

## **INSTRUCTIONS**

**ABOUT IDOT PROPOSALS:** All proposals are potential bidding proposals. Each proposal contains all certifications and affidavits, a proposal signature sheet and a proposal bid bond.

### **PREQUALIFICATION**

Any contractor who desires to become pre-qualified to bid on work advertised by IDOT must submit the properly completed pre-qualification forms to the Bureau of Construction no later than 4:30 p.m. prevailing time twenty-one days prior to the letting of interest. This pre-qualification requirement applies to first time contractors, contractors renewing expired ratings, contractors maintaining continuous pre-qualification or contractors requesting revised ratings. To be eligible to bid, existing pre-qualification ratings must be effective through the date of the letting.

### **WHO CAN BID?**

Bids will be accepted from only those companies that request and receive written Authorization to Bid from IDOT's Central Bureau of Construction.

### **REQUESTS FOR AUTHORIZATION TO BID**

Contractors wanting to bid on items included in a particular letting must submit the properly completed "Request for Authorization to Bid/or Not For Bid Status" (BDE 124) and the ORIGINAL "Affidavit of Availability: (BC 57) to the proper office no later than 4:30 p.m. prevailing time, three (3) days prior to the letting date.

**WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?:** When a prospective prime bidder submits a "Request for Authorization to Bid or Not for Bid Status" (BDE 124) he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued an **Authorization to Bid or Not for Bid Report**, approved by the Central Bureau of Construction and the Chief Procurement Officer that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Authorization to Bid or Not for Bid Report** will indicate the reason for denial.

**ABOUT AUTHORIZATION TO BID:** Firms that have not received an Authorization to Bid or Not For Bid Report within a reasonable time of complete and correct original document submittal should contact the department as to the status. Firms unsure as to authorization status should call the Prequalification Section of the Bureau of Construction at the number listed at the end of these instructions. These documents must be received three days before the letting date.

**ADDENDA AND REVISIONS:** It is the bidder's responsibility to determine which, if any, addenda or revisions pertain to any project they may be bidding. Failure to incorporate all relevant addenda or revisions may cause the bid to be declared unacceptable.

Each addendum or revision will be included with the Electronic Plans and Proposals. Addenda and revisions will also be placed on the Addendum/Revision Checklist and each subscription service subscriber will be notified by e-mail of each addendum and revision issued.

The Internet is the Department's primary way of doing business. The subscription server e-mails are an added courtesy the Department provides. It is suggested that bidders check IDOT's website at <http://www.idot.illinois.gov/doing-business/procurements/construction-services/construction-bulletins/transportation-bulletin/index> before submitting final bid information.

### ***IDOT IS NOT RESPONSIBLE FOR ANY E-MAIL FAILURES.***

Addenda questions may be directed to the Contracts Office at (217)782-7806 or [DOT.D&Econtracts@illinois.gov](mailto:DOT.D&Econtracts@illinois.gov).

Technical questions about downloading these files may be directed to Tim Garman at (217)524-1624 or [Timothy.Garman@illinois.gov](mailto:Timothy.Garman@illinois.gov).

## **BID SUBMITTAL GUIDELINES AND CHECKLIST**

- All pages should be single sided.
- Use the Cover Page that is provided in the Bid Proposal (posted on the IDOT Web Site) as the first page of your submitted bid. It has the Item number in large bold type in the upper left-hand corner of the page.
- Do not use report covers, presentation folders or special bindings and do not staple multiple times on left side like a book. Use only 1 staple in the upper left hand corner.
- Do not include any certificates of eligibility, your authorization to bid, Addendum Letters or affidavit of availability.
- Do not include the Subcontractor Documentation with your bid (pages 30-38).
- Use the envelope cover sheet (provided with the proposal) as the cover for the proposal envelope.
- Do not rely on overnight services to deliver your proposal prior to 10 AM on letting day. It will not be read if it is delivered after 10 AM.
- Do not submit your Substance Abuse Prevention Program (SAPP) with your bid. If you are awarded the contract this form is to be submitted to the Division Construction Engineer at the pre-construction conference.

## **BID SUBMITTAL CHECKLIST**

- Cover page** (the sheet that has the item number on it) – This should be the first page of your proposal, **followed by your bid (the Pay Items)**. If you are using special software or CBID to generate your schedule of prices, do not include the blank schedule of prices that came with the proposal package.
- Page 4 (Item 9)** - Check “YES” if you will use a subcontractor(s) with an annual value over \$50,000. Include the subcontractor(s) name, address, general type of work to be performed and the dollar amount. If you will use subcontractor(s) but are uncertain who or the dollar amount; check “YES” but leave the lines blank.
- After Page 4** – Insert the following documents: Cost Adjustments for Steel, Bituminous, and Fuel (if applicable) and the Contractor Letter of Assent (if applicable). The general rule should be, if you don’t know where it goes, put it after page 4.
- Page 10 (Paragraph J)** - Check “YES” or “NO” whether your company has any business in Iran.
- Page 10 (Paragraph K)** – (Not applicable to federally funded projects) List the name of the apprenticeship and training program sponsor holding the certificate of registration from the US Department of Labor. If no applicable program exists, please indicate the work/job category. **Your bid will not be read if this is not completed.** Do not include certificates with your bid. Keep the certificates in your office in case they are requested by IDOT.
- Page 11 (Paragraph L)** – A copy of your State Board of Elections certificate of registration is no longer required with your bid.
- Page 11 (Paragraph M)** – Indicate if your company has hired a lobbyist in connection with the job for which you are submitting the bid proposal.
- Page 12 (Paragraph C)** - This is a work sheet to determine if a completed Form A is required. It is not part of the form and you do not need to make copies for each completed Form A.
- Pages 14-17 (Form A)** - One Form A (4 pages) is required for each applicable person in your company. Copies of the Forms can be used and only need to be changed when the financial information changes. The certification signature and date must be original for each letting. **Do not staple the forms together.** If you answered “NO” to all of the questions in Paragraph C (page 12), complete the first section (page 14) with your company information and then sign and date the Not Applicable statement on page 17.
- Page 18 (Form B)** - If you check “YES” to having other current or pending contracts it is acceptable to use the phrase, “See Affidavit of Availability on file”. **Ownership Certification** (at the bottom of the page) – Check N/A if the Form A you submitted accounts for 100 percent of the company ownership. Check YES if any percentage of ownership falls outside of the parameters that require reporting on the Form A. Checking NO indicates that the Form A you submitted is not correct and you will be required to submit a revised Form A.
- Pages 20-21 (Workforce Projection)** - Be sure to include the Duration of the Project. It is acceptable to use the phrase “Per Contract Specifications”.
- Proposal Bid Bond** – (After the Proposal Signature Page) Submit your proposal bid bond (if applicable) using the current Bid Bond Form provided in the proposal package. The Power of Attorney page should be stapled to the Bid Bond. If you are using an electronic bond, include your bid bond number on the form and attach the Proof of Insurance printed from the Surety 2000 Web Site.
- Disadvantaged Business Utilization Plan and/or Good Faith Effort** - The last item in your bid should be the DBE Utilization Plan (SBE 2026), followed by the DBE Participation Statement (SBE 2025) and supporting paperwork. If you have documentation for a Good Faith Effort, it should follow the SBE Forms.

# 5A

## RETURN WITH BID

Proposal Submitted By	
Name	
Address	
City/State	9 Digit Zip Code
Telephone No.	Fax No.
Federal Employer Identification No. (FEIN)	
Email Address	

**Letting July 31, 2015**

### NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes by only those companies that request and receive written AUTHORIZATION TO BID from IDOT's Central Bureau of Construction. BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL

# Notice to Bidders, Specifications, Proposal, Contract and Contract Bond



Illinois Department of Transportation  
DIVISION OF AERONAUTICS

Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX

For engineering information, contact Ronald M. Hudson, AICP of Hanson Professional Services Inc. at (630) 368-2059.

FAA rules prohibit the use of escalation clauses for materials. Therefore, the Division of Aeronautics cannot offer any material cost adjustment provisions for projects that utilize Federal funds.

PLEASE MARK THE APPROPRIATE BOX BELOW:

- A Bid Bond is included.
- A Cashier's Check or a Certified Check is included.
- An Annual Bid Bond is included or is on file with IDOT



**PROPOSAL**

TO THE DEPARTMENT OF TRANSPORTATION

1. Proposal of \_\_\_\_\_  
\_\_\_\_\_

Taxpayer Identification Number (Mandatory) \_\_\_\_\_

For the improvement identified and advertised for bids in the Invitation for Bids as:

**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**

**Install AWOS-A/V; Replace Airport Rotating Beacon**

2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.

3. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned bidder further declares that he/she has carefully examined the proposal, plans, specifications, addenda, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this bid proposal he/she waives all right to plead any misunderstanding regarding the same.
4. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned bidder further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bond satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, or as specified in the special provisions, guaranteeing the faithful performance of the work in accordance with the terms of the contract.
5. **PROPOSAL GUARANTY.** Accompanying this proposal is either a bid bond on the department form, executed by a corporate surety company satisfactory to the department, or a proposal guaranty check consisting of a bank cashier's check or a properly certified check for not less than 5 per cent of the amount bid or for the amount specified in the following schedule:

<u>Amount of Bid</u>		<u>Proposal Guaranty</u>	<u>Amount of Bid</u>		<u>Proposal Guaranty</u>
Up to	\$5,000	\$150	\$2,000,000	to	\$3,000,000
\$5,000	to	\$300	\$3,000,000	to	\$5,000,000
\$10,000	to	\$1,000	\$5,000,000	to	\$7,500,000
\$50,000	to	\$3,000	\$7,500,000	to	\$10,000,000
\$100,000	to	\$5,000	\$10,000,000	to	\$15,000,000
\$150,000	to	\$7,500	\$15,000,000	to	\$20,000,000
\$250,000	to	\$12,500	\$20,000,000	to	\$25,000,000
\$500,000	to	\$25,000	\$25,000,000	to	\$30,000,000
\$1,000,000	to	\$50,000	\$30,000,000	to	\$35,000,000
\$1,500,000	to	\$75,000	over		\$35,000,000

Bank cashier's checks or properly certified checks accompanying proposals will be made payable to the Treasurer, State of Illinois.

If a combination bid is submitted, the proposal guaranties which accompany the individual proposals making up the combination will be considered as also covering the combination bid.

The amount of the proposal guaranty check is \_\_\_\_\_ \$(\_\_\_\_\_). If this proposal is accepted and the undersigned will fail to execute contract bond as required herein, it is hereby agreed that the amount of the proposal guaranty will become the property of the State of Illinois, and shall be considered as payment of damages due to delay and other causes suffered by the State because of the failure to execute said contract and contract bond; otherwise, the bid bond will become void or the proposal guaranty check will be returned to the undersigned.

**Attach Cashier's Check or Certified Check Here**

In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual proposal. If the guaranty check is placed in another proposal, state below where it may be found.

The proposal guaranty check will be found in the proposal for:

Item \_\_\_\_\_

Airport \_\_\_\_\_

**Mark the proposal cover sheet as to the type of proposal guaranty submitted.**

**RETURN WITH BID**

6. **COMBINATION BIDS.** The undersigned bidder further agrees that if awarded the contract for the sections contained in the following combination, he/she will perform the work in accordance with the requirements of each individual contract comprising the combination bid specified in the schedule below, and that the combination bid shall be prorated against each section in proportion to the bid submitted for the same. If an error is found to exist in the gross sum bid for one or more of the individual sections included in a combination, the combination bid shall be corrected as provided in the specifications.

**When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.**

**If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.**

**Schedule of Combination Bids**

Combination No.	Sections Included in Combination	Combination Bid	
		Dollars	Cents

7. **SCHEDULE OF PRICES.** The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices will govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.
8. **AUTHORITY TO DO BUSINESS IN ILLINOIS.** Section 20-43 of the Illinois Procurement Code (the Code) (30 ILCS 500/20-43) provides that a person (other than an individual acting as a sole proprietor) must be a legal entity authorized to transact business or conduct affairs in the State of Illinois prior to submitting the bid.
9. **EXECUTION OF CONTRACT.** The Department of Transportation will, in accordance with the rules governing Department procurements, execute the contract and shall be the sole entity having the authority to accept performance and make payments under the contract. Execution of the contract by the Chief Procurement Officer (CPO) or the State Purchasing Officer (SPO) is for approval of the procurement process and execution of the contract by the Department. Neither the CPO nor the SPO shall be responsible for administration of the contract or determinations respecting performance or payment there under except as otherwise permitted in the Code
10. **The services of a subcontractor will be used.**
- Check box Yes
- Check box No

For known subcontractors with subcontracts with an annual value of more than \$50,000, the contract shall include their name, address, general type of work to be performed, and the dollar allocation for each subcontractor. (30 ILCS 500/20-120)

---



---

STATE JOB #- - - -

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SCHEDULE OF PRICES  
 CONTRACT NUMBER - SH027

ECMS002 DTGECM03 ECMR003 PAGE 1  
 RUN DATE - 06/12/15  
 RUN TIME - 220820

COUNTY NAME	CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
COOK	031	01	SCHAUMBURG REGIONAL	3-17-SBGP-XX	06-C -4339

\*\*\*\*\* BASE \*\*\*\*\*

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR101580	REFURBISH 36" BEACON	L.S.	1.000	X	=		
AR108051	POWER CABLE IN UNIT DUCT	L.F.	451.000	X	=		
AR108086	1/C #6 XLP-USE	L.F.	3,737.000	X	=		
AR110550	SPLIT DUCT	L.F.	20.000	X	=		
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1.000	X	=		
AR152411	UNCLASSIFIED EXCAVATION	L.S.	1.000	X	=		
AR156520	INLET PROTECTION	EACH	4.000	X	=		
AR162606	CLASS E GATE-6'	EACH	1.000	X	=		
AR208530	AGGREGATE SUBBASE COURSE	TON	60.000	X	=		
AR208610	10" AGGREGATE BASE COURSE	S.Y.	97.000	X	=		
AR208612	12" AGGREGATE BASE COURSE	S.Y.	132.000	X	=		
AR800908	AWOS A/V, INSTALLED	L.S.	1.000	X	=		
AR800951	MODIFY BEACON INSTALLATION	L.S.	1.000	X	=		
AR800968	VAPOR BARRIER	S.Y.	132.000	X	=		
AR800980	CLASS E FENCE 8' GALV W/2' BURIED	L.F.	124.000	X	=		

SCHAUMBURG REGIONAL  
COOK

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF PRICES  
CONTRACT NUMBER - SH027

ECMS002 DTGECM03 ECMR003 PAGE 2  
RUN DATE - 06/12/15  
RUN TIME - 220820

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR800984	20' (DOUBLE 10') CLASS E GATE	EACH	1.000 X			=	
AR800991	REMOVE FENCE	L.F.	20.000 X			=	
AR901510	SEEDING	ACRE	0.100 X			=	
AR905510	TOPSOILING (FROM ON SITE)	C.Y.	53.000 X			=	
AR908510	MULCHING	ACRE	0.100 X			=	

SUBTOTAL BASE \$ 

--	--

\*\*\*THE DEPARTMENT RESERVES THE RIGHT TO AWARD THIS CONTRACT ON THE  
\*\*\*BASIS OF ANY OF THE ALTERNATES OR COMBINATION THEREOF.



SCHAUMBURG REGIONAL  
COOK

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF PRICES  
CONTRACT NUMBER - SH027

ECMS002 DTGECM03 ECMR003 PAGE 3  
RUN DATE - 06/12/15  
RUN TIME - 220820

\*\*\*\*\* ALT 1 \*\*\*\*\*

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AS208606	6" AGGREGATE BASE COURSE	S.Y.	9.000 X			=	
AS401613	BIT. SURF. CSE.-METHOD I, SUPERPA	TON	10.000 X			=	
AS401660	SAW AND SEAL BIT. JOINTS	L.F.	31.000 X			=	
AS602510	BITUMINOUS PRIME COAT	GAL.	24.000 X			=	
AS754904	REMOVE COMB CURB & GUTTER	L.F.	21.000 X			=	
AS800979	PCC DRIVEWAY	S.Y.	7.000 X			=	
AS800997	DEPRESSED CURB AND GUTTER	L.F.	21.000 X			=	

SUBTOTAL ALT 1 \$ 

--	--

SCHAUMBURG REGIONAL  
COOK

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF PRICES  
CONTRACT NUMBER - SH027

ECMS002 DTGECM03 ECMR003 PAGE 4  
RUN DATE - 06/12/15  
RUN TIME - 220820

\*\*\*\*\* ALT 2 \*\*\*\*\*

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AT800995	UPGRADE FENCE MATERIALS TO VINYL	L.S.	1.000 X		=		
AT800996	UPGRADE GATE MATERIALS TO VINYL	L.S.	1.000 X		=		

SUBTOTAL ALT 2 \$

CONTRACT - SH027 -

SUMMARY OF TOTAL ALTERNATES		
	DOLLARS	CTS
TOTAL BASE	\$	
TOTAL ALT 1	\$	
TOTAL ALT 2	\$	

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

## RETURN WITH BID

### **STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT: ASSURANCES, CERTIFICATIONS AND DISCLOSURES**

#### I. GENERAL

A. Article 50 of the Code establishes the duty of all State CPOs, SPOs, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

B. In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. Except as otherwise required in subsection III, paragraphs J-M, by execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.

C. In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for the CPO to void the contract, and may result in the suspension or debarment of the bidder or subcontractor. If a false certification is made by a subcontractor, the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the States' request after a finding that the subcontractor's certification was false.

I acknowledge, understand and accept these terms and conditions.

#### II. ASSURANCES

The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder.

##### A. Conflicts of Interest

Section 50-13. Conflicts of Interest.

(a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway Authority.

(b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.

(d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.

(e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 calendar days after the officer, member, or employee takes office or is employed. The current salary of the Governor is \$177,412.00. Sixty percent of the salary is \$106,447.20.

## RETURN WITH BID

The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

### **B. Negotiations**

Section 50-15. Negotiations.

It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.

The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **C. Inducements**

Section 50-25. Inducement.

Any person who offers or pays any money or other valuable thing to any person to induce him or her not to provide a submission to a vendor portal or to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract, not making a submission to a vendor portal or who withholds a bid or submission to a vendor portal in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **D. Revolving Door Prohibition**

Section 50-30. Revolving door prohibition.

CPOs, SPOs, procurement compliance monitors, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

### **E. Reporting Anticompetitive Practices**

Section 50-40. Reporting anticompetitive practices.

When, for any reason, any vendor, bidder, contractor, CPO, SPO, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offers, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the CPO.

The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid or submission to a vendor portal is submitted.

### **F. Confidentiality**

Section 50-45. Confidentiality.

Any CPO, SPO, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

## RETURN WITH BID

### **G. Insider Information**

Section 50-50. Insider information.

It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

I acknowledge, understand and accept these terms and conditions for the above assurances.

### **III. CERTIFICATIONS**

The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. Section 50-2 of the Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible CPO whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

#### **A. Bribery**

Section 50-5. Bribery.

(a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

(1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

(2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

(b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

(1) the business has been finally adjudicated not guilty; or

(2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 2012.

(c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

(d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50-5.

#### **B. Felons**

Section 50-10. Felons.

(a) Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

(b) Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code and every vendor's submission to a vendor portal shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any of the certifications required by this Section are false.

## RETURN WITH BID

### **C. Debt Delinquency**

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The bidder or contractor or subcontractor, respectively, further acknowledges that the CPO may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

### **D. Prohibited Bidders, Contractors and Subcontractors**

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, certifies in accordance with Section 50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

### **E. Section 42 of the Environmental Protection Act**

Section 50-14 Environmental Protection Act violations.

The bidder or contractor or subcontractor, respectively, certifies in accordance with Section 50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

### **F. Educational Loan**

Section 3 of the Educational Loan Default Act, 5 ILCS 385/3

Pursuant to the Educational Loan Default Act, no State agency shall contract with an individual for goods or services if that individual is in default on an educational loan.

The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

### **G. Bid-Rigging/Bid Rotating**

Section 33E-11 of the Criminal Code of 2012, 720 ILCS 5/33E-11

(a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article.

(b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

## RETURN WITH BID

The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

### **H. International Anti-Boycott**

Section 5 of the International Anti-Boycott Certification Act provides every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.

The bidder makes the certification set forth in Section 5 of the Act.

### **I. Drug Free Workplace**

The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace in compliance with the provisions of the Act.

### **J. Disclosure of Business Operations in Iran**

Section 50-36 of the Code provides that each bid, offer, or proposal submitted for a State contract shall include a disclosure of whether or not the Company acting as the bidder, offeror, or proposing entity, or any of its corporate parents or subsidiaries, within the 24 months before submission of the bid, offer, or proposal had business operations that involved contracts with or provision of supplies or services to the Government of Iran, companies in which the Government of Iran has any direct or indirect equity share, consortiums or projects commissioned by the Government of Iran, or companies involved in consortiums or projects commissioned by the Government of Iran and either of the following conditions apply:

- (1) More than 10% of the Company's revenues produced in or assets located in Iran involve oil-related activities or mineral-extraction activities; less than 75% of the Company's revenues produced in or assets located in Iran involve contracts with or provision of oil-related or mineral-extraction products or services to the Government of Iran or a project or consortium created exclusively by that government; and the Company has failed to take substantial action.
- (2) The Company has, on or after August 5, 1996, made an investment of \$20 million or more, or any combination of investments of at least \$10 million each that in the aggregate equals or exceeds \$20 million in any 12-month period, which directly or significantly contributes to the enhancement of Iran's ability to develop petroleum resources of Iran.

The terms "Business operations", "Company", "Mineral-extraction activities", "Oil-related activities", "Petroleum resources", and "Substantial action" are all defined in the Code.

Failure to make the disclosure required by the Code may cause the bid, offer or proposal to be considered not responsive. The disclosure will be considered when evaluating the bid, offer, or proposal or awarding the contract. The name of each Company disclosed as doing business or having done business in Iran will be provided to the State Comptroller.

Check the appropriate statement:

Company has no business operations in Iran to disclose.

Company has business operations in Iran as disclosed on the attached document.

**RETURN WITH BID**

**K. Apprenticeship and Training Certification (Does not apply to federal aid projects)**

In accordance with the provisions of Section 30-22 (6) of the Code, the bidder certifies that it is a participant, either as an individual or as part of a group program, in the approved apprenticeship and training programs applicable to each type of work or craft that the bidder will perform with its own forces. The bidder further certifies for work that will be performed by subcontract that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved apprenticeship and training program applicable to the work of the subcontract. The Department, at any time before or after award, may require the production of a copy of each applicable Certificate of Registration issued by the United States Department of Labor evidencing such participation by the contractor and any or all of its subcontractors. Applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate of Registration for all of the types of work or crafts in which the bidder is a participant and that will be performed with the bidder's forces. Types of work or craft work that will be subcontracted shall be included and listed as subcontracted work. The list shall also indicate any type of work or craft job category that does not have an applicable apprenticeship or training program. **The bidder is responsible for making a complete report and shall make certain that each type of work or craft job category that will be utilized on the project as reported on the Construction Employee Workforce Projection (Form BC-1256) and returned with the bid is accounted for and listed.**

Additionally, Section 30-22 of the Code requires that the bidder certify that an Illinois office be maintained as the primary place of employment for persons employed for this contract.

\_\_\_\_\_ **NA-FEDERAL** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The requirements of these certifications and disclosures are a material part of the contract, and the contractor shall require these certification provisions to be included in all approved subcontracts. In order to fulfill this requirement, it shall not be necessary that an applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract.



**RETURN WITH BID**

**L. Political Contributions and Registration with the State Board of Elections.**

Sections 20-160 and 50-37 of the Code regulate political contributions from business entities and any affiliated entities or affiliated persons bidding on or contracting with the state. Generally under Section 50-37, any business entity, and any affiliated entity or affiliated person of the business entity, whose current year contracts with all state agencies exceed an awarded value of \$50,000, are prohibited from making any contributions to any political committees established to promote the candidacy of the officeholder responsible for the awarding of the contracts or any other declared candidate for that office for the duration of the term of office of the incumbent officeholder or a period 2 years after the termination of the contract, whichever is longer. Any business entity and affiliated entities or affiliated persons whose state contracts in the current year do not exceed an awarded value of \$50,000, either alone or in combination with contracts not exceeding \$50,000, are prohibited from making any political contributions to any political committee established to promote the candidacy of the officeholder responsible for awarding the pending contract during the period beginning on the date the invitation for bids or request for proposals or any other procurement opportunity is issued and ending on the day after the date of award or selection if the entity was not awarded or selected. Section 20-160 requires certification of registration of affected business entities in accordance with procedures found in Section 9-35 of The Election Code

By submission of a bid, the contractor business entity acknowledges and agrees that it has read and understands Sections 20-160 and 50-37 of the Code, and that it makes the following certification:

**The undersigned business entity certifies that it has registered as a business with the State Board of Elections and acknowledges a continuing duty to update the registration in accordance with the above referenced statutes. If the business entity is required to register, the CPO shall verify that it is in compliance on the date the bid or proposal is due. The CPO shall not accept a bid or proposal if the business entity is not in compliance with the registration requirements.**

These requirements and compliance with the above referenced statutory sections are a material part of the contract, and any breach thereof shall be cause to void the contract under Section 50-60 of the Code. This provision does not apply to Federal-aid contracts.

**M. Lobbyist Disclosure**

Section 50-38 of the Code requires that any bidder or offeror on a State contract that hires a person required to register under the Lobbyist Registration Act to assist in obtaining a contract shall:

- (i) Disclose all costs, fees, compensation, reimbursements, and other remunerations paid or to be paid to the lobbyist related to the contract,
- (ii) Not bill or otherwise cause the State of Illinois to pay for any of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration, and
- (iii) Sign a verification certifying that none of the lobbyist's costs, fees, compensation, reimbursements, or other remuneration were billed to the State.

This information, along with all supporting documents, shall be filed with the agency awarding the contract and with the Secretary of State. The CPO shall post this information, together with the contract award notice, in the online Procurement Bulletin.

Pursuant to Subsection (c) of this Section, no person or entity shall retain a person or entity to attempt to influence the outcome of a procurement decision made under the Code for compensation contingent in whole or in part upon the decision or procurement. Any person who violates this subsection is guilty of a business offense and shall be fined not more than \$10,000.

Bidder acknowledges that it is required to disclose the hiring of any person required to register pursuant to the Illinois Lobbyist Registration Act (25 ILCS 170) in connection with this contract.

Bidder has not hired any person required to register pursuant to the Illinois Lobbyist Registration Act in connection with this contract.

Or

Bidder has hired the following persons required to register pursuant to the Illinois Lobbyist Registration Act in connection with the contract:

Name and address of person: \_\_\_\_\_  
All costs, fees, compensation, reimbursements and other remuneration paid to said person: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I acknowledge, understand and accept these terms and conditions for the above certifications.

## RETURN WITH BID

### IV. DISCLOSURES

- A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The bidder further certifies that the Department has received the disclosure forms for each bid.

The CPO may void the bid, or contract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Code. Furthermore, the CPO may void the contract and the surety providing the performance bond shall be responsible for completion of the contract.

### B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Code provides that all bids of more than \$50,000 and all submissions to a vendor portal shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the contract. Furthermore, pursuant to Section 5-5, the Procurement Policy Board may review a proposal, bid, or contract and issue a recommendation to void a contract or reject a proposal or bid based on any violation of the Code or the existence of a conflict of interest as provided in subsections (b) and (d) of Section 50-35.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each individual making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each individual making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

**The current annual salary of the Governor is \$177,412.00**

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. **The forms must be included with each bid.**

### C. Disclosure Form Instructions

#### Form A Instructions for Financial Information & Potential Conflicts of Interest

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual or entity holding any ownership share that is in excess of 5%. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on Form A must be signed and dated by an individual that is authorized to execute contracts for the bidding company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES \_\_\_\_\_ NO \_\_\_\_\_
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES \_\_\_\_\_ NO \_\_\_\_\_
3. Does anyone in your organization receive more than 60% of the annual salary of the Governor of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES \_\_\_\_\_ NO \_\_\_\_\_
4. Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES \_\_\_\_\_ NO \_\_\_\_\_

(Note: Only one set of forms needs to be completed per individual per bid even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or the bidding entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by an individual that is authorized to execute contracts for your organization. The individual signing can be, but does not have to be, the individual for which the form is being completed. The bidder is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT of Form A must be signed and dated by an individual that is authorized to execute contracts for your company.

## RETURN WITH BID

### **Form B: Instructions for Identifying Other Contracts & Procurement Related Information**

Disclosure Form B must be completed for each bid submitted by the bidding entity. *Note: Checking the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, checked, and dated or the bidder may be considered nonresponsive and the bid will not be accepted.*

The Bidder shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:

Option I: If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.

Option II: If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type "See Affidavit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois agency pending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the Affidavit of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.

**ILLINOIS DEPARTMENT  
OF TRANSPORTATION**

**Form A  
Financial Information &  
Potential Conflicts of Interest  
Disclosure**

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by Section 50-35 of the Code (30 ILCS 500). Vendors desiring to enter into a contract with the State of Illinois must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for bids in excess of \$50,000, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

*The current salary of the Governor is \$177,412.00.*

**DISCLOSURE OF FINANCIAL INFORMATION**

**1. Disclosure of Financial Information.** The individual named below has an interest in the BIDDER (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than 60% of the annual salary of the Governor. **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

<b>FOR INDIVIDUAL (type or print information)</b>
<b>NAME:</b> _____
<b>ADDRESS</b> _____
<b>Type of ownership/distributable income share:</b>
stock _____ sole proprietorship _____ partnership _____ other: (explain on separate sheet)
% or \$ value of ownership/distributable income share: _____

**2. Disclosure of Potential Conflicts of Interest.** Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services. Yes\_\_\_\_ No\_\_\_\_

If your answer is yes, please answer each of the following questions.

1. Are you currently an officer or employee of either the Capitol Development Board or the Illinois State Toll Highway Authority? Yes\_\_\_\_ No\_\_\_\_

2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, provide the name of the State agency for which you are employed and your annual salary. \_\_\_\_\_

**RETURN WITH BID**

3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_
4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_

---

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years. Yes \_\_\_\_\_ No \_\_\_\_\_

If your answer is yes, please answer each of the following questions.

1. Is your spouse or any minor children currently an officer or employee of the Capital Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_\_\_ No \_\_\_\_\_
2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of your spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. \_\_\_\_\_
- 
3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_
4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15% in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_

---

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter Yes \_\_\_\_\_ No \_\_\_\_\_

---

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government. Yes \_\_\_\_\_ No \_\_\_\_\_

---

**RETURN WITH BID**

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes\_\_\_\_ No\_\_\_\_

---

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections  
Yes\_\_\_\_ No\_\_\_\_

---

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections.  
Yes\_\_\_\_ No\_\_\_\_

---

**3. Communication Disclosure.**

Disclose the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in Section 2 of this form, who has communicated, is communicating, or may communicate with any State officer or employee concerning the bid or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the process and throughout the term of the contract. If no person is identified, enter "None" on the line below:

Name and address of person(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RETURN WITH BID**

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below:

Name of person(s): \_\_\_\_\_

Nature of disclosure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**APPLICABLE STATEMENT**

**This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge.**

Completed by:  \_\_\_\_\_ Date \_\_\_\_\_  
Signature of Individual or Authorized Officer

**NOT APPLICABLE STATEMENT**

**Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.**

**This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.**

\_\_\_\_\_ Date \_\_\_\_\_  
Signature of Authorized Officer

The bidder has a continuing obligation to supplement these disclosures under Sec. 50-35 of the Code.

RETURN WITH BID

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Other Contracts & Procurement Related Information Disclosure

Contractor Name, Legal Address, City, State, Zip, Telephone Number, Email Address, Fax Number (if available)

Disclosure of the information contained in this Form is required by Section 50-35 of the Code (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for all bids.

DISCLOSURE OF OTHER CONTRACTS AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The BIDDER shall identify whether it has any pending contracts (including leases), bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes \_\_\_\_\_ No \_\_\_\_\_ If "No" is checked, the bidder only needs to complete the signature box on this page.

2. If "Yes" is checked. Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

THE FOLLOWING STATEMENT MUST BE CHECKED

Signature of Authorized Representative, Date

OWNERSHIP CERTIFICATION

Please certify that the following statement is true if the individuals for all submitted Form A disclosures do not total 100% of ownership.

Any remaining ownership interest is held by individuals receiving less than \$106,447.20 of the bidding entity's or parent entity's distributive income or holding less than a 5% ownership interest.

Yes No N/A (Form A disclosure(s) established 100% ownership)



## **RETURN WITH BID**

### **SPECIAL NOTICE TO CONTRACTORS**

The following requirements of the Illinois Department of Human Rights' Act are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

#### **CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION**

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Title 44, Illinois Administrative Code, Section 750.120. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.



**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**

**PART I. IDENTIFICATION**

Dept. of Human Rights # \_\_\_\_\_ Duration of Project: \_\_\_\_\_

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

**PART II. WORKFORCE PROJECTION**

A. The undersigned bidder has analyzed minority group and female populations, unemployment rates and availability of workers for the location in which this contract work is to be performed, and for the locations from which the bidder recruits employees, and hereby submits the following workforce projection including a projection for minority and female employee utilization in all job categories in the workforce to be allocated to this contract:

TABLE A

TOTAL Workforce Projection for Contract												
JOB CATEGORIES	TOTAL EMPLOYEES		MINORITY EMPLOYEES						TRAINEES			
			BLACK		HISPANIC		*OTHER MINOR.		APPRENTICES		ON THE JOB TRAINEES	
	M	F	M	F	M	F	M	F	M	F	M	F
OFFICIALS (MANAGERS)												
SUPERVISORS												
FOREMEN												
CLERICAL												
EQUIPMENT OPERATORS												
MECHANICS												
TRUCK DRIVERS												
IRONWORKERS												
CARPENTERS												
CEMENT MASONS												
ELECTRICIANS												
PIPEFITTERS, PLUMBERS												
PAINTERS												
LABORERS, SEMI-SKILLED												
LABORERS, UNSKILLED												
<b>TOTAL</b>												

TABLE B

CURRENT EMPLOYEES TO BE ASSIGNED TO CONTRACT			
TOTAL EMPLOYEES		MINORITY EMPLOYEES	

TABLE C

TOTAL Training Projection for Contract								
EMPLOYEES IN TRAINING	TOTAL EMPLOYEES		BLACK		HISPANIC		*OTHER MINOR.	
	M	F	M	F	M	F	M	F
APPRENTICES								
ON THE JOB TRAINEES								

\* Other minorities are defined as Asians (A) or Native Americans (N). Please specify race of each employee shown in Other Minorities column.

FOR DEPARTMENT USE ONLY

Note: See instructions on page 2

**RETURN WITH BID**

**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**

**PART II. WORKFORCE PROJECTION - continued**

- B. Included in "Total Employees" under Table A is the total number of **new hires** that would be employed in the event the undersigned bidder is awarded this contract.

The undersigned bidder projects that: (number) \_\_\_\_\_ new hires would be recruited from the area in which the contract project is located; and/or (number) \_\_\_\_\_ new hires would be recruited from the area in which the bidder's principal office or base of operation is located.

- C. Included in "Total Employees" under Table A is a projection of numbers of persons to be employed directly by the undersigned bidder as well as a projection of numbers of persons to be employed by subcontractors.

The undersigned bidder estimates that (number) \_\_\_\_\_ persons will be directly employed by the prime contractor and that (number) \_\_\_\_\_ persons will be employed by subcontractors.

**PART III. AFFIRMATIVE ACTION PLAN**

- A. The undersigned bidder understands and agrees that in the event the foregoing minority and female employee utilization projection included under **PART II** is determined to be an underutilization of minority persons or women in any job category, and in the event that the undersigned bidder is awarded this contract, he/she will, prior to commencement of work, develop and submit a written Affirmative Action Plan including a specific timetable (geared to the completion stages of the contract) whereby deficiencies in minority and/or female employee utilization are corrected. Such Affirmative Action Plan will be subject to approval by the contracting agency and the **Illinois Department of Human Rights**.
- B. The undersigned bidder understands and agrees that the minority and female employee utilization projection submitted herein, and the goals and timetable included under an Affirmative Action Plan if required, are deemed to be part of the contract specifications.

Company \_\_\_\_\_

Telephone Number \_\_\_\_\_

Address \_\_\_\_\_

**NOTICE REGARDING SIGNATURE**

The Bidder's signature on the Proposal Signature Sheet will constitute the signing of this form. The following signature block needs to be completed only if revisions are required.

Signature:  \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Instructions: All tables must include subcontractor personnel in addition to prime contractor personnel.

Table A - Include both the number of employees that would be hired to perform the contract work and the total number currently employed (Table B) that will be allocated to contract work, and include all apprentices and on-the-job trainees. The "Total Employees" column should include all employees including all minorities, apprentices and on-the-job trainees to be employed on the contract work.

Table B - Include all employees currently employed that will be allocated to the contract work including any apprentices and on-the-job trainees currently employed.

Table C - Indicate the racial breakdown of the total apprentices and on-the-job trainees shown in Table A.

**RETURN WITH BID**

**ADDITIONAL FEDERAL REQUIREMENTS**

In addition to the Required Contract Provisions for Federally funded airport construction contracts, all bidders make the following certifications.

A. By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.

**B. CERTIFICATION, EQUAL EMPLOYMENT OPPORTUNITY**

1. Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause?  
Yes\_\_\_\_ No\_\_\_\_
  
2. If your answer is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? Yes\_\_\_\_ No\_\_\_\_

**RETURN WITH BID**

**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 3 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

Firm Name \_\_\_\_\_

(IF AN INDIVIDUAL) Signature of Owner \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_

Firm Name \_\_\_\_\_

By \_\_\_\_\_

(IF A CO-PARTNERSHIP) Business Address \_\_\_\_\_

\_\_\_\_\_

Name and Address of All Members of the Firm:

\_\_\_\_\_

\_\_\_\_\_

Corporate Name \_\_\_\_\_

By \_\_\_\_\_

(IF A CORPORATION) Signature of Authorized Representative \_\_\_\_\_

Typed or printed name and title of Authorized Representative \_\_\_\_\_

(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE SECOND PARTY SHOULD SIGN BELOW) Attest \_\_\_\_\_

Signature \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_

Corporate Name \_\_\_\_\_

By \_\_\_\_\_

(IF A JOINT VENTURE) Signature of Authorized Representative \_\_\_\_\_

Typed or printed name and title of Authorized Representative \_\_\_\_\_

Attest \_\_\_\_\_

Signature \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_

If more than two parties are in the joint venture, please attach additional signature sheet



Sponsor \_\_\_\_\_ Item No. \_\_\_\_\_

IL Proj. No. \_\_\_\_\_ SBG Pr. No. \_\_\_\_\_ Letting Date \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, That We \_\_\_\_\_

\_\_\_\_\_ as PRINCIPAL, and \_\_\_\_\_

\_\_\_\_\_ as SURETY, are held jointly, severally and firmly bound unto the SPONSOR identified above, in the penal sum of 5 percent of the total bid price, or for the amount specified in Section 6, Proposal Guaranty of the Proposal Document, whichever is the lesser sum, well and truly to be paid unto said SPONSOR, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, that whereas, the PRINCIPAL has submitted a bid proposal to the SPONSOR through its AGENT, the State of Illinois, Department of Transportation, Division of Aeronautics, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above.

NOW, THEREFORE, if the SPONSOR through its AGENT shall accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, and as specified in the bidding and contract documents, submit a DBE Utilization Plan that is accepted and approved by the AGENT; and if, after the award by AGENT on behalf of SPONSOR, the PRINCIPAL shall enter into a contract in accordance with the terms of the bidding and contract documents, including evidence of the required insurance coverages and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission or to enter into such contract and to give the specified bond, the PRINCIPAL pays to the SPONSOR the difference not to exceed the penalty hereof between the amount specified in the bid proposal and such larger amount for which the SPONSOR may contract with another party to perform the work covered by said bid proposal, then this obligation shall be null and void, otherwise, it shall remain in full force and effect.

IN THE EVENT the SPONSOR acting through its AGENT determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then SURETY shall pay the penal sum to the SPONSOR within fifteen (15) days of written demand therefor. If SURETY does not make full payment within such period of time, the AGENT may bring an action to collect the amount owed. SURETY is liable to the SPONSOR and to the AGENT for all its expenses, including attorney's fees, incurred in any litigation in which SPONSOR or AGENT prevail either in whole or in part.

In TESTIMONY WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by their respective officers \_\_\_\_\_ day of \_\_\_\_\_ A.D., \_\_\_\_\_ .

**PRINCIPAL**

**SURETY**

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Company Name)

By \_\_\_\_\_  
(Signature & Title)

By: \_\_\_\_\_  
(Signature of Attorney-in-Fact)

**Notary Certification for Principal and Surety**

STATE OF ILLINOIS,  
County of \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public in and for said County, do hereby certify that \_\_\_\_\_ and \_\_\_\_\_  
(Insert names of individuals signing on behalf of PRINCIPAL & SURETY)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and SURETY, appeared before me this day in person and acknowledged respectively, that they signed and delivered said instrument as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_ A.D. \_\_\_\_\_

My commission expires \_\_\_\_\_  
\_\_\_\_\_  
Notary Public

In lieu of completing the above section of the Proposal Bid Form, the Principal may file an Electronic Bid Bond. By signing the proposal and marking the check box next to the Signature and Title line below, the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the SPONSOR through its AGENT under the conditions of the bid bond as shown above.

Electronic Bid Bond ID# \_\_\_\_\_ Company / Bidder Name \_\_\_\_\_ Signature and Title \_\_\_\_\_



RETURN WITH BID

Division of Highways  
Proposal Bid Bond

Item No. \_\_\_\_\_

Letting Date \_\_\_\_\_

KNOW ALL PERSONS BY THESE PRESENTS, That We \_\_\_\_\_

as PRINCIPAL, and \_\_\_\_\_

as SURETY, and held jointly, severally and firmly bound unto the STATE OF ILLINOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in the bid proposal under "Proposal Guaranty" in effect on the date of the Invitation for Bids, whichever is the lesser sum, well and truly to be paid unto said STATE OF ILLINOIS, for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF ILLINOIS, acting through the Department of Transportation, for the improvement designated by the Transportation Bulletin Item Number and Letting Date indicated above.

NOW, THEREFORE, if the Department shall accept the bid proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in the bidding and contract documents; and if, after award by the Department, the PRINCIPAL shall enter into a contract in accordance with the terms of the bidding and contract documents including evidence of the required insurance coverages and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for the prompt payment of labor and material furnished in the prosecution thereof; or if, in the event of the failure of the PRINCIPAL to enter into such contract and to give the specified bond, the PRINCIPAL pays to the Department the difference not to exceed the penalty hereof between the amount specified in the bid proposal and such larger amount for which the Department may contract with another party to perform the work covered by said bid proposal, then this obligation shall be null and void, otherwise, it shall remain in full force and effect.

IN THE EVENT the Department determines the PRINCIPAL has failed to comply with any requirement as set forth in the preceding paragraph, then Surety shall pay the penal sum to the Department within fifteen (15) days of written demand therefor. If Surety does not make full payment within such period of time, the Department may bring an action to collect the amount owed. Surety is liable to the Department for all its expenses, including attorney's fees, incurred in any litigation in which it prevails either in whole or in part.

In TESTIMONY WHEREOF, the said PRINCIPAL has caused this instrument to be signed by its officer \_\_\_\_\_ day of \_\_\_\_\_ A.D., \_\_\_\_\_.

In TESTIMONY WHEREOF, the said SURETY has caused this instrument to be signed by its officer \_\_\_\_\_ day of \_\_\_\_\_ A.D., \_\_\_\_\_.

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Company Name)

By \_\_\_\_\_  
(Signature and Title)

By \_\_\_\_\_  
(Signature of Attorney-in-Fact)

**Notary for PRINCIPAL**

**Notary for SURETY**

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

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

Signed and attested before me on \_\_\_\_\_ (date)  
by \_\_\_\_\_

Signed and attested before me on \_\_\_\_\_ (date)  
by \_\_\_\_\_

\_\_\_\_\_  
(Name of Notary Public)

\_\_\_\_\_  
(Name of Notary Public)

(Seal) \_\_\_\_\_  
(Signature of Notary Public)

(Seal) \_\_\_\_\_  
(Signature of Notary Public)

\_\_\_\_\_  
(Date Commission Expires)

\_\_\_\_\_  
(Date Commission Expires)

In lieu of completing the above section of the Proposal Bid Bond form, the Principal may file an Electronic Bid Bond. By signing the proposal the Principal is ensuring the identified electronic bid bond has been executed and the Principal and Surety are firmly bound unto the State of Illinois under the conditions of the bid bond as shown above.

Electronic Bid Bond ID # \_\_\_\_\_ Company/Bidder Name \_\_\_\_\_ Signature and Title \_\_\_\_\_

**(1) Policy**

It is public policy that disadvantageded businesses as defined in 49 CFR Part 26 and the Special Provision shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with Federal or State funds. Consequently the requirements of 49 CFR Part 26 apply to this contract.

**(2) Obligation**

The contractor agrees to ensure that disadvantageded businesses as defined in 49 CFR Part 26 and the Special Provision have the maximum opportunity to participate in the performance of contracts or subcontracts financed in whole or in part with Federal or State funds. The contractor shall take all necessary and reasonable steps in accordance with 49 CFR Part 26 and the Special Provision to ensure that said businesses have the maximum opportunity to compete for and perform under this contract. The contractor shall not discriminate on the basis of race, color, national origin or sex in the award and performance of contracts.

**(3) Project and Bid Identification**

Complete the following information concerning the project and bid:

Route Schaumburg Regional Airport  
Section \_\_\_\_\_  
Project 06C-4339  
County Cook/DuPage County  
Letting Date July 31, 2015  
Contract No. SH027  
Letting Item No. 5A

Total Bid \_\_\_\_\_  
Contract DBE Goal 4.6% \_\_\_\_\_  
(Percent) (Dollar Amount)

**(4) Assurance**

I, acting in my capacity as an officer of the undersigned bidder (or bidders if a joint venture), hereby assure the Department that on this project my company : (check one)

Meets or exceeds contract award goals and has provided documented participation as follows:  
Disadvantaged Business Participation \_\_\_\_\_ percent

Attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

Failed to meet contract award goals and has included good faith effort documentation to meet the goals and that my company has provided participation as follows:

Disadvantaged Business Participation \_\_\_\_\_ percent

The contract goals should be accordingly modified or waived. Attached is all information required by the Special Provision in support of this request including good faith effort. Also attached are the signed participation statements, forms SBE 2025, required by the Special Provision evidencing availability and use of each business participating in this plan and assuring that each business will perform a commercially useful function in the work of the contract.

\_\_\_\_\_  
Company

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

The "as read" Low Bidder is required to comply with the Special Provision.

Submit only one utilization plan for each project. The utilization plan shall be submitted in accordance with the special provision.

Bureau of Small Business Enterprises  
2300 South Dirksen Parkway  
Springfield, Illinois 62764

**Local Let Projects**  
Submit forms to the  
Local Agency

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the purpose as outlined under State and Federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Manager Center.





Subcontractor Registration Number \_\_\_\_\_

Letting July 31, 2015

**Participation Statement**

Item No. 5A

(1) Instructions

Contract No. SH027

This form must be completed for each disadvantaged business participating in the Utilization Plan. This form shall be submitted in accordance with the special provision and will be attached to the Utilization Plan form. If additional space is needed complete an additional form for the firm. Trucking participation items; description must list what is anticipated towards goal credit.

(2) Work:

**Please indicate:** J/V \_\_\_\_\_ Manufacturer \_\_\_\_\_ Supplier (60%) \_\_\_\_\_ Subcontractor \_\_\_\_\_ Trucking \_\_\_\_\_

Pay Item No.	Description (Anticipated items for trucking)*	Quantity	Unit Price	Total
<b>Total</b>				

(3) Partial Payment Items (For any of the above items which are partial pay items)

Description must be sufficient to determine a Commercially Useful Function, specifically describe the work and subcontract dollar amount:

\*Applies to trucking only

(4) Commitment

When a DBE is to be a second-tier subcontractor, or if the first-tier DBE subcontractor is going to be subcontracting a portion of its subcontract, it must be clearly indicated on the DBE Participation Statement, and the details of the transaction fully explained.

In the event a DBE subcontractor second-tiers a portion of its subcontract to one or more subcontractors during the work of a contract, the prime must submit a DBE Participation Statement, with the details of the transaction(s) fully explained.

The undersigned certify that the information included herein is true and correct, and that the DBE firm listed below has agreed to perform a commercially useful function in the work of the contract item(s) listed above and to execute a contract with the prime contractor or 1<sup>st</sup> Tier subcontractor. The undersigned further understand that no changes to this statement may be made without prior approval from the Department’s Bureau of Small Business Enterprises and that complete and accurate information regarding actual work performed on this project and the payment therefore must be provided to the Department.

\_\_\_\_\_  
Signature for Contractor \_\_ 1<sup>st</sup> Tier \_\_ 2<sup>nd</sup> Tier

\_\_\_\_\_  
Signature for DBE Firm \_\_ 1<sup>st</sup> Tier \_\_ 2<sup>nd</sup> Tier

Date \_\_\_\_\_

Date \_\_\_\_\_

Contact \_\_\_\_\_

Contact \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

Firm Name \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_

Phone \_\_\_\_\_

Email Address \_\_\_\_\_

Email Address \_\_\_\_\_

The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under the state and federal law. Disclosure of this information is **REQUIRED**. Failure to provide any information will result in the contract not being awarded. This form has been approved by the State Forms Management Center.

E \_\_\_\_\_  
WC \_\_\_\_\_

PROPOSAL ENVELOPE



# PROPOSALS

for construction work advertised for bids by the  
Illinois Department of Transportation

Item No.	Item No.	Item No.

Submitted By:

Name:
Address:
Phone No.

Bidders should use an IDOT proposal envelope or affix this form to the front of a 10" x 13" envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 326  
Illinois Department of Transportation  
2300 South Dirksen Parkway  
Springfield, Illinois 62764

**NOTICE**

Individual bids, including Bid Bond and/or supplemental information if required, should be securely stapled.

# CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

## NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.

**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**



**Illinois Department of Transportation**

## **SUBCONTRACTOR DOCUMENTATION**

Public Acts 96-0795, 96-0920, and 97-0895 enacted substantial changes to the provisions of the Code (30 ILCS 500). Among the changes are provisions affecting subcontractors. The Contractor awarded this contract will be required as a material condition of the contract to implement and enforce the contract requirements applicable to subcontractors that entered into a contractual agreement with a total value of \$50,000 or more with a person or entity who has a contract subject to the Code and approved in accordance with Section 80-01 of the Illinois Standard Specifications for Construction of Airports.

If the Contractor seeks approval of subcontractors to perform a portion of the work, and approval is granted by the Department, the Contractor shall provide a copy of the subcontract to the Illinois Department of Transportation's CPO upon request within 15 calendar days after execution of the subcontract.

Financial disclosures required pursuant to Section 50-35 of the Code must be submitted for all applicable subcontractors. The subcontract shall contain the certifications required to be made by subcontractors pursuant to Article 50 of the Code. This Notice to Bidders includes a document incorporating all required subcontractor certifications and disclosures for use by the Contractor in compliance with this mandate. The document is entitled State Required Ethical Standards Governing Subcontractors.

## RETURN WITH SUBCONTRACT

### STATE ETHICAL STANDARDS GOVERNING SUBCONTRACTORS

Article 50 of the Code establishes the duty of all State CPOs, SPOs, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.

The certifications hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed should the Department approve the subcontractor. The CPO may terminate or void the contract approval if it is later determined that the bidder or subcontractor rendered a false or erroneous certification. If a false certification is made by a subcontractor the contractor's submitted bid and the executed contract may not be declared void unless the contractor refuses to terminate the subcontract upon the State's request after a finding that the subcontractor's certification was false.

Section 50-2 of the Code provides that every person that has entered into a multi-year contract and every subcontractor with a multi-year subcontract shall certify, by July 1 of each fiscal year covered by the contract after the initial fiscal year, to the responsible CPO whether it continues to satisfy the requirements of Article 50 pertaining to the eligibility for a contract award. If a contractor or subcontractor is not able to truthfully certify that it continues to meet all requirements, it shall provide with its certification a detailed explanation of the circumstances leading to the change in certification status. A contractor or subcontractor that makes a false statement material to any given certification required under Article 50 is, in addition to any other penalties or consequences prescribed by law, subject to liability under the Whistleblower Reward and Protection Act for submission of a false claim.

#### **A. Bribery**

Section 50-5. Bribery.

(a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:

(1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or

(2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

(b) Businesses. No business shall be barred from contracting with any unit of State or local government, or subcontracting under such a contract, as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:

(1) the business has been finally adjudicated not guilty; or

(2) the business demonstrates to the governmental entity with which it seeks to contract, or which is signatory to the contract to which the subcontract relates, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 2012.

(c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

(d) Certification. Every bid submitted to and contract executed by the State, and every subcontract subject to Section 20-120 of the Code shall contain a certification by the contractor or the subcontractor, respectively, that the contractor or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any certifications required by this Section are false. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

The contractor or subcontractor certifies that it is not barred from being awarded a contract under Section 50-5.

#### **B. Felons**

Section 50-10. Felons.

(a.) Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any State agency, or enter into a subcontract, from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

(b.) Certification. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder or contractor or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO may declare the related contract void if any of the certifications required by this Section are false.

## RETURN WITH SUBCONTRACT

### **C. Debt Delinquency**

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder or subcontractor, respectively, certifies that it, or any affiliate, is not barred from being awarded a contract or subcontract under the Code. Section 50-11 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency, or entering into a subcontract, if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The bidder or contractor or subcontractor, respectively, further acknowledges that the CPO may declare the related contract void if this certification is false or if the bidder, contractor, or subcontractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

### **D. Prohibited Bidders, Contractors and Subcontractors**

Section 50-10.5 and 50-60(c). Prohibited bidders, contractors and subcontractors.

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 or if in violation of Subsection (c) for a period of five years from the date of conviction. Every bid submitted to and contract executed by the State and every subcontract subject to Section 20-120 of the Code shall contain a certification by the bidder, contractor, or subcontractor, respectively, that the bidder, contractor, or subcontractor is not barred from being awarded a contract or subcontract under this Section and acknowledges that the CPO shall declare the related contract void if any of the certifications completed pursuant to this Section are false.

### **E. Section 42 of the Environmental Protection Act**

The bidder or contractor or subcontractor, respectively, certifies in accordance with 30 ILCS 500/50-14 that the bidder, contractor, or subcontractor, is not barred from being awarded a contract or entering into a subcontract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency, or entering into any subcontract, that is subject to the Code by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The bidder or contractor or subcontractor, respectively, acknowledges that the CPO may declare the contract void if this certification is false.

**The undersigned, on behalf of the subcontracting company, has read and understands the above certifications and makes the certifications as required by law.**

<hr/>		
Name of Subcontracting Company		
<hr/>		<hr/>
Authorized Officer		Date

## RETURN WITH SUBCONTRACT

### SUBCONTRACTOR DISCLOSURES

#### I. DISCLOSURES

- A. The disclosures hereinafter made by the subcontractor are each a material representation of fact upon which reliance is placed. The subcontractor further certifies that the Department has received the disclosure forms for each subcontract.

The CPO may void the bid, contract, or subcontract, respectively, if it is later determined that the bidder or subcontractor rendered a false or erroneous disclosure. A contractor or subcontractor may be suspended or debarred for violations of the Code. Furthermore, CPO may void the contract.

#### B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Code provides that all subcontracts with a total value of \$50,000 or more from subcontractors identified in Section 20-120 of the Code shall be accompanied by disclosure of the financial interests of the subcontractor. This disclosed information for the subcontractor, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act, filed with the Procurement Policy Board, and shall be incorporated as a material term of the Prime Contractor's contract. Furthermore, pursuant to this Section, the Procurement Policy Board may recommend to allow or void a contract or subcontract based on a potential conflict of interest.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the subcontracting entity or its parent entity, whichever is less, unless the subcontractor is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each Individual making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each individual making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

**The current annual salary of the Governor is \$177,412.00.**

In addition, all disclosures shall indicate any other current or pending contracts, subcontracts, proposals, leases, or other ongoing procurement relationships the subcontracting entity has with any other unit of state government and shall clearly identify the unit and the contract, subcontract, proposal, lease, or other relationship.

2. Disclosure Forms. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. A separate Disclosure Form A must be submitted with the bid for each individual meeting the above requirements. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies and a total ownership certification. **The forms must be included with each bid.**

#### C. Disclosure Form Instructions

##### Form A Instructions for Financial Information & Potential Conflicts of Interest

If the subcontractor is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a subcontractor is a privately held entity that is exempt from Federal 10K reporting, but has more than 100 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any individual or entity holding any ownership share that is in excess of 5%. If a subcontractor is not subject to Federal 10K reporting, the subcontractor must determine if any individuals are required by law to complete a financial disclosure form. To do this, the subcontractor should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by an individual that is authorized to execute contracts for the subcontracting company. Note: These questions are for assistance only and are not required to be completed.

1. Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity?  
YES \_\_\_\_\_ NO \_\_\_\_\_
2. Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than 60% of the annual salary of the Governor? YES \_\_\_\_\_ NO \_\_\_\_\_
3. Does anyone in your organization receive more than 60% of the annual salary of the Governor of the subcontracting entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES \_\_\_\_\_ NO \_\_\_\_\_
4. Does anyone in your organization receive greater than 5% of the subcontracting entity's or parent entity's total distributive income, but which is less than 60% of the annual salary of the Governor? YES \_\_\_\_\_ NO \_\_\_\_\_

(Note: Only one set of forms needs to be completed per individual per subcontract even if a specific individual would require a yes answer to more than one question.)

A "YES" answer to any of these questions requires the completion of Form A. The subcontractor must determine each individual in the subcontracting entity or the subcontracting entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by an individual that is authorized to execute contracts for your organization. The individual signing can be, but does not have to be, the individual for which the form is being completed. The subcontractor is responsible for the accuracy of any information provided.

If the answer to each of the above questions is "NO", then the NOT APPLICABLE STATEMENT on page 2 of Form A must be signed and dated by an individual that is authorized to execute contracts for your company.

## RETURN WITH SUBCONTRACT

### **Form B: Instructions for Identifying Other Contracts & Procurement Related Information**

Disclosure Form B must be completed for each subcontract submitted by the subcontracting entity. *Note: Checking the NOT APPLICABLE STATEMENT on Form A does not allow the subcontractor to ignore Form B. Form B must be completed, checked, and dated or the subcontract will not be approved.*

The Subcontractor shall identify, by checking Yes or No on Form B, whether it has any pending contracts, subcontracts, leases, bids, proposals, or other ongoing procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the subcontractor only needs to complete the check box on the bottom of Form B. If "Yes" is checked, the subcontractor must list all non-IDOT State of Illinois agency pending contracts, subcontracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an attached sheet(s). Contracts with cities, counties, villages, etc. are not considered State of Illinois agency contracts and are not to be included. Contracts or subcontracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital Development Board must be included.



**ILLINOIS DEPARTMENT  
OF TRANSPORTATION**

**Form A  
Subcontractor: Financial  
Information & Potential Conflicts  
of Interest Disclosure**

Subcontractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)

Disclosure of the information contained in this Form is required by Section 50-35 of the Code (30 ILCS 500). Subcontractors desiring to enter into a subcontract of a State of Illinois contract must disclose the financial information and potential conflict of interest information as specified in this Disclosure Form. This information shall become part of the publicly available contract file. This Form A must be completed for subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure (or equivalent if applicable) in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

*The current annual salary of the Governor is \$177,412.00.*

**DISCLOSURE OF FINANCIAL INFORMATION**

**1. Disclosure of Financial Information.** The individual named below has an interest in the SUBCONTRACTOR (or its parent) in terms of ownership or distributive income share in excess of 5%, or an interest which has a value of more than 60% of the annual salary of the Governor. **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

<b>FOR INDIVIDUAL (type or print information)</b>	
<b>NAME:</b>	_____
<b>ADDRESS</b>	_____
<b>Type of ownership/distributable income share:</b>	
stock _____	sole proprietorship _____ Partnership _____ other: (explain on separate sheet):
% or \$ value of ownership/distributable income share: _____	

**2. Disclosure of Potential Conflicts of Interest.** Check "Yes" or "No" to indicate which, if any, of the following potential conflict of interest relationships apply. If the answer to any question is "Yes", please attach additional pages and describe.

(a) State employment, currently or in the previous 3 years, including contractual employment of services. Yes \_\_\_\_\_ No \_\_\_\_\_

If your answer is yes, please answer each of the following questions.

- Are you currently an officer or employee of either the Capitol Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_\_\_ No \_\_\_\_\_
- Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, provide the name the State agency for which you are employed and your annual salary \_\_\_\_\_

**RETURN WITH SUBCONTRACT**

- 3. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 100% of the annual salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_
- 4. If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of two times the salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_

---

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment services in the previous 2 years. Yes \_\_\_\_\_ No \_\_\_\_\_

If your answer is yes, please answer each of the following questions.

- 1. Is your spouse or any minor children currently an officer or employee of the Capitol Development Board or the Illinois State Toll Highway Authority? Yes \_\_\_\_\_ No \_\_\_\_\_
- 2. Is your spouse or any minor children currently appointed to or employed by any agency of the State of Illinois? If your spouse or minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, provide the name of your spouse and/or minor children, the name of the State agency for which he/she is employed and his/her annual salary. \_\_\_\_\_
- 3. If your spouse or any minor children is/are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you entitled to receive (i) more than 7 1/2% of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of the salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_
- 4. If your spouse or any minor children are currently appointed to or employed by any agency of the State of Illinois, and his/her annual salary exceeds 60% of the annual salary of the Governor, are you and your spouse or minor children entitled to receive (i) more than 15 % in the aggregate of the total distributable income of your firm, partnership, association or corporation, or (ii) an amount in excess of 2 times the salary of the Governor? Yes \_\_\_\_\_ No \_\_\_\_\_

---

(c) Elective status; the holding of elective office of the State of Illinois, the government of the United States, any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois currently or in the previous 3 years. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(d) Relationship to anyone holding elective office currently or in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(e) Appointive office; the holding of any appointive government office of the State of Illinois, the United States of America, or any unit of local government authorized by the Constitution of the State of Illinois or the statutes of the State of Illinois, which office entitles the holder to compensation in excess of the expenses incurred in the discharge of that office currently or in the previous 3 years. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(f) Relationship to anyone holding appointive office currently or in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_\_\_ No \_\_\_\_\_

---

(g) Employment, currently or in the previous 3 years, as or by any registered lobbyist of the State government. Yes \_\_\_\_\_ No \_\_\_\_\_

---

**RETURN WITH SUBCONTRACT**

(h) Relationship to anyone who is or was a registered lobbyist in the previous 2 years; spouse, father, mother, son, or daughter. Yes \_\_\_\_\_ No \_\_\_\_\_

(i) Compensated employment, currently or in the previous 3 years, by any registered election or reelection committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_\_\_ No \_\_\_\_\_

(j) Relationship to anyone; spouse, father, mother, son, or daughter; who was a compensated employee in the last 2 years by any registered election or re-election committee registered with the Secretary of State or any county clerk of the State of Illinois, or any political action committee registered with either the Secretary of State or the Federal Board of Elections. Yes \_\_\_\_\_ No \_\_\_\_\_

**3. Communication Disclosure.**

Disclose the name and address of each lobbyist and other agent of the bidder or offeror who is not identified in Section 2 of this form, who has communicated, is communicating, or may communicate with any State officer or employee concerning the bid or offer. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the process and throughout the term of the contract. If no person is identified, enter "None" on the line below:

Name and address of person(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RETURN WITH SUBCONTRACT**

**4. Debarment Disclosure.** For each of the persons identified under Sections 2 and 3 of this form, disclose whether any of the following has occurred within the previous 10 years: debarment from contracting with any governmental entity; professional licensure discipline; bankruptcies; adverse civil judgments and administrative findings; and criminal felony convictions. This disclosure is a continuing obligation and must be promptly supplemented for accuracy throughout the procurement process and term of the contract. If no person is identified, enter "None" on the line below:

Name of person(s): \_\_\_\_\_  
Nature of disclosure: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**APPLICABLE STATEMENT**

**This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page. Under penalty of perjury, I certify the contents of this disclosure to be true and accurate to the best of my knowledge.**

Completed by:  \_\_\_\_\_ Date \_\_\_\_\_  
Signature of Individual or Authorized Officer

**NOT APPLICABLE STATEMENT**

**Under penalty of perjury, I have determined that no individuals associated with this organization meet the criteria that would require the completion of this Form A.**

**This Disclosure Form A is submitted on behalf of the SUBCONTRACTOR listed on the previous page.**

\_\_\_\_\_ Date \_\_\_\_\_  
Signature of Authorized Officer

RETURN WITH SUBCONTRACT

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B
Subcontractor: Other Contracts & Procurement Related Information Disclosure

Form with fields: Subcontractor Name, Legal Address, City, State, Zip, Telephone Number, Email Address, Fax Number (if available)

Disclosure of the information contained in this Form is required by Section 50-35 of the Code (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for subcontracts with a total value of \$50,000 or more, from subcontractors identified in Section 20-120 of the Code, and for all open-ended contracts.

DISCLOSURE OF OTHER CONTRACTS, SUBCONTRACTS, AND PROCUREMENT RELATED INFORMATION

1. Identifying Other Contracts & Procurement Related Information. The SUBCONTRACTOR shall identify whether it has any pending contracts, subcontracts, including leases, bids, proposals, or other ongoing procurement relationship with any other State of Illinois agency: Yes \_\_\_\_\_ No \_\_\_\_\_
If "No" is checked, the subcontractor only needs to complete the signature box on the this page.

2. If "Yes" is checked. Identify each such relationship by showing State of Illinois agency name and other descriptive information such as bid or project number (attach additional pages as necessary). SEE DISCLOSURE FORM INSTRUCTIONS:

THE FOLLOWING STATEMENT MUST BE CHECKED

Signature box with fields: Signature of Authorized Officer, Date

OWNERSHIP CERTIFICATION

Please certify that the following statement is true if the individuals for all submitted Form A disclosures do not total 100% of ownership.

Any remaining ownership interest is held by individuals receiving less than \$106,447.20 of the bidding entity's or parent entity's distributive income or holding less than a 5% ownership interest.

Yes No N/A (Form A disclosure(s) established 100% ownership)



## NOTICE TO BIDDERS

1. **TIME AND PLACE OF OPENING BIDS.** Sealed proposals for the improvement described herein will be received by the Department of Transportation. Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). Paper-based bids are to be submitted to the Chief Procurement Officer for the Department of Transportation in care of the Chief Contracts Official at the Harry R. Hanley Building, 2300 South Dirksen Parkway in Springfield, Illinois until 10:00 a.m., July 31, 2015. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after 10:00 a.m.

2. **DESCRIPTION OF WORK.** The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

**Contract No. SH027  
Schaumburg Regional Airport  
Schaumburg, Illinois  
Cook/DuPage County  
Illinois Project No. 06C-4339  
SBG Project No. 3-17-SBGP-XX**

**Install AWOS-A/V; Replace Airport Rotating Beacon**

3. **INSTRUCTIONS TO BIDDERS.**

(a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 10-18 of the Illinois Standard Specifications for Construction of Airports, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.

(b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.

4. **AWARD CRITERIA AND REJECTION OF BIDS.** This contract will be awarded within 60 calendar days to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the proposal and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

5. **PRE-BID CONFERENCE.** There will be a pre-bid conference held at N/A at the Schaumburg Regional Airport administration building. For engineering information, contact Ronald M. Hudson, AICP of Hanson Professional Services Inc. at (630) 368-2059.

6. **DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 4.6%.

7. **SPECIFICATIONS AND DRAWINGS.** The work shall be done in accordance with the Illinois Standard Specifications for Construction of Airports, the Illinois Division of Aeronautics Supplemental Specifications and Recurring Special Provisions, the Special Provisions dated June 5, 2015 and the Construction Plans dated June 5, 2015 as approved by the Department of Transportation, Division of Aeronautics.

- 8. BIDDING REQUIREMENTS AND BASIS OF AWARD.** When alternates are included in the proposal, the following shall apply:
- a. Additive Alternates
    - (1) Bidders must submit a bid for the Base Bid and for all Additive Alternates.
    - (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:  
The lowest aggregate amount of (i) the Base Bid plus (ii) any Additive Alternate(s) which the Department elects to award.  
The Department may elect not to award any Additive Alternates. In that case, award will be to the lowest responsible qualified bidder of the Base Bid.
  - b. Optional Alternates
    - (1) Bidders must submit a bid for the Base Bid and for either Alternate A or Alternate B or for both Alternate A and Alternate B.
    - (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:  
The lower of the aggregate of either (i) the Base Bid plus Alternate A or (ii) the Base Bid plus Alternate B.
- 9. CONTRACT TIME.** The Contractor shall complete all work within the specified contract time. Any calendar day extension beyond the specified contract time must be fully justified, requested by the Contractor in writing, and approved by the Engineer, or be subject to liquidated damages.  
The contract time for this contract is 31 calendar days.
- 10. INDEPENDENT WEIGHT CHECKS.** The Department reserves the right to conduct random unannounced independent weight checks on any delivery for bituminous, aggregate or other pay item for which the method of measurement for payment is based on weight. The weight checks will be accomplished by selecting, at random, a loaded truck and obtaining a loaded and empty weight on an independent scale. In addition, the department may perform random weight checks by obtaining loaded and empty truck weights on portable scales operated by department personnel.
- 11. GOOD FAITH COMPLIANCE.** The Illinois Department of Transportation has made a good faith effort to include all statements, requirements, and other language required by federal and state law and by various offices within federal and state governments whether that language is required by law or not. If anything of this nature has been left out or if additional language etc. is later required, the bidder/contractor shall cooperate fully with the Department to modify the contract or bid documents to correct the deficiency. If the change results in increased operational costs, the Department shall reimburse the contractor for such costs as it may find to be reasonable.

By Order of the  
Illinois Department of Transportation

Randall S. Blankenhorn  
Acting Secretary

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF AERONAUTICS

**REQUIRED CONTRACT PROVISIONS FOR STATE FUNDED AIRPORT CONSTRUCTION PROJECTS**

The following provisions are State of Illinois requirements and are in addition to the REQUIRED CONTRACT PROVISIONS FOR AIRPORT IMPROVEMENT PROGRAM AND FOR OBLIGATED SPONSORS

**DISADVANTAGED BUSINESS POLICY**

NOTICE: This proposal contains the special provision entitled "Disadvantaged Business Participation." Inclusion of this Special Provision in this contract satisfies the obligations of the Department of Transportation under federal law as implemented by 49 CFR 23 and under the Illinois "Minority and Female Business Enterprise Act."

POLICY: It is public policy that the businesses defined in 49 CFR Part 23 shall have the maximum opportunity to participate in the performance of contracts financed in whole or in part with State or Federal funds. Consequently, the requirements of 49 CFR Part 23 apply to this contract.

OBLIGATION: The Contractor agrees to ensure that the businesses defined in 49 CFR Part 23 have the maximum opportunity to participate in the performance of this contract. In this regard, the Contractor shall take all necessary and reasonable steps, in accordance with 49 CFR Part 23, to ensure that the said businesses have the maximum opportunity to compete for and perform portions of this contract. The Contractor shall not discriminate on the basis of race, color, national origin, or sex in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

The Contractor shall include the above Policy and Obligation statements of this Special Provision in every subcontract, including procurement of materials and leases of equipment.

DBE/WBE CONTRACTOR FINANCE PROGRAM: On contracts where a loan has been obtained through the DBE/WBE Contractor Finance Program, the Contractor shall cooperate with the Department by making all payments due to the DBE/WBE Contractor by means of a two-payee check payable to the Lender (Bank) and the Borrower (DBE/WBE Contractor).

BREACH OF CONTRACT: Failure to carry out the requirements set forth above and in the Special Provision shall constitute a breach of contract and may result in termination of the contract or liquidated damages as provided in the special provision.

**SPECIAL PROVISION FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)**

**Effective: September 1, 2000**

**Revised: January 2, 2015**

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

CONTRACTOR ASSURANCE. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor.

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of contracts funded in whole or in part with federal or state funds. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (a) Withholding progress payments;
- (b) Assessing sanctions;
- (c) Liquidated damages; and/or
- (d) Disqualifying the Contractor from future bidding as non-responsible.



OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 4.6% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

- (a) The bidder documents that enough DBE participation has been obtained to meet the goal or,
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

DBE LOCATOR REFERENCES. Bidders shall consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217) 785-4611, or by visiting the Department's website at <http://www.idot.illinois.gov/>.

BIDDING PROCEDURES. Compliance with this Special Provision is a material bidding requirement. The failure of the bidder to comply will render the bid not responsive.

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
  - (1) The names and addresses of DBE firms that will participate in the contract;
  - (2) A description, including pay item numbers, of the work each DBE will perform;
  - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
  - (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
  - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
  - (6) If the contract goal is not met, evidence of good faith efforts; the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract.

GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document that good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work performance to meet the

contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A. The Utilization Plan will not be approved by the Department if the Utilization Plan does not document sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
  - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.
  - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
  - (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.  
b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with Section 6 of the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.
  - (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
  - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
  - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
  - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.

- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after the receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for consideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

**CALCULATING DBE PARTICIPATION.** The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR Part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR Part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.
- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
- (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
- (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission is receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
- (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
- (2) 100 percent goal credit for the cost of materials of supplies obtained from a DBE manufacturer.
- (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

**CONTRACT COMPLIANCE.** Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal. All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement.

- (a) **NO AMENDMENT.** No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the

- (b) CHANGES TO WORK. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, then a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (c) SUBCONTRACT. The Contractor must provide DBE subcontracts to IDOT upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) ALTERNATIVE WORK METHODS. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
- (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
  - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
  - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a). Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE listed in the Utilization Plan.

As stated above, the Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the prime Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.

- (6) You have determined that the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides to you written notice of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

When a DBE is terminated, or fails to complete its work on the Contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department shall provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.

- (f) **PAYMENT RECORDS.** The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) **ENFORCEMENT.** The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) **RECONSIDERATION.** Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

**SPECIAL PROVISION FOR WEEKLY DBE TRUCKING REPORTS (BDE)**

**Effective: June 2, 2012**

**Revised: April 2, 2015**

The Contractor shall submit a weekly report of Disadvantaged Business Enterprise (DBE) trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) that are used for DBE goal credit.

The report shall be submitted to the Resident Engineer on Division of Aeronautics Form "AER 723" within ten business days following the reporting period. The reporting period shall be Monday through Sunday for each week reportable trucking activities occur.

Any costs associated with providing weekly DBE trucking reports shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

**SPECIAL PROVISION FOR SUBCONTRACTOR MOBILIZATION PAYMENTS**

**Revised: April 1, 2011**

To account for the preparatory work and the operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Section 80-01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

This mobilization payment shall be made at least 14 days prior to the subcontractor starting work. The amount paid shall be equal to 3 percent of the amount of the subcontract reported on form AER 260A submitted for the approval of the subcontractor's work.

The mobilization payment to the subcontractor is an advance payment of the reported amount of the subcontract and is not a payment in addition to the amount of the subcontract; therefore, the amount of the advance payment will be deducted from future progress payments.

This provision shall be incorporated directly or by reference into each subcontract approved by the Department

#### **SPECIAL PROVISION FOR PAYMENTS TO SUBCONTRACTORS**

**Revised: January 1, 2006**

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts and to set the time for such payments.

State law also addresses the timing of payments to be made to subcontractors and material suppliers. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, requires that when a Contractor receives any payment from the Department, the Contractor shall make corresponding, proportional payments to each subcontractor and material supplier performing work or supplying material within 15 calendar days after receipt of the Department payment. Section 7 of the Act further provides that interest in the amount of two percent per month, in addition to the payment due, shall be paid to any subcontractor or material supplier by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors and material suppliers throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the State Prompt Payment Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

When progress payments are made to the Contractor according to Article 90-07 of the Standard Specifications, the Contractor shall make a corresponding payment to each subcontractor and material supplier in proportion to the work satisfactorily completed by each subcontractor and for the material supplied to perform any work of the contract. The proportionate amount of partial payment due to each subcontractor and material supplier throughout the contracting chain shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors and material suppliers shall be paid by the Contractor within 15 calendar days after the receipt of payment from the Department. The Contractor shall not hold retainage from the subcontractors. These obligations shall also apply to any payments made by subcontractors and material suppliers to their subcontractors and material suppliers; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause.

This Special Provision does not create any rights in favor of any subcontractor or material supplier against the State or authorize any cause of action against the State on account of any payment, nonpayment, delayed payment, or interest claimed by application of the State Prompt Payment Act. The Department will not approve any delay or postponement of the 15 day requirement except for reasonable cause shown after notice and hearing pursuant to Section 7(b) of the State Prompt Payment Act. State law creates other and additional remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond according to the Public Construction Bond Act, 30 ILCS 550.

#### **SPECIAL PROVISION FOR ADDITIONAL STATE REQUIREMENTS FOR FEDERAL-AID CONSTRUCTION CONTRACTS**

**Effective: February 1, 1969**

**Revised: January 1, 2010**

#### **EQUAL EMPLOYMENT OPPORTUNITY**

In the event of the Contractor's noncompliance with any provisions of this Equal Employment Opportunity Clause, the Illinois Fair Employment Practices Act or the Fair Employment Practices Commission's Rules and Regulations for Public Contracts, the Contractor may be declared nonresponsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or avoided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation.

During the performance of this contract, the Contractor agrees as follows:

(1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin or ancestry; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

(2) That, if it hires additional employees in order to perform this contract or any portion hereof, it will determine the availability (in accordance with the Commission's Rules and Regulations for Public Contracts) of minorities and women in the area(s) from which it

may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

(3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, national origin or ancestry.

(4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Contractor's obligations under the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts. If any such labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with such Act and Rules and Regulations, the Contractor will promptly so notify the Illinois Fair Employment Practices Commission and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.

(5) That it will submit reports as required by the Illinois Fair Employment Practices Commission's Rules and Regulations for Public Contracts, furnish all relevant information as may from time to time be requested by the Commission or the contracting agency, and in all respects comply with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.

(6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Illinois Fair Employment Practices Commission for purposes of investigation to ascertain compliance with the Illinois Fair Employment Practices Act and the Commission's Rules and Regulations for Public Contracts.

(7) That it will include verbatim or by reference the provisions of paragraphs 1 through 7 of this clause in every performance subcontract as defined in Section 2.10(b) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every subcontractor; and that it will also so include the provisions or paragraphs 1, 5, 6 and 7 in every supply subcontract as defined in Section 2.10(a) of the Commission's Rules and Regulations for Public Contracts so that such provisions will be binding upon every such subcontractor. In the same manner as with other provisions of this contract, the Contractor will be liable for compliance with applicable provisions of this clause by all its subcontractors; and further it will promptly notify the contracting agency and the Illinois Fair Employment Practices Commission in the event any subcontractor fails or refuses to comply therewith. In addition, no Contractor will utilize any subcontractor declared by the Commission to be nonresponsible and therefore ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

#### **SPECIAL PROVISION FOR NPDES CERTIFICATION**

In accordance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder, this certification is required for all construction contracts that will result in the disturbance of one or more acres total land area.

The bidder certifies under penalty of law that he/she understands the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

The Airport Owner or its Agent will:

- 1) prepare, sign and submit the Notice of Intent (NOI)
- 2) conduct site inspections and complete and file the inspection reports
- 3) submit Incidence of Non-Compliance (ION) forms
- 4) submit Notice of Termination (NOT) form

Prior to the issuance of the Notice-to-Proceed, for each erosion control measure identified in the Storm Water Pollution Prevention Plan, the contractor or subcontractor responsible for the control measure(s) must sign the above certification (forms to be provided by the Department).

#### **SPECIAL PROVISION FOR COMPLETION TIME VIA CALENDAR DAYS**

It being understood and agreed that the completion within the time limit is an essential part of the contract, the bidder agrees to complete the work within 31 calendar days, unless additional time is granted by the Engineer in accordance with the provisions of the specifications. In case of failure to complete the work on or before the time named herein, or within such extra time as may have been allowed by extensions, the bidder agrees that the Department of Transportation shall withhold from such sum as may be due him/her under the terms of this contract, the costs, as set forth in Section 80-09 Failure to Complete on Time of the Standard Specifications, which costs shall be considered and treated not as a penalty but as damages due to the State from the bidder by reason of the failure of the bidder to complete the work within the time specified in the contract.

State of Illinois  
Department of Transportation

SPECIAL PROVISION  
FOR  
SECTION 80 PROSECUTION AND PROGRESS

This Special Provision amends the provisions of the Standard Specifications for Construction of Airports, adopted April 1, 2012 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

80-09 FAILURE TO COMPLETE ON TIME.

DELETE: "See contract documents for current schedule of deductions."

ADD:

Schedule of Deductions for Each Day of Overrun in Contract Time			
Original Contract Amount		Daily Charges	
From More Than	To and Including	Calendar Day	Work Day
\$ 0	\$ 100,000	\$ 475	\$ 675
100,000	500,000	750	1,050
500,000	1,000,000	1,025	1,425
1,000,000	3,000,000	1,275	1,725
3,000,000	6,000,000	1,425	2,000
6,000,000	12,000,000	2,300	3,450
12,000,000	And over	6,775	9,525



State of Illinois  
Department of Transportation

SPECIAL PROVISION  
FOR  
SECTION 90 MEASUREMENT AND PAYMENT

This Special Provision amends the provisions of the Standard Specifications for Construction of Airports, adopted April 1, 2012 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

90-07 PARTIAL PAYMENTS.

DELETE: The entire section.

ADD: Partial payments will be made to the Contractor at least once each month as the work progresses. The payments will be based upon estimates, prepared by the Resident Engineer, of the value of the work performed and materials complete and in place in accordance with the contract, plans, and specifications. Such partial payments may also include the delivered actual cost of those materials stockpiled and stored in accordance with the Section 90-08 PAYMENT FOR MATERIALS ON HAND. From the amount of partial payment so determined on Federal-Aid projects, there shall be deducted an amount up to ten percent of the cost of the completed work which shall be retained until all conditions necessary for financial closeout of the project are satisfied. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1,000.00 will be approved for payment other than the final payment. A final voucher for under \$5.00 shall not be paid except through electronic funds transfer. (15 ILCS 405/9(b-1))

It is understood and agreed that the Contractor shall not be entitled to demand or receive partial payment based on quantities of work in excess of those provided in the proposal or covered by approved change orders, except when such excess quantities have been determined by the Engineer to be a part of the final quantity for the item of work in question.

No partial payment shall bind the Department to the acceptance of any materials or work in place as to quality or quantity. All partial payments are subject to correction at the time of final payment as provided in Section 90-09 ACCEPTANCE AND FINAL PAYMENT.

Progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c).

If a Contractor or subcontractor has defaulted on a loan issued under the Department's Disadvantaged Business Revolving Loan Program (20 ILCS 2705/2705-610) progress payments may be reduced pursuant to the terms of that loan agreement. In such cases, the amount of the estimate related to the work performed by the Contractor or subcontractor, in default of the loan agreement, will be offset, in whole or in part, and vouchered by the Department to the Working Capital Revolving Fund or designated escrow account. Payment for the work shall be considered as issued and received by the Contractor or subcontractor on the date of the offset voucher. Further, the amount of the offset voucher shall be a credit against the Department's obligation to pay the Contractor, the Contractor's obligation to pay the subcontractor, and the Contractor's or subcontractor's total loan indebtedness to the Department. The offset shall continue until such time as the entire loan indebtedness is satisfied. The Department will notify the Contractor and Fund Control Agent in a timely manner of such offset. The Contractor or subcontractor shall not be entitled to additional payment in consideration of the offset.

In accordance with 49 USC § 47111, the Department will not make payments totaling more than 90 percent of the contract until all conditions necessary for financial closeout of the project are satisfied.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved.

90-10 TRUST AGREEMENT OPTION.

DELETE: The entire section.



# **Required Contract Provisions for Airport Improvement Program and for Obligated Sponsors**

## **Contents**

<b>1. REQUIRED CONTRACT PROVISIONS.</b> .....	53
<b>2. ACCESS TO RECORDS AND REPORTS.</b> (Reference: 2 CFR § 200.326, 2 CFR § 200.333).....	55
<b>3. AFFIRMATIVE ACTION REQUIREMENT.</b> (Reference: 41 CFR part 60-4, Executive Order 11246).....	55
<b>4. BREACH OF CONTRACT TERMS.</b> (Reference 2 CFR § 200 Appendix II(A)).....	56
<b>5. BUY AMERICAN PREFERENCE.</b> (Reference: 49 USC § 50101).....	56
<b>6. CIVIL RIGHTS - GENERAL.</b> (Reference: 49 USC § 47123).....	57
<b>7. CIVIL RIGHTS – TITLE VI ASSURANCES.</b> .....	58
<b>8. CLEAN AIR AND WATER POLLUTION CONTROL.</b> (Reference: 49 CFR § 18.36(i)(12)).....	62
<b>9. CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS.</b> (Reference: 2 CFR § 200 Appendix II (E)).....	62
<b>10. COPELAND “ANTI-KICKBACK” ACT.</b> (Reference: 2 CFR § 200 Appendix II(D), 29 CFR parts 3 & 5).....	63
<b>11. DAVIS-BACON REQUIREMENTS.</b> (Reference: 2 CFR § 200 Appendix II(D)).....	63
<b>12. DEBARMENT AND SUSPENSION (NON-PROCUREMENT).</b> (Reference: 2 CFR part 180 (Subpart C), 2 CFR part 1200, DOT Order 4200.5 DOT Suspension & Debarment Procedures & Ineligibility).....	67
<b>13. DISADVANTAGED BUSINESS ENTERPRISE.</b> (Reference: 49 CFR part 26).....	68
<b>14. ENERGY CONSERVATION REQUIREMENTS.</b> (Reference 2 CFR § 200 Appendix II(H)).....	68
<b>15. EQUAL OPPORTUNITY CLAUSE AND SPECIFICATIONS.</b> (Reference 41 CFR § 60-1.4, Executive Order 11246).....	68
<b>16. FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE).</b> (Reference: 29 USC § 201, et seq.).....	72
<b>17. LOBBYING AND INFLUENCING FEDERAL EMPLOYEES.</b> (Reference: 49 CFR part 20, Appendix A).....	73
<b>18. NONSEGREGATED FACILITIES REQUIREMENT.</b> (Reference: 41 CFR § 60-1.8).....	73
<b>19. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.</b> (Reference 20 CFR part 1910).....	74
<b>20. RIGHT TO INVENTIONS.</b> (Reference 2 CFR § 200 Appendix II(F)).....	74
<b>21. TERMINATION OF CONTRACT.</b> (Reference 2 CFR § 200 Appendix II(B)).....	75
<b>22. TRADE RESTRICTION.</b> (Reference: 49 CFR part 30).....	75
<b>23. TEXTING WHEN DRIVING.</b> (References: Executive Order 13513, and DOT Order 3902.10).....	76
<b>24. VETERAN’S PREFERENCE.</b> (Reference: 49 USC § 47112(c)).....	77
<b>25. APPENDICES</b> .....	77

## 1. REQUIRED CONTRACT PROVISIONS.

Federal laws and regulations require that specific contract provisions be included in certain contracts, requests for proposals, or invitations to bid **whether or not** the contracts are federally-funded. This requirement is established within the grant assurances. Other contract provisions are required to be in federally-funded contracts, including all subcontracts. For purposes of determining requirements for contract provisions, the term **contract** includes subcontracts.

The type and magnitude of a project determines whether a provision is required. Some Federal provisions have dollar thresholds that define when they are applicable. The majority of the Federal provisions may be incorporated within the contract itself. However, certain Federal notices are required to be identified within the Notice-to-Bidders.

### GENERAL REQUIREMENT FOR CONTRACTS.

In general, the sponsor must:

- 1) Physically incorporate these contract provisions (not simply by reference) in each contract funded under AIP;
- 2) Require the contractor (including all subcontractors) to insert these contract provisions in each contract and subcontract, and further require that the clauses be included in all subcontracts;
- 3) Require the contractor (or subcontractor) to incorporate applicable requirements of these contract provisions by reference for work done under any purchase orders, rental agreements and other agreements for supplies or services;
- 4) Require that the prime contractor be responsible for compliance with these contract provisions by any subcontractor, lower-tier subcontractor or service provider; and
- 5) Not modify the provisions. Minor additions covering state or sponsor requirements may be included in a separate supplemental specification, provided they do not conflict with federal laws and regulations and do not change the intent of the required contract provision.

Subject to the applicability criteria noted in the specific contract provisions, these contract provisions apply to all work performed on the contract.

### GENERAL REQUIREMENT FOR REQUESTS FOR BIDS (ADVERTISEMENT) AND NOTICE TO BIDDERS

In general, the sponsor may incorporate certain provisions *by reference* in the Request for Bids (the Advertisement) rather than including the entire text of the provision in the Request or Notice. The provisions that can be incorporated by reference in the Request or Notice are:

- 1) Buy American Preference
- 2) Foreign Trade Restriction
- 3) Davis Bacon
- 4) Affirmative Action
- 5) Governmentwide Debarment and Suspension
- 6) Governmentwide Requirements for Drug-free Workplace

### GENERAL REQUIREMENTS FOR ALL CONTRACTS ENTERED INTO BY OBLIGATED SPONSORS.

Where noted, the sponsor must include certain notifications in contracts or solicitations for proposals regardless of funding source.

### FAILURE TO COMPLY WITH PROVISIONS.

Failure to comply with the terms of these contract provisions may be sufficient grounds to:

- 1) Withhold progress payments or final payment,
- 2) Terminate the contract,
- 3) Seek suspension/debarment, or
- 4) Any other action determined to be appropriate by the sponsor or the FAA.

**REQUIRED CONTRACT PROVISIONS.**

The following list summarizes the contract provisions and to what types of contracts the provisions apply:

**All Contracts Regardless of Funding Source**

- a. Civil Rights – General  
Civil Rights – Title VI      **All AIP Funded Contracts**
  
- a. Access to Records and Reports
- b. Affirmative Action Plan
- c. Buy American Preferences
- d. Civil Rights – General
- e. Civil Rights - Title VI
- f. Disadvantaged Business Enterprises
- g. Energy Conservation Requirements
- h. Federal Fair Labor Standards Act (Minimum Wage)
- i. Lobbying and Influencing Federal Employees
- j. Occupational Safety and Health Act
- k. Rights to Inventions
- l. Trade Restriction Clause
- m. Veteran’s Preference

**Additional Provisions for AIP Funded Contracts that are \$2,000 and greater**

- a. Copeland Anti-Kickback
- b. Davis Bacon Requirements

**Additional Provisions for AIP Funded Contracts that are \$10,000 and greater**

- a. Affirmative Action
- b. Equal Employment Opportunity
- c. Nonsegregated Facilities
- d. Termination of Contract

**Additional Provisions for AIP Funded Contracts that are \$25,000 and greater**

- a. Debarment and Suspension

**Additional Provisions for AIP Funded Contracts that are \$100,000 and greater**

- a. Breach of Contract
- b. Clean Air and Water Pollution Controls
- c. Contract Work Hours and Safety Standards

## **2. ACCESS TO RECORDS AND REPORTS.**

(Reference: 2 CFR § 200.326, 2 CFR § 200.333)

### **APPLICABILITY.**

Applies to all AIP-funded projects and must be included in all contracts and subcontracts.

### **MANDATORY CONTRACT LANGUAGE.**

The mandatory language that must be used on AIP funded project contracts is as follows:

#### **ACCESS TO RECORDS AND REPORTS**

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide the Sponsor, the Federal Aviation Administration, the Comptroller General of the United States, and the Illinois Department of Transportation or any of their duly authorized representatives access to any books, documents, papers, and records of the contractor which are directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this contract for a period of not less than three years after final payment is made and all pending matters are closed.

## **3. AFFIRMATIVE ACTION REQUIREMENT.**

(Reference: 41 CFR part 60-4, Executive Order 11246)

### **APPLICABILITY.**

Incorporate in all AIP-funded construction contracts and subcontracts that exceed \$10,000. This notice must be placed within the solicitation for proposals. The goals for minority participation are dependent upon the Economic Area (EA) and Standard Metropolitan Statistical Area (SMSA). Refer to Volume 45 of the Federal Register dated 10/3/80. Page 65984 contains a table of all EA and SMSA and their associated minority goals. Executive Order 11246 has set a goal of 6.9% nationally for female participation for all construction contractors.

### **MANDATORY CONTRACT LANGUAGE.**

#### **NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

- A. Timetables
- B. Goals for minority participation for each trade (Vol. 45 Federal Register pg. 65984 10/3/80)
- C. Goals for female participation in each trade (6.9%)

These goals are applicable to all of the contractor's construction work (whether or not it is Federal or federally-assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor is also subject to the goals for both federally funded and non-federally funded construction regardless of the percentage of federal participation in funding.

The contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training shall be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project, for the sole purpose of meeting the contractor's goals, shall be a violation of the contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The contractor shall provide written notification to the Director, Office of Federal Contract Compliance Programs (OFCCP), within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer

identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this notice and in the contract resulting from this solicitation, the "covered area" is [insert description of the geographical areas where the contract is to be performed giving the state, county, and city, if any].

#### **AFFIRMATIVE ACTION PLAN.**

The Department of Labor is responsible for administering the Executive Order 11246, which contains requirements for an Affirmative Action Plan. This Plan is similar in content and requirements to the affirmative action plan required in 49 CFR Part 152 subpart e. 49 CFR Part 152 applied to grants issued under the Airport Development Aid Program, which was replaced by the Airport Improvement Program.

## **4. BREACH OF CONTRACT TERMS.**

(Reference 2 CFR § 200 Appendix II(A))

#### **APPLICABILITY.**

This provision is required in all contracts that exceed the simplified acquisition threshold. This threshold, fixed at 41 USC 403(11), is presently set at \$100,000.

#### **MANDATORY CONTRACT LANGUAGE.**

The regulation does not prescribe mandatory language, however the following clause represents sample language that meets the intent of 2 CFR § 200 Appendix II(A). This provision requires grantees to incorporate administrative, contractual or legal remedies in instances where contractors violate or breach contract terms.

### **BREACH OF CONTRACT TERMS**

Any violation or breach of terms of this contract on the part of the contractor or its subcontractors may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement. The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

## **5. BUY AMERICAN PREFERENCE.**

(Reference: 49 USC § 50101)

#### **APPLICABILITY.**

The sponsor must meet the Buy American preference requirements found in 49 USC § 50101 in all AIP-funded projects. The Buy America requirements flow down from the sponsor to first tier contractors, who are responsible for ensuring that lower tier contractors and subcontractors are in compliance. The Buy American preference also applies to professional service agreements if the agreement includes any manufactured product as a deliverable.

#### **REQUIREMENTS.**

- (a) The Aviation Safety and Capacity Expansion Act of 1990 provides that preference be given to steel and manufactured products produced in the United States when funds are expended pursuant to a grant issued under the Airport Improvement Program (AIP).
- (b) Any and all steel products used in the performance of this contract by the Contractor, subcontractors, producers, and suppliers are required to adhere to the Illinois Steel Products Procurement Act, which requires that all steel items be of 100 percent domestic origin and manufacture. Any products listed under the Federal Aviation Administration's (FAA) nationwide approved list of "Equipment Meeting Buy American Requirements" shall be deemed as meeting the requirements of the Illinois Steel Products Procurement Act.
- (c) The successful bidder will be required to assure that only domestic steel and domestically manufactured products will be used by the Contractor, subcontractors, producers, and suppliers in the performance of this contract. The North American Free Trade Agreement (NAFTA) specifically excluded federal grant programs such as the AIP. Therefore, NAFTA does not change

the requirement to comply with the Buy American requirement in the Act. Exceptions to this are for products, other than steel, that:

- (1) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990, are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality;
- (2) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest;
- (3) the FAA has determined that inclusion of domestic material will increase the cost of the overall project contract by more than 25 percent; or
- (4) the FAA has determined, under the Aviation Safety and Capacity Expansion Act of 1990,
  - (i) the cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components of the facility or equipment, and
  - (ii) final assembly of the facility or equipment has occurred in the United States.

The FAA must grant waivers for any items that are included in these above exceptions. Bidders can review items already approved under the FAA nationwide approved list of "Equipment Meeting Buy American Requirements" on the FAA website, which do not require a specific FAA waiver.

All waivers are the responsibility of the Contractor, must be obtained prior to the Notice to Proceed, and must be submitted to the Division of Aeronautics for review and approval before being forwarded to the FAA. Any products used on the project that cannot meet the domestic requirement, and for which a waiver prior to the Notice to Proceed was not obtained, will be rejected for use and subject to removal and replacement with no additional compensation, and the contractor deemed non-responsive.

## **6. CIVIL RIGHTS - GENERAL.**

(Reference: 49 USC § 47123)

### **APPLICABILITY.**

The General Civil Rights Provisions found in 49 USC § 47123, derived from the Airport and Airway Improvement Act of 1982, Section 520, apply to all AIP-funded projects. This provision is in addition to the Civil Rights – Title VI provisions.

### **MANDATORY CONTRACT LANGUAGE.**

The mandatory language that must be used on AIP funded project contracts is as follows:

#### **GENERAL CIVIL RIGHTS PROVISIONS**

The contractor agrees that it will comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or handicap be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

This provision also obligates the tenant/concessionaire/lessee or its transferee for the period during which Federal assistance is extended to the airport through the Airport Improvement Program, except where Federal assistance is to provide, or is in the form of personal property; real property or interest therein; structures or improvements thereon.

In these cases the provision obligates the party or any transferee for the longer of the following periods:

- (a) the period during which the property is used by the airport sponsor or any transferee for a purpose for which Federal assistance is extended, or for another purpose involving the provision of similar services or benefits; or
- (b) the period during which the airport sponsor or any transferee retains ownership or possession of the property.

## 7. CIVIL RIGHTS – TITLE VI ASSURANCES.

Appropriate clauses from the Standard DOT Title VI Assurances must be included in all contracts and solicitations. The clauses are as follows:

- 1) Title VI Solicitation Notice
- 2) Title VI Clauses for Compliance with Nondiscrimination Requirements.
- 3) Title VI Required Clause for Land Interests Transferred from the United States
- 4) Title VI Required Clause for Real Property Acquired Or Improved by the sponsor subject to the nondiscrimination Acts and Regulations.
- 5) Clauses for Construction/Use/Access to Real Property Acquired Under the Activity, Facility or Program
- 6) Title VI List Of Pertinent Nondiscrimination Statutes And Authorities

### APPLICABILITY.

The sponsor must insert the **Title VI Solicitation Notice** in:

- 1) All solicitations for bids, requests for proposals work, or material subject to the nondiscrimination acts and regulations made in connection with Airport Improvement Program grants; and
- 2) All proposals for negotiated agreements regardless of funding source

The Sponsor must insert the **Title VI required contract clause** and the **Title VI list of Pertinent Nondiscrimination Statutes and Authorities** in every contract or agreement, unless the sponsor has determined and the FAA has agreed, that the contract or agreement is not subject to the nondiscrimination Acts and the Regulations.

The sponsor must insert the clauses of **Title VI Clauses for Deeds Transferring United States Property**, as a covenant running with the land, in any deed from the United States effecting or recording a transfer of real property, structures, use, or improvements thereon or interest therein to a sponsor.

The sponsor must include the **Title VI Clauses for Transfer of Real Property Acquired or Improved Under the Activity, Facility, Or Program**, the **Title VI Clauses for Construction/Use/Access to Real Property Acquired Under the Activity, Facility or Program**, and the **Title VI List of Pertinent Nondiscrimination Authorities**, as a covenant running with the land, in any future deeds, leases, licenses, permits, or similar instruments entered into by the sponsor with other parties:

- 1) For the subsequent transfer of real property acquired or improved under the applicable activity, project, or program; and
- 2) For the construction or use of, or access to, space on, over, or under real property acquired or improved under the applicable activity, project, or program.

### MANDATORY CONTRACT LANGUAGE.

#### **Title VI Solicitation Notice**

(Source: Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

#### **Title VI Solicitation Notice:**

The **(Name of Sponsor)**, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

#### **Title VI Clauses for Compliance with Nondiscrimination Requirements**

(Source: Appendix A of Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

#### **Compliance with Nondiscrimination Requirements**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:



1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the **Title VI List of Pertinent Nondiscrimination Statutes and Authorities**, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during 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. The contractor 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.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the Federal Aviation Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the sponsor or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the sponsor will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:
  - a. Withholding payments to the contractor under the contract until the contractor complies; and/or
  - b. Cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the sponsor or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the sponsor to enter into any litigation to protect the interests of the sponsor. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

**Title VI Clauses for Deeds Transferring United States Property**

(Source: Appendix B of Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

**CLAUSES FOR DEEDS TRANSFERRING UNITED STATES PROPERTY**

The following clauses will be included in deeds effecting or recording the transfer of real property, structures, or improvements thereon, or granting interest therein from the United States pursuant to the provisions of the Airport Improvement Program grant assurances.

**NOW, THEREFORE**, the Federal Aviation Administration as authorized by law and upon the condition that the (**Title of Sponsor**) will accept title to the lands and maintain the project constructed thereon in accordance with (**Name of Appropriate Legislative Authority**), for the (**Airport Improvement Program or other program for which land is transferred**), and the policies and procedures prescribed by the Federal Aviation Administration of the U.S. Department of Transportation in accordance and in compliance with all requirements imposed by Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252; 42 U.S.C. § 2000d to 2000d-4), does hereby remise, release, quitclaim and convey unto the (**Title of Sponsor**) all the right, title and interest of the U.S. Department of Transportation/Federal Aviation Administration in and to said lands described in (**Exhibit A attached hereto or other exhibit describing the transferred property**) and made a part hereof.

**(HABENDUM CLAUSE)**

**TO HAVE AND TO HOLD** said lands and interests therein unto (**Title of Sponsor**) and its successors forever, subject, however, to the covenants, conditions, restrictions and reservations herein contained as follows, which will remain in effect for the period during which the real property or structures are used for a purpose for which Federal financial assistance is extended or for another purpose involving the provision of similar services or benefits and will be binding on the (**Title of Sponsor**), its successors and assigns.

The (**Title of Sponsor**), in consideration of the conveyance of said lands and interests in lands, does hereby covenant and agree as a covenant running with the land for itself, its successors and assigns, that (1) no person will on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination with regard to any facility located wholly or in part on, over, or under such lands hereby conveyed [,] [and]\* (2) that the (**Title of Sponsor**) will use the lands and interests in lands and interests in lands so conveyed, in compliance with all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations and Acts may be amended[, and (3) that in the event of breach of any of the above-mentioned non-discrimination conditions, the Department will have a right to enter or re-enter said lands and facilities on said land, and that above described land and facilities will thereon revert to and vest in and become the absolute property of the Federal Aviation Administration and its assigns as such interest existed prior to this instruction].\*

(\*Reverter clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)

#### **Title VI Clauses for Transfer of Real Property Acquired or Improved Under the Activity, Facility, or Program**

(Source: Appendix C of Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

#### **CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE ACTIVITY, FACILITY, OR PROGRAM**

The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the (**Title of Sponsor**) pursuant to the provisions of the Airport Improvement Program grant assurances.

- A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:
  1. In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a Federal Aviation Administration activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Nondiscrimination Acts and Regulations listed in the Pertinent List of Nondiscrimination Authorities (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Nondiscrimination covenants, (**Title of Sponsor**) will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued.\*
- C. With respect to a deed, in the event of breach of any of the above Nondiscrimination covenants, the (**Title of Sponsor**) will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the (**Title of Sponsor**) and its assigns.\*

(\*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

#### **Title VI Clauses for Construction/Use/Access to Real Property Acquired Under the Activity, Facility or Program**

(Source: Appendix D of Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

## CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE ACTIVITY, FACILITY OR PROGRAM

The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by (*Title of Sponsor*) pursuant to the provisions of the Airport Improvement Program grant assurances.

- A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the List of Pertinent Nondiscrimination Authorities.
- B. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above nondiscrimination covenants, (*Title of Sponsor*) will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.\*
- C. With respect to deeds, in the event of breach of any of the above nondiscrimination covenants, (*Title of Sponsor*) will there upon revert to and vest in and become the absolute property of (*Title of Sponsor*) and its assigns.\*

(\*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

### **Title VI List of Pertinent Nondiscrimination Authorities**

(Source: Appendix E of Appendix 4 of FAA Order 1400.11, Nondiscrimination in Federally-Assisted Programs at the Federal Aviation Administration)

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

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

- 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);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination 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;
- 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, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

## **8. CLEAN AIR AND WATER POLLUTION CONTROL.**

(Reference: 49 CFR § 18.36(i)(12)) Note, when the DOT adopts 2 CFR 200, this reference will change to 2 CFR § 200 Appendix II(G))

### **APPLICABILITY.**

Incorporate in all professional service agreements, construction contracts and subcontracts that exceed \$100,000. (Note that the 2 CFR 200 will raise this level to \$150,000)

### **MANDATORY CONTRACT LANGUAGE.**

#### **CLEAN AIR AND WATER POLLUTION CONTROL**

Contractors and subcontractors agree:

1. That any facility to be used in the performance of the contract or subcontract or to benefit from the contract is not listed on the Environmental Protection Agency (EPA) List of Violating Facilities;
2. To comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 U.S.C. 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. relating to inspection, monitoring, entry, reports, and information, as well as all other requirements specified in Section 114 and Section 308 of the Acts, respectively, and all other regulations and guidelines issued thereunder;
3. That, as a condition for the award of this contract, the contractor or subcontractor will notify the awarding official of the receipt of any communication from the EPA indicating that a facility to be used for the performance of or benefit from the contract is under consideration to be listed on the EPA List of Violating Facilities;
4. To include or cause to be included in any construction contract or subcontract which exceeds \$100,000 the aforementioned criteria and requirements.

## **9. CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS.**

(Reference: 2 CFR § 200 Appendix II (E))

### **APPLICABILITY.**

Incorporate in all professional service agreements, construction contracts and subcontracts that exceed \$100,000.

### **MANDATORY CONTRACT LANGUAGE.**

#### **CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS**

1. Overtime Requirements.

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

**2. Violation; Liability for Unpaid Wages; Liquidated Damages.**

In the event of any violation of the clause set forth in paragraph (1) above, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 above, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 above.

**3. Withholding for Unpaid Wages and Liquidated Damages.**

The Federal Aviation Administration or the Sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 above.

**4. Subcontractors.**

The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section.

## **10. COPELAND “ANTI-KICKBACK” ACT.**

(Reference: 2 CFR § 200 Appendix II(D), 29 CFR parts 3 & 5)

**APPLICABILITY.**

Incorporate into all construction contracts and subcontracts that exceed \$2,000 and are financed under the AIP program.

**MANDATORY CONTRACT LANGUAGE.**

The United States Department of Labor Wage and Hours Division oversees the Copeland “Anti-Kickback” Act requirements. All contracts and subcontracts must meet comply with the Occupational Safety and Health Act of 1970.

United States Department of Labor Wage and Hours Division can provide information regarding any specific clauses or assurances pertaining to the Copeland “Anti-Kickback” Act requirements required to be inserted in solicitations, contracts or subcontracts.

## **11. DAVIS-BACON REQUIREMENTS.**

(Reference: 2 CFR § 200 Appendix II(D))

**APPLICABILITY.**

Incorporate into all construction contracts and subcontracts that exceed \$2,000 and are financed under the AIP program.

**MANDATORY CONTRACT LANGUAGE.**

The mandatory language is as follows:

### **DAVIS-BACON REQUIREMENTS**

**1. Minimum Wages**

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due

at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2 Withholding.

The Federal Aviation Administration or the Sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the

same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

### 3. Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)(A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the Federal Aviation Administration, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR § 5.5 (a)(3)(i) and that such information is correct and complete;

(2) That each laborer and mechanic (including each helper, apprentice and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying or transcription by authorized representatives of the Sponsor, the Federal Aviation Administration or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

#### 4. Apprentices and Trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal Employment Opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

#### 5. Compliance With Copeland Act Requirements.

The contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

#### 6. Subcontracts.



The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

#### 7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

#### 8. Compliance With Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

#### 9. Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

#### 10. Certification of Eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

## **12. DEBARMENT AND SUSPENSION (NON-PROCUREMENT).**

(Reference: 2 CFR part 180 (Subpart C), 2 CFR part 1200, DOT Order 4200.5 DOT Suspension & Debarment Procedures & Ineligibility)

### **APPLICABILITY.**

The contract agreement that ultimately results from this solicitation is a "covered transaction" as defined by Title 2 CFR Part 180. Bidder must certify at the time they submit their proposal that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction. The bidder with the successful bid further agrees to comply with Title 2 CFR Part 1200 and Title 2 CFR Part 180, Subpart C by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction".

Incorporate in all contracts and subcontracts that exceed \$25,000.

### **MANDATORY CONTRACT LANGUAGE.**

#### **CERTIFICATE REGARDING DEBARMENT AND SUSPENSION (BIDDER OR OFFEROR)**

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that at the time the bidder or offeror submits its proposal that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

#### **CERTIFICATION REGARDING DEBARMENT AND SUSPENSION (SUCCESSFUL BIDDER REGARDING LOWER TIER PARTICIPANTS)**

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: <http://www.sam.gov>
2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
3. Inserting a clause or condition in the covered transaction with the lower tier contract

If the FAA later determines that a lower tier participant failed to tell a higher tier that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedy, including suspension and debarment.

### **13. DISADVANTAGED BUSINESS ENTERPRISE.**

(Reference: 49 CFR part 26)

#### **APPLICABILITY.**

The Disadvantaged Business Enterprise requirements found in 49 CFR part 26, apply to all AIP-funded projects and must be included in all contracts and subcontracts. This includes both project with contract goals and project relying on race/gender neutral means.

#### **MANDATORY CONTRACT LANGUAGE.**

The mandatory language that must be used on AIP funded project contracts is as follows. Other than to insert appropriate Sponsor information into the noted spaces, the Sponsor must not modify these contract clauses:

#### **DISADVANTAGED BUSINESS ENTERPRISES**

**Contract Assurance (§ 26.13)** - The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate.

**Prompt Payment (§26.29)**- The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than {specify number} days from the receipt of each payment the prime contractor receives from {Name of recipient}. The prime contractor agrees further to return retainage payments to each subcontractor within {specify the same number as above} 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 approval of the {Name of Recipient}. This clause applies to both DBE and non-DBE subcontractors.

### **14. ENERGY CONSERVATION REQUIREMENTS.**

(Reference 2 CFR § 200 Appendix II(H))

#### **APPLICABILITY.**

The Energy Conservation Requirements found in 2 CFR § 200 Appendix II(H), apply to all AIP-funded construction and equipment projects and must be included in all contracts and subcontracts.

#### **MANDATORY CONTRACT LANGUAGE.**

The regulation does not prescribe mandatory language, however the following clause represents sample language that meets the intent of 2 CFR § 200 Appendix II(H):

#### **ENERGY CONSERVATION REQUIREMENTS**

The contractor agrees to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Public Law 94-163).

### **15. EQUAL OPPORTUNITY CLAUSE AND SPECIFICATIONS.**

(Reference 41 CFR § 60-1.4, Executive Order 11246)

#### **APPLICABILITY.**

Incorporate contract language and specifications into all construction contracts and subcontracts that exceed \$10,000 and are financed under the AIP program.

### **MANDATORY CONTRACT LANGUAGE.**

41 CFR § 60-1.4 provides the mandatory contract language, but allows such necessary changes in language to be made to identify properly the parties and their undertakings. 41 CFR § 60-4.3 provides the mandatory specifications.

### **EQUAL OPPORTUNITY CLAUSE**

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.

### **STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS**

1. As used in these specifications:

- a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
- b. "Director" means Director, Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, or any person to whom the Director delegates authority;
- c. "Employer identification number" means the Federal social security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941;

d. "Minority" includes:

- (1) Black (all) persons having origins in any of the Black African racial groups not of Hispanic origin);
- (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin regardless of race);
- (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
- (4) American Indian or Alaskan native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors shall be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each contractor or subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The contractor shall implement the specific affirmative action standards provided in paragraphs 18.7a through 18.7p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in a geographical area where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the contractor has a collective bargaining agreement to refer either minorities or women shall excuse the contractor's obligations under these specifications, Executive Order 11246 or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the contractor during the training period and the contractor shall have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:

- a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen, superintendents, and other onsite supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

- c. Maintain a current file of the names, addresses, and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source, or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or female sent by the contractor, or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with onsite supervisory personnel such as superintendents, general foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female, and community organizations, to schools with minority and female students; and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable provide after school, summer, and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel, for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more of their affirmative action obligations (18.7a through 18.7p). The efforts of a contractor association, joint contractor union, contractor community, or other similar groups of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 18.7a through 18.7p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, if the particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally,) the contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.

10. The contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

11. The contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination, and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 18.7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government, and to keep records. Records shall at least include for each employee, the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

## **16. FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE).**

(Reference: 29 USC § 201, et seq.)

### **APPLICABILITY.**

The federal minimum wage provisions are contained in the Fair Labor Standards Act (FLSA) which is administered by the United States Department of Labor Wage and Hour Division. All contracts and subcontracts must meet comply with the FLSA, including the recordkeeping standards of the Act.

### **MANDATORY CONTRACT LANGUAGE.**

All contracts and subcontracts that result from this solicitation incorporate the following provisions by reference, with the same force and effect as if given in full text. The contractor has full responsibility to monitor compliance to the referenced statute or regulation. The contractor must address any claims or disputes that pertain to a referenced requirement directly with the Federal Agency with enforcement responsibilities.

Requirement	Federal Agency with Enforcement Responsibilities
Federal Fair Labor Standards Act (29 USC 201)	U.S. Department of Labor – Wage and Hour Division

## 17. LOBBYING AND INFLUENCING FEDERAL EMPLOYEES.

(Reference: 49 CFR part 20, Appendix A)

### APPLICABILITY.

The Lobbying and Influencing Federal Employees prohibition found in 49 CFR part 20, Appendix A, applies to all AIP-funded projects and must be included in all contracts and subcontracts.

### MANDATORY CONTRACT LANGUAGE.

The mandatory language that must be used on AIP funded project contracts is as follows:

#### LOBBYING AND INFLUENCING FEDERAL EMPLOYEES

The bidder or offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- 1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the bidder or offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- 2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

## 18. NONSEGREGATED FACILITIES REQUIREMENT.

(Reference: 41 CFR § 60-1.8)

### APPLICABILITY.

Incorporate in all construction contracts and subcontracts that exceed \$10,000. The notices must be placed within the solicitation for proposals. The actual certification must be incorporated in the contract agreement.

### MANDATORY CONTRACT LANGUAGE AND NOTICE.

#### NOTICE OF NONSEGREGATED FACILITIES REQUIREMENT

#### Notice to Prospective Federally Assisted Construction Contractors

1. A Certification of Non-segregated Facilities shall be submitted prior to the award of a federally-assisted construction contract exceeding \$10,000 which is not exempt from the provisions of the Equal Opportunity Clause.
2. Contractors receiving federally-assisted construction contract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause will be required to provide for the forwarding of the following notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity Clause.

3. The penalty for making false statements in offers is prescribed in 18 U.S.C. § 1001.

**Notice to Prospective Subcontractors of Requirements for Certification of Non-Segregated Facilities**

1. A Certification of Non-segregated Facilities shall be submitted prior to the award of a subcontract exceeding \$10,000, which is not exempt from the provisions of the Equal Opportunity Clause.

2. Contractors receiving subcontract awards exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause will be required to provide for the forwarding of this notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000 and are not exempt from the provisions of the Equal Opportunity Clause.

3. The penalty for making false statements in offers is prescribed in 18 U.S.C. § 1001.

**CERTIFICATION OF NONSEGREGATED FACILITIES**

The federally-assisted construction contractor certifies that she or he does not maintain or provide, for his employees, any segregated facilities at any of his establishments and that she or he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The federally-assisted construction contractor certifies that she or he will not maintain or provide, for his employees, segregated facilities at any of his establishments and that she or he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The federally-assisted construction contractor agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this contract.

As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms, and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directives or are, in fact, segregated on the basis of race, color, religion, or national origin because of habit, local custom, or any other reason. The federally-assisted construction contractor agrees that (except where she or he has obtained identical certifications from proposed subcontractors for specific time periods) she or he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause and that she or he will retain such certifications in his files.

**19. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.**

(Reference 20 CFR part 1910)

**APPLICABILITY.**

The United States Department of Labor Occupational Safety & Health Administration (OSHA) oversees the workplace health and safety standards wage provisions from the Occupational Safety and Health Act of 1970. All contracts and subcontracts must meet comply with the Occupational Safety and Health Act of 1970.

**MANDATORY CONTRACT LANGUAGE.**

All contracts and subcontracts that result from this solicitation incorporate the following provisions by reference, with the same force and effect as if given in full text. The contractor has full responsibility to monitor compliance to the referenced statute or regulation. The contractor must address any claims or disputes that pertain to a referenced requirement directly with the Federal Agency with enforcement responsibilities.

<b>Requirement</b>	<b>Federal Agency with Enforcement Responsibilities</b>
Occupational Safety and Health Act of 1970 (20 CFR Part 1910)	U.S. Department of Labor – Occupational Safety and Health Administration

**20. RIGHT TO INVENTIONS.**

(Reference 2 CFR § 200 Appendix II(F))

**APPLICABILITY.**



The requirement for rights to inventions and materials found in 2 CFR § 200 Appendix II(F) applies to all AIP-funded projects and must be included in all contracts and subcontracts.

**MANDATORY CONTRACT LANGUAGE.**

The regulation does not prescribe mandatory language, however the following clause represents sample language that meets the intent of 2 CFR § 200 Appendix II(F).

**RIGHTS TO INVENTIONS**

All rights to inventions and materials generated under this contract are subject to requirements and regulations issued by the FAA and the Sponsor of the Federal grant under which this contract is executed.

**21. TERMINATION OF CONTRACT.**

(Reference 2 CFR § 200 Appendix II(B))

**APPLICABILITY.**

Incorporate in all contracts and subcontracts that exceed \$10,000.

**MANDATORY CONTRACT LANGUAGE.**

**TERMINATION OF CONTRACT**

- a. The Sponsor may, by written notice, terminate this contract in whole or in part at any time, either for the Sponsor's convenience or because of failure to fulfill the contract obligations. Upon receipt of such notice services must be immediately discontinued (unless the notice directs otherwise) and all materials as may have been accumulated in performing this contract, whether completed or in progress, delivered to the Sponsor.
- b. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price will be made, but no amount will be allowed for anticipated profit on unperformed services.
- c. If the termination is due to failure to fulfill the contractor's obligations, the Sponsor may take over the work and prosecute the same to completion by contract or otherwise. In such case, the contractor is liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
- d. If, after notice of termination for failure to fulfill contract obligations, it is determined that the contractor had not so failed, the termination will be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price will be made as provided in paragraph 2 of this clause.
- e. The rights and remedies of the sponsor provided in this clause are in addition to any other rights and remedies provided by law or under this contract.

**22. TRADE RESTRICTION.**

(Reference: 49 CFR part 30)

**APPLICABILITY.**

The trade restriction clause applies to all AIP-funded projects and must be included in all contracts and subcontracts.

**MANDATORY CONTRACT LANGUAGE.**

The mandatory language is as follows:

**TRADE RESTRICTION CLAUSE**

The contractor or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);

- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the project that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the contractor knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the project, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract at no cost to the Government.

Further, the contractor agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The contractor may rely on the certification of a prospective subcontractor unless it has knowledge that the certification is erroneous.

The contractor shall provide immediate written notice to the sponsor if the contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide written notice to the contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Sponsor cancellation of the contract or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

## **23. TEXTING WHEN DRIVING.**

(References: Executive Order 13513, and DOT Order 3902.10)

### **APPLICABILITY.**

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

### **MANDATORY CONTRACT LANGUAGE.**

By adopting the Applicability Language, the following contract language will meet the intent and requirement for Texting When Driving:

#### **TEXTING WHEN DRIVING**

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

The Contractor must promote policies and initiatives for employees and other work personnel that decrease crashes by distracted drivers, including policies to ban text messaging while driving. The Contractor must include these policies in each third party subcontract involved on this project.

## 24. VETERAN'S PREFERENCE.

(Reference: 49 USC § 47112(c))

### APPLICABILITY.

The Veteran's preference clause found in 49 USC § 47112(c) applies to all AIP-funded projects and must be included in all contracts and subcontracts that involve labor

### MANDATORY CONTRACT LANGUAGE.

The regulation does not prescribe mandatory language, however the following clause represents sample language that meets the intent of 49 USC § 47112(c) is as follows:

#### VETERAN'S PREFERENCE

In the employment of labor (except in executive, administrative, and supervisory positions), preference must be given to Vietnam era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns owned and controlled by disabled veterans as defined in Title 49 United States Code, Section 47112. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.

## 25. APPENDICES.

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

#### APPENDIX A

The following goal for female utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally-assisted construction contracts and subcontracts in excess of \$10,000. The goal is applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally assisted or nonfederally related construction contract or subcontract.

#### AREA COVERED (STATEWIDE)

Goals for Women apply nationwide.

#### GOAL

	Goal (percent)
Female Utilization.....	6.9

#### APPENDIX B

Until further notice, the following goals for minority utilization in each construction craft and trade shall apply to all Contractors holding Federal and federally-assisted construction contracts and subcontracts in excess of \$10,000 to be performed in the respective geographical areas. The goals are applicable to the Contractor's total on-site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally-assisted or nonfederally related construction contract or subcontract.

<u>Economic Area</u>	<u>Goal (percent)</u>
056 Paducah, KY: Non-SMSA Counties - IL - Hardin, Massac, Pope KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	5.2
080 Evansville, IN: Non-SMSA Counties - IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White	3.5

IN - Dubois, Knox, Perry, Pike, Spencer  
 KY - Hancock, Hopkins, McLean, Mublenberg, Ohio, Union, Webster

081 Terre Haute, IN:	
Non-SMSA Counties -	2.5
IL - Clark, Crawford	
IN - Parke	
083 Chicago, IL:	
SMSA Counties:	19.6
1600 Chicago, IL -	
IL - Cook, DuPage, Kane, Lake, McHenry, Will	
3740 Kankakee, IL -	9.1
IL - Kankakee	
Non-SMSA Counties	18.4
IL - Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam	
IN - Jasper, Laporte, Newton, Pulaski, Starke	
084 Champaign - Urbana, IL:	
SMSA Counties:	
1400 Champaign - Urbana - Rantoul, IL -	7.8
IL - Champaign	
Non-SMSA Counties -	4.8
IL - Coles, Cumberland, Douglas, Edgar, Ford, Piatt, Vermilion	
085 Springfield - Decatur, IL:	
SMSA Counties:	
2040 Decatur, IL -	7.6
IL - Macon	
7880 Springfield, IL -	4.5
IL - Mendard, Sangamon	
Non-SMSA Counties	4.0
IL - Cass, Christian, Dewitt, Logan, Morgan, Moultrie, Scott, Shelby	
086 Quincy, IL:	
Non-SMSA Counties	3.1
IL - Adams, Brown, Pike	
MO - Lewis, Marion, Pike, Ralls	
087 Peoria, IL:	
SMSA Counties:	
1040 Bloomington - Normal, IL -	2.5
IL - McLean	
6120 Peoria, IL -	4.4
IL - Peoria, Tazewell, Woodford	
Non-SMSA Counties -	3.3
IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	
088 Rockford, IL:	
SMSA Counties:	
6880 Rockford, IL -	6.3
IL - Boone, Winnebago	
Non-SMSA Counties -	4.6
IL - Lee, Ogle, Stephenson	
098 Dubuque, IA:	
Non-SMSA Counties -	0.5

IL - JoDaviess  
 IA - Atlamakee, Clayton, Delaware, Jackson, Winnesheik  
 WI - Crawford, Grant, Lafayette

099 Davenport, Rock Island, Moline, IA - IL:	
SMSA Counties:	
1960 Davenport, Rock Island, Moline, IA - IL -	4.6
IL - Henry, Rock Island	
IA - Scott	
Non-SMSA Counties -	3.4
IL - Carroll, Hancock, Henderson, Mercer, Whiteside	
IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine	
MO - Clark	
107 St. Louis, MO:	
SMSA Counties:	
7040 St. Louis, MO - IL -	14.7
IL - Clinton, Madison, Monroe, St. Clair	
MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City	
Non-SMSA Counties -	11.4
IL - Alexander, Bond, Calhoun, Clay, Effingham, Fayette, Franklin, Greene, Jackson, Jasper, Jefferson, Jersey, Johnson, Macoupin, Marion, Montgomery, Perry, Pulaski, Randolph, Richland, Union, Washington, Wayne, Williamson	
MO - Bollinger, Butler, Cape Girardeau, Carter, Crawford, Dent, Gasconade, Iron, Lincoln, Madison, Maries, Mississippi, Montgomery, Perry, Phelps, Reynolds, Ripley, St. Francois, St. Genevieve, Scott, Stoddard, Warren, Washington, Wayne	

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the provisions and specifications set forth in its federally assisted contracts, and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor will provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction contract and/or subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. This notification will list the name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the entire State of Illinois for the goal set forth in APPENDIX A and the county or counties in which the work is located for the goals set forth in APPENDIX B.

SECTION III

SPECIAL PROVISIONS

SCHAUMBURG REGIONAL AIRPORT (06C)  
SCHAUMBURG, COOK AND DUPAGE COUNTIES, ILLINOIS

INSTALL AWOS A-V; REPLACE AIRPORT ROTATING BEACON

SBG PROJECT NO. 3-17-SBGP-XX  
ILLINOIS PROJECT NO. 06C-4339

June 5, 2015



Hanson Professional Services Inc.  
815 Commerce Drive, Suite 200  
Oak Brook, Illinois 60523  
630.990.3800

(THIS PAGE INTENTIONALLY LEFT BLANK)

INDEX OF SPECIAL PROVISIONS

<u>Page Number</u>		<u>Description</u>
1		General
1		Governing Specifications and Rules and Regulations
2		Illinois Department of Transportation, Division of Aeronautics, Manuals, Policy Memorandums, and Templates
<u>DIVISION 1</u>		<u>GENERAL PROVISIONS</u>
5	Section 10	Definition of Terms
6	Section 20	Advertisement, Bidding, Award, and Contract Execution
	Section 30	Reserved
7	Section 40	Scope of Work
9	Section 50	Control of Work
10	Section 60	Control of Materials
11	Section 70	Legal Regulations and Responsibility to Public
12	Section 80	Prosecution and Progress
13	Section 90	Measurement and Payment
<u>DIVISION II</u>		<u>PAVING CONSTRUCTION DETAILS</u>
		EARTHWORK
15	Item 150510	Engineer's Field Office
17	Item 152	Excavation and Embankment
20	Item 156000	Erosion Control
		FLEXIBLE BASE COURSES
21	Item 208	Aggregate Base Course
		FLEXIBLE SURFACE COURSES
23	Item 401	Bituminous Surface Course - Superpave
25	Item 401660	Saw and Seal Bituminous Joints
		RIGID PAVEMENT
26	Item 800979	Portland Cement Concrete Driveway
		MISCELLANEOUS
28	Item 602	Bituminous Prime Coat
29	Item 610	Structural Portland Cement Concrete



<i>Page Number</i>		<i>Description</i>
<u>DIVISION III</u>		<u>FENCING (WIRE FENCES)</u>
30	Item 162	Chain-Link Fences (Class E)
<u>DIVISION IV</u>		<u>DRAINAGE</u>
36	Item 800997	Depressed Concrete Curb and Gutter
<u>DIVISION V</u>		<u>TURFING</u>
38	Item 901	Seeding
41	Item 905	Topsoiling
42	Item 908	Mulching
<u>DIVISION VI</u>		<u>LIGHTING INSTALLATION</u>
43	Item 101580	Refurbish 36" Beacon
48	Item 800951	Modify Beacon Installation
58	Item 108	Installation of Underground Cable for Airports
66	Item 110	Installation of Airport Underground Electrical Duct
74	Item 126	Installation of AWOS A-V
<u>DIVISION VII</u>		<u>TESTING</u>
94	Item 611	Compaction Control Tests
EXHIBITS		
95	Exhibit A	Federal Aviation Administration Memo, dated October 10, 2012, Subject: Weather Equipment Usage Waiver for Federal Contract Tower and Non-FAA Control Towers

GENERAL

These Special Provisions, together with applicable Standard Specifications, Manuals, Policy Memorandums, Templates, Rules and Regulations, Contract Requirements for Airport Improvement Projects, Payroll Requirements and Minimum Wage Rates, which are hereto attached or which by reference are herein incorporated, cover the requirements of the State of Illinois, Department of Transportation (IDOT), Division of Aeronautics (Division) for the following improvement project at Schaumburg Regional Airport, Schaumburg, Cook and DuPage Counties, Illinois:

**Install AWOS A-V; Replace Airport Rotating Beacon**

This Project is to install an AWOS A-V and replace the Airport Rotating Beacon at Schaumburg Regional Airport including, among other incidental work, the following items:

- Placement of temporary erosion control measures.
- Installation of AWOS A-V.
- Construction of bituminous access road and aggregate pad.
- Installation of fence around AWOS.
- Replacement of Airport Rotating Beacon on existing tower.
- Provision of associated electrical equipment in and modifications to existing electrical vault.
- Topsoiling, seeding and mulching of disturbed areas.

Some of the above work tasks are to be bid as Additive Alternate No. 01 (AS) or Additive Alternate No. 02 (AT) items. The Bidder/Contractor shall submit a bid for the Base Bid and all additive alternates. The award will be made based upon the Base Bid and any, all or none of the Additive Alternates that IDOT-Aeronautics elects to award.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The Illinois Standard Specifications for Construction of Airports, State of Illinois Department of Transportation, Division of Aeronautics, adopted April 1, 2012, as revised (Standard Specifications), shall govern the Project except as otherwise revised or noted in these Special Provisions dated June 05, 2015. All references to IDOT Specifications refer to Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Resolution of conflicts with any part or parts of said Specifications shall be in accordance with Section 50-03 of the Standard Specifications.

ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF AERONAUTICS  
MANUALS, POLICY MEMORANDUMS, AND TEMPLATES

The Illinois Department of Transportation, Division of Aeronautics, Manuals, Policy Memorandums, and Templates that are incorporated into this Project by reference are listed below. Also provided is a notation as to whether all or a portion of each applicable Manual, Policy Memorandum, and Template has been modified by these Special Provisions.

**Manuals**

<u>Title</u>	<u>Modified by Special Provisions</u>
Airport Construction Documentation Manual	No
Manual for Documentation of Airport Materials	No

**Policy Memorandums**

<u>No.</u>	<u>Title</u>	<u>Modified by Special Provisions</u>
07-21	Acceptance Procedure for Finely Divided Materials Used in Portland Cement Concrete and Other Applications	No
87-2	Density Acceptance of Bituminous Pavements	No
87-4	Determination of Bulk Specific Gravity (d) of Compacted Bituminous Mixes	No
96-1	Item 610, Structural Portland Cement Concrete: Job Mix Formula Approval and Production Testing	No
96-3	Requirements for Quality Assurance on Projects with Bituminous Concrete Paving	No
2001-1	Requirements for Cold Weather Concreting	No
2003-1	Requirements for Laboratory, Testing, Quality Control, and Paving of Superpave Bituminous Concrete Mixtures for Airports	No
	Bituminous Mix Design Memorandum	No
	Comparison Samples Memorandum	No

**Templates**

<u>Title</u>	<u>Modified by Special Provisions</u>
Cold Weather Concreting Plan	No
Hot Mix Asphalt (HMA) Quality Control Plan Template	No

**It is the Bidder's and Contractor's responsibility to review and incorporate into their bid and work, the requirements contained in these Manuals, Policy Memorandums, and Templates.** Copies of each manual, policy memorandum and template can be found on the Illinois Department of Transportation, Illinois Division of Aeronautics webpage at: <http://www.dot.state.il.us/doing-business/procurements/construction-services/contractors-resources/index>.

(THIS PAGE INTENTIONALLY LEFT BLANK)

DIVISION I

GENERAL PROVISIONS

SECTION 10

DEFINITION OF TERMS

The Work shall be provided in accordance with Section 10 of the Standard Specifications.

SECTION 20

ADVERTISEMENT, BIDDING, AWARD, AND CONTRACT EXECUTION

Revise Section 20 of the Standard Specifications as follows:

20-01      PROCEDURE TO BE IN ACCORDANCE WITH RULES. Add the following:

"Some of the work shown in the Construction Plans and described in the Special Provisions are to be bid/performed as Additive Alternate No. 01 (AS), or Additive Alternate No. 02 (AT) items. The Bidder/Contractor shall submit a bid for the Base Bid and all additive alternates. The award will be made based upon the Base Bid and any, all or none of the Additive Alternates that Illinois Department of Transportation, Division of-Aeronautics elects to award."

SECTION 40

SCOPE OF WORK

Revise Section 40 of the Standard Specifications as follows:

40-05      MAINTENANCE OF TRAFFIC. Add the following Paragraphs:

"Any Work required for project safety as specified herein shall be incidental to the Contract. Construction of the project shall be performed in accordance with the guidelines specified in FAA Advisory Circular 150/5320-2 (current issue), Operational Safety on Airports During Construction, and the applicable Airport Rules and Regulations (as published on the Village of Schaumburg, Schaumburg Regional Airport website at <http://www.ci.schaumburg.il.us/TRANS/Airport1/Pages/RulesandMinimumStandards.aspx/>).

"To minimize disruptions to airport operations, construction operations must be controlled throughout the project's duration and work must be completed expeditiously. A Construction Staging Plan detailing the sequencing of the Contractor's work throughout the project shall be furnished to the Resident Engineer by the Contractor at the Pre-construction Conference for the review and approval of the Owner and Project Engineer. Any and all changes to the Construction Staging Plan that is subsequently approved that may be requested by the Contractor after project start must be approved by the Project Engineer and the Airport Owner. It shall be the Contractor's responsibility to provide sufficient advance notice of any proposed staging change to permit consideration and approval by the project engineer and the airport owner. The contractor shall not be entitled to any extra compensation nor extension to the contract time because of a staging change request nor for any time necessary in receiving the required approvals. The contractor shall expedite work at those stages when active taxiways, aprons, roadways or parking lots must be closed to minimize the length of time that airport operations are restricted.

"At the Pre-construction Conference, the Contractor shall also provide a Contractor Coordination Plan that coordinates his work with the work of his Subcontractors and the work of other contractors of other Airport projects.

"The Contractor shall not have access to any part of the active airfield (runways, taxiways or aprons) for any equipment or personnel without the approval of the Resident Engineer and the Airport Owner. Activities within the Airport Operations Area (AOA) are subject to federal access control. Because of the high requirements for airport security and safety, the following requirements must be adhered to:

- All employees of the Contractor shall park their personal vehicles in the designated equipment parking and storage area. Each person or vehicle entering the Contractor area shall do so in accordance with the policies and procedures of the Airport Owner. The Contractor will transport the workers from the parking areas to the work area. Only Contractor vehicles will be allowed outside of the proposed equipment storage and parking areas.
- Should any Contractor personnel be identified as noncompliant with any vehicle driving safety requirements in this Safety Plan or in the Airport Vehicle Operations Regulations, such drivers shall be penalized by rescission of their on-airport driving privileges, and their access to the Construction Limit Area when operating vehicles shall be revoked.
- The Contractor will be required to be in contact with Airport Operations. This will keep the Contractor in contact with Airport personnel and enable the Airport personnel to immediately contact the Contractor in case of an aeronautical emergency that would require action by the Contractor and/or his personnel.



"The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs for the Contractor's access routes at the existing construction entrance and for the Contractor's route within the Airport Operations Area, as noted in the Plans, or as directed by the Resident Engineer.

"The Contractor shall remain within the Construction Limits Line shown in the Plans. **When outside these limits**, all Contractor activities shall remain more than 125 feet from the centerline (to protect the Runway Obstacle Free Zone) and 240 feet from the end of active Runway 11-29. For work near taxiways and aprons, the Contractor's personnel and equipment must remain at least 44.5 feet from active Category I taxiways, and ten (10) feet from active aprons. When construction operations must be conducted within these separations, the pavement must be closed to aircraft activity by the Contractor by providing temporary barricades as shown in the Plans. **No closure of any runway or taxiway will be permitted for this Project.**

"The Contractor shall keep all of his equipment and personnel at least 15 feet from the edge of any active roadway or auto parking pavement. When his activities require working within 15 feet of the road/pavement edge, the Contractor shall provide for traffic control in accordance with IDOT Specifications (highway standards).

"Open trenches, excavations and stockpiled material at the construction site shall be delineated with the use of barricades during hours of restricted visibility and/or darkness. No open trenches shall be allowed within the Runway Safety Area (RSA) or the Taxiway Safety Area (TSA) when the runway or taxiway is open to air traffic (including overnight). The RSA is defined as 60 feet from the centerline and 240 feet from the end of Runway 11-29. The TSA is measured at 24.5 feet from the Category I taxiway centerline. No vertical drop of greater than 3-inches in height from pavement edge to earth grade or earth grade to earth grade within the RSA or TSA will be permitted when the runway or taxiway is open to air traffic. The Contractor will have steel plates on-site to allow for the rapid covering of trenches or earth drops in the event of unexpected work stoppages for weather or airport emergencies.

"Contractor's equipment shall extend no higher than 20 feet, except for any mobile crane used to erect the AWOS tower, whose maximum height shall be 50 feet, and any mobile crane used to install the replacement beacon, whose maximum height shall be 70 feet. When not in use, the crane(s) shall be lowered and stored in the Contractor's Equipment Area or removed from the Airport.

"The Contractor must notify the Resident Engineer and the airport Owner 72 hours in advance of any required pavement or utility closing. The date, time and scheduled duration of the closing must be approved by the Resident Engineer and the Airport Owner. The Contractor shall notify the Resident Engineer and Airport Owner 72 hours in advance of the Contractor's closing of other active roadways, airfield or roadway lighting circuits, or other Airport facilities.

"All work shall be completed in accordance with the approved Project Safety Plan, issued by the Illinois Division of Aeronautics.

"Failure to use these prescribed procedures or adhere to the safety requirements will result in the suspension of work."

SECTION 50

CONTROL OF WORK

Revise Section 50 of the Standard Specifications as follows:

50-12      LOAD RESTRICTIONS. Add the following:

"By submitting his bid, the Contractor acknowledges that the existing Airport pavements are of the "light-duty" type, requiring his consideration of construction vehicle weights. Any damage to existing Airport pavements shall be repaired by the Contractor at his own expense and to the satisfaction of the Airport Owner and the Resident Engineer.

"The Contractor shall acquaint himself with the load restrictions of all local streets, roadways and highways intended for use as access/haul roads.

"The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs for the Contractor's access routes at the existing construction entrance and for the Contractor's route within the Airport Operations Area, as noted in the Plans or as directed by the Resident Engineer."

SECTION 60

CONTROL OF MATERIALS

Revise Section 60 of the Standard Specifications as follows:

60-05      RESIDENT ENGINEER'S FIELD OFFICE. Add the following:

"The Contractor will be required to furnish and maintain a Resident Engineer's Field Office throughout the Project, in accordance with Item 150510 ENGINEER'S FIELD OFFICE."

SECTION 70

LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

The Work shall be provided in accordance with Section 70 of the Standard Specifications.

SECTION 80

PROSECUTION AND PROGRESS

The Work shall be provided in accordance with Section 80 of the Standard Specifications.

SECTION 90

MEASUREMENT AND PAYMENT

The Work shall be provided in accordance with Section 90 of the Standard Specifications.

(THIS PAGE INTENTIONALLY LEFT BLANK)

DIVISION II

PAVING CONSTRUCTION DETAILS

EARTHWORK

ITEM 150510

ENGINEER'S FIELD OFFICE

Revise Item 150510 of the Standard Specifications as follows:

CONSTRUCTION METHODS

150-2.1 Add the following to the first Paragraph:

"Should sanitary facilities that are an integral part of the office not be practicable, temporary toilet facilities shall be provided. The temporary facilities must be of a size to **permit use by access-challenged** persons. A **separate** facility for hand washing must also be available and maintained. Solid waste disposal consisting of two (2) waste baskets and an outside trash container of sufficient size to accommodate a weekly-provided pick-up shall be furnished."

Replace Item H. in the list of equipment to be furnished by the Contractor with the following:

"H. One (1) telephone, with touch tone, where available, and telephone answering machine connected to one dedicated phone line, or a cellular phone with voicemail, for exclusive use by the Resident Engineer."

Replace Item I. in the list of equipment to be furnished by the Contractor with the following:

"I. One dry process copy machine (including maintenance and operating supplies) capable of both collating and reproducing prints up to Ledger Size (11" by 17"); the copier shall be interconnected with Items J. and N. to permit printing directly from the router and the scanner (a separate printer (with maintenance and operating supplies) may also be permitted)."

Replace Item J. in the list of equipment to be furnished by the Contractor with the following:

"J. One (1) Windows<sup>®</sup>-compatible scanner configured to operate with the wireless router furnished in this item (Item N. as added to the list of items to be furnished), and capable of producing images of documents sized up Ledger Size (11" by 17"), for the exclusive use by the Resident Engineer."

Add the following to the list of equipment to be furnished by the Contractor:

"N. Available for the exclusive use of the Resident Engineer, an Internet service connection using telephone DSL, cable broadband, or wireless (4G minimum speed) technology. Additionally, an 802.11g/n wireless router shall be provided, which will allow connection by the Resident Engineer and up to four engineer staff.

"O. One (1) 800 watt, 0.8 cubic foot microwave oven.

"P. Two (2) 28-quart wastebaskets with 8-gallon trash bags.



"Q. One (1) first aid cabinet - fully equipped."

Delete Item K. in the list of equipment to be furnished by the Contractor.

BASIS OF PAYMENT

150-3.1 Revise this Section to read:

"The building fully equipped as specified herein will be paid for at the Contract unit price per lump sum for Engineer's Field Office. This price shall include all utility costs and shall reflect the salvage value of the building, equipment, and furniture, which become the property of the Contractor after release by the Resident Engineer. All telephone calls within Area Code 847 and to Area Codes 217, 224, 312, 331, 630, 708, 773, 779, 815 and 847 shall be included in the cost of the Engineer's Field Office. The Resident Engineer shall reimburse the Contractor for all long distance calls outside of these area codes.

"Payment will be made under:

"Item AR150510 Engineer's Field Office - per lump sum."

ITEM 152

EXCAVATION AND EMBANKMENT

Revise Item 152 of the Standard Specifications as follows:

**Delete all references to measurement and/or payment for excavation by the cubic yard. Excavation furnished under this project shall be measured as a lump sum item.**

152-1.1      DESCRIPTION. Revise the first Paragraph to read:

"This item shall consist of all select excavation and embankment to: construct the aggregate pad for the AWOS equipment; to construct any and all foundations, pads, stoops as shown in the Plans; to construct the access road, and to furnish a smooth, graded fence line for Chain-Link Fences, and for all earth cut and fills necessary to furnish the grade changes shown in the Construction Plan profiles."

Add the following:

"For the purposes of Excavation and Embankment in this Project, this item is to be constructed for aircraft weighing less than 60,000 pounds (Standard Proctor)."

152-1.2      CLASSIFICATION. Delete the second Paragraph.

Add the following:

"Earthwork cut as required in the Plans may result in an excess of material that cannot be incorporated into the work as fill material when constructing the lines and grades shown in the Plans, or to form the topsoil layer as shown in the Plans. All such excess material that cannot be used shall be hauled off-airport to a location authorized by the State of Illinois to accept construction debris. All excess or unstable material shall be used elsewhere in the Work to the extent possible as permitted in the Contract specifications, before the material is hauled away from the Work site and disposed of off-airport. Only material identified by the Resident Engineer for haul and disposal shall be hauled from the Work site and disposed of at the off-site location. Loading, hauling and spreading of the excess material to the off-site disposal site shall **not** be paid for separately, but shall be included in the Contract unit price for "Unclassified Excavation"."

CONSTRUCTION METHODS

152-2.2      EXCAVATION. Add the following to the fifth Paragraph:

"Excess cut material not used in the final grades and shoulders of the Work shall be loaded, hauled and disposed of off-airport to a location authorized by the State of Illinois to accept construction debris. Only material identified by the Resident Engineer for haul and disposal shall be hauled from the Work site and disposed of at the off-airport location."

Add the following to the eighth Paragraph:

"Excavation furnished under this item shall be compacted in accordance with Table 1, Compaction Requirements, except the equipment aggregate pad shall be considered as "Below Proposed Vehicle Roadways & Paved Shoulders, ASTM D 698 - Standard", as categorized in this table.

Add the following:

"Prior to constructing the excavation, vegetation removal or topsoil stripping shall be performed at the excavation location. The excavation/embankment site shall be left with neat lines and grades and sloped to drain at all times. Unless otherwise shown in the Plans, final shaping shall be as directed by the Resident Engineer. Any vegetation removal or topsoil stripping shall **not** be measured separately for payment, but shall be included in the Contract unit price for "Unclassified Excavation".

"The Contractor will not be allowed to haul any materials across existing pavements, except for pavement areas shown for removal in the Plans, or to cross areas designated by the Airport Owner as used for agriculture or which have been seeded under this or previous contracts."

152-2.3 BORROW EXCAVATION. Delete this Section.

Add:

152-2.15 DUST CONTROL WATERING. This Work shall consist exclusively of the control of dust from construction operations and not for use in the compaction of earth embankment.

Dust shall be controlled by the regular, uniform application of sprinkled water to earth surfaces and shall be applied as directed by the Resident Engineer, in a manner meeting his approval. Dust control watering shall not be paid for separately but shall be considered incidental to this item.

Add:

152-2.16 VAPOR BARRIER UNDER AWOS SITE. After excavation for topsoil removal under the AWOS equipment site (the approximate 32-foot by 37-foot pad to be covered with Aggregate Subbase/Aggregate Base Course) is complete, the Contractor shall cover the area with a Polyethylene sheeting (vapor barrier). Prior to placement of the sheeting, the subgrade shall be compacted and accepted in accordance with Item 152 and shall be free of ruts and sharp holes or bumps, and clear of rocks, roots, and objects other debris that may be damaging to the sheeting after placement. Placement of the sheeting shall not be permitted until the subgrade has been accepted by the Resident Engineer. The edges of each roll of sheeting used to cover the area shall be overlapped by 12-inches (overlap shall not be measured for payment).

Polyethylene sheeting used to line the excavation before aggregate placement shall meet the following specifications:

Property	Required Value	Test Method
Thickness	16 mil (0.016 in)	ASTM D3767 Method A
Tensile Strength	68 lb./in	ASTM E154 *
Water Vapor Permeance	0.03 perms	ASTM E96 Method B *
Puncture Resistance	3,300 grams	ASTM D1709 *

\* ASTM E-1745 Requirements.

METHOD OF MEASUREMENT

152-3.1 Delete this Section.

152-3.2 Delete this Section.

152-3.3 Delete this Section.

Add:

152-3.4 All on-site cut and fill excavation, regardless of classification, including topsoil stripping and excess material disposal, shall not be measured separately for payment, but shall be furnished as a lump sum item.

Dust control watering will not be measured for payment, but shall be considered incidental to the Contract items for earthwork.

152-3.5 Installation of the **Vapor Barrier** (Polyethylene sheeting) on an accepted subgrade to be paid for shall be the number of square yards of material measured in place, completed and accepted by the Resident Engineer. Overlap of the material shall not be separately measured for payment.

BASIS OF PAYMENT

152-4.1 Delete this Section.

152-4.2 Delete this Section.

152-4.3 Delete this Section.

152-4.4 Delete this Section.

Add:

152-4.5 Payment will be made at the Contract unit price per lump sum for "Unclassified Excavation (LS)". This price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to satisfactorily complete the item.

Add:

152-4.6 **Vapor Barrier** (Polyethylene sheeting) will be paid for at the Contract unit price per square yard, complete and in place, and accepted, which price shall be full compensation for the materials, labor, equipment, tools and incidentals necessary to complete the item as specified, and to the satisfaction of the Engineer.

Add:

Payment will be made under:

Item AR152411      Unclassified Excavation (LS) - per lump sum.  
Item AR800968      Vapor Barrier - per square yard.

ITEM 156000

EROSION CONTROL

Revise Item 156000 of the Standard Specifications as follows:

MATERIALS

156-2.7 INLET AND PIPE PROTECTION. Revise this Paragraph to read as follows:

"Erosion control protection shall be provided for at existing drainage inlets at the locations shown in the Plans and as detailed in the Plans. The filter wrap shall be installed as shown, whose fabric conforms with the requirements of Section 156-2.1. The used filter wrap shall be disposed of off-site at a lawful disposal site when instructed by the Resident Engineer."

BASIS OF PAYMENT

Add:

Payment will be made under:

Item AR156520      Inlet Protection - per each.

FLEXIBLE BASE COURSES

ITEM 208

AGGREGATE BASE COURSE

Revise Item 208 of the Standard Specifications as follows:

208-1.1      DESCRIPTION. Replace the first Paragraph with the following:

"This item shall consist of a granular base and subbase material composed of **crushed** coarse aggregate as specified. It shall be constructed on a prepared underlying subgrade course in accordance with these specifications and shall conform to the dimensions and the typical cross section shown in the Plans and with the lines and grades established by the Resident Engineer. Aggregate Base Course shall be placed in lifts of limited thickness as required in the Standard Specifications and to the total uniform compacted thickness(es) shown in the Plans. Aggregate Subbase Course shall be placed in lifts of limited thickness as required in the Standard Specifications and to the total compacted elevation(s) shown in the Plans."

MATERIALS

208-2.1      UNCRUSHED COARSE AGGREGATE. Delete this Section.

208-2.3      GRADATION. Add the following:

"The **Gradation B column in Table 1**, Requirements for Gradation of Aggregate, shall be used (CM-6)."

CONSTRUCTION METHODS

208-3.2      PREPARING UNDERLYING SUBGRADE. Add the following as the first Paragraph:

"Prior to placement of the aggregate, the Contractor shall remove topsoil and earth for the depths shown in the Plans for driveway. The excavation shall be to the slopes shown in the Plans. Any excess earthwork material shall be disposed of by the Contractor at an off-airport location, as specified in Item 152. The subgrade shall then be prepared and compacted in accordance with Item 152. Separate measurement for this topsoil and earth removal, excavation, subgrade preparation and compaction, and haul and disposal shall not be made, but shall be included in the Contract unit price for Unclassified Excavation (Lump Sum)."

208-3.5      FINISHING AND COMPACTING. Add the following after the first Paragraph:

"For the purpose of compaction control testing, this item is to be constructed for aircraft weighing less than 60,000 pounds (Standard Proctor)."

METHOD OF MEASUREMENT

208-4.1      Add the following:

"Item AR208530, Aggregate Subbase Course, shall be measured in accordance with Paragraph 208-4.1."

208-4.2 Add the following:

"Item AR208610, 10" Aggregate Base Course, Item AR208612, 12" Aggregate Base Course, and Item AS208606, 6" Aggregate Base Course, shall be measured in accordance with Paragraph 208-4.2."

BASIS OF PAYMENT

208-5.1 Add the following:

"Payment will be made under:

"Item AR208530	Aggregate Subbase Course - per ton.
Item AR208610	10" Aggregate Base Course - per square yard.
Item AR208612	12" Aggregate Base Course - per square yard.
Item AS208606	6" Aggregate Base Course - per square yard."

FLEXIBLE SURFACE COURSES

ITEM 401

BITUMINOUS SURFACE COURSE - SUPERPAVE

(Central Plant Hot Mix)

Revise Item 401 (Superpave) of the Standard Specifications as follows:

401-1.1      DESCRIPTION. Add the following paragraphs:

"For purposes of materials, design and testing criteria, this item is to be constructed for **Traffic Mix - Automobile** and for **Method I - Under 2,500 Tons/pay item**.

"This item shall also include the requirements prescribed in Illinois Division of Aeronautics Policy Memorandums 87-2, Density Acceptance of Bituminous Pavements; 87-4, Determination of Bulk Specific Density of Compacted Bituminous Mixes; 96-3, Requirements for Quality Assurance on Projects with Bituminous Concrete Paving, and; 2003-1, Requirements for Laboratory, Testing, Quality Control, and Paving of Superpave Bituminous Concrete Mixes for Airports, current issues."

COMPOSITION

401-3.2      JOB MIX FORMULA. Add the following:

"This item is to be designed for **Traffic Mix - Automobile**.

401-3.4      TEST SECTION. Delete this Section.

401-3.6      BITUMINOUS AND AGGREGATE MATERIAL CONTRACTOR'S RESPONSIBILITY. Add the following:

"At the Contractor's option, IDOT HMA production and QC/QA procedures for "Small Quantity Production" may be used, as they may be permitted and approved by the Illinois Division of Aeronautics."

CONSTRUCTION METHODS

401-4.4      HMA PAVERS. Add the following to the end of this Section:

"If the aggregate base course and its elevations have been accepted by the Resident Engineer, taut stringline (wire) set to grade (Option B.) shall not be required, and the Contractor may use a ski-type device of not less than 30 feet in length (Option A.), or a short ski or shoe (Option C.), as directed by the Engineer, in conjunction with the HMA paver controls."

401-4.12      JOINTS. Delete the last three (3) sentences of this Paragraph.

401-4.15      ACCEPTANCE TESTING OF HMA MIXES FOR DENSITY. Add the following as the first paragraph:

"At the Contractor's option, IDOT HMA production and QC/QA procedures for "Small Quantity Production" may be used, as they may be permitted and approved by the Illinois Division of Aeronautics."



401-4.17 SAMPLING PAVEMENT. Delete the last sentence of the first Paragraph; **cores shall NOT be required for neither thickness nor Method I acceptance.**

BASIS OF PAYMENT

401-6.1 Add:

"Payment will be made under:

"Item AS401613 Bit. Surf. Cse. - Method I, Superpave - per ton."

ITEM 401660

SAW AND SEAL BITUMINOUS JOINTS

DESCRIPTION

401660-1.1 This item shall consist of a resilient and adhesive joint sealing filler capable of effectively sealing joints in bituminous asphalt pavement at the locations shown in the Plans or as directed by the Resident Engineer.

MATERIALS

401660-2.1 The joint sealing materials shall conform to ASTM D6690 - Type II.

CONSTRUCTION METHODS

401660-3.1 The Contractor shall mark true lines for each joint sealant location. Each location shall then be sawed to the depth shown in the Plans and the Saw and Seal Joints detail. The costs for sawing for joint sealant placement shall be included in the Contract unit price for Item AR401660. Prior to filling, the joint shall be thoroughly cleaned of all laitance, protrusions, dirt, dust, and other objectionable material and the faces of the joints shall be dry. The filler may then be placed at the depths shown in the Plans and in accordance with manufacturer's recommendations for this type of installation. At the time of application of the sealing compound, the atmospheric and pavement temperature shall be above 50° F. The weather shall not be rainy or foggy. The temperature requirements may be waived only when so directed by the Engineer in writing. The Contractor shall not install any joint sealer material until the Resident Engineer has inspected and approved the condition of the joints immediately prior to the installation of the sealer.

Before sealing the joints, the Contractor shall be required to demonstrate that the equipment and procedures for preparing, mixing and placing the sealing compound will produce a satisfactory joint seal. During the course of the work, any batches that do not have good consistency for application shall be rejected.

METHOD OF MEASUREMENT

401660-4.1 The joint sealing filler to be paid for shall be the linear feet of filler or sealer as specified, sawed and placed, complete and accepted.

BASIS OF PAYMENT

401660-4.1 Payment will be made at the Contract unit price per linear foot for Saw and Seal Bituminous Joints, which price shall be full compensation for the materials, labor, equipment, tools and incidentals necessary to complete the item as specified and to the satisfaction of the Engineer.

Payment will be made under:

Item AS401660 Saw and Seal Bit. Joints - per linear foot.

RIGID PAVEMENT

ITEM 800979

PORTLAND CEMENT CONCRETE DRIVEWAY

800979-1.1 This item shall consist of Portland Cement concrete driveway constructed on a prepared subbase, at the locations shown in the Plans. The concrete thickness shall be five (5) inches, as shown in the Plans.

MATERIALS AND EQUIPMENT

800979-2.1 MATERIALS. Concrete materials shall meet the requirements of Item 610, Structural Portland Cement Concrete. **A protective coat shall be required.**

Preformed fiber joint filler and hot-poured joint sealer shall be furnished at all edges abutting existing or new Combination Concrete Curb and Gutter or Depressed Curb and Gutter. Preformed fiber joint filler shall meet the requirements of Section 1051 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Hot-poured joint sealer shall be ASTM D 6690, Type II, Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements.

800979-2.2 EQUIPMENT. Equipment shall meet the requirements of Section 424.03 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised.

CONSTRUCTION REQUIREMENTS

800979-3.1 CONSTRUCTION REQUIREMENTS. The construction shall be completed as shown in the details and notes shown in the Plans, **and in accordance with Sections 424.04 through 424.11 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised.**

In addition, all expansion and sawed contraction joints (at locations shown/detailed in the Plans) shall be sealed with hot-poured joint sealer, meeting requirements of ASTM D 6690, Type II, Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements.

METHOD OF MEASUREMENT

800979-4.1 METHOD OF MEASUREMENT. Portland Cement concrete driveway will be measured for payment in place, and the area computed in square yards. Joint filler and sealant shall not be measured separately for payment but shall be incidental to the Contract unit price for sidewalk.

BASIS OF PAYMENT

800979-5.1 BASIS OF PAYMENT. This work will be paid for at the Contract unit price per square yard for Portland Cement Driveway of the thickness specified, which price shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals, including all required expansion joints, sawed or tooled joint sealing, special texturing, and variable height edge treatment at sidewalk aprons and accessibility ramps, necessary to complete the item as specified.

SPECIAL PROVISIONS  
SCHAUMBURG REGIONAL AIRPORT (06C)  
INSTALL AWOS A-V; REPLACE AIRPORT ROTATING BEACON

SBG PROJECT NO. 3-17-SBGP-XX  
IDA PROJECT NO. 06C-4339

---

Payment will be made under:

Item AS800979      PCC Driveway - per square yard.

MISCELLANEOUS

ITEM 602

BITUMINOUS PRIME COAT

Revise Item 602 of the Standard Specifications as follows:

CONSTRUCTION METHODS

Add:

602-3.6 INDEPENDENT WEIGHT CHECKS. Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item.

METHOD OF MEASUREMENT

602-4.1 Add the following paragraph to this Section:

"Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item."

BASIS OF PAYMENT

602-5.1 Add the following:

"Payment will be made under:

"Item AS602510 Bituminous Prime Coat - per gallon."

ITEM 610

STRUCTURAL PORTLAND CEMENT CONCRETE

Revise Item 610 of the Standard Specifications as follows:

This item shall be provided in accordance with the Standard Specifications for Item 610, Structural Portland Cement Concrete.

BASIS OF PAYMENT

No direct payment will be made for structural Portland cement concrete. The cost of furnishing and installing structural concrete shall be considered incidental to the Contract unit prices for the respective pay items utilizing the concrete. These prices shall be full compensation for furnishing all materials and for all preparation, delivering and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

DIVISION III

FENCING (WIRE FENCES)

ITEM 162

CHAIN-LINK FENCES

(Class E)

Revise Item 162 of the Standard Specifications as follows:

DESCRIPTION

162-1.1 Add the following:

"All metal materials used in the fencing and fencing materials shall be fabricated from steel made in the U. S. Contractor shall provide certification that the steel was 100 percent domestic-made steel, and that the fence materials were fabricated in the United States.

"Base Bid pay items are identified with the "AR" prefix in their number. The Bidder/Contractor shall also furnish additive alternate pricing for "AT" pay items (black vinyl coating of fence materials, and black vinyl coating or powder coating of gate materials). Award of the additive alternate shall be as prescribed in the Bid Proposal documents.

"This item shall also include the removal of existing fence at the locations shown in the Plans or as directed by the Resident Engineer."

MATERIALS

162-2.1 FABRIC. Add the following:

"For AR items, fabric shall be galvanized/coated. For AT items, fabric shall be vinyl-coated (black) over galvanized/coated."

162-2.2 BARBED WIRE. Delete this Section. Barbed wire shall not be furnished.

162-2.3 FENCE POSTS, POST TOPS AND EXTENSIONS, RAILS, GATES BRACES, STRETCHER BARS, AND CLIPS. Add the following:

"Top rail shall be furnished for all fence under this item. Additional corner posts shall be furnished at the locations shown in the Plans.

"Fence materials shall meet the specified requirements for chain-link fence based upon the details shown in the Construction Plans for the "above-ground" heights specified.

"Type C pipe may be used. The manufacturer shall furnish test results that indicate that the Type C pipe furnishes the same corrosive resistance as Type A and B pipe, tested in accordance with the materials standard for this item.

"For AT items, fence materials shall be vinyl-coated (black) over galvanized/coated."

162-2.5      WIRE TIES AND TENSION WIRE. Add the following:

"For AT items, wire ties and tension wire shall be vinyl-coated (black) over galvanized/coated."

Add:

162-2.11      GATE CHAIN AND PADLOCKS. The Contractor shall furnish a new security chain and padlock for each swing gate. Chain shall be 5/16-inch stainless steel cut into a three foot length, **for AT items, black vinyl coated.** Padlock shall be solid brass body, corrosion resistant and ideal for harsh environments. Padlock dimensions shall be 2-inch shackle, 2-inch wide and 3/4-inch thick. Padlocks shall be keyed to match existing Airport padlock system. The Contractor shall coordinate the furnishing of these padlocks with the Airport Owner."

Add:

162-2.12      CERTIFICATION AND SHOP DRAWINGS. The Contractor shall submit shop drawings detailing all fence items to be furnished for approval by the Project Engineer. The Contractor shall provide a written certification that all fence materials used in the Work meet the Contract Documents.

#### CONSTRUCTION METHODS

162-3.1      CLEARING FENCE LINE. Add the following:

"All new fence shall be placed along a level, smooth, finished grade. The Contractor shall correct any irregularities in the ground's surface prior to installation of the fence where the irregular surface is located outside of the grading limits shown in the Plans. Also, the Contractor shall re-grade the existing ground where indicated on the Construction Plans to furnish the specified maximum fence elevation. The cost for this grading shall be paid under Item 152. **This grading shall not be limited to, but shall be in addition to, the grading shown in the Plans or elsewhere specified.**"

162-3.2      INSTALLING POSTS. Delete the first sentence of the last Paragraph and replace with the following:

"All posts shall be set to the minimum depths below the existing ground line as detailed in the Plans. All fence post lengths shall consider the footing depths shown in the details. Concrete encasement shall extend an **additional 6-inches** below the post end."

Add the following:

"In paved areas, the post hole digging shall be completed so as to minimize any damage to pavements. Prior to the pouring of concrete, the pavement shall be neatly saw cut to the full depth of the asphalt or concrete and at a 24-inch square. Saw-cutting and pavement protection shall not be measured for payment but shall be included in the Contract unit price for new fence. Any damaged pavements shall be replaced by the Contractor to the satisfaction of the Resident Engineer and at no additional costs to the Contract. **In existing paved areas and at swing gate openings, the additional 2-foot buried portion of the fence shall not be installed.**"

162-3.4      INSTALLING BRACES. Add the following:

"At terminal (end, corner and pull) and gate posts, the fabric shall be fastened to the post with stretcher bars and bands that extend below the existing ground to secure the 24 inches of buried fence fabric."



162-3.5      INSTALLING FABRIC. Add the following:

"Where shown in the Plans, the Contractor shall construct a trench of adequate width and depth (greater than 24 inches) to permit the installation of the fence fabric to extend 24 inches below the ground line. The fabric shall be smooth and even throughout the 24-inch depth. The trench shall be backfilled with excavated material and compacted to the satisfaction of the Resident Engineer. **In existing paved areas and at swing gate openings, the additional 2-foot buried portion of the fence shall not be installed.**

"The bottom tension wire shall be located 2 inches above the final ground line."

162-3.6      ELECTRICAL GROUNDS. Add the following:

"The fence shall be bonded and grounded as detailed in the Plans. The ground wire connections to the fencing shall be with UL listed grounding connectors of cast bronze body and bronze or stainless steel bolts, nuts, and washers. Grounding connectors shall be sized and suitable for the respective application. Connections to ground rods shall be with UL listed grounding connectors suitable for direct burial in earth or exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440), or Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437) or approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds suitable for each respective application. Ground rods shall be 5/8-inch diameter by 8 feet long (minimum), UL-listed, copper-clad. Steel used to manufacture ground rods shall be 100 percent domestic steel. Include certification that ground rods are made with 100 percent domestic steel. The ground wire used to bond the fencing to the ground rod shall be #6 AWG bare solid copper conductor. The items furnished and installed in providing the specified grounding shall not be measured separately for payment, but shall be included in the Contract unit price for fencing."

162-3.9      EXISTING FENCE CONNECTIONS. Add the following:

"The furnishing and installing of new, additional or replacement terminal posts, line posts, end posts, fabric and brace spans and any other incidental modifications needed to provide an acceptable connection of the new fence to any existing fence, regardless of type of existing fence, as shown in the Plans or as directed by the Resident Engineer, shall not be paid separately, but shall be included in the Contract unit price for new fence."

162-3.11      FENCE AND GATE REMOVAL. Add the following:

"FENCE REMOVAL

"The fence to be removed shall be chain-link, architectural aluminum or steel, wooden, woven wire or any other fence type. The existing fence shall be removed completely, including posts and foundations.

"In turf areas, the existing posts shall be pulled and not cut off. All resulting holes in turf shall be filled and compacted to the satisfaction of the Resident Engineer. Turf areas disturbed by removal shall be restored in accordance with Item 901, except the areas will not be measured for payment.

"In paved areas, the existing posts shall be cut off and ground to a depth of two (2.0) inches below the existing pavement surface. All resulting post holes in existing pavements shall be filled with an IDOT-approved nonshrink grout.

"All removed materials not accepted by the Airport Owner, shall be disposed of off airport property."

Add:

- 162-3.13 AWOS FACILITY/SITE FENCE GROUNDING REQUIREMENTS. The fence around the AWOS site (aggregate pad) shall be bonded and grounded to the AWOS site ground ring, as detailed in the Plans and specified herein.
- A. Fences made of conducting material, i.e. chain link fabric, metal crossbar, stranded wire, shall be constructed using metal posts which extend a minimum of 2 feet below grade, (or deeper where specified herein). Metallic fence fabric with non-conductive coatings shall not be used.
  - B. Gates shall have a 1 in. by 1/8 in. flexible tinned copper bond strap or an insulated #4/0 AWG flexible (welding) copper cable that is bonded to the adjacent post (exothermic welding is recommended). The posts at each side of the gate shall also be bonded, at a height no greater than 1 foot above grade, to the respective ground ring with a #2 AWG (minimum) bare copper cable. The bonding strap to the post shall be installed so as not to limit full motion (swing) of the gate. Additionally a horizontal bare #6 AWG stranded copper conductor shall be woven through the gate fabric and mechanically bonded to the gate rails with UL listed grounding connectors sized for the respective rails and respective conductor.
  - C. A horizontal bare #6 AWG stranded copper conductor shall be woven through the fence fabric and mechanically bonded to the fence posts at intervals not greater than 40 feet. The mechanical connectors shall be UL listed ground connectors, Burndy Type GAR ground connector, or approved equal, sized for the respective fence post and the #6 AWG Copper cable. The fence posts with these bonds and the fence posts adjacent to gates shall be bonded to the respective site ground ring with a #2 AWG (minimum) bare copper cable. Connections to fence posts shall be with UL listed pipe grounding clamps with bronze hardware or exothermically weld connection. Connections to the ground ring shall be exothermic weld type connections; Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440) or Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or approved equal, using the appropriate molds for the respective application and respective sizes of conductors.

Add:

- 162-3.14 LOCATE EXISTING UTILITIES. The location, size, and type of material of existing underground and/or aboveground utilities that may be indicated in the Plans are not represented as being accurate, sufficient or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment where required. In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility.

**Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities.** Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also, contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also, coordinate work with all aboveground utilities.

Payment for locating and marking underground utilities and cables will not be paid for separately, but shall be considered incidental to the respective work item for which it is required.

METHOD OF MEASUREMENT

162-4.2 Delete this Section.

162-4.3 Revise this Section to read:

"162-4.3 Fence Removal to be paid shall be the actual length of feet (including post widths) removed and completed as specified, regardless of type (chain-link, architectural aluminum or steel, wooden, woven wire or other), except for the space occupied by gates.

162-4.4 Delete this Section.

162-4.5 Revise this Section to read:

"162-4.5 Gate Removal to be paid shall be the actual number of non-electric powered gates removed and completed as specified (including Section 162-3.11), regardless of type (chain-link, architectural aluminum or steel, wooden, woven wire, swing, or sliding)."

Add:

162-4.6 **Upgrade Fence Materials to Vinyl (Item AT800995)** to be paid shall be measured as a lump sum and shall include the **additional** materials costs and associated installation costs **above the Base Bid**, as specified herein for furnishing vinyl-coated fence materials.

Add:

162-4.7 **Upgrade Gate Materials to Vinyl (Item AT800996)** to be paid shall be measured as a lump sum and shall include the **additional** materials costs and associated installation costs **above the Base Bid**, as specified herein for furnishing vinyl-coated and/or powder-coated gate materials.

BASIS OF PAYMENT

152-5.2 Delete this Section.

162-5.3 Revise this Section to read:

"162-5.3 Payment shall be made at the Contract unit price per linear foot for Fence Removal, as measured in Section 162-4.3. This price shall be full compensation for furnishing all materials and for all removals, restoration, including grading, backfilling, seeding and mulching, and disposal, and for all labor, equipment, tools, and incidentals necessary to complete this item."

162-5.4 Delete this Section.

162-5.5 Delete this Section.

Add:

162-5.6 Payment shall be made at the Contract unit price per lump sum for **Upgrade Fence Materials to Vinyl (Item AT800995)**, as measured in Section 162-4.6. This price shall be full compensation for the **additional** materials costs and associated installation costs **above the Base Bid**, as specified herein for furnishing vinyl-coated fence materials.

Add:

162-5.7 Payment shall be made at the Contract unit price per lump sum for **Upgrade Gate Materials to Vinyl (Item AT800996)**, as measured in Section 162-4.7. This price shall be full compensation for the **additional** materials costs and associated installation costs **above the Base Bid**, as specified herein for furnishing vinyl-coated and/or powder-coated gate materials.

Add:

Payment will be made under:

Item AR162606	Class E Gate-6' - per each.
Item AR800980	Class E Fence 8' GALV w/ 2' Buried - per linear foot.
Item AR800984	20' (Double 10') Class E Gate -per each.
Item AR800991	Remove Fence - per linear foot.
Item AT800995	Upgrade Fence Materials to Vinyl - per lump sum.
Item AT800996	Upgrade Gate Materials to Vinyl - per lump sum.

DIVISION IV

DRAINAGE

ITEM 800997

DEPRESSED CURB AND GUTTER

DESCRIPTION

800997-1.1 This item shall consist of depressed Portland Cement concrete curb and gutter constructed on a prepared subgrade, at the locations shown in the Plans. This item shall also include the removal and disposal of existing concrete curb and gutter at locations shown in the Plans, or as directed by the Resident Engineer.

MATERIALS AND EQUIPMENT

800997-2.1 MATERIALS. Concrete materials shall meet the requirements of Item 610, Structural Portland Cement Concrete. Reinforcement bars and fabric shall meet Section 1006.10 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Prefomed expansion joint filler shall meet the requirements of Section 1051 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Protective coat shall meet the requirements of Section 1023 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Dowel bars shall meet the requirements of Section 1006.11 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised. Hot-poured joint sealer shall be ASTM D 6690, Type II, Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements. **A protective coat shall be required.**

800997-2.2 EQUIPMENT. Equipment shall meet the requirements of Section 606.03 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised.

CONSTRUCTION REQUIREMENTS

800997-3.1 GENERAL. The construction shall be completed as shown in the details and notes shown in the Plans, **and in accordance with Sections 606.04 through 606.08 and Sections 606.11 through 606.13 of the IDOT Specifications, Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2012, as revised.** **A protective coat shall be required.**

In addition, all expansion and sawed contraction joints shall be sealed with hot-poured joint sealer, meeting requirements of ASTM D 6690, Type II, Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements.

Where necessary, aggregate backfill shall be added under the removed curb and gutter to establish the required curb and gutter and/or driveway elevation, furnished under Item 208.

800997-3.2 **BACKFILLING.** After the concrete has set sufficiently, the spaces adjacent to the structure shall be refilled to the required elevation with material specified in the Plans and compacted by mechanical equipment to at least 90% density, as determined by compaction control test specified in Division VII.

800997-3.3 **REMOVALS.** The existing curb and/or gutter and/or combination curb and gutter shall be sawcut at the limits of removal. If adjacent pavement or structures are to remain in place the Contractor shall provide saw cuts along the pavement or structures to remain. The curb and/or gutter and/or combination curb and gutter shall be completely removed and disposed of by the Contractor off of airport property. **Included in the removal shall be the sawing of a "curb end back slope" on the ends of curb to remain, using a high-grade diamond grade saw blade, as detailed in the Plans, whose cost shall be incidental to curb & gutter removal.**

Where necessary in removed areas, to establish the required curb and gutter and/or driveway elevation, aggregate backfill shall be added under the removed curb and gutter, furnished under item 208.

800997-3.4 **CLEANING AND RESTORATION OF SITE.** After the backfill is completed, the Contractor shall dispose of all surplus material, dirt, and rubbish from the site. Surplus dirt may be deposited in embankments, shoulders, or as ordered by the Resident Engineer. The Contractor shall restore all disturbed areas to their original condition.

After all work is completed, the Contractor shall remove all tools and equipment, leaving the entire site free, clear and in good condition.

Performance of the work described in this section is not payable directly but shall be considered as a subsidiary obligation of the Contractor, covered under the contract until price for the structure.

#### METHOD OF MEASUREMENT

800997-4.1 Depressed Curb and Gutter will be measured for payment in place, in linear feet, in the flow line of the gutter and along the face of the concrete curb. Joint filler and sealant and protective coat shall not be measured separately for payment but shall be incidental to the Contract unit price for Depressed Curb and Gutter.

Combination curb and gutter removal shall be measured by the number of linear feet of curb and gutter removed, measured along the centerline of each respective type of structure.

#### BASIS OF PAYMENT

800997-5.1 This work will be paid for at the Contract unit price per linear foot for Depressed Curb and Gutter, which price shall be full compensation for furnishing all labor, materials, tools, equipment, and incidentals, including all required expansion joints and protective coat, necessary to complete the item as specified.

Payment will be made at the Contract unit price per linear foot for removal of concrete curb and/or gutter, completed and accepted in accordance with the Plans and specifications, which price shall be full compensation for furnishing all labor, materials, tools, equipment, removals and disposals, and incidentals necessary to complete the item as specified.

Payment will be made under:

Item AS754904	Remove Comb Curb & Gutter - per linear foot.
Item AS800997	Depressed Curb and Gutter - per linear foot.

DIVISION V

TURFING

ITEM 901

SEEDING

Revise Item 901 of the Standard Specifications as follows:

MATERIALS

901-2.1      SEED. Add the following:

"If planted in the spring (April 1 through June 1), the Contractor shall furnish additional measures beyond that otherwise required in these Special Provisions to prevent weed growth as recommended by a registered nurseryman at no additional cost to the Contract.

"Seed mixtures shall contain the proportion of seed of individual species indicated in the planting design. Changes in seed mixtures must be approved by the Project Engineer.

"A sample of selected seed species shall be made available on request to the Resident Engineer for viability testing by the tetrazolium trichloride method, not less than 21 calendar days prior to planting.

"All seeds shall be guaranteed by the Contractor to be true to name. All seeds shall have the proper pre-planting treatments, including stratification, scarification and/or inoculation to promote good germination and growth, prior to any seeding.

"All seedings shall be planted at the specified rates, utilizing the specified species unless otherwise authorized by the Project Engineer."

901-2.2      LIME. Replace this Section with the following:

"901-2.2 SOIL TESTING AND MODIFICATION. The Contractor shall perform a soil analysis of all on-site and off-site topsoil types used in the seedbed. The pH of the topsoil shall be between 5.5 pH and 6.5 pH. Should the pH be less than 5.5, the Contractor shall add agricultural lime of a type and source approved by IDOT, at application rates appropriate to achieve the required pH. Should the pH be greater than 6.5, the Contractor shall add elemental sulfur of a type and source approved by IDOT, at rates appropriate to achieve the required pH. The Contractor shall furnish the test reports and proposed soil modifications for approval to the Engineer prior to any soil modification. All soil testing and modification shall be incidental to seeding or cover."

901-2.3      FERTILIZER. Delete this Section.

CONSTRUCTION METHODS

901-3.1     ADVANCE PREPARATION AND CLEANUP. Add the following as the first paragraph:

"ALL perennial weeds and spontaneous vegetation shall be eliminated within the seedbed prior to seeding, using mowing/raking and herbicide. Herbicides used for weed removal shall be as recommended by the seed producer. Based upon actual conditions, it may be necessary for this weed removal to begin up to eight weeks before planting. When all vegetation is dead, the soil shall be tilled and otherwise prepared for planting as specified herein. Weed removal prior to acceptance of the lawn shall be incidental to the Contract."

Add the following sentence to the second paragraph:

"Soil shall be prepared to have clods no more than 1½ inches on any side to ensure adequate seed-soil contact."

Add the following paragraphs:

"Seed shall not be placed on ground that is frozen or in any way in a condition that is detrimental to the seed.

"Areas shall be de-watered if necessary to accomplish any specified plantings. The method of de-watering shall be approved by the Resident Engineer.

"Final grading and site preparation must be inspected and approved by the Resident Engineer prior to any planting.

"Seedbed preparation shall commence as soon as practicable prior to planting. After preparation, these areas shall be protected from erosion.

"The proposed seeding method shall be stated by the Contractor. The seeding method shall result in a uniform distribution and complete coverage of the entire area to be seeded. If seed drilling is proposed, the seeder shall have an adjustable gate opening provided uniform flow and shall drop the seed directly into place on the prepared seed bed. If the broadcast method is used, within eight hours of seeding, all seeded areas should be rolled at right angles to the slope with a roller, cultipacker or hand tamped to compact the seedbed. Any areas broadcasted shall be sufficiently rolled or tamped to assist proper germination. All seeding equipment shall be calibrated to ensure the proper flow of seeds to deliver the specified quantities. The Contractor shall use only seeding equipment that is designed to plant grasses.

"All seeding shall be provided within the planting seasons stated in Section 901-2.1, unless season mixes are prior approved by the Project Engineer and conditions are acceptable for seeding as noted in Section 901-2.1.

"Measures to protect planted materials from grazing damage by wildlife shall be recommended and provided by the Contractor.

"Installation and maintenance of erosion control measures pertinent to seeding shall be the responsibility of the Contractor. Erosion control measures which may be damaged and/or removed by the Contractor during planting and related work shall be replaced by the Contractor.

"If on-site conditions change or are otherwise altered due to circumstances beyond the control of the Contractor, the Airport Owner, and/or the Project Engineer, such that the Specifications and/or drawings are no longer valid, the Contractor shall notify the Resident Engineer so that remedial measures may be undertaken."



901-3.4      MAINTENANCE OF SEEDED AREAS. Add the following:

**"It is essential that the seeds planted herein are watered for one to two months after planting to increase germination rates and seedling survival. The Contractor shall regularly water the seedlings to promote proper germination. It shall be the Contractor's responsibility to regularly inspect the growth and furnish watering, when required. All inspection and watering shall be incidental to seeding."**

BASIS OF PAYMENT

901-5.1      Add the following:

"Water utilized for bed preparation and maintenance of the seeded or covered areas shall be incidental to the Contract prices for seeding.

"Payment will be made under:

"Item AR901510 Seeding - per acre."

ITEM 905

TOPSOILING

Revise Item 905 of the Standard Specifications as follows:

DESCRIPTION

905-1.1 Add the following:

"Topsoil shall be from on-site and created by stripping of topsoil from within the grading limits shown in the Plans and stockpiled at locations determined by the Contractor and approved by the Resident Engineer. Stripping of the topsoil and placing in the temporary stockpiles shall be paid under Item AR152410."

MATERIALS

905-2.1 TOPSOIL. **Modify the allowed pH to read ... 5.5 pH to 6.5 pH.**

Replace the last sentence of the first Paragraph with the following:

**"At least 90 percent of the material shall pass the No. 10 sieve."**

Add the following as the last Paragraph:

**"Testing shall be performed by the Contractor for the on-site material.** Soils testing and modification shall be furnished in accordance with Item 901, as modified by these Special Provisions."

CONSTRUCTION REQUIREMENTS

905-3.4 PLACING TOPSOIL. Delete the first sentence of the first Paragraph and replace with the following:

"The topsoil shall be spread on the prepared areas to receive seeding. The resulting topsoil layer shall be at least four (4) inches in depth; at the outer limits the 4-inch depth can include the existing topsoil layer not disturbed by the construction."

METHOD OF MEASUREMENT

905-4.2 Delete this Section.

BASIS OF PAYMENT

905-5.1 Replace this Paragraph with the following:

"The quantity, determined as provided in Section 905-4.1, will be paid for at the Contract unit price per cubic yard, which price and payment shall be full compensation for furnishing and placing all material and for all labor, haul, equipment, tools, and incidentals necessary to complete the work prescribed in this item, to the satisfaction of the Engineer.

"Payment will be made under:

"Item AR905510      Topsoiling (From On Site) - per cubic yard."

ITEM 908

MULCHING

Revise Item 908 of the Standard Specifications as follows:

DESCRIPTION

908-1.1 Add the following:

"Material used for mulching shall be **Heavy Duty** hydraulic mulch, applied and secured as otherwise provided in the Standard Specifications."

MATERIALS

908-2.1 MULCH MATERIAL. Delete the first Paragraph and replace with the following:

"Material used for mulching shall be **Heavy Duty** hydraulic mulch, as specified herein."

Delete Subparagraphs A, B and C.

CONSTRUCTION METHODS

908-3.1 MULCHING. Add the following:

"Hydraulic mulch shall be applied as specified herein for **Heavy Duty** applications."

BASIS OF PAYMENT

908-5.1 Add the following:

"Payment will be made under:

"Item AR908510 Mulching - per acre."

DIVISION VI

LIGHTING INSTALLATION

ITEM 101580

REFURBISH 36" BEACON

DESCRIPTION

101-1.1 Revise this Section to read:

"This Item of work shall consist of replacing the existing airport rotating beacon with an L-802A, 36" refurbished airport rotating beacon, furnished and installed in accordance with this Specification. The Contractor shall field-verify existing conditions to determine the extent of the work. The Contractor shall furnish a crane and all associated hoisting and rigging equipment to remove the existing 36" rotating beacon, and install the proposed 36" refurbished airport rotating beacon. This Work shall include the mounting, leveling, adjusting, painting, servicing, and testing of the beacon, electrical equipment, conduit, wiring, grounding, site preparation, and all materials and incidentals necessary to place the airport rotating beacon in proper operating condition as a completed unit to the satisfaction of the Airport and the Engineer."

Add:

101-1.2 REFERENCES.

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 - Fittings Rigid Metal Conduit and EMT.
- C. ASTM Specification B3 - Standard Specification for Soft or Annealed Copper Wire.
- D. ASTM Specification B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- E. NFPA 70 - National Electrical Code (most current issue in force).
- F. NFPA 70E - Standard for Electrical Safety in the Workplace.
- G. UL Standard 6 - Rigid Metal Conduit.
- H. UL Standard 83 - Thermoplastic-Insulated Wires and Cables.

Add:

101-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings shall be clear and legible. **Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

- A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) or NAFTA (North American Free Trade) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: [http://www.faa.gov/airports/aip/buy\\_american/](http://www.faa.gov/airports/aip/buy_american/) for more information on the Airport Improvement Program Buy American Preferences requirements.
- B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials and equipment.
- C. Cut sheets with part number and specifications for the refurbished airport rotating beacon.

#### EQUIPMENT AND MATERIALS

101-2.2 BEACON. Add the following:

"The airport rotating beacon shall be a refurbished/retrofitted 36", double-end L-802A high intensity airport beacon, DCB36 standard base, Class 1, with a new beacon warranty, clear-green beam, 120-Volt, 60-Hertz, 400-Watt, metal halide lamp. The rotating beacon shall include a tell-tale relay for interface and control of obstruction lights. The obstruction lights shall illuminate when the beacon is off or when the beacon lamp fails. The refurbished, airport rotating beacon shall be a Hali-Brite, Inc. (925 First Street SW, P. O. Box 10, Crosby, MN 56441, Phone: 1-800-553-6269, Fax 218-546-6854) Part Number L802A1116BSE, with L802 T/T DCB 36 tell-tale relay, or approved equal. Note that this airport rotating beacon will have an existing unit for exchange. Contractor shall confirm part numbers and coordinate ordering of this airport rotating beacon (with the exchange) with the respective manufacturer."

101-2.3 PANELBOARDS AND BREAKERS. Add the following:

"A new load center will be furnished and installed at the beacon tower platform under Item AR800951 Modify Beacon Installation."

101-2.5 WIRE. Revise this Section to read:

"101-2.5 WIRE. New wiring from the load center to the airport rotating beacon shall be furnished and installed as detailed in the Plans and Specified herein. Wire for power and control circuits shall be THWN Copper conductors. Cable shall be 1/C sized in accordance with National Electrical Code (NEC) 75°C ampacity tables and/or as detailed herein. Cable shall comply with Underwriters' Laboratories Standard UL-83, and shall be UL-listed as VW-1. Conductor shall be soft-annealed, uncoated Copper, and shall comply with ASTM B3 and B8. Insulation shall be rated for 600-Volt. Insulation shall be polyvinyl-chloride conforming to Underwriters' Laboratories requirements for Type THW. The outer covering shall be nylon conforming to Underwriters' Laboratories requirements for Type THHN or THWN-2. Cable shall be UL-listed and marked THWN-2."

101-2.6      CONDUIT. Add the following:

"Liquid-Tight Flexible Metal Conduit. Liquid-tight, flexible metal conduit shall consist of polyvinyl jacket over flexible hot-dip, galvanized steel tubing. The flexible conduit shall be completely sealed from liquids, dust, dirt, and fumes and be resistant to oil, gasoline, grease, and abrasion. Jacket shall also be sunlight-resistant. Liquid-tight, flexible metal conduit shall be UL-listed, suitable for use as a grounding conductor, and comply with Article 350 of the NEC. Liquid-tight, flexible metal conduit and associated fittings shall be UL-listed to meet the requirements of NEC 350.6. Liquid-tight, flexible metal conduit shall be Anaconda Sealtite Type UA, as manufactured by Anamet Electrical Inc., 1000 Broadway Avenue East, Mattoon, Illinois 61938-0039, Phone: 217-234-8844, Liguatite Type LA, as manufactured by Electri-Flex Company, 222 W. Central Ave., Roselle, Illinois 60172, Phone: 630-529-2920 or 1-800-323-6174, or approved equal. Do not install liquid-tight, flexible metal conduit that is not UL listed. Confirm liquid-tight, flexible metal conduit bears the UL label prior to installation."

CONSTRUCTION METHODS

101-3.1      PLACING THE BEACON. Revise this Section to read:

"101-3.1 PLACING THE BEACON. The refurbished beacon shall be mounted on the existing beacon tower in accordance with the beacon manufacturer's recommendations and instructions."

101-3.6      BEACON MOUNTING PLATFORM. Revise this Section to read:

"101-3.6 BEACON MOUNTING PLATFORM. The proposed refurbished beacon shall be mounted to the beacon plate-mounting on top of the existing beacon tower. The Contractor shall make any necessary modifications to the beacon plate in order to bolt the proposed refurbished beacon to the beacon plate."

101-3.7      WIRING. Add the following:

"The Contractor shall furnish and install all electrical materials necessary for complete and operational installation, as stipulated in this respective Item. The complete installation and wiring shall be done in a neat, workmanlike manner. All electrical work shall comply with the requirements of the NFPA 70 - National Electrical Code (NEC), most current issue in force. Equipment shall be installed, in conformance with the respective manufacturer's directions and recommendations for the respective application. Any installations which void the UL listing, Intertek Testing Services verification/listing (or other third party listing), and/or the manufacturer's warranty of a device will not be permitted.

"Contractor shall furnish and install 1- #12 THWN, 1- #12 Neutral, and 1- #12 Ground in 3/4"(minimum), galvanized rigid steel conduit (GRSC) and/or 3/4" (minimum), liquid-tight, flexible metal conduit from the disconnecting means/load center to the airport rotating beacon."

101-3.12      OBSTRUCTION LIGHTS. Revise this Section to read:

"101-3.12 OBSTRUCTION LIGHTS. Obstruction lights shall be furnished and installed under Item AR800951 Modify Beacon Installation."

101-3.13      PAINTING. Add the following:

"The refurbished beacon, except glass surfaces, shall be factory-painted aviation orange."

Add:

101-3.15 **SAFETY.** Safety equipment and procedures shall be used when placing the beacon. Under no circumstances should the beacon tower be climbed without standard climbing safety equipment.

The Contractor should examine the proposed site to evaluate the existing conditions and the complexity of the work.

Contractor shall keep a copy of the latest NEC in force on site at all times during construction for use as a reference.

Contractor shall coordinate work and any power outages with the Airport Manager or respective Airport personnel. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).

Contractor shall comply with the requirements of FAA AC No. 150/5370-2 (current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

The Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.

Add:

101-3.16 **LOCATE EXISTING UNDERGROUND UTILITIES AND CABLES.** The location, size, and type of material of existing underground and/or aboveground utilities indicated in the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required. In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer/Resident Project Representative shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. **Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.** Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also, contact Airport Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

METHOD OF MEASUREMENT

101-4.1 Revise this Section to read:

"101-4.1 The quantity to be paid for shall be the number of beacons installed as completed units in place, accepted, and ready for operation. This item shall be measured for payment as a unit price per lump sum and shall consist of removal of the existing 36" airport rotating beacon and the installation of the 36" refurbished airport rotating beacon on top of the existing beacon tower and all labor, materials, equipment, conduit, wiring, grounding, site preparation, electrical work, tools, operational instructions, coordination, mounting, mounting hardware and platform for the beacon, leveling, painting, servicing, testing, and all incidentals necessary to place the respective installation into proper working order to the satisfaction of the Airport and the Engineer. The cables and conduits from the load center at the beacon tower platform to the beacon shall be incidental to this item."

BASIS OF PAYMENT

101-5.1 Revise this Section to read:

101-5.1 The removal of the existing 36" airport rotating beacon, and the installation of the 36" refurbished airport rotating beacon on top of the existing beacon tower, as specified herein complete and accepted by the Airport and the Engineer, will be paid for at the Contract unit bid price per lump sum. This price shall be full compensation for removing the existing beacon, furnishing and installing the refurbished beacon, furnishing all materials, and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, adjusting, testing, and incidentals necessary to complete this Item."

Add:

Payment will be made under:

Item AR101580 Refurbish 36" Beacon - per lump sum.



ITEM 800951

MODIFY BEACON INSTALLATION

DESCRIPTION

800951-1.1 This Item of work shall include furnishing and installing a new load center at the top of the existing airport rotating beacon tower, furnishing and installing obstruction lighting, and furnishing and installing a lightning protection system as detailed in the Plans and specified herein. This Item of work shall include all labor, tools, coordination, equipment, conduit, wiring, controls, obstruction lighting, lightning protection, grounding, site preparation, testing, and all materials and incidentals necessary to perform the modifications to the satisfaction of the Resident Engineer. The work in the Airport Electrical Vault associated with the beacon, controls, feeder circuit, and interface shall be included with this item.

800951-1.2 REFERENCES.

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 - Fittings Rigid Metal Conduit and EMT.
- C. ASTM Specification B3 - Standard Specification for Soft or Annealed Copper Wire.
- D. ASTM Specification B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- E. FAA AC No. 150/5345-53 "AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM" (most current issue) and AC150/5345-53D, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.
- F. FAA AC No. 150/5345-43G "SPECIFICATION FOR OBSTRUCTION LIGHTING EQUIPMENT" (or most current issue in effect).
- G. FAA AC No. 150/5370-10F "STANDARDS FOR SPECIFYING CONSTRUCTION OF AIRPORTS".
- H. FAA AC No. 150/5370-2F "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION (or most current issue in effect).
- I. Federal Specification A-A-59544 Cable and Wire, Electrical (Power, Fixed Installation).
- J. NFPA 70 - National Electrical Code (most current issue in force).
- K. NFPA 70E - Standard for Electrical Safety in the Workplace.
- L. NFPA 780 - Installation of Lightning Protection Systems.
- M. OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures.
- N. UL Standard 6 - Rigid Metal Conduit.
- O. UL Standard 44 - Thermoset-Insulated Wires and Cables.

- P. UL Standard 83 - Thermoplastic-Insulated Wires and Cables.
- Q. UL Standard 467 - Grounding and Bonding Equipment.
- R. UL Standard 486A-486B Wire Connectors.
- S. UL Standard 514B - Conduit, Tubing and Cable Fittings.

101-1.3

SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings shall be clear and legible. **Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

- A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) or NAFTA (North American Free Trade) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: [http://www.faa.gov/airports/aip/buy\\_american/](http://www.faa.gov/airports/aip/buy_american/) for more information on the Airport Improvement Program Buy American Preferences requirements.
- B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials and equipment.
- C. Cut sheets with part number and specifications for the tell-tale relay, lightning rods, load center, and obstruction lights.
- D. Provide cut sheets with manufacturer's name, catalog number, dimensions, material and UL listing for each type and size ground rod. Include certification of 100% domestic steel for ground rods.
- E. Provide shop drawings for feeder wire/conductor/cable cut sheets with type, size, specifications, ETL or UL listing, manufacturer, and catalog or part number. Where cable is required to have colored coded insulation, provide information on the color coding for the respective conductors.

EQUIPMENT AND MATERIALS

800951-2.1 GENERAL. Airport lighting equipment and applicable materials covered by these Specifications shall have the prior approval of the Federal Aviation Administration (FAA) and shall be listed in Advisory Circular 150/5345 1 "Approved Airport Equipment", and/or Advisory Circular 150/5345-53 "Airport Lighting Equipment Certification Program" (latest revision). All other equipment and materials covered by other referenced Specifications shall be subject to acceptance through manufacturer's certification on compliance with the applicable specification, when requested by the Engineer.

800951-2.2 TELL-TALE RELAY. A tell-tale relay for interface and control of the associated obstruction lights will be included with the respective airport rotating beacon. The obstruction lights shall illuminate when the beacon is off or when the beacon lamp fails. Tell-tale relay shall be installed in a NEMA 4 enclosure or in the beacon base where there is adequate mounting space.

800951-2.3 LIGHTNING RODS. Air terminals shall be UL-listed, Class II (½" minimum diameter), Nickel-plated Copper with blunt tips. Lightning rods shall extend 10" minimum above the top of the airport rotating beacon and obstruction lights to conform to NFPA 780, 4.6.2 Air Terminal Height. Lightning rods shall be manufactured by Thompson Lightning Protection, Inc. 901 Sibley Highway, St. Paul, Minnesota 55118-1792, Phone: 1-800-777-1230 or 612-455-7661, Harger Lightning Protection/Grounding Equipment, 301 Ziegler Drive, Grayslake, Illinois 60030, Phone: 1-800-842-7473 or 847-548-8700, or approved equal. Provide two air terminals located opposite of each other on the tower, as detailed in the Plans.

800951-2.4 DOWN CONDUCTOR. The beacon tower shall serve as the down conductor where there is a continuous metallic path from the air terminal to the point of attachment to the grounding electrode conductor that bonds the tower to the ground rods.

800951-2.5 GROUND RODS. Ground rods shall be ¾-inch diameter by 10-feet long, UL-listed, Copper-clad with 10-mils minimum Copper coating. Steel used to manufacture ground rods shall be 100 percent domestic steel.

800951-2.6 LOAD CENTER OR PANELBOARD. Load center/panelboard shall be provided with plug-on or bolt-on circuit breakers of size and rating as detailed in the Plans. Breakers shall be 1 or 2 pole with an integral crossbar to assure simultaneous opening of all poles in multiple circuit breakers. Breakers shall have an overcenter, trip-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication. Handles shall have "ON," "OFF," and "TRIPPED" positions. Circuit breakers shall be UL-listed in accordance with UL Standard 489, shall be rated 120/240 volts AC, 1 phase 3-wire, and shall be the size, type, number of poles, trip rating, and Amp Interrupting Capacity as detailed in the Plans for the respective application. Load center/panelboard bus structure and main lugs or main circuit breakers shall have current ratings as shown in the panel schedule in the Plans. Such ratings shall be in accordance with UL Standard 67. Bus bar connections to the branch circuit breakers shall be the "distributed phase" or phase sequence type. All current carrying parts of the bus structures shall be plated. The load center/panelboard bus assembly shall be enclosed in a steel cabinet suitable for the respective location. A circuit directory frame and card with a clear plastic cover shall be provided on door interior. Circuit directory shall be typed indicating each branch circuit of the load center or panelboard. Revise directory to reflect circuiting changes as required. Load centers and/or panelboards and the respective enclosures shall be as detailed in the Plans. AC surge protectors for use with the respective load center and/or panelboard shall be as detailed in the Plans.

800951-2.7 WIRE.

- A. **Wire for Power and Control Circuits** shall be THWN Copper conductors. Cable shall be 1/C sized as indicated in the Plans. Cable shall comply with Underwriters' Laboratories Standard UL-83 and shall be UL-listed as VW-1. Conductor shall be soft annealed uncoated Copper and shall comply with ASTM B3 and B8. Insulation shall be rated for 600V. Insulation shall be polyvinyl-chloride conforming to Underwriters' Laboratories requirements for Type THW. The outer covering shall be nylon conforming to Underwriters' Laboratories for type THHN or THWN-2. Cable shall be UL-listed and marked THWN-2. **Conductor insulation shall be color coded as noted below:**

**120/240 VAC, 1 PH, 3W with GND**

Phase A -	Black
Phase B -	Red
Neutral -	White
Ground -	Green

- B. **XLP-USE Wire.** Cable shall comply with UL Standard 44, UL Standard 854, and Federal Specification A-A-59544. Conductor shall be concentric-strand, soft Copper, conforming to ASTM B8 and Underwriters' Laboratories Standard UL44 for Rubber Insulated Wires. Insulation shall be rated for 600-Volt. Insulation shall be cross-linked polyethylene conforming to Underwriter's Laboratories Requirements for Type USE-2 insulation. Cable shall be UL-listed and marked USE-2. Cable shall be Service Wire Company Type USE-2, or approved equal. Conductor insulation shall be color coded as noted below:

**120/240 VAC, 1 PH, 3W with GND**

Phase A -	Black
Phase B -	Red
Neutral -	White
Ground -	Green

800951-2.8 CONDUIT.

- A. **Galvanized Rigid Steel Conduit (GRSC).** Rigid Steel Conduit and fittings shall be hot-dipped, galvanized, UL-listed, produced in accordance with UL Standard 6 - Rigid Metal Conduit and ANSI C80.1 - Rigid Steel Conduit, Zinc Coated. Couplings, connectors, and fittings for rigid steel conduit shall be threaded galvanized steel or galvanized malleable iron specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 - Fittings Rigid Metal Conduit and EMT and UL 514B - Conduit, Tubing, and Cable Fittings. Set screw type fittings are not acceptable. Steel used to manufacture conduits shall be 100 percent domestic steel. Contractor shall provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.
- B. **Liquid-Tight, Flexible Metal Conduit.** Liquid-tight, flexible metal conduit shall consist of polyvinyl jacket over flexible, hot-dip, galvanized steel tubing. The flexible conduit shall be completely sealed from liquids, dust, dirt, and fumes, and be resistant to oil, gasoline, grease, and abrasion. Jacket shall also be sunlight-resistant. Liquid-tight, flexible metal conduit shall be UL-listed, suitable for use as a grounding conductor, and comply with Article 350 of the NEC. **Liquid-tight, flexible metal conduit and associated fittings shall be UL-listed to meet the requirements of NEC 350.6.** Liquid-tight, flexible metal conduit shall be Anaconda Seallite Type UA as manufactured by Anamet Electrical Inc., 1000 Broadway Avenue East, Mattoon, Illinois 61938-0039, (Phone: 217-234-8844), Lquatite Type LA as manufactured by Electri-Flex Company, 222 W. Central Ave., Roselle, Illinois 60172, (Phone: 630-529-2920 or 1-800-323-6174), or approved equal. Do not install liquid-tight, flexible metal conduit that is not UL listed. Confirm liquid-tight, flexible metal conduit bears the UL label prior to installation.
- C. **Unit Duct.** Unit duct shall conform to the requirements of Item 108.
- D. **Plastic Conduit.** Plastic conduit shall conform to the requirements of Item 110.

- 800951-2.9 OBSTRUCTION LIGHTS. Obstruction lights shall be FAA Type L-810, single unit 120 VAC, steady burning red obstruction light, and shall comply with FAA AC 150/5345-43G and shall be on the current list of FAA-approved equipment noted in FAA AC 150/5345-53D, or latest revision. Obstruction lights shall be manufactured in the United States of America to comply with the Airport Improvement Program Buy American Requirement or be on the Federal Aviation Administration list of Equipment meeting Buy American Requirements or on the list of Nationwide Buy American Waivers Issued by the FAA. Obstruction light fixtures shall include terminals for equipment ground wires.

800951-2.10 SAFETY SWITCH FOR BEACON. Furnish and install a safety switch for the airport rotating beacon as detailed in the Plans and specified herein. Safety switch shall be heavy duty, UL-listed, with amperage, voltage, number of poles, and type (fusible or not fusible), and accessories as detailed in the Plans. Safety switch shall be pad lockable in the off position. Include ground lugs or grounding kits with the safety switch. Safety switch enclosures shall be listed suitable for the respective location and application. Provide grounding bushings with bonding jumpers where conduits enter a safety switch through a concentric knockout. Safety switch shall be as manufactured by Square D, Eaton Cutler-Hammer, or approved equivalent.

#### CONSTRUCTION METHODS

800951-3.1 GENERAL. The Contractor shall furnish and install all equipment and materials necessary for complete and operational installation, as shown in the Plans and specified herein. The complete installation and wiring shall be done in a neat, workmanlike manner. All electrical work shall comply with the requirements of NFPA 70 - National Electrical Code (NEC) most current issue in force. Electrical equipment shall be installed in conformance with the respective manufacturer's directions and recommendations for the respective application. Any installations which void the UL listing, Intertek Testing Services verification/listing (or other third party listing), and/or the manufacturer's warranty of a device will not be permitted.

The Contractor should examine the proposed site to evaluate the existing conditions and the complexity of the work.

Contractor shall keep a copy of the latest NEC in force on site at all times during construction for use as a reference.

Contractor shall coordinate work and any power outages to the airport rotating beacon or other facilities located on the Airport with the Airport Manager and resident engineer. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).

Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.

800951-3.2 TELL-TALE RELAY. A tell-tale relay shall be installed at the airport rotating beacon in accordance with the manufacturer's instructions for the respective application. The tell-tale relay shall be wired to activate the obstruction lights when the beacon is off or when the beacon lamp fails.

800951-3.3 LIGHTNING PROTECTION. The Contractor shall furnish and install two lightning rods, down conductor, and two 3/4-inch diameter by 10-ft long, UL-listed, Copper-clad ground rods for the beacon tower. The lightning rods shall be installed at the top of the tower, shall be located at 180° apart (opposite sides to each other), and secured to the obstruction light conduits as detailed in the Plans. The tip of the lightning rods shall extend not less than 10 inches above the top of the obstruction lights in conformance with NFPA 780 Installation of Lightning Protection Systems. Note the obstruction lights shall be at a height of not less than 4 inches above the top of the beacon. The lightning rods shall be connected to the beacon tower with lightning protection conductors and hardware as detailed in the Plans. The beacon tower shall serve as the down conductor where there is a continuous metallic path from the air terminal to the point of attachment to the grounding electrode conductor that bonds the tower to the ground rods.

Ground rods shall be located at least 2 feet from the tower foundation, and shall not be spaced less than one rod length (10 feet) apart. The ground rods shall be driven into the earth so that the top of the rod is at least 30 inches below finish grade. The tower shall be bonded to the ground rods with a #2 AWG bare solid tinned Copper conductor. Connections to the tower and ground rods shall be with exothermic-weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), or Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440), or Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or approved equal. The resistance to ground of any part of the lightning protection system shall not exceed 25 Ohms. The Contractor shall test the made electrode ground rod with an instrument specifically designed for testing ground field systems. If ground resistance exceeds 25 Ohms, contact the Project Engineer for further direction. Copies of ground rod test results shall be furnished to the Resident Engineer.

800951-3.4 INSTALLATION OF LOAD CENTERS AND/OR PANELBOARDS. The Contractor shall furnish and install a load center or panelboard at the top of the beacon tower, as detailed in the Plans and specified herein. Load centers and/or panelboards shall be thoroughly inspected for physical damage, proper alignment, anchorage, and grounding. The exterior finish shall be inspected for blemishes, nicks, and bare spots, and touched up, as required, using matching touch-up paint. Inspections shall be made for proper installation and tightness of connections for circuit breakers. Install load centers and/or panelboards as shown in the Plans and in accordance with NEMA PB1.1. Provide appropriate corrosion-resistant mounting hardware and strut support. Strut support shall be hot-dipped, galvanized steel strut support, Unistrut P-1000HG, or stainless steel strut support, Unistrut P-1000SS, or approved equal. Provide zinc rich paint applied to field cuts of strut support to minimize the potential for corrosion per the respective strut support manufacturer's recommendation. Install load centers and/or panelboards plumb. Install circuit breakers in panelboards and/or load centers in conformance with the respective manufacturer's directions. Connect only one wire/cable to each breaker terminal. Provide filler plates for unused spaces in load centers and/or panelboards. Provide typed or neatly printed circuit directory to identify each branch circuit in the load center and/or panelboard. Revise directory to reflect circuiting changes as required. Provide legend plates for all load centers and/or panelboards to identify the area and/or equipment controlled by the load center and/or panelboard, the power source, and the voltage system. Legend plates shall be weatherproof and abrasion-resistant, phenolic material. Lettering shall be black on white background. Load centers and/or panelboards shall be thoroughly tested after installation and connection to respective loads.

800951-3.5 WIRING. The Contractor shall furnish and install all wiring, as detailed in the Plans, per the respective equipment manufacturer's recommendations and as specified herein. Installation of cable and wiring shall also conform to Item 108 Installation of Underground Cable for Airports of the Illinois Standard Specifications for Construction of Airports, State of Illinois Department of Transportation Division of Aeronautics.

800951-3.6 CONDUIT INSTALLATION. Installation of conduit shall conform to Item 110, Installation of Airport Underground Electrical Duct of the Standard Specifications, and as detailed in the Plans and as specified herein.

Where possible, no conduit shall be installed on top of the beacon platform floor.

Conduit size and fill requirements shall comply with Appendix C, conduit fill tables, of the NEC. It should be noted these are minimum requirements, and larger conduit sizes or smaller fill requirements shall be used whenever specified or detailed on the Drawings.

Liquid-tight, flexible metal conduit shall be provided as a connection between each motor junction box (or any other piece of equipment subject to movement or vibration) and the rigid conduit system.

Ream conduits only after threads are cut. Cut joints square to butt solidly into couplings. Where necessary to join two pieces of conduit, and it is impossible to use standard couplings, use 3-piece, malleable iron, conduit coupling. The use of running thread is prohibited. This applies to all rigid conduit installations, underground or otherwise.

Where conduit enters a box or fitting, provide a steel locknut and an insulated metallic bushing. Use this method to terminate conduit in panels, pull boxes, safety switches, etc.

Provide NEMA four hubs for all conduit entries into enclosures rated NEMA 4, 4X to maintain NEMA 4, 4X rating.

800951-3.7 INSTALLATION OF JUNCTION AND PULL BOXES. Use only screws, bolts, washers, etc. fabricated from rust-resisting metals for the supporting of boxes. Install pull boxes in runs of conduit such that a total of 360 degrees in bends is not exceeded. Junction boxes shall be installed at all points in conduit runs where taps or splices are located. Boxes required by code or need which are not detailed in the Plans shall be considered incidental to the respective work item, and will not be paid for separately.

800951-3.8 INSTALLATION OF OBSTRUCTION LIGHTS. Obstruction lights shall be installed on the beacon tower in accordance with FAA Advisory Circular 150/5370-10F, Part XI-LIGHTING INSTALLATION, Item L-101 Airport Rotating Beacon. Two obstruction lights shall be installed on top of the airport rotating beacon tower located 180° apart (opposite sides to each other). These lights shall be mounted on 1" GRSC extensions to a height not less than 4 inches above the top of the beacon. They shall be connected into the tell-tale relay which will activate the obstruction lights when the beacon is off or when the beacon lamp fails.

800951-3.9 INSTALLATION OF SAFETY SWITCHES. Safety switches shall be provided with appropriate mounting hardware and strut support. Strut support shall be hot-dipped, galvanized steel strut support, Unistrut P-1000 HG, or approved equal. Provide zinc rich paint applied to field cuts of strut support to minimize the potential for corrosion per the respective strut support manufacturer's recommendation. All hardware shall be corrosion-resistant. Mount safety switches securely in accordance with the manufacturer's recommendations/instructions and as required for the respective application. Inspect all safety switches for proper operation, tight and secure connections, and correctness. All safety switch enclosures shall be bonded to ground with a ground lug or bar and ground wire. Field cut holes in safety switch enclosures to accommodate conduit entrances. Where safety switch enclosures are provided with concentric knockouts, and the respective conduit does not use the largest knockout, install a grounding bushing with ground wire connections between the bushing and the ground bus. Where safety switches enclosures are used for service entrance applications provide a grounding bushing with ground wire connections between the bushing and the ground bus at each metal conduit entry. Do not use safety switch enclosures for a splice box or for a pull box. Do not route control wires or other circuit wiring through a safety switch enclosure. Where splices are required or other control circuit wires are installed in the respective conduit to a safety switch, provide a separate junction box to accommodate the splices and/or other circuit conductors. Provide weatherproof, abrasion-resistant, engraved legend plates for each safety switch noting the device served, the power source, and the voltage system.

800951-3.10 LOCATE EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground utilities indicated in the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required.

In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer/Resident Project Representative shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. **Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.** Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

800951-3.11 MARKING AND LABELING. Legend plates shall be provided for all equipment. Legend plates shall be provided to identify the equipment controlled, the power source, and the function of each device. Legend plates shall be weatherproof, abrasion-resistant, phenolic/plastic-engraved material, and fastened with contact-type, permanent adhesive, screws, or rivets. Installation shall not break, crack, or deform the legend plate. Lettering shall be ¼" high, black on a white background, unless noted otherwise. Each panelboard/load center shall be furnished with a phenolic-engraved legend plate that identifies the panel designation, the power source, and the respective voltage, phase, and wire. Color code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored insulation or colored marking tape for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL). **Standard colors for 120/240 VAC, 1 Phase, 3-Wire power wiring and branch circuits shall be as Phase A-Black, Phase B-Red, Neutral-White, and Ground-Green.**

800951-3.12 GROUNDING REQUIREMENTS. Grounding shall conform to the following, as applicable: The Contractor shall furnish and install all grounding shown in the Plans and/or as may be necessary or required to make a complete grounding system, as required by the latest NEC (NFPA 70) in force. The reliability of the grounding system is dependent on careful, proper installation and choice of materials. Improper preparation of surfaces to be joined to make an electrical path, loose joints, or corrosion can introduce impedance that will seriously impair the ability of the ground path to protect personnel and equipment and to absorb transients that can cause noise in circuits. The following functions are particularly important to ensure a reliable ground system:

- A. All products associated with the grounding system shall be UL-listed and labeled.
- B. All bolted or mechanical connections shall be coated with a corrosion preventative/conductive grease and lubricant suitable for electrical connections and grounding connections, before joining, Sanchem Inc. "NO-OX-ID "A-Special" compound, Burndy Penetrox E, or approved equal.
- C. Metallic surfaces to be joined shall be prepared by the removal of all non-conductive material, per 2014 NEC Article 250-12. All Copper bus bars must be cleaned prior to making connections to remove surface oxidation.
- D. Metallic raceway fittings shall be made up tight to provide a permanent low impedance path for all circuits. Metal conduit terminations in enclosures shall be bonded to the enclosure with UL-listed fittings suitable for grounding. Provide grounding bushings with bonding jumpers for all metal conduits entering an enclosure through concentric or eccentric knockouts that are punched or otherwise formed so as to impair the electrical connection to ground. Standard locknuts or bushings shall not be the sole means for bonding where a conduit enters an enclosure through a concentric or eccentric knockout.



- E. Furnish and install ground rods at all locations where shown in the Plans or specified herein. Ground rods for electrical installations shall be 3/4-inch diameter by 10-feet long, UL-listed, Copper-clad with 10-mils minimum Copper coating. Top of ground rods shall be a minimum of 30 inches below finish grade, unless otherwise noted in the Plans. Ground rods shall be spaced, as detailed in the Plans, and in no case spaced less than one rod length apart. All connections to ground rods and/or ground rings shall be made with exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440), Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds as required for each respective application. Bolted connections will not be permitted at ground rods or at buried grounding electrode conductors. Grounding electrode conductors shall be bare Copper (stranded or solid) sized, as detailed in the Plans. In addition to the grounding work described herein and shown in the Plans, the Contractor shall test the made electrode ground system with an instrument specifically designed for testing ground systems. If ground resistance exceeds 25 Ohms, contact the Project Engineer for further direction. Copies of ground system test results shall be furnished to the Resident Engineer/Resident Project Representative.
- F. All connections located above grade between the different types of grounding conductors shall be made using UL-listed, double-compression, crimp-type connectors or UL-listed, bolted ground connectors. For ground connections to enclosures, cases, and frames of electrical equipment not supplied with ground lugs, the Contractor shall drill required holes for mounting a bolted ground connector. All bolted ground connectors shall be Burndy, Thomas and Betts, or equal. Tighten connections to comply with tightening torques in UL Standard 486A to assure permanent and effective grounding.
- G. All metal equipment enclosures, conduits, cabinets, boxes, receptacles, etc. shall be bonded to the respective grounding system.
- H. Each feeder circuit and/or branch circuit shall include an equipment ground wire. Metal raceway or conduit shall not meet this requirement. The equipment ground wire from equipment shall not be smaller than allowed by 2014 NEC Table 250-122 "Minimum Size Conductors or Grounding Raceway and Equipment." When conductors are adjusted in size to compensate for voltage drop, equipment-grounding conductors shall be adjusted proportionately, according to circular mil area. All equipment ground wires shall be Copper, bare or insulated, green in color. Where the equipment grounding conductors are insulated, they shall be identified by the color green, and shall be the same insulation type as the phase conductors.
- I. Bond the main electrical service neutral to ground at the main service disconnect. Bond the service neutral to ground at one location only per the NEC. A grounding connection shall not be made to any neutral circuit conductor on the load side of the service disconnecting means, except as permitted by 2014 NEC 250-24. Where the Contractor is unable to distinguish the difference between a neutral conductor and equipment grounding conductor, or other ground conductor, contact the Project Engineer for assistance.
- J. All exterior metal conduits, where not electrically continuous because of manholes, handholes, non-metallic junction boxes, etc., shall be bonded to all other metal conduit in the respective duct run, and at each end, with a Copper-bonding jumper sized in conformance with 2014 NEC 250-102. Where metal conduits terminate in an enclosure (such as a the beacon tower pole) where there is not electrical continuity with the conduit and the respective enclosure, provide a bonding jumper from the respective enclosure ground bus/frame to the conduit sized per 2014 NEC 250-102.

- K. Install grounding electrode conductors and/or individual ground conductors in Schedule 40 or Schedule 80 PVC conduit. Where grounding electrode conductors or individual ground conductors are run in PVC conduit, do not completely encircle conduit with ferrous and/or magnetic materials. Use non-metallic, reinforced fiberglass strut support. Where metal conduit clamps are installed, use nylon bolts, nuts, washers, and spacers to interrupt a complete metallic path from encircling the conduit.

METHOD OF MEASUREMENT

- 800951-4.1 The quantity to be paid for Modify Beacon Installation shall be measured for payment as per lump sum, and shall consist of furnishing and installing the load center, obstruction lights, lightning protection system, equipment and materials and for all preparation, assembly, and installation of the equipment and materials, and all labor, wiring, conduit, electrical work, controls, grounding, tools, operational instructions, coordination, adjusting, testing and incidentals necessary to complete this Item and to place the respective installation into proper working order. The work, equipment, and materials in the Airport Electrical Vault will be considered incidental to this item, and no additional compensation will be allowed.

BASIS OF PAYMENT

- 800951-5.1 Payment will be made at the Contract unit price per lump sum for Modify Beacon Installation, and shall consist of furnishing and installing the load center, obstruction lights, lightning protection system, equipment and materials and for all preparation, assembly, and installation of the equipment and materials, and all labor, wiring, conduit, electrical work, controls, grounding, tools, operational instructions, coordination, adjusting, testing and incidentals necessary to complete this Item and to place the respective installation into proper working order.

Payment will be made under:

Item AR800951          Modify Beacon Installation - per lump sum.

DIVISION VI

LIGHTING INSTALLATION

ITEM 108

INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS

Revise Item 108 of the Standard Specifications as follows:

DESCRIPTION

108-1.1 Replace this Section with the following:

"108-1.1 This item of work shall consist of the installation of cable by directional-boring method. This item shall include cable in unit duct where noted in the Plans and specified herein."

Add:

108-1.2 REFERENCES.

- A. ASTM Specification B3 - Standard Specification for Soft or Annealed Copper Wire.
- B. ASTM Specification B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft.
- C. FAA Advisory Circular 150/5345 7E, (or latest edition) "SPECIFICATIONS FOR L 824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS.
- D. FAA AC No. 150/5345-53 "AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM" (most current issue) and AC150/5345-53D, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.
- E. FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- F. Federal Specification A-A-59544 Cable and Wire, Electrical (Power, Fixed Installation).
- G. NFPA 70 - National Electrical Code (most current issue in force).
- H. NFPA 70E - Standard for Electrical Safety in the Workplace.
- I. OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures.
- J. UL Standard 44 - Thermoset-Insulated Wires and Cables.
- K. UL Standard 83 - Thermoplastic-Insulated Wires and Cables.
- L. UL Standard 854 - Service Entrance Cables.

Add:

108-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each wire, conductor, and/or cable type to be used on the project. **Shop drawings shall be clear and legible. Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

- A. **Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) or NAFTA (North American Free Trade) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: [http://www.faa.gov/airports/aip/buy\\_american/](http://www.faa.gov/airports/aip/buy_american/) for more information on the Airport Improvement Program Buy American Preferences requirements.**
- B. In order to expedite the shop drawing review, inspection and/or testing of materials, the Contractor shall furnish complete statements to the Project Engineer as to the origin, composition, and manufacturer of all material to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials.
- C. Indicate the pay item number for each respective cable, cable in unit duct, cable in duct, and/or cable in conduit.
- D. Shop drawings shall include wire/conductor/cable cut sheets with type, size, specifications, Intertek Testing Services (formerly ETL Testing Laboratories, Inc.) verification/listing or UL listing, manufacturer, and catalog or part number.
- E. Shop drawings for cable in unit duct items shall include cut sheets with type, size, specifications, Intertek Testing Services (formerly ETL Testing Laboratories, Inc.) verification/listing or UL listing, manufacturer, and catalog or part number.
- F. Where cable is required to have colored coded insulation, provide information on the color coding for the respective conductors.

#### EQUIPMENT AND MATERIALS

108-2.1 GENERAL. Add the following.

"All cable shall be FAA approved or UL-listed as suitable for installed application. Cable furnished on this project shall comply with the requirements of the "AIP Buy American Preferences". All conductors shall be copper."

108-2.2 CABLE. Revise this Section to read as follows:

**"L-824 Cable** - L-824 cable shall be FAA L-824, Type C and shall conform to the requirements of FAA Advisory Circular 150/5345 7E, (or latest edition) "SPECIFICATIONS FOR L 824 UNDERGROUND ELECTRICAL CABLE FOR AIRPORT LIGHTING CIRCUITS". L-824 cable shall be FAA approved and listed in the current AC150/5345-53D, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.

"Circuits for use with constant current regulator outputs (runway or taxiway lighting circuits) shall use 5000-Volt rated cable. Circuits for use with low voltage applications (600 Volts or below) shall use either 5000-Volt rated cable or 600-Volt rated cable and shall have colored insulation corresponding to the respective voltage system. Cable shall be manufactured in the United States of America to comply with the AIP Buy American Requirement, or be on the Federal Aviation Administration list of Nationwide Buy American Waivers.

"Cable for use with airfield lighting series circuits (including runway lighting, taxiway lighting and taxi guidance signs) shall be one conductor No. 8, 5,000-Volt, FAA L-824, Type C, stranded.

"**XLP-USE Wire.** Cable shall comply with UL Standard 44, UL Standard 854, and Federal Specification A-A-59544. Conductor shall be concentric-strand, soft Copper, conforming to ASTM B8 and Underwriters' Laboratories Standard UL44 for Rubber Insulated Wires. Insulation shall be rated for 600-Volt. Insulation shall be cross-linked polyethylene conforming to Underwriters Laboratories Requirements for Type USE-2 insulation. Cable shall be UL-listed and marked USE-2. Cable shall be manufactured in the United States of America to comply with the AIP Buy American Requirement.

"**Item AR108051, Power Cable in Unit Duct** - shall consist of 4-1/C #6 AWG, XLP-USE, 600 Volt cables in unit duct (1.25-inch or sized larger as required per NEC) or 4-1/C #6 AWG, FAA L-824, Type C, 5,000 Volt or 600 Volt cables in unit duct (1.25-inch or sized larger as required per NEC). Conductor insulation for 120/208 VAC, 1 phase, 3-wire with ground circuits shall be color-coded: Phase A -Black, Phase B - Red, Neutral - White, and Ground - Green.

"**Item AR108086, 1/C #6 XLP-USE** - shall consist of 1/C #6 AWG, XLP-USE, 600-Volt cable or 1/C #6 AWG, FAA L-824, Type C, 5,000 Volt or 600 Volt cable installed in conduit, ducts, handholes, and manholes from the Vault to the respective termination point. Conductor insulation for 120/240 VAC, single-phase, 3-wire with ground circuits shall be color-coded: Phase A - Black, Phase B - Red, Neutral -White, and Ground - Green.

"**Color-coding:** Color-code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored marking tape or colored insulation for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6. Standard colors for power wiring and branch circuits for 480/277 VAC, 3-Phase, 4-Wire system shall be Phase A - Brown, Phase B - Orange, Phase C - Yellow, Neutral - Gray, and Ground - Green. Standard colors for power wiring and branch circuits for 240/120 VAC, 3-Phase, 4-Wire system shall be Phase A - Black, Phase B (High Leg) - Orange, Phase C - Blue, Neutral - White, and Ground - Green. Standard colors for power wiring and branch circuits for 208/120 VAC, 3-Phase, 4-Wire system shall be Phase A - Black, Phase B - Red, Phase C - Blue, Neutral - White, and Ground - Green. Standard colors for power wiring and branch circuits for 120/240 VAC, 1-Phase, 3-Wire system shall be Phase A - Black, Phase B - Red, Neutral - White, and Ground - Green."

108-2.4 CABLE CONNECTIONS. Add the following to this Section:

**"The Contractor shall use a cable stripper/penciller whenever cable connections are made.**

"All breaks in the unit duct shall be sealed by shrink kits.

"All below grade splices shall be installed in splice cans, handholes, or manholes. Splice cans shall be L-867, Class IA, Size B (12 in. diameter), 24 in. deep, with 3/8 in. thick, galvanized steel cover and stainless steel bolts. Larger size splice cans shall be provided, as applicable, for specific equipment applications or manufacturer's recommendations, and/or where detailed in the Plans. Splice cans located in areas subject to heavy aircraft or vehicle loading shall be L-868 type. The Engineer shall approve all splice locations before work commences.

"The furnishing and installing of splice cans for new homerun cables shall be incidental to the respective cable pay item, and no additional compensation will be allowed."

108-2.5 RESERVED. Revise this Section to read:

"108-2.5 SPLICER QUALIFICATIONS. Every worker to perform cable splices for this project shall be qualified in making cable splices and terminations on cables rated at and/or above 5,000 Volts AC. The Contractor shall submit to the Project Engineer proof of the qualifications of each person in performing splices for the cable type and voltage rating to be worked on. Cable splicing/terminating personnel shall have a minimum of three (3) years experience in terminating/splicing medium voltage cable."

108-2.12 LINE MARKING TAPE. Add the following:

"Line marking tape shall be furnished for all buried cables not installed in concrete encased duct. Color shall be "RED"."

108-2.13 UNIT DUCT. Add the following:

"Standard sizes of smooth wall polyethylene duct shall conform to the dimensional requirements specified below:

Nominal Duct Size	Nominal Inside Diameter	Nominal Standard Wall	Nominal Outside Diameter *
¾"	0.910"	0.070"	1.050"
1"	1.145"	0.085"	1.315"
1-¼"	1.440"	0.110"	1.660"
1-½"	1.650"	0.125"	1.900"
2"	2.065"	0.155"	2.375"
2-½"	2.449"	0.213"	2.875"
3"	3.048"	0.226"	3.500"
4"	4.000"	0.250"	4.500"

\* Dimensions include allowance for duct eccentricity."

CONSTRUCTION REQUIREMENTS

108-3.1 GENERAL. Add the following to this Section:

"The cable quantities as shown on the Construction plans are based on straight-line measurement. All vertical lengths (except for those locations specified herein) and other cable lengths that are specified or are required by the installation, such as slack or waste, will not be measured for payment.

"If the Contractor wishes to lay cable on a line other than that shown in the Plans, he shall obtain approval of the Resident Engineer before doing so. Any additional cable needed because of such change will be at the Contractor's expense.

"Only cable in unit duct may be plowed or directional-bored.

"The Contractor shall identify all existing underground utilities located within the area where the proposed cables are being installed, and will take all precautions to protect these utilities from damage. Care shall be taken so as not to damage any existing circuits. Any existing circuits damaged shall be immediately repaired to the satisfaction of the Engineer and/or the respective utility or owner where applicable. Any underground utility damaged will be repaired or replaced at the Contractor's own expense. Any repairs of existing cables will be considered incidental to the contract, and no additional compensation will be allowed.

"Contractor shall coordinate work and any power outages with the Airport Manager and the Resident Engineer. Any shutdown of existing systems shall be scheduled with and approved by the Airport Manager prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).

"Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".

"Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.

"All temporary installations shall comply with National Electrical Code Article 590 - "Temporary Installations". The contractor shall secure, identify, and place temporary exposed wiring in conduit, duct, or unit duct to prevent electrocution and fire ignition sources in conformance with the requirements of FAA AC 150/5370-2F, Part 218, Paragraph C.

"All cables installed by the Contractor shall be properly labeled and tagged at all points of access (handholes, manholes, terminal panels, control panels, and the respective wireways in the vault).

"All changes to cables in the lighting system shall be documented by the Contractor and provided to the Resident Engineer."

108-3.2 INSTALLATION IN DUCT OR CONDUIT. Add the following to this Section:

"The unit duct will be run continuous through all ducts and conduits unless noted otherwise in the Plans for a specific application.

"Where cable in unit duct enters a handhole or manhole with a continuous duct bank system to the termination point (such as from a handhole to the vault or between handholes and/or manholes), the unit duct will not be required for the respective cable."

108-3.3 TRENCHING. Add the following to this Section:

"F. Cable installed in cultivated fields shall be installed a minimum of 42 inches below grade.

"G. Any and all trenches and disturbed areas will be backfilled to a smooth grade to the satisfaction of the Resident Engineer. All trench settlement shall be corrected for a period of one year. In turf areas, the top 4-inches of backfill shall be topsoil. Restoration, grading, and seeding of areas disturbed during the installation of the proposed cable will be incidental to the respective 108 Pay Item."

108-3.4      CABLE MARKERS. Add the following as the first sentence:

"Cable, cable in duct, and cable in unit duct installed under this item shall be marked with concrete cable markers as specified in these Specifications."

108-3.5      SPLICING. Add the following:

"In-line connections for existing cables cut during construction shall be repaired with the cast splice kit. The Contractor shall have a minimum of two splice kits on the job site at all times for emergency repairs. Cast splice kits shall be specified in Paragraph (a) of Item 108-2.4. **Splice cans shall be provided for existing cables cut and repaired for each splice in cables not to be abandoned. Where a splice can is not readily available at the time of the cable damage, splice markers shall be temporarily installed over each splice in cables not to be abandoned, then these splices shall later be replaced with new splices in an L-867 splice can.**

"There shall be no splices between series lighting circuit isolation transformers. In the event that a series lighting circuit cable is cut between isolation transformers, the entire length of cable between these isolation transformers shall be replaced, at the Contractor's own expense.

"The Contractor shall use a cable stripper/penciller whenever cable connections are made.

"All splices and connections will be considered incidental to the respective cable."

Add:

108-3.12      LOCATING OF EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground utilities indicated in the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain, from the respective utility companies, detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required.

In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer/Resident Project Representative shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. **Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.** Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

Payment for locating and marking underground utilities and cables will not be paid for separately, but shall be considered incidental to the plowing/trenching/boring of cable, cable in unit duct, and cable in duct.



Add:

108-3.13 SEPARATION OF HIGH-VOLTAGE AND LOW-VOLTAGE WIRING. Low-voltage wiring shall maintain separation from high-voltage wiring. Low-voltage wiring and high-voltage wiring shall not be installed in the same raceway, duct, handhole, manhole, or junction box. Where necessary provide split flexible duct around low voltage cables located in a handhole with high voltage cables, to isolate the cables from possible contact with each other.

Add:

108-3.14 IDENTIFICATION OF CABLES. At electrical handholes and manholes, identify and label each cable originating in the vault with respect to the system or device served. Provide identification tags rated suitable for the respective locations with permanent markings.

#### METHOD OF MEASUREMENT

108-4.1 Revise this Section to read as follows:

"Cable for the AWOS feeder circuit; Item AR108051, Power Cable in Unit Duct, will be measured for payment from the respective power source termination or splice point in the field up to the disconnecting means for the AWOS site.

108-4.2 Revise this Section to read:

"The footage of cable installed in duct, conduit, or raceway to be paid for shall be the number of linear feet of cable installed in duct, conduit, or raceway measured in place by direct measurement, completed, ready for operation and accepted as satisfactory with no allowance being made for overrun due to slack, turns, splices, etc. Slack cable required to perform cable splices outside of the respective splice cans, handholes, or manholes, shall be incidental to the respective cable pay item and no additional measurement for payment will be made. Cable for the Beacon feeder circuit will be measured for payment from the respective termination or splice point in the field up to the Terminal Building (which includes the Airport Electrical Vault). Cable for the Beacon Feeder Circuit installed inside or below the Terminal Building and/or Airport Electrical Vault shall be incidental to Item AR800951, Modify Beacon installation and no additional measurement for payment will be made. For Item AR108086, 1/C #6 XLP-USE, 60 lineal feet times the number of cables will be allotted for the length of cable installed from the base of the beacon tower to the load center at the top of the beacon tower."

#### BASIS OF PAYMENT

108-5.1 Add the following:

"Payment will be made at the Contract unit price per linear foot of cable completed and accepted by the Engineer. This price shall be full compensation for furnishing all materials, and for all preparation, assembly, and installation of these materials; for all plowing, trenching, directional-boring, coring of manholes or handholes, installation in ducts, raceways, conduits, splice cans, handholes, or manholes, and for all excavation and backfilling; for all site restoration (topsoiling, grading, seeding, mulching, sodding) and pavement restoration; and for all labor, testing, equipment, tools, and incidentals necessary to complete this Item."

SPECIAL PROVISIONS  
SCHAUMBURG REGIONAL AIRPORT (06C)  
INSTALL AWOS A-V; REPLACE AIRPORT ROTATING BEACON

SBG PROJECT NO. 3-17-SBGP-XX  
IDA PROJECT NO. 06C-4339

---

Add:

Payment will be made under:

Item AR108051	Power Cable in Unit Duct - per linear foot.
Item AR108086	1/C #6 XLP-USE - per linear foot.

ITEM 110

INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT

Revise Item 110 of the Standard Specifications as follows:

DESCRIPTION

110-1.1 Add the following:

"This item of work shall consist of the installation of all proposed conduits and ducts as shown on the Construction Plans. This item of work shall include interior and exterior conduit installations.

"This item shall also include the installation of split duct with concrete encasement of an existing power circuit located under the proposed new driveway, at the location shown in the Plans, or as directed by the Resident Engineer. Concrete encasement shall not be measured separately for payment, but shall be incidental to Item AR110550."

110-1.2 REFERENCES.

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated.
- B. ANSI C80.4 - Fittings Rigid Metal Conduit and EMT.
- C. ASTM D3350 - Specification of Polyethylene Plastics Pipe and Fittings Materials.
- D. ASTM F2160 - Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter.
- E. NEMA TC-2 - Electrical Plastic Tubing and Conduit.
- F. NEMA TC-3 - Fittings Rigid PVC Conduit and Tubing.
- G. NEMA Specification TC-7 - Smooth-Wall Coilable Polyethylene Electrical Plastic Conduit.
- H. NFPA 70 - National Electrical Code (NEC), most current issue in force.
- I. UL Standard 6 - Rigid Metal Conduit.
- J. UL Standard 514B - Conduit, Tubing and Cable Fittings.
- K. UL Standard 651 - Schedule 40 and 80 Rigid PVC Conduit.
- L. UL Standard 651B - Standard for Continuous Length High-Density Polyethylene (HDPE) Conduit.

Add:

110-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each type of conduit or duct to be used on the project. **Shop drawings shall be clear and legible. Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

- A. Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) or NAFTA (North American Free Trade) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: [http://www.faa.gov/airports/aip/buy\\_american/](http://www.faa.gov/airports/aip/buy_american/) for more information on the Airport Improvement Program Buy American Preferences requirements.
- B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the Contract but, in all cases, prior to delivery of such materials and equipment.
- C. Indicate the pay item number for each respective conduit or duct.
- D. Shop drawings shall include conduit and/or duct cut sheets with type, size, specifications, UL listing, manufacturer, and catalog or part number.
- E. Provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.
- F. For the split duct crossing under the new driveway, provide a concrete mix design meeting the requirements of Item 610.

#### EQUIPMENT AND MATERIALS

110-2.1 GENERAL. Add the following:

"All materials for these items shall be in accordance with the FAA Standard Specification 110 Equipment and Materials, as detailed in the Plans, and as specified herein."

110-2.2 STEEL CONDUIT. Replace this Section with the following:

"110-2.2 STEEL CONDUIT.

- "A. **Rigid Steel Conduit and fittings** shall be hot-dipped, galvanized, UL-listed, and produced in accordance with UL Standard 6 - Rigid Metal Conduit and ANSI C80.1 - Rigid Steel Conduit, Zinc Coated. Couplings, connectors, and fittings for rigid steel conduit shall be threaded, galvanized steel or galvanized, malleable iron, specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 - Fittings Rigid Metal Conduit and EMT and UL 514B - Conduit, Tubing, and Cable Fittings. Set screw type fittings are not acceptable.

"Steel used to manufacture conduits shall be 100 percent domestic steel. Contractor shall provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.

- "B. **Miscellaneous Fittings.** Fittings shall be suitable for use with conduits and ducts supplied. All fittings for use with rigid metal conduit shall be threaded. Set screw-type fittings are not acceptable. All conduit bodies, fittings, and boxes installed in classified hazardous locations (Class I, Division 1 or 2, Group D) shall be suitable for use in Class I, Division 1, and Group D locations. Fittings shall be as manufactured by Appleton, Crouse-Hinds, Hubbell-Killark, O-Z/Gedney, or approved equal.
- "C. **Electrical Metallic Tubing (EMT)** shall be galvanized steel tubing conforming to ANSI C80.3 and U.L. 797. Electrical Metallic Tubing shall be as manufactured by Allied Tube and Conduit Corporation, or equal. All EMT and mounting hardware shall be constructed of corrosion resistant materials and be listed for use in wet locations. EMT fittings, couplings and connectors shall be steel compression type. Set screw fittings will not be allowed. Steel used to manufacture conduits shall be 100 percent domestic steel. Contractor shall provide certification that the respective steel conduits used on this project are manufactured from 100 percent domestic steel.
- "D. **Liquid-Tight Flexible Metal Conduit.** Liquid-tight, flexible metal conduit shall consist of polyvinyl jacket over flexible hot dip galvanized steel tubing. The flexible conduit shall be completely sealed from liquids, dust, dirt, and fumes and be resistant to oil, gasoline, grease, and abrasion. Jacket shall also be sunlight-resistant. Liquid-tight flexible metal conduit shall be UL-listed, suitable for use as a grounding conductor, and comply with Article 350 of the NEC. Liquid-tight flexible metal conduit and associated fittings shall be UL-listed to meet the requirements of NEC 350.6. Liquid-tight flexible metal conduit shall be Anaconda Sealtite Type UA as manufactured by Anamet Electrical Inc., 1000 Broadway Avenue East, Mattoon, Illinois 61938-0039, (Phone: 217-234-8844), Liguatite Type LA as manufactured by Electri-Flex Company, 222 W. Central Ave., Roselle, Illinois 60172, (Phone: 630-529-2920 or 1-800-323-6174), or approved equal. Do not install liquid-tight, flexible metal conduit that is not UL listed. Confirm liquid-tight, flexible metal conduit bears the UL label prior to installation."

110-2.3 PLASTIC CONDUIT. Add the following to this Section:

"Conduits shall be suitable for underground applications encased in concrete or direct burial, and suitable for exposed applications aboveground. For split duct, see Paragraph 110-2.4.

- "A. Conduits for concrete encasement shall be Schedule 40 (minimum) PVC, UL-listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651, listed suitable for concrete encasement or Schedule 40 (minimum) HDPE conduit, UL-listed, conforming to NEMA Standard TC-7 and UL 651B and listed suitable for concrete encasement.
- "B. Conduits for directional boring shall be Schedule 40 PVC or Schedule 80 PVC conduit, UL-listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651 and suitable for directional boring installation, Schedule 40 HDPE or Schedule 80 HDPE conduit, UL-listed, conforming to NEMA Standard TC-7 and UL 651B and suitable for directional boring installation, or Wall Type SDR 9, SDR 11, or SDR 13.5 HDPE conduit manufactured in accordance with ASTM D-3350 (Specification of Polyethylene Plastics Pipe and Fittings Materials) and ASTM F2160 (Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter), and suitable for directional boring installation. Per NEC 300.5 (K), raceways installed using directional boring equipment shall be approved for the purpose. Provide manufacturer's literature confirming the respective duct is suitable for directional boring with the respective Shop Drawing submittal.

"C. Conduits for direct burial in earth shall be PVC Schedule 40 (minimum wall thickness), UL-listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651, listed suitable for direct burial in earth, or HDPE Schedule 40 (minimum wall thickness), conforming to NEMA Standard TC-7 and UL 651B, or HDPE SDR 13.5 (minimum wall thickness) manufactured in accordance with ASTM D-3350 (Specification of Polyethylene Plastics Pipe and Fittings Materials) and ASTM F2160 (Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter). Conduits shall be suitable for direct burial in earth and/or concrete encasement."

110-2.4 SPLIT DUCT. Replace this Section as follows:

"110-2.4 NON-METALLIC SPLIT DUCT. Non-metallic split duct shall be used to protect existing cables located under the proposed new driveway, as detailed in the Plans. Non-metallic split duct shall be Schedule 40 PVC designed for use with power and control cable applications. Non-metallic split duct shall be suitable for direct burial in earth and concrete encasement and exhibit superior impact strength. Joints shall be sealed with corrosion-resistant tape and heavy-duty plastic straps as recommended by the split duct manufacturer for the application. Split duct sleeve couplings, duct sweeps, fittings, and accessories shall be by the same manufacturer to assure system integrity. Non-metallic split duct shall be manufactured by Carlon Electrical Products, or approved equal. 4-inch Schedule 40 split ducts shall be Carlon Part Number 49015SD or approved equal. Install split duct as detailed in the Plans and in conformance with manufacturer's recommendations for the respective application. Where split duct is to be concrete-encased, confirm it is suitable for the respective application with the manufacturer."

Add:

110-2.9 DUCT SPACERS. Provide duct spacers to provide proper separation of conduits installed in concrete encased duct. Duct spacers shall be designed to provide 3" separation of conduits. Duct spacers shall be Underground Devices Incorporated Wunpeece Series suitable for the respective size and quantity of ducts, approved equal. Contact information for Underground Devices Incorporated is address: 3304 Commercial Avenue, Northbrook, Illinois 60062, Phone: (847) 205-9000, Fax: (847) 205-9004. Confirm catalog numbers with the manufacturer for the respective application.

Add:

110-2.10 FIRE STOPPING MATERIAL. Fire stopping materials shall consist of commercially manufactured products capable of passing ASTM E-814 (UL 1479) Standard Method of Fire Test for Through Penetration Fire Stops. Fire stopping materials shall maintain the rating of the wall, partition or floor opening that penetration is made. Comply with NEC 300.21. Fire stopping materials shall be U.L. classified. Acceptable Products include 3M - Fire Barrier, Thomas & Betts - Flame Safe, Nelson Electric - Flameseal, or approved equal.

#### CONSTRUCTION METHODS

110-3.1 GENERAL. Add to this Section:

"The proposed conduits and ducts shall be constructed at the locations and in accordance with the details shown on the Construction Plans. Ducts shall be installed 18 inch minimum below grade. Ducts located in area subject to farming shall be 42 inch minimum below grade. Where detailed in the Plans or where required to avoid obstructions, ducts shall be buried deeper. Where concrete-encased duct interfaces to directional-bored duct at a pavement crossing, the concrete encasement shall be installed up to the respective pavement edge. Where concrete-encased duct interfaces to an electrical handhole or manhole, the concrete encasement shall be installed up to the respective handhole or manhole. Provide bushings or bells at conduit terminations in electrical handholes or manholes.

"Underground ducts installed by directional-boring method shall be installed in a manner that will not damage any existing underground utilities, and shall not disturb or damage the respective pavement or roadway surface. Ducts shall be directional-bored at the locations shown on the Construction Plans. The ducts will be bored at a minimum depth of 24 inch below the bottom of the pavement it is being bored under. Ducts installed under paved areas and roadways shall extend a minimum of 3 feet beyond the respective pavement or roadway surface unless detailed otherwise in the Plans. A pull wire will be left in the conduit if it is to be left vacant. The ends of the conduit will be sealed with approved plugs.

"Ducts indicated to be installed by direct burial method may be installed by plowing or directional boring where the respective duct is rated suitable for the respective installation method.

"The Contractor will determine if there is a conflict between the installation of the proposed electrical ducts and any existing utilities. He will make all necessary adjustments in depth of installation to avoid any and all proposed underground improvements."

110-3.7 RESTORATION. Add the following to this Section:

"Any and all trenches and disturbed areas will be backfilled and restored to a smooth grade and seeded to the satisfaction of the Engineer. All trench settlement shall be corrected for a period of one year. Restoration, grading, and seeding of areas disturbed during the installation of the proposed ducts will be incidental to the respective pay item for which the duct is installed. The seeding will be completed in accordance with Items 901 and 908, but will be incidental to the respective pay item for which the duct is installed."

Add:

110-3.8 LOCATING EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground utilities indicated in the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required.

In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. **Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.** Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

Contractor shall locate and mark all existing cables within ten (10) feet of proposed excavating/trenching area. Any cables found interfering with proposed excavation or cable/trenching shall be hand dug and exposed. Any damaged cables shall be immediately repaired to the satisfaction of the Resident Engineer at the Contractor's expense. The Resident Engineer and Owner shall be notified immediately if any cables are damaged.

Payment for locating and marking underground utilities and cables will not be paid for separately, but shall be considered incidental to the respective duct installation.

Add:

110-3.9      CONDUIT INSTALLATION.

- A. All exterior above grade exposed conduit shall be galvanized rigid steel conduit (GRSC). All conduit penetrations to the building exterior shall be GRSC. All conduit penetrations to fire walls shall be GRSC with UL-listed fire stop/seal at the wall penetrations. All conduits located at the AWOS site containing power wiring, control wiring, signal wiring, and/or communications wiring shall be galvanized rigid steel conduit. All below grade conduit shall be as detailed in the Plans and specified herein.
- B. Feeder and branch circuit conduits located in the Hangar and Terminal Building, run overhead to or from panelboards, load centers, and equipment panels shall be electrical metallic tubing provided they do not enter a classified hazardous location. All other exposed interior conduit installed in non-hazardous areas shall be electrical metallic tubing unless otherwise noted in the Plans.
- C. Conduit runs embedded in floors shall be galvanized rigid steel unless otherwise noted in the Plans.
- D. Conduits used for pendant mounted light fixtures shall be galvanized rigid steel.
- E. All work shall be laid out with sleeves for openings through floors and walls, etc. as required prior to the laying of floors and walls. If sleeves and inserts are not properly installed, the Contractor will be required to do all necessary cutting and patching later at his own expense and to the satisfaction of the Engineer.
- F. Conduit size and fill requirements shall comply with Chapter 9 and Annex C of the NEC. It should be noted these are minimum requirements and larger conduit sizes or smaller fill requirements shall be used whenever specified or detailed on the Drawings.
- G. Use liquid-tight, flexible metal conduit or flexible metal conduit for final connection to motors, bi-fold door operators, constant current regulators, transformers, portable equipment, and for equipment subject to movement, vibration, and/or noise transmission. For each conduit size up to 1-inch trade size, flexible conduit shall be minimum length of 12 inch and a maximum length of 36 in. and for conduit sizes above 1-in. trade size, flexible conduit shall be minimum length of 20 inch and maximum length of 48 inch. Liquid-tight, flexible metal conduit and/or flexible metal conduit that is used for flexibility (including connections to motors, constant current regulators, and transformers) shall require an external bonding jumper or internal equipment grounding conductor per NEC 350.60 and/or 348.60. **Do not install liquid-tight, flexible metal conduit or flexible metal conduit that is not UL-listed.** Do not install liquid-tight flexible metal conduit or flexible metal conduit in a classified hazardous location unless it is approved and listed suitable for use in the respective classified hazardous location.
- H. Explosion-proof flexible conduit shall be provided as a connection between each motor junction box (or any other piece of equipment subject to movement or vibration) and the rigid conduit system where installed in a classified hazardous location.
- I. Ream conduits only after threads are cut. Cut joints square to butt solidly into couplings. Where necessary to join two pieces of conduit and it is impossible to use standard coupling, use three piece malleable iron conduit coupling. The use of running thread is prohibited. This applies to all rigid conduit installations, underground or otherwise.



- J. Make all joints in steel underground conduit watertight with approved joint compound. Temporarily plug conduit openings to exclude water, concrete or any foreign materials during construction. Clean conduit runs before pulling in conductors.
- K. Hickey bends will not be acceptable for conduits 1-inch and larger. Use manufactured elbows or bends fabricated with bending machine. Field bending of all PVC conduit shall be accomplished with the use of equipment approved by the conduit manufacturer. Open flame bending equipment will not be acceptable.
- L. A run of conduit between outlet and outlet, between fitting and fitting or between outlet and fitting shall not contain more than the equivalent of four 90 Degree bends, including bends immediately at an outlet or fitting.
- M. Where conduit enters a box or fitting provide a steel locknut and an insulated metallic bushing. Use this method to terminate conduit in panels, pull boxes, safety switches, etc. Conduit terminations in panel boards (circuit breaker panels or load centers) shall have grounding bushings with ground wire connections between the bushing and the ground bus.
- N. Do not run conduit below or adjacent to water piping, unless specifically detailed otherwise in the Plans.
- O. Run exposed conduits parallel with walls and at right angles to the building lines, not diagonally. Make bends and turns with pull boxes or cadmium plated or hot-dipped galvanized malleable iron fittings and covers.
- P. Conduit terminations shall include bushings to protect conductors from damage from conduit.
- Q. Support exposed rigid steel conduit runs on walls or ceiling every 5 feet with cadmium plated or PVC coated galvanized cast one hole straps, clamp backs and anchors. Provide lead shield insert anchors, with stainless steel round head machine screws, for concrete and brick construction. In wood construction, use stainless steel round head wood screws. Where steel members occur, drill and tap and use stainless steel round head machine screws.
- R. In brick construction, drill hole for insert near center of brick, not near edge or in mortar joint.
- S. Support two or more exposed parallel conduit runs, 1-inch and larger, every 5 feet with trapeze hangers. Hanger assembly to consist of concrete inserts, threaded solid rod, washers, nuts and cross members of galvanized angle iron or 1-5/8-inch by 1-5/8-inch metal framing. Anchor each conduit individually to cross members of every other hanger with cast one hole straps, clamps backs and proper sized cadmium plated machine bolts and nuts.
- T. Perforated iron strapping is prohibited. Set screw type fittings are prohibited.
- U. Use only screws, bolts, washers, etc. fabricated from rust resisting metals for the supporting of boxes.
- V. Schedule 40 PVC conduit and/or sleeves shall be used for grounding electrode conductors.
- W. The electrical handholes shall be constructed in accordance with the details as shown on the Construction Plans.

Add:

110-3.10 FIRE STOPPING.

- A. All occupied and unoccupied sleeves or openings for electrical raceways or cables installed in or through fire rated walls shall be fire stopped, to provide an effective barrier against the spread of fire, smoke and gases and maintain the integrity of the partition, wall or floor.
- B. Fire stopping materials shall be installed in accordance with manufacturers written instructions.

METHOD OF MEASUREMENT

110-4.1 Delete this Section.

110-4.2 Delete this Section.

110-4.3 The quantity of **Split Duct under the proposed new driveway** to be paid for shall be the number of linear feet of split duct with concrete encasement installed, measured in place, completed and accepted.

110-4.4 The quantity of conduit and/or duct for the AWOS equipment installation shall not be measured for payment. This duct work shall be incidental to the respective AWOS installation.

BASIS OF PAYMENT

110-5.1 Revise this Section to read as follows:

"Payment for the Split Duct under the proposed new driveway will be made at the Contract unit price per linear foot for split duct with concrete encasement, completed and accepted. These prices shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; for all excavation and backfill; for all duct interface work to handholes/manholes including coring of handholes/manholes; for all excavation and backfilling with aggregate backfill, earth backfill, and concrete; and for all labor, coordination, equipment, tools, and incidentals necessary to complete this Item.

"For duct installed for the AWOS equipment installation, this work shall be incidental to the respective AWOS installation, and no additional compensation will be made. For the AWOS installation, all costs for furnishing all materials and for all preparation, assembly, and installation of these materials; for all sawing and pavement removal; for all duct interface work to handholes/manholes including coring of handholes/manholes; for all interface to buildings or structures, for all excavation and backfilling with aggregate backfill, earth backfill, and concrete; and for all labor, equipment, tools, and incidentals necessary to complete this item is considered incidental to the respective AWOS installation for which the duct is being installed.

"Topsoiling, seeding and mulching of the duct trench shall not be paid for separately, but shall be incidental to the associated duct or AWOS installation.

"Payment will be made under:

"Item AR110550      Split Duct - per linear foot."

ITEM 126

INSTALLATION OF AWOS A-V

DESCRIPTION

126-1.1 This item shall consist of a complete, "turnkey" installation of an FAA-approved Automated Weather Observing System, AWOS A-V with Graphic Weather Display and linking/connection/interface equipment to provide the capability to post on a web site, in accordance with these Special Provisions and the documents listed below. The system shall be installed at the specified location and in accordance with the dimensions and details shown in the Plans. The term, "turnkey," shall mean the Contractor is responsible for installing the AWOS, including review of the Plans for suitability with proposed equipment, coordination and recommendations on site preparation, processing of paperwork and approvals required, installation, calibration and start-up of AWOS equipment, maintenance training of airport personnel, warranties, spare parts, remote maintenance and repair monitoring, certification, travel, and other items as required for a complete, operational, and FAA-commissioned AWOS. The AWOS Maintenance Contract is the responsibility of the Airport sponsor and/or the Illinois Division of Aeronautics and is not included in this Contract.

The AWOS manufacturer shall utilize an established and proven equipment configuration. The above description shall not be construed as being all inclusive or restrictive.

All equipment must be installed in compliance with applicable FCC licenses. Any modifications, including labor, materials, and incidental items, required to accommodate the above specified equipment are incidental to Item AR800908. No additional compensation will be allowed. This also includes additional control lines and/or any additional equipment or devices required.

The Contractor shall ascertain that all AWOS components furnished by him (including FAA approved equipment) are compatible in all respects with each other and the remainder of the new/existing system. Any non-compatible components furnished by the Contractor shall be replaced by him at no additional cost to the airport sponsor with a similar unit, approved by the Engineer (different model or different manufacturer) that is compatible with the remainder of the system and existing airport equipment.

126-1.2 REFERENCES.

- A. FAA AC 70/7460-1K, "Obstruction Marking and Lighting."
- B. FAA AC 150/5220-16D, "AUTOMATED WEATHER OBSERVING SYSTEMS (AWOS) FOR NON-FEDERAL APPLICATIONS."
- C. FAA AC No. 150/5345-53 "AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM" (most current issue) and AC 150/5345-53D, AIRPORT LIGHTING EQUIPMENT CERTIFICATION PROGRAM Appendix 3 Addendum.
- D. FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION."
- E. FAA Order 6560.20B "Siting Criteria for Automated Weather Observing Systems (AWOS)."
- F. Federal Aviation Administration Memo dated October 10, 2012, Subject: Weather Equipment Usage Waiver for Federal Contract Tower and Non-FAA Control Towers.

- G. FAA-STD-019e, December 22, 2005, Department of Transportation, Federal Aviation Administration Standard, LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT.
- H. NFPA 70 - National Electrical Code (NEC), most current issue in force.
- I. NFPA 70E - Standard for Electrical Safety in the Workplace.
- J. OSHA 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures.
- K. "Standard Specifications for the Construction of Airports," Illinois Department of Transportation Division of Aeronautics.

126-1.3

**SHOP DRAWINGS.** The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Shop drawings are required for each type of conduit or duct to be used on the project. **Shop drawings shall be clear and legible. Copies that are illegible will be rejected.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus four (4) copies to be retained by the Project Engineer. Shop drawings shall include the following information:

- A. **Certification of compliance with the AIP (Airport Improvement Program) Buy American Act Title 49 USC Section 50101 for all materials and equipment. Do not submit ARRA (American Recovery and Reinvestment Act) or NAFTA (North American Free Trade) certification as a substitute for certification of compliance with the AIP Buy American Preferences. Shop drawings submitted without certification of compliance with the Airport Improvement Program Buy American Preferences or without certification of manufacture in the United States of America in accordance with the AIP Buy American Requirements will be rejected. See the FAA website at: [http://www.faa.gov/airports/aip/buy\\_american/](http://www.faa.gov/airports/aip/buy_american/) for more information on the Airport Improvement Program Buy American Preferences requirements.**
- B. In order to expedite the shop drawing review, inspection and/or testing of materials and equipment, the Contractor shall furnish complete statements to the Project Engineer as to the origin and manufacturer of all materials and equipment to be used in the work. Such statements shall be furnished promptly after execution of the contract but, in all cases, prior to delivery of such materials and equipment.
- C. AWOS Submittal Package.
- D. Concrete mix design.
- E. Provide cut sheets, information, voltage rating, amperage rating, manufacturer's catalog number, and manufacturer catalog number, and options for the safety switches.
- F. Cut sheets with part number and specifications for the power distribution block and enclosure.
- G. Cut sheets with part number and specifications for the AC surge suppressor.
- H. Submittals for panelboards shall include manufacturer, catalog numbers, panel schedule, voltage and amperage ratings, bus material, integrated short circuit ampere rating, circuit breaker arrangement and sizes and respective enclosure.

- I. Provide cut sheets for all types of conduit used for the AWOS (for example galvanized rigid steel conduit, UL listed liquid tight flexible metal conduit, schedule 40 PVC conduit, and/or other conduits used on the project). Include certification that steel conduits are made with 100 percent domestic steel.
- J. Provide cut sheets for the power and control circuit conductors.
- K. Provide cut sheets with manufacturer's name, catalog number, dimensions, material and UL listing for each type and size ground rod. Include certification of 100% domestic steel for ground rods. Include cut sheets for exothermic weld connections, ground lugs, and ground wire.

126-1.4 AWOS MANUALS. Two complete sets of operation, maintenance, and repair manuals shall be provided to the Airport.

126-1.5 SITE PREPARATION. This work includes all labor, equipment, and material required to provide, power, and transmit the control and data signals from the AWOS Site to the respective AWOS broadcasting system, to any/all necessary transmitters, and to the operator terminal and displays. This work includes, but is not limited to, the following:

- A. General AWOS site work including grading, installing and leveling of crushed stone, landscaping, seeding, mulching, as specified herein and elsewhere in the Standard Specifications and Special Provisions, and as shown in the Plans.
- B. Furnishing and installing a 120/240 VAC (or 120/208 VAC), 3 wire, single phase power source for the AWOS panelboard as detailed in the Plans. Furnishing and installing power from the AWOS panelboard to remote sensor locations, obstruction lighting on the tower, convenience receptacle, uninterruptible power system, and other associated AWOS items as required. All branch circuits running from the distribution panel to the respective AWOS equipment shall be in galvanized rigid steel conduit and/or sunlight resistant, UL listed liquid tight flexible metal conduit, listed suitable for grounding and conforming to 2014 NEC Article 350. This includes furnishing the power distribution panel with breakers, all power cable, conduit, grounding and lightning protection, mounting channels or posts, hardware, etc. Should power requirements of the proposed AWOS equipment exceed the specified power, it will be supplied as per manufacturer's specifications and recommendations. The Contractor will provide the Project Engineer with these specifications and recommendations.
- C. Furnishing and installing a UHF communications link between the AWOS site and the Terminal Building, as detailed in the Plans and specified herein.
- D. Furnishing and installing control and data cables in conduit from the AWOS ACU (Acquisition Control Unit) to remote sensors.
- E. Furnishing and installing a VHF radio link to broadcast the AWOS information.
- F. Construction of foundations for the tower base, mounting/support structure for AWOS control panels/AWOS distribution panel/UPS/ Battery/and other AWOS equipment, and all sensors as applicable.
- G. Construction of a rock area for the AWOS site, as specified herein and elsewhere in the Standard Specifications and Special Provisions, and as shown in the Plans.
- H. Construction of a permanent true North marker, as shown in the Plans.

- I. Furnishing and erecting a self-supporting free standing tower as shown in the Plans in accordance with FAA AC 150/5220-16 (latest issue in effect) and the respective AWOS manufacturer certification requirements.
- J. Miscellaneous site work, such as landscaping, seeding, and other miscellaneous items, as specified herein and elsewhere in the Standard Specifications and Special Provisions, and as shown in the Plans.
- K. Accomplishing all required utility installations and connections.
- L. Obtaining all required licenses, permits, and certification in order to build and commission the AWOS.
- M. Site approval and documents/applications for the AWOS equipment installation will be submitted to the FAA by Hanson Professional Services Inc. and are not the responsibility of the Contractor.
- N. Licensing of the VHF frequency for broadcasting the AWOS information is the responsibility of the Contractor. No additional compensation shall be allowed.
- O. Furnishing and installing a dedicated 120 VAC, 20 Amp branch circuit for the AWOS equipment to be installed at the Terminal Building. Contractor shall furnish and install a 20 Amp, 125 Volt, duplex, NEMA configuration 5-20R specification grade receptacle with Cast FS box (for surface mount) or sheet metal box (for flush mount in wall), and cover plate with branch circuit wiring and conduit from the respective power source to the location of the AWOS equipment. The AWOS monitor will be located on the office area of the Terminal Building as designated by the Airport Manager. Branch circuit wiring shall be 1 #12 THWN, 1 #12 THWN Neutral, 1 #12 ground in 1/2-inch or 3/4-inch galvanized rigid steel conduit with threaded fittings or electrical metallic tubing with compression fittings. Contractor shall furnish and install a 20 Amp, 120 VAC, branch circuit breaker with 10,000 AIC minimum at 120 VAC that is compatible with the existing panelboard or load center designated as an available 120 VAC power source. Contractor shall field verify available 120 VAC power source panel.

The above work may be performed by the AWOS manufacturer's representative or an approved contractor regularly engaged in work of this type. The above descriptions shall not be construed as being all inclusive or restrictive.

126-1.6 AWOS INSTALLATION. This work includes all labor, equipment, and material required to install and make operational the AWOS equipment, data acquisition, data broadcasting, and data displays. Included in this work shall be the training of airport personnel as described herein, providing spare parts, and additional items required to provide a fully operational and FAA-commissioned AWOS for the airport.

This work shall be performed by the AWOS manufacturer or an approved Contractor regularly engaged in work of this type, and shall include furnishing and installing the equipment, calibration, start-up, and certification of equipment. The above descriptions shall not be construed as being all inclusive or restrictive.

Sensors shall be installed at the locations and elevations shown in the Plans or alternative locations recommended by the manufacturer and approved by the Engineer. All connections of the cables to the sensors, data collection, processing unit, and data terminal will be in accordance with the manufacturer's specifications.

The following output media shall be provided:

- A. Voice output transmitted via VHF equipment.
- B. Telephone dial-up access to voice output.

- C. The AWOS shall include a Graphical Weather Display to deliver real-time and historical AWOS data to airport personnel and users in a comprehensive, easy-to-read format. It should also allow the AWOS display information to be viewed through a web browser. The Graphical Weather Display shall include at a minimum a video display monitor, keyboard and optional printer which are all to be located in the Airport Terminal Building, as directed by the Airport Manager.
- D. Telephone to voice broadcasts.
- E. Computer modem hook-up.
- F. Audio monitor amp/speaker with volume control and on/off switch or radio receiver, for monitoring the AWOS information.

126-1.7      AWOS SERVICES.

In addition to supplying and installing the aforementioned equipment, the AWOS Contractor/Manufacturer shall provide the following services and equipment.

- A. Assist the Consultant, the Airport Sponsor, and the Illinois Division of Aeronautics to obtain all required licenses, permits, and certificates in order to FAA commission the AWOS system.
- B. Conduct all required systems performance tests.
- C. Participate in FAA ground check, and site commissioning of the AWOS. This includes providing and compensating a qualified technician to be on site for the FAA ground of the AWOS and properly broadcasting the information in accordance with FCC rules and regulations.
- D. Prepare the AWOS for the FAA ground check. Place and keep the AWOS in an operational test mode until such time as it is FAA-certified. If the FAA disapproves either the ground check or flight check, the Contractor/Manufacturer shall further prepare the AWOS to pass the check.
- E. Post certificates and notices outlined in AC 150/5220-16C.
- F. Provide operational training that provides system overview. Include two complete sets of operation and user manuals, for designated airport operational and technical personnel.
- G. Provide manufacturer's standard recommended spare parts.
- H. Provide, if needed, access codes or passwords unique to the airport in order to perform technician level adjustments and calibration.
- I. All work shall be completed in accordance with these Special Provisions, the construction Plans, AC 150/5220-16D (or most current issue in effect), and FAA Order 6560.20B.

EQUIPMENT AND MATERIALS

126-2.1      GENERAL.

- A. The AWOS and other equipment and material covered by FAA specifications shall have the approval of the Federal Aviation Administration. Refer to Federal Aviation Administration Memo dated October 10, 2012, Subject: Weather Equipment Usage Waiver for Federal Contract Tower and Non-FAA Control Towers for a list of Certified Non-Federal Automated Weather Observing system (AWOS) Systems and Vendors - **see Exhibit A**. Confirm FAA certification of the respective AWOS with the respective manufacturer.

- B. All other equipment and materials covered by other referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification.

126-2.2     SITE EQUIPMENT AND MATERIALS.

- A. **Structural Concrete.** Concrete shall be in accordance with Item 610 Structural Portland Cement Concrete, unless higher strengths are recommended by the equipment manufacturer.
- B. **Power and Communications Cable.** Power and communication cable shall be in accordance with Item 108, as detailed in the Plans, in accordance with the respective AWOS manufacturer's recommendations and/or requirements and as detailed herein.
- C. **Underground Electrical Duct.** Underground electrical duct shall be in accordance with Item 110 as detailed in the Plans, and as detailed herein.
- D. **Safety Switches.** Safety switches shall be heavy duty, UL-listed, with amperage, voltage, number of poles, and type (fusible or not fusible), and accessories as detailed in the Plans. Safety switches shall be pad lockable in the off position. Include ground lugs or grounding kits with all safety switches. Safety switches located outdoors, or in damp areas shall be in NEMA 4X stainless steel enclosures. Safety switches located in hazardous classified areas shall be UL-listed or FM approved as suitable for the respective location. Safety switches shall be as manufactured by Square D, Eaton Cutler-Hammer, or equivalent. Safety switches shall be manufactured in the United States to comply with the AIP Buy American Preference requirements.
- E. **Power Distribution Block.** Power distribution block to connect/splice the AC Surge Protector to the feeder circuit shall be as detailed in the Plans. Enclosure shall be NEMA 4X stainless steel adequately sized for the terminals, conduits, and wiring in accordance with National Electrical Code Article 314 and/or as detailed in the Plans.
- F. **Surge Protective Device for AWOS Site.** AC power surge protective device shall be UL-listed per UL 1449, Third Edition. AC power surge protective device for the AWOS distribution panel shall be suitable for a 120/240 VAC, 1-phase, 3-wire, plus ground system with a surge current rating of 240,000-Amps, 8 x 20 microsecond wave per mode (L-L, L-N, L-G, N-G), and status indication lights in a NEMA 4X stainless steel enclosure, Lightning Protection Corporation Model LPC 2020-8U-G, or approved equal. Include six spare indicator lamps with each AC power surge protective device.
- G. **AWOS Distribution Panelboard.** Each circuit breaker panelboard shall be rated 120/240 VAC, 1 phase, 3-wire and shall have Copper bus structure braced for 10,000 RMS Amperes fault current minimum at 120/240 VAC. All Copper parts shall be plated to prevent corrosion. Panelboards shall bear the UL label. Panelboards for service entrance applications shall be UL-listed suitable for service entrance. All panelboards shall be dead-front safety-type, equipped with thermal magnetic-molded case breakers and solid neutral bus. Bus bar connections to the branch circuit breakers shall be the "Distributed Phase" or "Phase Sequence" type. Bussing shall be such that adjacent single-pole breakers will be on different phases or polarities, and that two pole breakers can be installed at any location. Panelboard numbering shall be such that starting at the top, odd numbers shall be used in sequence down the left hand side, and even numbers shall be used in sequence down the right hand side. Enclosure shall be rated NEMA 3R and 12 suitable for outdoor installation with a hinged cover. Provide a circuit directory frame and card with a clear plastic covering on the inside of the doors. Fronts shall have flush locks, and be furnished with two keys per lock.



Provide circuit breakers, quick-make, quick-break, thermal-magnetic, trip indicating, and common trip on all multi-pole breakers. Handles shall have "ON", "OFF" and "TRIPPED" positions. Circuit breakers shall be UL-listed in accordance with UL Standard 489. Breakers shall have bolt-on connections to the bus. Amperage trip ratings, voltage ratings, interrupting current ratings, and number of poles shall be as shown on the panelboard schedules. Contractor shall confirm and adjust circuit breaker sizes, as required for the respective equipment or device being fed, in accordance with the respective equipment manufacturer's recommendation and the NEC. Panelboards shall be furnished with Copper-ground bus and separate insulated neutral bus.

- H. **Ground Rods.** Ground rods for the AWOS ground ring shall be 3/4-inch diameter, 10-foot long (minimum), UL-listed, Copper-clad. Ground rods shall have 10 mils minimum Copper coating. Ground rods shall be manufactured in the United States of America. Steel used to manufacture ground rods shall be 100 percent domestic steel. Connections to ground rods shall be exothermic weld type as detailed in the Plans and as specified herein. Ground ring conductors, grounding electrode conductors, bonding jumpers, lightning protection conductors, ground wires, and other grounding conductors shall be as detailed in the Plans and specified herein.
- I. **Fencing.** Fencing for the AWOS site will be an additive alternate pay item and shall be in accordance with Item 162 and as detailed in the Plans.
- J. **Stone.** Stone shall conform to Item 208, and as detailed in the Plans.

#### 126-2.3 AWOS EQUIPMENT AND MATERIALS

126-2.3.1 **AWOS SYSTEM.** The Automated Weather Observing System (AWOS) shall be an FAA Certified Non-Federal AWOS A-V system in accordance with Advisory Circular No. 150/5220-16 (latest edition in effect) and Order No. 6560.20 (latest edition) prior to bid opening. Refer to Federal Aviation Administration Memo dated October 10, 2012, Subject: Weather Equipment Usage Waiver for Federal Contract Tower and Non-FAA Control Towers, Attachment 3: Certified Non-Federal Automated Weather Observing System (AWOS) Systems and Vendors as of January 26, 2012 for a list of Non-Fed AWOS A-V manufacturers - see **Exhibit A**. Confirm FAA certification of the respective AWOS with the respective manufacturer. All Weather, Inc., Belfort Instrument Co., and Vaisala, Inc. are listed as Certified Non-Federal AWOS A-V manufacturers in the respective FAA memo dated October 10, 2012 that is referenced above.

#### 126-2.3.2 **GENERAL PERFORMANCE STANDARDS.**

- A. **Input Power.** AWOS equipment shall operate from a 120/208 VAC ( $\pm 10\%$ ), 60 Hz ( $\pm 5$  Hz), 3-wire single-phase source. The maximum service required shall be 30 amps. The AWOS enclosure shall be mounted in accordance with the manufacturer's specifications.
- B. **Loss of power.** The AWOS should return to normal operation without human intervention after a power outage. When power is restored, the AWOS should not output erroneous data. The system shall have the capability of operating from an Uninterruptible Power Supply (UPS) should one be required.

126-2.3.3 **OPERATING ENVIRONMENT.** All AWOS equipment shall meet the requirements for operating in a Class 1 environment, as defined by AC 150/5220-16 (latest edition).

126-2.3.4 **AWOS SYSTEM AND SENSOR SPECIFICATIONS.** The AWOS A-V provided for this project shall meet the specifications and performance guidelines defined in AC 150/5220-16 (latest edition in effect). The AWOS shall include the following weather monitoring instruments and sensors and shall meet the respective specifications contained in FAA AC 150/5220-16 (latest edition in effect), and a detailed herein.

- A. Wind Direction Sensor (Advisory)
- B. Wind Speed Sensor (Advisory)
- C. Altimeter Setting (FAA Certified)
- D. Ambient Temperature Sensor and Dew Point Sensor (Advisory)
- E. Relative Humidity (Advisory)
- F. Density Altitude (Advisory)
- G. Airport Identifier
- H. Visibility Sensor (FAA Certified)
- I. Ceilometer (Advisory)

**If there are any conflicts between the bid documents and the FAA Advisory Circular 150/5220-16 & manufacturer's certification, the FAA Advisory Circular 150/5220-16 supersedes.**

126-2.3.5 AWOS DATA PROCESSOR.

- A. The AWOS data processor shall perform the following functions: data acceptance, data reduction, data processing, and product dissemination (digital and voice).
- B. The processor shall provide a computer-generated voice weather observation to a ground-to-air radio (VOR, NDB, or VHF discrete) for transmission to pilots.
- C. The processor shall have the capability to process observations from an unlimited number of sensors.
- D. The data reduction function shall consist of the processing of information prior to the actual algorithm processing. The AWOS data reduction software shall include quality control checks to ensure that the data received is accurate and complete and that the associated equipment is working properly before the weather algorithms are performed. If data from any sensor is erroneous or missing, (e.g., a sensor loses power, etc.), that parameter and all other parameters derived from the missing parameter shall be reported "missing" in the weather observation. The processor shall continue to sample data, and if the error condition is corrected, the weather parameter shall be reinserted in the AWOS report.
  - 1. The processor shall periodically check reference or calibration points which correspond to the normal operating limits of the sensor.
  - 2. The processor shall set upper and lower limits on the sensor output which correspond to the normal operating limits of the sensor.

126-2.3.6 OPERATOR TERMINAL (OT).

- A. The OT shall have the capability to do product editing. This function allows an authorized observer to initiate or change any observation product. A specific "editing" password shall control access to this function. Manual entries of weather phenomena not automatically observed shall be placed in the remarks section of the observation and will not be included in the voice message. In the case of sensor failure or an incorrect AWOS output, an operator shall have the capability to replace the incorrect parameter value with a missing symbol.
- B. The OT shall consist of a video display monitor with keyboard, printer, and audio speaker at the terminal building. The contractor/manufacturer shall provide all necessary interface equipment, video display monitor, keyboard, printer and audio speaker. The audio speaker shall be provided with an on/off switch and volume control.

- C. The system shall require the operator to enter a security code in response to system queries prior to allowing him/her to proceed with the entry of data.
- D. Where an OT is used to modify the report, all manually entered data shall be automatically time tagged by the system. The data shall be valid until the next hourly or manually entered observation. In order to retain the manually entered data in the system, the operator shall be required to re-validate his/her entries hourly. The data shall be retained in the observation until the "on-the-hour" observation, when it must be re-validated.

126-2.3.7 VOICE SUBSYSTEM.

- A. The voice subsystem shall provide high quality, computer-generated speech for output of the AWOS observation. A high level error-checking scheme shall be incorporated to prevent erroneous outputs. The voice subsystem should also provide the speech for the local ground-air radio broadcast and for telephone dial-up users. The system shall have the capability of hooking up to a minimum of two (2) phone lines.
- B. The voice subsystem shall have the capability for the addition of a manually input voice message. This message will be voiced at the end of the computer-generated voice message. The programming of the manual input voice message shall be accomplished using a telephone type handset. The system shall have the capability of remotely programming a voice message via telephone. A security access code shall prevent unauthorized use. The system shall automatically play back the recorded message and allow the user to reprogram, delete, or accept the message.
- C. The voice subsystem shall have the following features:
  - 1. The voice signal shall deliver a minimum of 1 milliwatt of power into a balanced 600 ohm line. The output amplitude shall be adjustable to nominal 0 db.
  - 2. The voice message shall be output continuously with approximately a 5 second delay between the completion of one message and the beginning of the next.
  - 3. If the voice message is in process of output when the new AWOS observation is received, the output message should be completed without interruption; voice transmission of the new AWOS observation should begin upon completion of the next delay time.
  - 4. The quality of the automated speech shall provide clear reception from telephone and ground-air radio transmitters.
  - 5. The format and sequence of the voice message shall be in accordance with FAA Order 7110.10, Flight Service Handbook. When any weather parameter is reported missing "MSG" due to a disabled or inoperative sensor, as determined by internal AWOS checks, the voice report shall be "(parameter) missing", e.g., "wind speed missing", "cloud height missing", etc. The UTC time of the observation will be given after the location identification.
  - 6. If a valid data update is not received prior to the start of the next voice transmission, the last valid data set received shall be used to compose the voice message. Failure to receive a data update for more than five minutes shall result in the termination of the voice output and generation of a failure message. In this event, the AWOS shall output the message "(station identification) automated weather observing system temporarily inoperative.

7. The system shall contain an automatic telephone answering device that will permit the user access to the voice message via the public telephone system. The incoming call shall be answered prior to completion of the second ring, and the audio signal in progress at the time the call is received shall be placed on line. The voice subsystem shall automatically disconnect when the weather observation has been completely transmitted twice.
8. Hook-up for telephone audio output on an assigned dial-up telephone number shall be provided by others. The phone line and hook-up for AWOS data communication is to be terminated at the AWOS tower.
9. The system shall contain a handset or audio speaker for monitoring the voice output from the operator terminal.
10. The AWOS telephone answering device, as supplied to the Owner, shall have the capability to answer a single phone line. The AWOS shall be equipped to answer a second phone line without the addition of any components to the Voice Subsystem.

126-2.4 VHF TRANSMITTER. The AWOS output will be broadcast via a separate VHF transmitter. The transmitter operates in the 118-136 MHz band. The transmitter shall broadcast from the AWOS site and must have an FCC type acceptance and have the following operational parameters:

- A. Channel Spacing: 25 KHz.
- B. RF Power Output: Nominal 2.5 watts, at the transmitter 10 watts maximum.
- C. Frequency Stability:  $\pm 0.001\%$  (-30 to +60 degrees C).
- D. Emission Type: 6K00A3E.
- E. Spurious and Harmonic Emissions: 80 db minimum up to 90% modulation.

126-2.5 EQUIPMENT ENCLOSURE. AWOS components not designed for outdoor use shall be located in an indoor area as directed by the Airport Manager and in accordance with manufacturer and FAA guidelines. Components used outdoors that are not weatherproof shall be located in a weatherproof enclosure. All outdoor enclosures shall be NEMA 4 Stainless Steel or Aluminum enclosures. All outdoor hardware shall be corrosion resistant stainless steel.

126-2.6 CONCRETE. Concrete shall be in accordance with Item 610 Structural Portland Cement Concrete, unless higher strengths are recommended by the equipment manufacturer.

126-2.7 REINFORCING STEEL. Reinforcing steel and bars shall be used in the tower and sensor foundations. AWOS manufacturers shall submit foundation drawings showing the use of these materials in the foundations. Reinforcing steel and wire fabric shall be sized in accordance with the respective AWOS equipment manufacturer's recommendation for each respective foundation. Reinforcement shall conform to the requirements of Item 610 Structural Portland Cement Concrete, and/or as recommended by the respective AWOS manufacturer for their equipment foundations. Reinforcing steel bars shall conform to the requirements of ASTM A 706, Grade 60; welded wire fabric shall conform to the requirements of AASHTO M 55, ASTM A82, or ASTM A185, plain type, flat stock only.

- 126-2.8 CONDUIT. Conduit shall be used between the AWOS tower and sensor foundation(s) for both power and signal cables. Conduit used for power and signal cables shall be galvanized rigid steel conduit with UL listed liquid tight flexible metal conduit at final connections to devices. All liquid tight flexible metal conduits shall include an external bonding jumper per the requirements of FAA STD 019e section 4.2.10.3. This bonding jumper shall be a #6 AWG stranded copper conductor. The bonding jumper shall terminate on approved grounding fittings at each end of the flexible metal conduit. Conduit used for grounding electrode conductors, lightning protection conductors, and/or individual ground wires shall be Schedule 40 or Schedule 80 PVC. The conduit shall meet the requirements of these specifications, Item 110, manufacturer's recommendations, and the National Electric Code (NEC). Refer to Item 110 for additional information and requirements on conduits and ducts.
- 126-2.9 WIRE AND CONTROL CABLE. Wire and control cables shall meet the requirements Item 108, the National Electrical Code, the AWOS equipment manufacturer's recommendations, as detailed in the Plans and as specified herein. Control and/or communication cables shall be the manufacturer's required number of pairs plus a minimum two spare pairs. All communication cables are to be individually shielded and suitable for direct earth burial. Refer to Item 110 for additional information and requirements on wire and cables.
- 126-2.10 AWOS DATA LINK. The AWOS shall utilize a UHF radio data link for transmitting AWOS data to the operator terminal at the Airport's Terminal Building.
- 126-2.11 UNINTERRUPTIBLE POWER SUPPLY. The Contractor shall provide a UPS (Uninterruptible Power Supply) to regulate power and provide a back-up power supply source for power outages. The UPS shall be capable of powering the AWOS for a minimum of one (1) hour.
- 126-2.12 TOWER. Rohn 45G self-supporting tower or approved equivalent shall be used. The tower shall not exceed the height specified in the project or manufacturer's drawings. The tower shall conform to all AWOS manufacturer's specifications. The tower shall be painted with a six-band marking with alternating bands of aviation surface orange (the top band) and white. The band widths shall be 1/6 of the height of the tower and perpendicular to the vertical axis of the tower. Paint and aviation colors referred to in the specifications should conform to Federal Standards FED-STD-595, Colors are Orange Number 12197 (Aviation Surface Orange), and white Number 17875 (Aviation White). The tower shall be primed in accordance with the manufacturer's specifications prior to painting.
- 126-2.13 OBSTRUCTION LIGHTS. A Dual L-810(L) obstruction light shall be placed within 5 feet of the top of the tower in accordance with FAA requirements and the manufacturer's plans and specifications. Obstruction lights shall be FAA Type L-810(L) steady burning red obstruction light with Light Emitting Diode illumination meeting FAA AC 150/5345-43F and shall be on the current list of FAA-approved equipment noted in FAA AC150/5345-53D, or latest revision. The two lamps on the L-810 shall be wired in parallel on a dedicated circuit.
- 126-2.14 TRANSIENT AND LIGHTNING PROTECTION. AWOS equipment should be protected against damage or operational upset due to lightning-induced surges on all sensor input lines, sensor supply lines, and incoming power and data communications lines. Equipment (including electrical circuits and fiber optics modems) and personnel shall be protected from lightning surges and voltages, from power line transients and surges, and from other electromagnetic fields and charges. Lightning protection systems shall be designed and installed in accordance with the Lightning Protection Code, NFPA 780, and the manufacturer's recommendations for all equipment structures.
- 126-2.15 WMSCR INTERFACE. The AWOS shall be capable of interfacing to the equipment of a vendor that is approved to download information into the Weather Message Switching Center Replacement (WMSCR).
- 126-2.16 TEST EQUIPMENT. The Contractor shall supply the Owner with the necessary test equipment to maintain the AWOS weather sensors according to the manufacturer's FAA approved maintenance plan. This test equipment includes all standards as specified in the AWOS manufacturer's Operation and Maintenance Manual.

126-2.17 SPARE COMPONENTS. The Contractor shall provide the Owner with the manufacturer's minimum recommended spare components necessary to restore the AWOS to service following a malfunction.

#### CONSTRUCTION METHODS

126 3.1 GENERAL. The AWOS layout shown in the Plans is provided for guidance purposes. The Contractor shall submit a system layout according to the manufacturer's recommendations for approval to the Project Engineer prior to issuance of a Notice to Proceed.

The Contractor shall furnish and install all materials necessary for complete and operational installation of the AWOS and associated equipment and materials, as specified herein and as shown in the Plans. The complete installation and wiring shall be done in a neat, workmanlike manner. All electrical work shall comply with the requirements of the NFPA 70 - National Electrical Code (NEC) most current issue in force, and all other applicable local codes, laws, ordinances, and requirements in force. Equipment shall be installed in conformance with the respective manufacturer's directions and recommendations for the respective application. Any installations which void the UL listing, ETL listing (or other third party listing), and/or the manufacturer's warranty of a device will not be permitted.

- A. Contractor shall keep a copy of the latest NEC in force on site at all times during construction for use as a reference.
- B. Contractor shall keep a copy of the Plans, Special Provision Specifications including any addenda, and copies of any change orders on site at all times during construction.
- C. Contractor shall coordinate work and any power outages with the Airport Manager and the Resident Engineer/Resident Project Representative. Any shut down of existing systems shall be scheduled with and approved by the Airport Manager prior to shut down. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures including, but not limited to, 29 CFR section 1910.147 The Control of Hazardous Energy (lockout/tagout).
- D. Contractor shall comply with the requirements of FAA AC No. 150/5370-2F (or most current issue) "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION".
- E. Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.
- F. All temporary installations shall comply with National Electrical Code Article 590 - "Temporary Installations." The Contractor shall secure, identify, and place temporary exposed wiring in conduit, duct, or unit duct to prevent electrocution and fire ignition sources in conformance with the requirements of FAA AC 150/5370-2F, Part 218, Paragraph c.
- G. All electrical equipment installed by the Contractor shall be properly labeled, and all cables must be tagged.
- H. All power and control cables shall be installed in conduit, wireways, pull boxes, junction boxes, or raceways. No exposed power or control wiring will be permitted.
- I. Locate Existing Underground Utilities and Cables. The location, size, and type of material of existing underground and/or aboveground utilities indicated in the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities.

Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain, from the respective utility companies, detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required. In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer/Resident Project Representative shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract. All utility cables and lines shall be located by the respective utility. **Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.** Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also contact Airport Director/Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also coordinate work with all aboveground utilities.

- 126-3.2 **SITE PREPARATION.** All required grading, clearing, concrete foundation construction, trenching, cabling, and other preparations, except that to be paid for elsewhere in the Standard Specifications and Special Provisions, will be considered incidental to the contract with no additional compensation allowed.
- 126-3.3 **UTILITY CONNECTIONS.** All required power and communications utility installations and connections shall be the responsibility of and coordinated by the Contractor. The Contractor shall also coordinate the new telephone service with the Airport Manager. **The respective City/Owner shall pay for all associated electric utility and/or telephone utility company charges required to provide telephone service for the AWOS. The Contractor is not responsible for telephone utility charges associated with the proposed telephone service for the AWOS.** Utilities and their connection location will be accomplished in accordance with the plan details and the respective serving utility company's requirements. This includes providing telephone service for the automatic answering device, or other equipment requiring a phone line, or lines, to the location(s) required by the particular system installed, and the proper connection of same. Any utility charges or fees associated with utility connections/services shall be billed to the Owner. All labor and materials required for utility services shall be the responsibility of the Contractor and shall be included in the lump sum price for the AWOS A-V, Installed.
- 126-3.4 **POWER AND COMMUNICATIONS.** Power and communications lines shall be installed in accordance with Items 108 and 110 and as detailed in the Plans.
- 126-3.5 **TOWER AND SENSOR BASES.** The Contractor shall submit detailed shop drawings of the tower and sensor bases shown in the Plans for the approval of the Project Engineer prior to issuance of a Notice to Proceed. All bases shall be constructed with Item 610 Concrete Structural Portland Cement. Base construction, including, but not limited to, excavation, forming, concrete placement, setting of miscellaneous steel, and curing, shall be considered incidental to the Contract and no additional compensation will be made.
- 126-3.6 **WIND SENSOR TOWER.** The wind sensor tower shall be installed in accordance with the manufacturer's specifications AC 150/5220-16D (or latest issue in effect) and FAA Order 6560.20B. The wind sensor tower shall be 30 feet or 10 meters in height (as applicable) in accordance with the respective AWOS manufacturer recommendations and requirements and as detailed in the Plans. The Contractor shall submit detailed shop drawings of the wind sensor tower to the Project Engineer for approval prior to issuance of the Notice to Proceed.
- 126-3.7 **AWOS SENSORS.** AWOS sensors shall be installed in accordance with manufacturer's specifications, recommendations and requirements, FAA AC 150/5220-16D (or latest issue in effect) and FAA Order 6560.20B.

126-3.8      INSTALLATION OF POWER AND DISTRIBUTION EQUIPMENT AND MATERIALS.

- A. **Installation of Safety Switches.** All safety switches shall be provided with appropriate mounting hardware and strut support. Strut support shall be stainless steel, Unistrut P-1000-SS, or approved equal. All hardware shall be corrosion-resistant stainless steel. Mount safety switches securely in accordance with the manufacturer's recommendations/instructions and as required for the respective application. Inspect all safety switches for proper operation, tight and secure connections, and correctness. All safety switch enclosures shall be bonded to ground with a ground lug or bar and ground wire. Field cut holes in safety switch enclosures to accommodate conduit entrances. Where safety switches are provided with concentric knockouts, and the respective conduit does not use the largest knockout, install a grounding bushing with ground wire connections between the bushing and the ground bus. Do not use safety switch enclosures for a splice box or for a pull box. Do not route control wires or other circuit wiring through a safety switch. Where splices are required or other control circuit wires are installed in the respective conduit to a safety switch, provide a separate junction box to accommodate the splices and/or other circuit conductors. Provide NEMA 4 hubs for all conduit entries into safety switch enclosures that are rated NEMA 4, 4X to maintain NEMA 4, 4X rating. Provide fuses for fusible safety switches, as detailed in the Plans. Provide weatherproof, abrasion-resistant, engraved legend plates for each safety switch noting the device served, the voltage system, and the fuse size.
  
- B. **Surge Arrester Installation.** Install Surge Protector Devices (SPD) in conformance with the respective manufacturer's directions and recommendations and as detailed in the Plans. Contractor shall confirm all connections to the surge arrester (phases, neutral, and ground) are completed and secure. Connection leads to the surge arrester shall be sized per the respective manufacturer's recommendation and as detailed herein, and shall be maintained as short as possible, maximum 2 feet in length, and laced together for mutual coupling. Provide NEMA 4 hubs for all conduit entries into NEMA 4, 4X rated enclosures that are rated NEMA 4, 4X to maintain NEMA 4, 4X rating. The conduit or conduit nipple connecting the SPD enclosure to the panel enclosure shall be sealed with duct seal or other nonflammable medium to prevent soot from entering the enclosure in the event of a SPD device failure. Surge Protector Devices shall be provided with appropriate mounting hardware and strut support. Strut support shall be stainless steel, Unistrut P-1000-SS, or approved equal. All hardware shall be corrosion-resistant stainless steel.
  
- C. **Installation of Panelboards.** Panelboards shall be thoroughly inspected for physical damage, proper alignment, anchorage, and grounding. The exterior finish shall be inspected for blemishes, nicks, and bare spots, and touched up as required using matching touch-up paint. Inspections shall be made for proper installation and tightness of connections for circuit breakers. Panelboards shall be provided with appropriate mounting hardware and strut support. Strut support shall be stainless steel, Unistrut P-1000-SS, or approved equal. All hardware shall be corrosion-resistant stainless steel. Install panelboards as shown in the Plans and in accordance with NEMA PB1.1. Install panelboards plumb. Install circuit breakers in panelboards and/or load centers in conformance with the respective manufacturer's directions. Connect only one wire/cable to each breaker terminal. Provide filler plates for unused spaces in load centers. Provide typed circuit directory to identify each branch circuit in the load center/panelboard. Revise directory to reflect circuiting changes as required. Provide legend plates for all panelboards to identify the area and/or equipment controlled by the panel, the power source, and the voltage system. Legend plates shall be weatherproof and abrasion resistant phenolic material. Lettering shall be black on white background. Panelboards shall be thoroughly tested after installation and connection to respective loads. Include support hardware as detailed in the Plans and/or in accordance with the respective AWOS manufacturer's recommendations and requirements.
  
- D. **Installation of Pull and Junction Boxes.** The Contractor shall coordinate the installation of pull and junction boxes for each respective facility. Boxes shall be sized and suitable for the respective application:



1. Pull or junction boxes surface mounted at exterior locations or interior damp location shall be "standoff" mounted ½-in. from the wall in a manner to promote air circulation completely around the box. Provide stainless steel strut supports and hardware for mounting pull and junction boxes.
2. Any damage to pull or junction boxes shall be immediately repaired or replaced to the satisfaction of the Resident Engineer.
3. Protect all boxes from entry of foreign materials. Clean out metal shavings, scrap wire, dirt, and debris from each junction or pull box.
4. Provide NEMA 4 hubs for all conduit entries into boxes or enclosures rated NEMA 4 or NEMA 4X to maintain the NEMA 4, 4X rating of the respective enclosure.
5. Independently support all boxes. No parts of the weight or stress thereof shall be borne by the conduits termination therein.
6. All boxes shall be bonded to ground with a ground lug and a ground wire.

126-3.9 MARKING AND LABELING. Equipment, wires, etc., shall be tagged, marked, or labeled as specified:

- A. Legend plates and/or permanent labeling shall be provided for all equipment enclosures. Legend plates shall be provided to identify the equipment controlled, the power source, and the function of each device. Legend plates shall be weatherproof and abrasion-resistant phenolic/plastic engraved material and fastened with contact type permanent adhesive, screws, or rivets. Installation shall not break, crack, or deform the legend plate. Lettering shall be ¼ in. high, black on a white background, unless noted otherwise. Equipment enclosure may also be identified by a stenciled identification with a contrasting color (either black or white).
- B. Identify control wiring at each termination point and in junction/terminal boxes with wire number corresponding to the respective control wiring diagram or respective terminal numbering arrangement. Each individual control wire shall have unique identification and shall maintain that same identification from its point of origin to its final termination point. Wire markers shall be permanent pressure sensitive label with suitable numbers or letters for easy recognition. This applies to field wiring between equipment.
- C. Each individual circuit breaker, control panel, terminal panel, safety switch, panelboard, etc. shall be furnished with a phenolic-engraved legend plate that identifies the respective device, the power source, and the respective voltage, phase, and wire. Furnish additional phenolic-engraved legend plates as detailed in the Plans and/or where required by code.
- D. At electrical splice cans, handholes, manholes, pull boxes, and/or junction boxes identify each cable with respect to the system or device served.
- E. Color-code phase and neutral conductor insulation for No. 6 AWG or smaller. Provide colored marking tape for phase and neutral conductors for No. 4 AWG and larger. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6. Conductor insulation for 120/208 VAC, 1 phase, 3-wire with ground circuits shall be color-coded: Phase A -Black, Phase B - Red, Neutral - White, and Ground - Green. Conductor insulation for 120/240 VAC, 1 phase, 3-wire with ground circuits shall be color-coded: Phase A -Black, Phase B - Red, Neutral - White, and Ground - Green.

- F. Furnish and install weatherproof warning label for each meter socket, enclosed circuit breaker, disconnect switch, switchboard, cutout, panelboard, load center, motor control center, and control panel to warn persons of potential electric arc flash hazards, per the requirements of NEC 110.16 "Flash Protection". Labels shall also conform to ANSI Z535.4-2002 "American National Standard for Product Safety Signs and Labels". NEC 110.16 requires that switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centers that are likely to require examination, adjustment, servicing, or maintenance while energized shall be field marked to warn qualified persons of potential arc flash hazards. The markings shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment. This new requirement is intended to help reduce the occurrence of serious injury or death due to arcing faults to those working on or near energized electrical equipment. The warning labels are to indicate to a qualified worker who intends to open the equipment for analysis of work that a serious hazard exists and that the worker should follow appropriate work practices and wear appropriate personal protective equipment (PPE) for the specific hazard. Labels shall be as detailed in the Plans or shall include at least the following information: "Warning - Potential Arc-Flash Hazards exist while working on this energized equipment. Appropriate PPE Required.

126-3.10 EQUIPMENT INSTALLED AT THE TERMINAL BUILDING. The AWOS data terminals and Graphic Weather Display shall be installed in the office area of the Terminal Building, as directed by the Airport Manager. The equipment shall be installed in accordance with the respective manufacturer's instructions, recommendations and requirements and the applicable sections of FAA AC 150/5220-16D (or latest issue in effect).

126-3.11 CONTRACTOR'S/MANUFACTURER'S WARRANTY. The Contractor/Manufacturer shall provide a one year warranty on all equipment that includes parts and labor. The Contractor/Manufacturer will submit a statement certifying that the following minimum warranty will be provided for the equipment:

*"The equipment has been manufactured, installed, and will perform in accordance with the requirements of FAA AC 150/5220-16D (or latest issue in effect). Any defect in design, materials, or workmanship which may occur during proper and normal use during a period of 1 year from the date of commissioning of the AWOS will be corrected by repair or replacement by the Contractor and/or Manufacturer F.O.B. factory. This includes all labor and parts required to restore the AWOS to full service following a failure or malfunction covered under this warranty. The warranty shall begin when the AWOS is complete, functioning, and FAA-certified and commissioned."*

Note: The Contractor is not responsible for inspections, quarterly/preventive maintenance checks, etc. required by the FAA and/or AWOS manufacturer AFTER FAA commissioning and during the one year warranty. This service will be provided under the current State Maintenance Contract. The Contractor, however, remains responsible for the one year's warranty as stated above.

126-3.12 VHF VOICE TRANSMISSION. The AWOS shall be connected to the proposed VHF transmitter enabling it to broadcast the AWOS data and information.

126-3.13 GROUNDING. The Contractor shall furnish and install all grounding shown in the Plans as required/recommended by the respective AWOS system manufacturer, as required by FAA AC 150/5220-16D, as required by the applicable sections of FAA-STD-019e, December 22, 2005, DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION ADMINISTRATION, LIGHTING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT", and/or as may be necessary or required to make a complete grounding system as required by the latest National Electrical Code (NFPA 70) in force. The reliability of the grounding system is dependent on careful, proper installation and choice of materials. Improper preparation of surfaces to be joined to make an electrical path, loose joints or corrosion can introduce impedance that will seriously impair the ability of the ground path to protect personnel and equipment and to absorb transients that can cause noise in communication circuits. The following functions are particularly important to ensure a reliable ground system:

- A. All products associated with the grounding system shall be UL-listed and labeled.
- B. All bolted or mechanical connections shall be coated with a corrosion preventative/conductive grease and lubricant suitable for electrical connections and grounding connections, before joining, Sanchem Inc. "NO-OX-ID "A-Special" compound, Burndy Penetrox E, or approved equal.
- C. Metallic surfaces to be joined shall be prepared by the removal of all non-conductive material, per 2014 NEC Article 250.12. All Copper bus bars must be cleaned prior to making connections to remove surface oxidation.
- D. Metallic raceway fittings shall be made up tight to provide a permanent low impedance path for all circuits. Metal conduit terminations in enclosures shall be bonded to the enclosure with UL-listed fittings suitable for grounding. Provide grounding bushings with bonding jumpers for all metal conduits entering service equipment (meter base, CT cabinet, main service breaker enclosure, etc.), generator breaker enclosures, and automatic transfer switch enclosures. Provide grounding bushings with bonding jumpers for all metal conduits entering an enclosure through concentric or eccentric knockouts that are punched or otherwise formed so as to impair the electrical connection to ground. Standard locknuts or bushings shall not be the sole means for bonding where a conduit enters an enclosure through a concentric or eccentric knockout.
- E. Furnish and install ground rings, ground fields and/or ground rods at all locations where shown in the Plans or specified herein. Ground rods shall be 3/4-inch diameter, 10 feet long, UL-listed, Copper-clad. Longer ground rods shall be provided where detailed in the Plans. Ground rods shall have 10 mils minimum Copper coating. Top of ground rods shall be a minimum of 40 inches below finish grade unless otherwise noted in the Plans. **Ground ring conductors shall be 50-inches minimum below grade to be below the frost line for Cook and DuPage Counties, Illinois.** Ground rods shall be spaced, as detailed in the Plans, and in no case spaced less than one-rod length apart. All connections to ground rods and/or ground rings shall be made with exothermic weld type connectors, Cadweld by Erico Products, Inc., Solon, Ohio, (Phone 1-800-248-9353), Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440) or Ultraweld by Harger, Grayslake, Illinois (Phone 1-800-842-7437), or approved equal. Exothermic weld connections shall be installed in conformance with the respective manufacturer's directions using molds as required for each respective application. Bolted connections will not be permitted at ground rods or at buried grounding electrode conductors. Grounding electrode conductors shall be bare Copper (stranded or solid) sized, as detailed in the Plans. In addition to the grounding work described herein and shown in the Plans, the Contractor shall test the made electrode ground system with an instrument specifically designed for testing ground systems. If ground resistance exceeds 10 Ohms, contact the Project Engineer for further direction. Copies of ground system test results shall be furnished to the Resident Engineer.
- F. All connections, located above grade, between the different types of grounding conductors shall be made using UL-listed, double-compression, crimp-type connectors or UL-listed, bolted ground connectors. For ground connections to enclosures, cases, and frames of electrical equipment not supplied with ground lugs, the Contractor shall drill required holes for mounting a bolted, ground connector. All bolted, ground connectors shall be Burndy, Thomas and Betts, or equal. Tighten connections to comply with tightening torques in UL Standard 486A to assure permanent and effective grounding.
- G. All metal equipment enclosures, conduits, cabinets, boxes, receptacles, etc. shall be bonded to the respective grounding system. Provide grounding bushings at all conduits entering service entrance equipment (meter bases, service disconnects, service panelboards, etc.) and distribution panels or load centers and ground wire from bushing to ground bus in the respective service entrance equipment or distribution panel.

- H. Each feeder circuit and/or branch circuit shall include an equipment ground wire. Metal raceway or conduit shall not meet this requirement. The equipment ground wire from equipment shall not be smaller than allowed by 2014 NEC Table 250.122 "Minimum Size Conductors or Grounding Raceway and Equipment." When conductors are adjusted in size to compensate for voltage drop, equipment-grounding conductors shall be adjusted proportionately according to circular mil area. All equipment ground wires shall be Copper, either bare or insulated green in color. Where the equipment grounding conductors are insulated, they shall be identified by the color green, and shall be the same insulation type as the phase conductors.
- I. Bond the main electrical service neutral to ground at the main service disconnect. Bond the service neutral to ground at one location only per the NEC. A grounding connection shall not be made to any neutral circuit conductor on the load side of the service disconnecting means, except as permitted by 2014 NEC 250.24.
- J. The secondary neutral of all transformers (separately derived system transformers) shall be grounded in accordance with the NEC. The respective grounding electrode conductor shall be connected to the neutral point of the transformer between the transformer and the output disconnecting means. Size of the grounding electrode conductor shall be in accordance with 2014 NEC Article 250.66 and Table 250.66 unless shown larger on the Drawings. A bond shall be provided between the neutral and transformer case, or other metal that is part of the AC equipment grounding system, so as to complete a circuit for fault current to the transformer winding from the AC equipment grounding system. Size of the neutral bonding conductor shall be in accordance with 2014 NEC Article 250.102.
- K. All exterior metal conduits, where not electrically continuous because of manholes, handholes, non-metallic junction boxes, etc., shall be bonded to all other metal conduit in the respective duct run, and at each end, with a Copper-bonding jumper sized in conformance with 2014 NEC 250.102. Where metal conduits terminate in an enclosure (such as a motor control center, switchboard, etc.) where there is not electrical continuity with the conduit and the respective enclosure, provide a bonding jumper from the respective enclosure ground bus to the conduit sized per 2014 NEC 250.102.
- L. Install grounding electrode conductors and/or individual ground conductors in Schedule 40 or Schedule 80 PVC conduit. Where grounding electrode conductors or individual ground conductors are run in PVC conduit, do not completely encircle conduit with ferrous and/or magnetic materials. Use non-metallic, reinforced fiberglass strut support. Where metal conduit clamps are installed, use nylon bolts, nuts, washers, and spacers to interrupt a complete metallic path from encircling the conduit.
- M. Individual ground conductors and/or grounding electrode conductors shall not be run in metallic conduit and shall not be encircled by metallic clamps. If local codes dictate that grounding conductors must be run in metal conduit or raceway, then the conduit or raceway must be bonded to the grounding conductor at both ends with a bonding jumper sized in accordance with the NEC 250.64(E). All such installations requiring individual grounding conduits to be run in metal conduit or raceway shall be verified and reviewed with the Resident Engineer/Resident Project Representative. This does not apply to AC equipment ground wires run with AC circuits.
- N. Install lightning protection down conductors, grounding electrode conductors, and/or individual ground conductors in Schedule 40 or Schedule 80 PVC conduit or exposed where acceptable to local codes. Where lightning protection down conductors, grounding electrode conductors, or individual ground conductors are run in PVC conduit, **DO NOT** completely encircle conduit with ferrous and/or magnetic materials. Use non-metallic reinforced fiberglass strut support. Where metal conduit clamps are installed, use nylon bolts, nuts, washers and spacers to interrupt a complete metallic path from encircling the conduit. This is required to avoid girdling of ground conductors.

Girdling of a ground conductor is the result of placing the conductor in a ring of magnetic material. This ring could be a metallic conduit, U-bolt or strut-support pipe clamp, or other support hardware. The result of girdling ground conductors significantly increases the inductive impedance of the ground conductor. Inductive and capacitive impedance is a type of resistance that opposes the flow of alternating current. Any increase in the impedance of a ground conductor reduces its ability to effectively mitigate radio frequency noise in the ground system. The condition where a ground conductor is girdled during a lightning strike results in phenomena known as Surge Impedance Loading. Surge impedance loading is a result of voltage and current reaching 500,000 volts and 10,000 amps for a short duration. Girdling further increases the impedance at lightning frequencies of 100 kilohertz to 100 megahertz. At these power and frequency levels, any increase in the impedance of the ground conductor must be controlled. During lightning discharge conditions a low inductive impedance path is more important than a low DC resistance path.

- O. All grounding system conductors shall turn toward the ground source when attaching to a home run. Minimum bending radius of ground conductors shall be 8-inches. **Sharp bends will not be allowed.**
- P. All liquid tight flexible metal conduits shall include an external bonding jumper per the requirements of FAA STD 019e section 4.2.10.3. This bonding jumper shall be a #6 AWG stranded copper conductor. The bonding jumper shall terminate on approved grounding fittings at each end of the liquid tight flexible metal conduit or flexible metal conduit.

126-3.13 RESTORATION. Any and all trenches and disturbed areas will be backfilled and restored to a smooth grade and seeded to the satisfaction of the Engineer. All trench settlement or disturbed areas shall be corrected for a period of one year. Restoration, grading, and seeding of areas disturbed during the installation of the proposed AWOS will be incidental to the AWOS installation.

#### METHOD OF MEASUREMENT

126-4.1 The complete, turnkey, AWOS A-V, inspected, accepted, certified, and commissioned by the FAA and installed in accordance with the Plans and these Special Provisions with the spare parts, shall be paid for at the Contract unit price per lump sum for Item AR800908 AWOS A-V, Installed. The unit price shall be full compensation for furnishing all materials, equipment, tools, and labor to construct this item of work. The unit price shall also include full compensation for the installation of necessary equipment to transmit AWOS broadcasts via the VHF transmitter, furnishing all required testing and calibration equipment, and providing spare parts. This item shall also include all associated conduits, cables, wiring, grounding, underground duct, communications/data links; all charges, materials, and labor required to install and connect the telephone line(s) to the location(s) required by the type of system installed; and miscellaneous items as required.

- A. Furnishing and installing a UHF communication/data link from the AWOS site to the Terminal Building will be considered incidental to this item, and no additional compensation will be allowed.
- B. Work associated with the AWOS located at the Terminal Building will be considered incidental to this item, and no additional compensation will be allowed.
- C. Coordination of telephone service for the AWOS and associated work will be considered incidental to this item, and no additional compensation will be allowed. The respective City/Owner shall pay for all associated telephone utility company charges required to provide telephone service for the AWOS. The Contractor is not responsible for telephone utility charges associated with the proposed telephone service for the AWOS.
- D. AWOS site disconnect, power distribution block, surge protective device, circuit breaker panelboard, support structures, and associated equipment, materials, conduit, wiring and grounding will be considered incidental to this item, and no additional compensation will be allowed.
- E. Power and control wiring in conduit or duct from the AWOS Panelboard to the respective AWOS equipment, and power, control, or signal wiring in duct or conduit between AWOS equipment and/or control panels will be considered incidental to this item, and no additional compensation will be allowed.

- F. Furnishing and installing new electric feed in unit duct from the respective power source to the AWOS site will be paid for separately under Item 108.
- G. Fencing will be paid for separately under item 162. Gates will be paid for separately under item 162.

BASIS OF PAYMENT

126-5.1 Payment shall be made under:

Item AR800908 AWOS A-V, Installed - per lump sum.

DIVISION VII

TESTING

ITEM 611

COMPACTION CONTROL TESTS

The Work shall be provided in accordance with Item 611 of the Standard Specifications.

**EXHIBIT A**

Federal Aviation Administration Memo, dated October 10, 2012,  
Subject: Weather Equipment Usage Waiver for Federal Contract Tower and Non-FAA Control Towers





## Federal Aviation Administration

---

### Memorandum

Date: OCT 10 2012

To: Suzanne G. Alexander, Director, Eastern Terminal Operations, AJT-E  
Paul J. Sheridan, Director, Central Terminal Operations, AJT-C  
Ronald Fincher, Director, Western Terminal Operations, AJT-W

From: Jo L. Tarrh, Acting Director, Operations Support, AJW-1

Subject: Weather Equipment Usage Waiver for Federal Contract Towers and Non-FAA Control Towers

---

As you may be aware there is currently an issue before the Federal Aviation Administration (FAA) regarding standalone weather systems as used by non-FAA and Federal Contract Towers (FCT). This issue was precipitated by the identification of the limitations of one vendor's weather system that had been installed inappropriately at one site. Upon further investigation, it was determined that this was not a unique situation. This also led to the realization that primary and backup weather monitoring equipment criteria have not been adequately defined for the non-FAA and Federal contract control tower environments.

The need for accurate and reliable reporting of weather has been and will continue to be an FAA requirement. This information is needed for the safe and efficient operation of arriving and departing aircraft, as well as, efficient runway selection and use.

Given that the backup weather equipment is used for the same purpose as the primary equipment when it is not available, backup equipment should meet the same accuracy, siting, certification, maintenance, etc. criteria as the primary.

This waiver is issued in an effort to mitigate the impact of the interim solution advising air traffic controllers to incorporate JO 7210.3 alternate altimeter setting procedures and FAA Order 7900.5 weather reporting procedures for estimating wind and missing altimeter, temperature and dew point data.

With certain limitations, this waiver authorizes Federal Contract Towers and non-FAA control towers to continue using their existing weather equipment (with the exception of the previously barred Columbia Weather Orion Systems).

The attached waiver, FAA Weather Equipment Usage Waiver/Authorization, is effective immediately, and is valid for three years from the date of this waiver. The first two years are for the initial certification of weather equipment and revision of the non-Federal Automation Weather Observing System (AWOS) Advisory Circular, 150/5220-16, to include standalone weather equipment. The third year is to allow airports to become compliant with the revised advisory circular. A request for renewal of this waiver should be made no later than 100 days from the expiration date.

At the end of the waiver period, airports must have properly certified, inspected, commissioned primary and backup weather monitoring equipment.

If you have any questions or desire further information, please contact Dennis Kamin, AJW-1444, Non-Federal AWOS National Certification and Approval, at 405-954-1815.

**Memorandum Attachment:**

FAA Weather Equipment Usage Waiver/Authorization, dated September 24, 2012

Date: September 24, 2012

**FEDERAL AVIATION ADMINISTRATION  
WEATHER EQUIPMENT USAGE  
WAIVER/AUTHORIZATION**

**ISSUED TO:**

The Directors of Eastern, Central and Western Terminal Operations (AJT-E, AJT-C and AJT-W).

**AFFECTED DIRECTIVES:**

Federal Aviation Administration (FAA) Order JO 7210.3 alternate altimeter setting procedures and FAA Order 7900.5, weather reporting procedures for estimating wind and missing altimeter, temperature and dew point data.

**OPERATION(S) AUTHORIZED:**

With certain provisions and conditions, this waiver authorizes Federal Contract Towers and non-FAA control towers to continue to use their existing weather equipment (with the exception of the previously barred from use Columbia Weather Orion Systems).

**SPECIAL PROVISIONS AND CONDITIONS:**

In an effort to provide some level of near-term stability while the appropriate FAA organizations resolve the current issues and provide detailed guidance for the future, this waiver allows your existing weather monitoring equipment to continue to provide weather information. This waiver is valid for 36 months from the above date and has the following provisions:

- During the waiver period, your existing weather equipment is to be maintained and calibrated in accordance with FAA Orders 6700.20 and 6560.13 at least once a year.
- This waiver does not supersede the previously issued cease use letter (Attachment 1) for the Columbia Weather Orion System.

**General Considerations**

FAA experience to date has identified the systems and sensors listed in Attachment 2 that when sited properly are suitable for primary and backup weather equipment. This list will be updated periodically as additional acceptable systems and sensors are identified. (For the latest list, contact the non-Federal Automated Weather Observing System (AWOS) National Certification & Approval office at 405-954-8427.)

Sensors need to be traceable to a national standard (NIST) at the time of manufacture. More importantly, they need to be periodically recalibrated using NIST traceable standards in accordance with the AWOS sensor calibration criteria identified in FAA Order 6560.13.

Definitions

Automated System	An integrated automated weather system that is not in full compliance with the non-Federal AWOS advisory circular. It may provide direct readings from multiple weather sensors (i.e. not processed by any algorithms). It may not have archiving, broadcasting or other AWOS related criteria. Its sensors may not be properly sited.
Automation Weather Observing System (AWOS)	An integrated automated weather observing system that is in full compliance with the non-Federal AWOS advisory circular, including sensor siting. It provides readings from multiple weather sensors. It includes weather parameter calculations, archiving, broadcasting, etc. capabilities.
Stand Alone Equipment	One or more sensors and their displays, clustered together. The sensors may or may not be properly sited.
Stand Alone Sensor	A single sensor and its display. It may or may not be properly sited.
Weather Equipment	A general term encompassing any of the above configurations.

Minimum Weather Sensor Configuration

Primary:

- Wind Speed and Direction
- Altimeter
- Temperature/Dew Point
- Visibility
- Cloud Height and Coverage

Backup:

- Altimeter
  - Temperature/Dew Point
- (Systems used to backup an AWOS or Automated Surface Observing System (ASOS) do not require a Very High Frequency (VHF) transmitter.)

Please keep in mind, these systems and sensors must meet FAA acceptance criteria and must be properly sited, installed, maintained, calibrated, FAA inspected and annually revalidated. Failure to do so may result in their removal from service.

FAA Considerations and Activities to be Addressed During the Waiver Period

The Advisory Circular (AC) 150/5220-16, Automated Weather Observing Systems (AWOS) for Non-Federal Applications, will be augmented to thoroughly address the stand alone primary and backup weather sensor environment including sensor characteristics, installation practices, maintenance practices and inspection/calibration practices and to identify systems, sensors and equipment that meet the criteria of the revised AC.

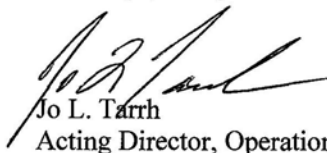
Airport Sponsor/FCT Assistance

To minimize the impact to existing facilities and expedite the development of the list of acceptable equipment we would like to first evaluate the weather equipment currently in use at control towers. To do this, we ask that you identify the primary and backup systems and sensors that are currently in use at your facility. Please complete the survey in Attachment 4 and return it to the office identified on the form.

This waiver is effective immediately, and is valid for three years from the date of this waiver. A request for renewal of this waiver should be made no later than 100 days from the expiration date.

If you have any questions or desire further information, please contact Dennis Kamin, AJW-1444, Non-Federal AWOS National Certification and Approval, at 405-954-1815.

As always, safety in the National Air Space (NAS) is of primary importance.



Jo L. Tarrh  
Acting Director, Operations Support, AJW-1

Waiver Attachments

1. Use of Non-FAA Approved Weather Equipment Memorandum and Sample Letter, dated February 29, 2012.
2. Acceptable Systems and Sensors Suitable for Primary and Backup Weather Equipment.
3. Certified Non-Federal AWOS Systems and Vendors, dated January 26, 2012.
4. Site Survey of Existing Systems and Sensors.

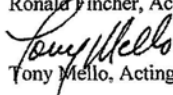
**Attachment 1: Use of Non-FAA Approved Weather Equipment Memorandum and Sample Letter**



**Federal Aviation  
Administration**

---

**Memorandum**

Date: FEB 29 2012  
To: Paul J. Sheridan, Director, Central Terminal Operations, AJT-C  
Suzanne G. Alexander, Director, Eastern Terminal Operations, AJT-E  
Ronald Fincher, Acting Director, Western Terminal Operations, AJT-W  
From:   
Tony Mello, Acting Director, Terminal Safety and Operations Support, AJT-2  
Subject: Use of Non-FAA Approved Weather Equipment

---

Over the past several years a number of new weather reporting systems have been developed in the private sector. While purchasing these systems may seem to be a cost effective way to provide weather information, the establishment and maintenance of non-Federal facilities, including Automated Weather Observing Systems (AWOS), are covered in FAA Order 6700.20(A), Non-Federal Navigational Aids and Air Traffic Control Facilities. The FAA has the responsibility and authority to regulate and inspect air navigation facilities, including aviation meteorological services.

It has come to our attention that the Orion system, produced by Columbia Weather Systems Inc., has been installed at several airports for use by FAA contracted airport traffic control towers (FCTs). This system has not been type certified in accordance with FAA Advisory Circular (AC) 150/5220-16D, AWOS for Non-Federal Applications. Additionally, this system does not comply with Federal AWOS specifications or with the applicable AC.

Based on this information, the FCT Program Office has advised the sponsors and vendors of FCTs to cease using equipment that does not meet FAA requirements. Because we do not know how many FCTs may have installed this equipment, it is difficult to assess the effect.

We ask that you pass this information on to the FAA ATC facilities within your area with the reminder that even though there are many products available (commercial, on-line, app or similar) only FAA approved systems are authorized to provide weather information.

If you have any questions or need further information, please contact Paul Armbruster, Terminal Requirements, at (202) 385-8933 or [Paul.Armbruster@faa.gov](mailto:Paul.Armbruster@faa.gov).



U.S. Department  
of Transportation  
Federal Aviation  
Administration

600 Independence Ave., SW.  
Washington, DC 20591

FEB 29 2012

Mr. David McCann  
Serco Management Services, Inc.  
633 East Vine Street  
Murfreesboro, TN 37130

Dear Mr. McCann:

Over the past several years a number of new weather reporting systems have been developed in the private sector. While purchasing these systems may seem to be a cost effective way to provide weather information, the establishment and maintenance of non-Federal facilities, including Automated Weather Observing Systems (AWOS), are covered in FAA Order 6700.20(A), Non-Federal Navigational Aids and Air Traffic Control Facilities. The FAA has the responsibility and authority to regulate and inspect air navigation facilities, including aviation meteorological services.

The FAA defines an AWOS as a computerized system that automatically measures one or more weather parameters, analyzes the data, prepares a weather observation that consists of the parameter(s) measured, and broadcasts the observation to the pilot using an integral very high frequency radio or an existing navigational aid which may provide long-line dissemination of the observations.

It has come to our attention that the Orion system, produced by Columbia Weather Systems Inc., has been installed at several airports for use by FAA contracted airport traffic control towers. This system has not been type certified in accordance with FAA Advisory Circular (AC) 150/5220-16D, AWOS for Non-Federal Applications. Additionally, this system does not comply with Federal AWOS specifications or with the applicable AC. The use of such equipment by FAA or FAA Contract Air Traffic Controllers must cease immediately.

If you have any questions or need further information, please contact Paul Armbruster, Terminal Requirements, at (202) 385-8933 or Paul.Armbruster@faa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Tony Mello".

Tony Mello  
Acting Director, Terminal Safety and Operations Support

Enclosure

cc: Priscilla Merritt, FCT Program Lead, AJT-2A1

An AWOS that has been manufactured, installed, and maintained according to the criteria in FAA Advisory Circular (AC)150/5220-16D constitutes a National Weather Service approved source for weather information; is approvable as a source of weather information that partially satisfies Federal Aviation Regulations; may be eligible to receive a broadcast frequency assignment or broadcast over a NAVAID; may be eligible to distribute its weather over the national weather network; and may be eligible for funding under Federal grant programs.

FAA AC 150/5220-16D, Chapter 2, Section 5 describes the certification process as follows:

**PROCESS OVERVIEW.** In order to provide confidence in the quality of the meteorological data that the AWOS provides to users in the aviation community, the FAA has initiated a three-part AWOS certification and commissioning process.

- a. The manufacturer should provide the FAA with the test data and other documentation to demonstrate that the AWOS system meets the criteria of this AC (Paragraph 6, type approval). Upon completion of all the requirements set forth in this manual, the FAA grants approval to the specific system documented in the request.
- b. Prospective sponsors (owners) wanting to install an AWOS system for public use should closely coordinate their plans with the FAA regional non-Federal facilities program manager (this person may be called the non-Federal coordinator in some regions) and follow the procedures provided. FAA (Order 6700.20(A)) requires that a Memorandum of Understanding (MOU) and an Operations and Maintenance Manual (OMM) be established and agreed to between the sponsor and the FAA prior to commissioning the AWOS for public use. The MOU/OMM is used to ensure that there is a mutual understanding of what is required to operate and maintain a commissioned AWOS system. After the AWOS is installed on site, and the MOU/OMM is signed, the FAA conducts a commissioning ground inspection to verify that the system is installed and operating correctly and that the owner has the resources to maintain the system in proper operating condition (Paragraph 11, facility commissioning). A flight inspection is required for NAVAIDS and used for AWOS dissemination. This process should be successfully completed for the AWOS to be commissioned by the FAA and to be authorized to operate.
- c. Finally, there may be periodic visits to the operating AWOS by the FAA and other technical representatives to verify that the system continues to operate correctly. Guidance for these visits may be found in Paragraph 14 (Ongoing System Validation) and Chapter 4 (Minimum Operating Requirements) of this AC, the facility MOU/OMM, and the FAA Order 6700.20(A).



**Attachment 2: Acceptable Systems and Sensors Suitable for Primary and Backup Weather Equipment**

The most recent version of this list should be used when acquiring equipment during the waiver period.

Existing Federal Aviation Administration (FAA) Equipment:

In general, FAA equipment that was inherited during the transition from an FAA control tower to a FAA contract control tower is acceptable, provided it is maintained, inspected and calibrated in accordance with FAA Order 6560.13.

The following is an incomplete list. Please contact AJW-1444 for the current list or if you have any questions regarding the suitability of a particular device.

Non-Federal AWOS Systems:

See the enclosed list of non-Federal Automated Weather Observing System (AWOS) certified vendors and systems (Attachment 3).

Stand Alone Weather Equipment and Sensors:

Parameter	Vendor	Model No.	Notes
Altimeter*	Setra	370	This only has one pressure sensor.
	DME	DASI	Currently not in production
Temperature/ Dewpoint			
Wind			
Cloud Height and Coverage			

\*Please note, the altimeter's pressure sensor must be installed in a suitable environment and properly ported to the outside. Also, the elevation of the sensor must be accurately entered into the device.

If you are considering a sensor not currently on this list, please keep in mind that it must pass the evaluation criteria identified in FAA Advisory Circular 150/5220-16. Please contact AJW-1444 for further information.

**Attachment 3: Certified Non-Federal Automated Weather Observing System (AWOS) Systems and Vendors as of January 26, 2012**

This list is provided to identify the non-Federal AWOS certified manufacturers as of January 26, 2012. Unless specifically identified otherwise, these complete, integrated systems and vendors have been approved in accordance with Revision C of Federal Aviation Administration (FAA) Advisory Circular 150/5220-16, Automated Weather Observing Systems (AWOS) for Non-Federal Applications. As of April 28, 2011, the current approved revision of this Advisory Circular is Revision D.

This list will be updated as needed. It may not be used as the means for determining whether bidders are responsive. Airport sponsors and consultants must verify with the FAA the current list of certified non-Federal AWOS manufacturers and systems when preparing bid documents. (Printed/downloaded copies of this list are not valid for procurement purposes.)

Please note, if a site is acquiring a non-Federal AWOS as a backup to another system, the backup AWOS's Very High Frequency (VHF) transmitter must be removed or disabled and a site specific waiver issued by AJW-1444 exempting it from the Advisory Circulars (AC) VHF transmitter criteria.

Non-Fed AWOS System Definitions <sup>1</sup>	Certified Data <sup>2</sup>	All Weather, Inc.	Belfort Instrument Co.	Mesotech International	Vaisala Inc. <sup>4</sup>
AWOS A	Altimeter setting	X	X	X	X
AWOS A / V	Altimeter setting, visibility	X <sup>5</sup>	X		X <sup>5</sup>
AWOS I	Wind speed, wind direction, wind gust, variable wind direction, temperature, dew point, altimeter setting, and density altitude	X		X	X
AWOS II	Same as AWOS I plus visibility, and variable visibility	X			X
AWOS III <sup>3</sup>	Same as AWOS I plus visibility, variable visibility, cloud height, and sky condition	X			X
AWOS III P <sup>3</sup>	Same as AWOS III plus present weather identification	X			X
AWOS III T <sup>3</sup>	Same as AWOS III plus thunderstorm/lightning reporting	X			X
AWOS III P/T <sup>3</sup>	Same as AWOS III plus present weather identification and thunderstorm/lightning reporting	X			X
AWOS III P/T/Z <sup>3</sup>	Same as AWOS III plus	X			X

Non-Fed AWOS System Definitions <sup>1</sup>	Certified Data <sup>2</sup>	All Weather, Inc.	Belfort Instrument Co.	Mesotech International	Vaisala Inc. <sup>4</sup>
	present weather identification, thunderstorm/lightning reporting, and freezing rain detection				
AWOS IV <sup>3</sup>	Same as AWOS III plus present weather identification, thunderstorm/lightning reporting, freezing rain detection, and runway condition detection				X

Notes:

- These system definitions are based on information found in FAA Advisory Circular (AC) 150/5220-16C, Automated Weather Observing Systems (AWOS) For Non-Federal Applications. This AC also contains site implementation and maintenance criteria that must be met before the installed system can be commissioned and become an approved source of aviation weather information.
- In addition to providing the identified certified information, AWOS systems may also provide additional, uncertified (“Advisory”) information.
  - Advisory weather parameters are not verified or certified by the FAA and is not approved for aviation use.
  - Any uncertified weather information (measured or calculated), e.g. density altitude or wind speed and direction on an AWOS A system, is advisory and must be preceded by the word, “Advisory” in all automated verbal transmissions (radio or phone line).
  - Advisory sensors may or may not be located in accordance with the siting criteria, Order 6560.20.
  - Advisory parameters may or may not adhere to the criteria (definitions, accuracy, reliability, etc.) identified in FAA Advisory Circular 150/5220-16C.
- In accordance with FAA Advisory Circular 150/5220-16C, non-Fed AWOS systems meeting the AWOS III (or better) criteria may be eligible for dissemination of certified weather information nationally via the ADAS. Please refer to the advisory circular as additional criteria do apply.
- A waiver to Buy American Preference Requirements on AIP projects through December, 2012 was issued to Vaisala for AWOS I, II, III and above on December 27, 2007. All Vaisala AWOS III or above may include runway condition sensors. (The waiver excludes the Vaisala AWOS A and A/V, which are certified.)
- The AWOS-II is certified to provide AWOS-A/V information (altimeter setting and visibility).

**Attachment 4: Site Survey of Existing Systems and Sensors**

Please return this completed form to the Non-Federal Automation Weather Observing System (AWOS) National Certification & Approval Office via fax 405-954-0750 or you can scan it and email it to dennis.kamin@faa.gov.

If you have any questions, please contact Dennis Kamin at 405-954-1815 or by email at dennis.kamin@faa.gov.

Airport ID: \_\_\_\_\_

What is your name and phone number (in case we have questions)?

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

1. Who gathers and uses the weather information? (Circle all that apply.)

- Controller directly
- LAWRS who provides it to the controllers
- CWO who provides it to the controllers
- Other \_\_\_\_\_

If the controllers don't receive the information directly, how is it conveyed to them?

\_\_\_\_\_

2. Was any of this equipment provided by the FAA? (e.g. during the transition of an FAA tower to a contract tower) \_\_\_\_\_

If so what? \_\_\_\_\_

3. What automated weather monitoring systems do you have? (Circle all that apply.)

Federal AWOS	Non-Federal AWOS	Other: _____
Federal ASOS	Non-Federal ASOS	
Federal SAWS	Non-Federal SAWS	
Federal AWSS	Non-Federal AWSS	

4. What sensors do you have?

Wind speed and direction:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Temperature and dewpoint (or humidity):

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Barometric pressure:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Sky condition (ceiling and cloud cover):

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Visibility:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Rain gauge:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Present weather:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Other sensors:

Primary:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

Backup:

Make \_\_\_\_\_

Model \_\_\_\_\_

Sensor location \_\_\_\_\_

Display device \_\_\_\_\_

5. Where are the weather information displays located? \_\_\_\_\_

6. Who is responsible for maintaining and inspecting your weather equipment:

Name \_\_\_\_\_ Title \_\_\_\_\_

Phone \_\_\_\_\_

What are their credentials? \_\_\_\_\_

7. When was maintenance, inspection or calibration last performed on your weather equipment?

Primary: \_\_\_\_\_

Backup: \_\_\_\_\_



**Federal Aviation  
 Administration**

**Memorandum**

Date

To: Suzanne G. Alexander, Director, Eastern Terminal Operations, AJT-E  
 Paul J. Sheridan, Director, Central Terminal Operations, AJT-C  
 Ronald Fincher, Director, Western Terminal Operations, AJT-W

From: Jo Tarrh, Acting Director, Operations Support, AJW-1

Subject: Weather Equipment Usage Waiver for Federal Contract Towers and Non-FAA Control Towers

As you may be aware there is currently an issue before the Federal Aviation Administration (FAA) regarding standalone weather systems as used by non-FAA and Federal Contract Towers (FCT). This issue was precipitated by the identification of the limitations of one vendor's weather system that had been installed inappropriately at one site. Upon further investigation, it was determined that this was not a unique situation. This also led to the realization that primary and backup weather monitoring equipment criteria have not been adequately defined for the non-FAA and Federal contract control tower environments.

The need for accurate and reliable reporting of weather has been and will continue to be an FAA requirement. This information is needed for the safe and efficient operation of arriving and departing aircraft, as well as, efficient runway selection and use.

Given that the backup weather equipment is used for the same purpose as the primary equipment when it is not available, backup equipment should meet the same accuracy, siting, certification, maintenance, etc. criteria as the primary.

This waiver is issued in an effort to mitigate the impact of the interim solution advising air traffic controllers to incorporate JO 7210.3 alternate altimeter setting procedures and FAA Order 7900.5 weather reporting procedures for estimating wind and missing altimeter, temperature and dew point data.

With certain limitations, this waiver authorizes Federal Contract Towers and non-FAA control towers to continue using their existing weather equipment (with the exception of the previously barred from use Columbia Weather Orion Systems).

CONCURRENCE	
ROUTING SYMBOL	AJW-1444
INITIALS/SIG	D. S. AMLEY D. S. AMLEY
DATE	9/25/2012
ROUTING SYMBOL	AJW-144
INITIALS/SIG	R. B. AVAR R. B. AVAR
DATE	9/25/2012
ROUTING SYMBOL	AJW-1440
INITIALS/SIG	H. L. DENSI H. L. DENSI
DATE	09/25/12
ROUTING SYMBOL	AJW-140
INITIALS/SIG	T. D. LAVI T. D. LAVI
DATE	9/26/12
ROUTING SYMBOL	AJW-137
INITIALS/SIG	J. WALLER J. WALLER
DATE	9/27/12
ROUTING SYMBOL	AJW-13
INITIALS/SIG	K. TAYLOR K. TAYLOR
DATE	9-27-12
ROUTING SYMBOL	AJW-1
INITIALS/SIG	J. TARRH J. TARRH
DATE	10/10/12
ROUTING SYMBOL	
INITIALS/SIG	
DATE	



(THIS PAGE INTENTIONALLY LEFT BLANK)

(END OF SPECIAL PROVISIONS)



Hanson Professional Services Inc.  
815 Commerce Drive, Suite 200  
Oak Brook, Illinois 60523  
630.990.3800