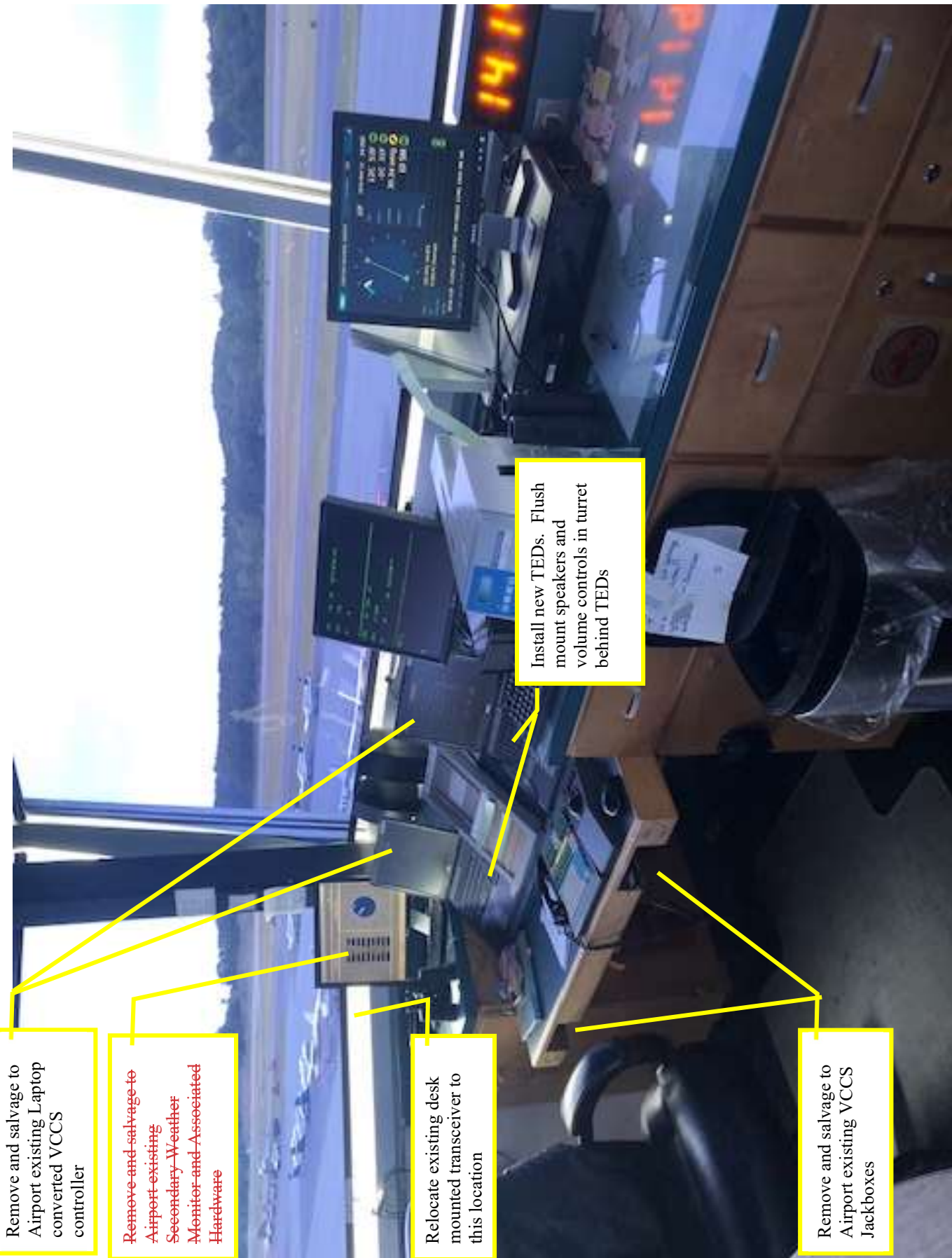
Replace existing non functioning "crash" phone

Remove and salvage to Airport existing Laptop converted VCCS controller

Remove and salvage to Airport existing Secondary Weather Monitor and Associated Hardware

Relocate existing desk mounted transceiver to this location

Remove and salvage to Airport existing VCCS Jackboxes



Install new TEDs. Flush mount speakers and volume controls in turret behind TEDs