

RETURN WITH BID

LETTING DATE June 17, 2005

ITEM NUMBER 11A

Proposal Submitted By

Name

Address

City/State

Zip Code

Telephone Number

FEIN Number

FAX Number

BIDDERS NEED NOT RETURN THE ENTIRE PROPOSAL
(See instructions inside front cover)

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.
(SEE INSTRUCTIONS ON THE INSIDE OF COVER)

PROPOSAL COVER SHEET



AIRPORT Waukegan Regional

MUNICIPAL DESIGNATION Waukegan

COUNTY DESIGNATION Lake

ILLINOIS PROJECT NO. UGN-3499

FEDERAL PROJECT NO. 3-17-0105-B30

PLEASE MARK THE APPROPRIATE BOX BELOW:

A Bid Bond is included.

A Cashier's Check or a Certified Check is included.

INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT’s Central Bureau of Construction.

HOW MANY PROPOSALS SHOULD PROSPECTIVE BIDDERS REQUEST?: Prospective bidders should, prior to submitting their initial request for plans and proposals, determine their needs and request the total number of plans and proposals needed for each item requested. There will be a nonrefundable charge of \$15 for each set of plans and specifications issued.

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.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a “Request for Proposal Forms and Plans” 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 a **Proposal Denial and/or Authorization Form**, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If **Authorization to Bid** cannot be approved, the **Proposal Denial and/or Authorization Form** will indicate the reason for denial. If a contractor has requested to bid but has not received a **Proposal Denial and/or Authorization Form**, they should contact the Central Bureau of Construction in advance of the letting date.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806



1. Proposal of _____

for the improvement officially known as:

- (a) Waukegan Regional Airport
- (b) The proposed improvement shown in detail on the plans issued by the Department schedule and detail sheets included herein, includes, in general, the following described work:

Repair selected pavement areas, rehabilitate hangar taxilanes and service roads, and construct new hangar pavements.

TO THE DEPARTMENT OF TRANSPORTATION

2. The plans for the proposed work are those issued by the Department of Transportation to cover the work described above.

The specifications are those prepared by the Department of Transportation, Division of Aeronautics and designated as "Standard Specifications for Construction of Airports," adopted January, 1985, the "Supplemental Specifications and Recurring Special Provisions," adopted July 1, 2004 and the "Special Provisions" thereto, adopted and in effect on the date of invitation for bids.

3. **COMPLETION TIME/LIQUIDATED DAMAGES.** 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 125 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 below, 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. The following Schedule of Deductions supersedes the table given in Section 60-09 of the Division's Standard Specifications for Construction of Airports.

Schedule of Deductions for Each Day of Overrun in Contract Time

<u>Original Contract Amount</u>		<u>Daily Charge</u>
<u>From More Than</u>	<u>To and Including</u>	<u>Calendar Day</u>
\$ 0	\$ 25,000	\$ 300
25,000	100,000	375
100,000	500,000	550
500,000	1,000,000	725
1,000,000	2,000,000	900
2,000,000	3,000,000	1,100
3,000,000	5,000,000	1,300
5,000,000	7,500,000	1,450
7,500,000	10,000,000	1,650

A daily charge shall be made for every day shown on the calendar beyond the specified contract time in calendar days.

RETURN WITH BID

4. **ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER.** The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, supplemental and applicable recurring special provisions, form of contract and contract bonds, 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 proposal he/she waives all right to plead any misunderstanding regarding the same.

5. **EXECUTION OF CONTRACT AND CONTRACT BONDS.** The undersigned 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 bonds satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract and guaranteeing payment in full all bills and accounts for materials and labor used in the construction of the work.

6. **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	to \$5,000\$150	\$2,000,000	to \$3,000,000 \$100,000
\$5,000	to \$10,000\$300	\$3,000,000	to \$5,000,000 \$150,000
\$10,000	to \$50,000\$1,000	\$5,000,000	to \$7,500,000 \$250,000
\$50,000	to \$100,000\$3,000	\$7,500,000	to \$10,000,000 \$400,000
\$100,000	to \$150,000\$5,000	\$10,000,000	to \$15,000,000 \$500,000
\$150,000	to \$250,000\$7,500	\$15,000,000	to \$20,000,000 \$600,000
\$250,000	to \$500,000\$12,500	\$20,000,000	to \$25,000,000\$700,000
\$500,000	to \$1,000,000\$25,000	\$25,000,000	to \$30,000,000 \$800,000
\$1,000,000	to \$1,500,000\$50,000	\$30,000,000	to \$35,000,000 \$900,000
\$1,500,000	to \$2,000,000\$75,000	over	\$35,000,000 \$1,000,000

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the Treasurer, State of Illinois, when the state is awarding authority; the county treasurer, when a county is the awarding authority; or the city, village, or town treasurer, when a city, village, or town is the awarding authority.

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 shall fail to execute contract bonds as required herein, it is hereby agreed that the amount of the proposal guaranty shall 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 bonds; otherwise, the bid bond shall become void or the proposal guaranty check shall be returned to the undersigned.

RETURN WITH BID

(e) The plans and Special Provisions for each separate contract shall be construed separately for all requirements, except as described in paragraphs (a) through (d) listed above.

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

8. **SCHEDULE OF PRICES.** The undersigned submits herewith his/her schedule of prices covering the work to be performed under this contract; he/she understands that he/she must show in the schedule the unit prices (with no more than two decimal places, i.e. \$25.35, not \$25.348) for which he/she proposes to perform each item of work, that the extensions must be made by him/her, and that if not so done his/her proposal may be rejected as irregular.

The undersigned further agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum, and for use in computing the value of additions and deductions; that if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall govern.

STATE JOB #- - - -

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - WA055

ECMS002 DTGECM03 ECMR003 PAGE 1
 RUN DATE - 05/19/05
 RUN TIME - 202835

COUNTY NAME	CODE	DIST	AIRPORT NAME	FED PROJECT	ILL PROJECT
LAKE	097	01	WAUKEGAN REGIONAL	3-17-0105-B30	UG-N -3499

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR110504	4-WAY CONCRETE ENCASED DUCT	L.F.	124.000 X		=		
AR125941	ADJUST STAKE MOUNTED LIGHT	EACH	4.000 X		=		
AR125961	RELOCATE STAKE MOUNTED LIGHT	EACH	1.000 X		=		
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1.000 X		=		
AR151450	CLEARING AND GRUBBING	ACRE	0.120 X		=		
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	5,315.000 X		=		
AR156510	SILT FENCE	L.F.	2,511.000 X		=		
AR156513	SEPARATION FABRIC	S.Y.	7,048.000 X		=		
AR162506	CLASS E FENCE 6'	L.F.	358.000 X		=		
AR162605	CLASS E GATE-5'	EACH	1.000 X		=		
AR162728	ELECTRIC GATE-28'	EACH	1.000 X		=		
AR201610	BITUMINOUS BASE COURSE	TON	2,018.000 X		=		
AR201620	BITUMINOUS BASE COURSE, LEVELING	TON	140.000 X		=		
AR201630	BITUMINOUS BASE TEST SECTION	EACH	1.000 X		=		
AR209610	CRUSHED AGG. BASE COURSE - 10"	S.Y.	8,663.000 X		=		

WAUKEGAN REGIONAL
LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - WA055

ECMS002 DTGECM03 ECMR003 PAGE 2
RUN DATE - 05/19/05
RUN TIME - 202835

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR401610	BITUMINOUS SURFACE COURSE	TON	2,028.000 X		=		
AR401630	BITUMINOUS SURFACE TEST SECTION	EACH	1.000 X		=		
AR401650	BITUMINOUS PAVEMENT MILLING	S.Y.	2,565.000 X		=		
AR401660	SAW & SEAL BIT. JOINTS	L.F.	1,605.000 X		=		
AR401665	BITUMINOUS PAVEMENT SAWING	L.F.	1,761.000 X		=		
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	7,235.000 X		=		
AR401910	REMOVE & REPLACE BIT. PAVEMENT	S.Y.	2,051.000 X		=		
AR401916	REM & REP BIT PAVEMENT - TYPE B	S.Y.	346.000 X		=		
AR501665	PCC PAVEMENT SAWING	L.F.	148.000 X		=		
AR501910	REMOVE & REPLACE PCC PAVEMENT	S.Y.	75.000 X		=		
AR602510	BITUMINOUS PRIME COAT	GAL.	5,241.000 X		=		
AR603510	BITUMINOUS TACK COAT	GAL.	3,125.000 X		=		
AR605540	CLEAN & SEAL JOINTS	L.F.	13,725.000 X		=		
AR605541	CLEAN & SEAL CRACKS	L.F.	600.000 X		=		
AR620530	PAVEMENT MARKING-EPOXY	S.F.	6,157.000 X		=		

WAUKEGAN REGIONAL
LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - WA055

ECMS002 DTGECM03 ECMR003 PAGE 3
RUN DATE - 05/19/05
RUN TIME - 202835

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR701008	8" PVC STORM SEWER	L.F.	139.000 X		=		
AR701512	12" RCP, CLASS IV	L.F.	463.000 X		=		
AR701515	15" RCP, CLASS IV	L.F.	237.000 X		=		
AR701518	18" RCP, CLASS IV	L.F.	145.000 X		=		
AR701524	24" RCP, CLASS IV	L.F.	950.000 X		=		
AR701900	REMOVE PIPE	L.F.	41.000 X		=		
AR705412	POROUS BACKFILL NO. 2	C.Y.	226.000 X		=		
AR705504	4" PERFORATED UNDERDRAIN	L.F.	2,387.000 X		=		
AR705544	4" NON PERFORATED UNDERDRAIN	L.F.	933.000 X		=		
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	4.000 X		=		
AR705640	UNDERDRAIN CLEANOUT	EACH	8.000 X		=		
AR751410	INLET	EACH	3.000 X		=		
AR751540	MANHOLE 4'	EACH	7.000 X		=		
AR751550	MANHOLE 5'	EACH	6.000 X		=		
AR751943	ADJUST MANHOLE	EACH	2.000 X		=		

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ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - WA055

ECMS002 DTGECM03 ECMR003 PAGE 4
RUN DATE - 05/19/05
RUN TIME - 202835

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR751946	ADJUST CATCH BASIN	EACH	2.000 X		=		
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	1.000 X		=		
AR752512	GRATING FOR CONC. FES 12"	EACH	1.000 X		=		
AR800203	TRAFFIC BARRIER TERMINAL	EACH	1.000 X		=		
AR800330	TRAFFIC CONTROL	L.S.	1.000 X		=		
AR800901	BITUMINOUS PRESSURE RELIEF JOINT	EACH	1.000 X		=		
AR800915	AIRFIELD CABLE IN UNIT DUCT	L.F.	324.000 X		=		
AR800927	GRANULAR DRAINAGE SUBBASE - 4"	S.Y.	7,048.000 X		=		
AR800932	RUNWAY CLOSURE MARKER-SET	EACH	1.000 X		=		
AR800937	CONSERVATION COVER	ACRE	1.600 X		=		
AR800972	BITUMINOUS SAND MIX - 2"	S.Y.	55.000 X		=		
AR800973	CRACK CONTROL MATERIAL	L.F.	122.000 X		=		
AR800996	CRACK CONTROL MATERIAL - TYPE 2	S.Y.	2,540.000 X		=		
AR901510	SEEDING	ACRE	2.050 X		=		
AR904510	SODDING	S.Y.	11.000 X		=		

WAUKEGAN REGIONAL
LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF PRICES
CONTRACT NUMBER - WA055

ECMS002 DTGECM03 ECMR003 PAGE 5
RUN DATE - 05/19/05
RUN TIME - 202835

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
AR905510	TOPSOILING (FROM ON SITE)	C.Y.	430.000 X		=		
AR905520	TOPSOILING (FROM OFF SITE)	C.Y.	514.000 X		=		
AR908510	MULCHING	ACRE	2.050 X		=		
AR910230	HANDICAP SIGN	EACH	1.000 X		=		
AR910400	GUARD RAIL	L.F.	177.000 X		=		
AR910975	RELOCATE ROADWAY SIGN	EACH	3.000 X		=		
				TOTAL	\$		

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

THE PRECEDING SCHEDULE OF PRICES MUST BE

COMPLETED AND RETURNED.

RETURN WITH BID

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

I. GENERAL

A. Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, 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. 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 termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

B. Felons

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any state agency 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.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

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 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$145,877.00. Sixty percent of the salary is \$87,526.20.

2. 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.

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

(a) 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.

2. 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.

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E. Inducements

1. The Illinois Procurement Code provides:

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 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 or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. 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.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, 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.

2. 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.

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, 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 chief procurement officer.

2. 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 is submitted.

H. Confidentiality

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, 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.

2. 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

I. Insider Information

1. The Illinois Procurement Act provides:

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.

2. 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.

III. CERTIFICATIONS

A. 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. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Bribery

1. The Illinois Procurement Code provides:

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 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, 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 1961.

(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 shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

RETURN WITH BID

C. Educational Loan

1. Section 3 of the Educational Loan Default Act provides:

§ 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

2. 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.

D. Bid-Rigging/Bid Rotating

1. Section 33E-11 of the Criminal Code of 1961 provides:

§ 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. The State and units of local government shall provide the appropriate forms for such certification.

(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.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 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 permanently barred 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.

2. 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.

E. International Anti-Boycott

1. Section 5 of the International Anti-Boycott Certification Act provides:

§ 5. State contracts. 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.

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

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F. Drug Free Workplace

1. 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.

2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor’s workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor’s policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.

(c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.

(d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.

(e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.

(g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

G. Debt Delinquency

1. The Illinois Procurement Code provides:

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

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency 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 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 contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

RETURN WITH BID

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code provides:

Section 50-60(c).

The contractor 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 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency 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 contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

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 Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, 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 Illinois Procurement Code provides that all bids of more than \$10,000 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.

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. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person 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 person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

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. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid or incorporated by reference.**

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may sign the following certification statement indicating that the information previously submitted by the bidder is, as of the date of signature, current and accurate. The Certification must be signed and dated by a person who is authorized to execute contracts for the bidding company. Before signing this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder signs the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure information previously submitted is current and accurate, and all forms are hereby incorporated by reference in this bid. Any necessary additional forms or amendments to previously submitted forms are attached to this bid.

(Bidding Company)

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

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 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 the second page of Form A must be signed and dated by a person 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 \$87,526.20? YES _____ NO _____
3. Does anyone in your organization receive more than \$87,526.20 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 \$87,526.20? YES _____ NO _____

(Note: Only one set of forms needs to be completed per person 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 a person that is authorized to execute contracts for your organization. **Photocopied or stamped signatures are not acceptable.** The person signing can be, but does not have to be, the person 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 on page 2 of Form A must be signed and dated by a person that is authorized to execute contracts for your company.

Form B: Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by the bidding entity. It must be signed by an individual who is authorized to execute contracts for the bidding entity. *Note: Signing the NOT APPLICABLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, signed 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 signature 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.

D. Bidders Submitting More Than One Bid

Bidders submitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. Please indicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms by reference.

- The bid submitted for letting item _____ contains the Form A disclosures or Certification Statement and the Form B disclosures. The following letting items incorporate the said forms by reference:

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

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

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

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement 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 \$10,000, and for all open-ended contracts. **A publicly traded company may submit a 10K disclosure in satisfaction of the requirements set forth in Form A. See Disclosure Form Instructions.**

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 \$87,526.20 (60% of the Governor’s salary as of 10/1/2000). **(Make copies of this form as necessary and attach a separate Disclosure Form A for each individual meeting these requirements)**

FOR INDIVIDUAL (type or print information)	
NAME:	_____
ADDRESS	_____
Type of ownership/distributable income share:	
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 _____

(b) State employment of spouse, father, mother, son, or daughter, including contractual employment for services in the previous 2 years.
 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 _____

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(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 _____

(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 _____

APPLICABLE STATEMENT

This Disclosure Form A is submitted on behalf of the INDIVIDUAL named on previous page.

Completed by:

Name of Authorized Representative (type or print)

Completed by:

Title of Authorized Representative (type or print)

Completed by:

Signature of Individual or Authorized Representative

Date

NOT APPLICABLE STATEMENT

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.

Name of Authorized Representative (type or print)

Title of Authorized Representative (type or print)

Signature of Authorized Representative

Date

**ILLINOIS DEPARTMENT
OF TRANSPORTATION**

**Form B
Other Contracts &
Procurement Related Information
Disclosure**

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

Disclosure of the information contained in this Form is required by the Section 50-35 of the Illinois Procurement Act (30 ILCS 500). This information shall become part of the publicly available contract file. This Form B must be completed for bids in excess of \$10,000, and for all open-ended contracts.

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 the bottom of 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 SIGNED

Name of Authorized Representative (type or print)	

Title of Authorized Representative (type or print)	
_____	_____
Signature of Authorized Representative	Date

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SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights' Rules and Regulations 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 Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. 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.



PART I. IDENTIFICATION

Human Rights

Bid Number: _____ 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												
TOTAL												

TABLE B
CURRENT EMPLOYEES TO BE ASSIGNED TO CONTRACT

TOTAL EMPLOYEES		MINORITY EMPLOYEES	
M	F	M	F

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.
Note: See instructions on page 2

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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 **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

CERTIFICATIONS REQUIRED BY STATE AND/OR FEDERAL LAW. The bidder is required by State and/or Federal law to make the below certifications and assurances as a part of the proposal and contract upon award. It is understood by the bidder that the certifications and assurances made herein are a part of the contract.

By signing the Proposal Signature Sheet, the bidder certifies that he/she has read and completed each of the following certifications and assurances, that required responses are true and correct and that the certified signature of the Proposal Signature Sheet constitutes an endorsement and execution of each certification and assurance as though each was individually signed:

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 answer to #1 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 _____

C. **BUY AMERICAN - STEEL AND MANUFACTURED PRODUCTS FOR CONSTRUCTION CONTRACTS (JAN 1991)**

(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. The following terms apply:

1. Steel and manufactured products. As used in this clause, steel and manufactured products include (1) steel produced in the United States or (2) a manufactured product produced in the United States, if the cost of its components mined, produced or manufactured in the United States exceeds 60 percent of the cost of all its components and final assembly has taken place in the United States. Components of foreign origin of the same class or kind as the products referred to in subparagraphs (b)(1) or (2) shall be treated as domestic.

2. Components. As used in this clause, components means those articles, materials, and supplies incorporated directly into steel and manufactured products.

3. Cost of Components. This means the costs for production of the components, exclusive of final assembly labor costs.

(b) The successful bidder will be required to assure that only domestic steel and manufactured products will be used by the Contractor, subcontractors, materialmen, and suppliers in the performance of this contract, except those-

- (1) that the U.S. Department of Transportation 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 of a satisfactory quality;

- (2) that the U.S. Department of Transportation has determined, under the Aviation Safety and Capacity Expansion Act of 1990, that domestic preference would be inconsistent with the public interest; or

- (3) that inclusion of domestic material will increase the cost of the overall project contract by more than 25 percent.

(End of Clause)

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D. BUY AMERICAN CERTIFICATE (JAN 1991)

By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel and each manufactured product, is produced in the United States (as defined in the clause Buy American - Steel and Manufactured Products or Buy American - Steel and Manufactured Products For Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

Offerors may obtain from (IDOT, Division of Aeronautics) lists of articles, materials, and supplies excepted from this provision.

PRODUCT

COUNTRY OF ORIGIN

E. 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 five or more acres total land area.

The undersigned 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).

F. NON-APPROPRIATION CLAUSE

By submitting a bid/proposal under this solicitation the offeror certifies that he/she understands that obligations of the State will cease immediately without penalty or further payment being required in any fiscal year the Illinois General Assembly fails to appropriate or otherwise make available sufficient funds for this contract.

G. Contractor is not delinquent in the payment of any debt to the State (or if delinquent has entered into a deferred payment plan to pay the debt), and Contractor acknowledges the contracting state agency may declare the contract void if this certification is false (30 ILCS 500/50-11, effective July 1, 2002).

RETURN WITH BID

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 at the Harry R. Hanley Building, 2300 South Dirksen Parkway in Springfield, Illinois until 10:00 o'clock a.m., June 17, 2005. 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 the 10:00 a.m. cut off time.
2. **DESCRIPTION OF WORK.** The proposed improvement, shown in detail on the plans issued by the Department includes, in general, the following described work:

Repair selected pavement areas, rehabilitate hangar taxilanes and service roads, and construct new hangar pavements.
3. **INSTRUCTIONS TO BIDDERS.** (a) This Notice, the invitation for bids, proposal and award shall, together with all other documents in accordance with Article 10-15 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 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 Waukegan Regional Airport administration building. For engineering information, contact Ron Hudson of Hanson Professional Services, Inc. at (630) 990-3800.
6. **DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 9.0%.
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 May 6, 2005 and the Construction Plans dated May 6, 2005 as approved by the Department of Transportation, Division of Aeronautics.

RETURN WITH BID

- 8. INSPECTION OF RECORDS.** The Contractor shall maintain an acceptable cost accounting system. The Sponsor, the FAA, and the Comptroller General of the United States shall have access to any books, documents, paper, and records of the Contractor which are directly pertinent to the specific contract for the purposes of making an audit, examination, excerpts, and transcriptions. The Contractor shall maintain all required records for three years after the Sponsor makes final payment and all other pending matters are closed.
- 9. RIGHTS TO INVENTIONS.** All rights to inventions and materials generated under this contract are subject to Illinois law and to regulations issued by the FAA and the Sponsor of the Federal grant under which this contract is executed. Information regarding these rights is available from the FAA and the Sponsor.
- 10. TERMINATION OF CONTRACT.**
1. 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 shall 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.
 2. If the termination is for the convenience of the Sponsor, an equitable adjustment in the contract price shall be made, but no amount shall be allowed for anticipated profit on unperformed services.
 3. 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 shall be liable to the Sponsor for any additional cost occasioned to the Sponsor thereby.
 4. If, after notice of termination for failure to fulfill contract obligations, it is determined that the Contractor had not so failed, the termination shall be deemed to have been effected for the convenience of the Sponsor. In such event, adjustment in the contract price shall be made as provided in paragraph 2 of this clause.
 5. 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.

RETURN WITH BID

11. 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.

12. 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 125 calendar days and is based on anticipated notice-to-proceed date of July 29, 2005.

13. 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.

14. 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.

RETURN WITH BID

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 4 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 _____

Corporate Seal

By _____

President

(IF A CORPORATION)

Attest _____

Corporate Secretary

Business Address _____

Name of Corporate Officers:

President Corporate Secretary Treasurer

NOTARY CERTIFICATION

STATE OF ILLINOIS,

ALL SIGNATURES MUST BE NOTARIZED

COUNTY OF _____

I, _____, a Notary Public in and for said county, do hereby certify that _____

_____ AND _____

(Insert names of individual(s) signing on behalf of bidder)

who are each personally known to me to be the same persons whose names are subscribed to the foregoing instrument on behalf of the bidder, appeared before me this day in person and acknowledged that they signed, sealed, 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 _____ (Seal)

Notary Public



Return with Bid

Division of Aeronautics
Proposal Bid Bond
(Effective January 1, 2002)

Item No. 11A
Letting Date: June 17, 2005

Airport: Waukegan Regional Airport
Ill. Proj. No. UGN-3499
Fed. Proj. No. 3-17-0105-B30

KNOW ALL MEN BY THESE PRESENTS. that we, _____, as PRINCIPAL, and _____, as SURETY are held and firmly bound unto the, hereinafter called the SPONSOR, in the penal sum of 5 percent of the total bid price or of the amount specified in Section 6, PROPOSAL GUARANTEE of the Proposal Document, whichever is the lesser sum, well and truly to be paid unto the said SPONSOR, for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THIS 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 PRINCIPAL shall within the time and as specified in the Bidding and Contract Documents, submit the DBE Utilization Plan that is acceptable and approved by the AGENT, and if after the award, the PRINCIPAL shall enter into a contract in accordance with the terms of the Bidding and Contract Documents including evidence of insurance coverage's and providing such bond as specified with good and sufficient surety for the faithful performance of such contract and for 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 in the Bid Proposal and such larger amount for which the SPONSOR may contract with another party to perform the work covered by said Proposal Document, then, this obligation to be void; otherwise to 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 the SURETY shall pay the penal sum to the SPONSOR within fifteen (15) days of written demand therefor. If the SURETY does not make full payment within such period of time, the AGENT may bring an action to collect the amount owed. The 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 WITNESS WHEREOF, the said PRINCIPAL and the said SURETY have caused this instrument to be signed by

their respective officers this _____ day of _____ A.D., 20 ____.

PRINCIPAL

SURETY

(Company Name)

(Company Name)

By: _____ (Signature & Title)

By: _____ (Signature of Attorney-in-Fact)

Notary Certification for Principal and Surety

State of Illinois)
) ss:
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 uses and purposes therein set forth.

Given under my hand and notary seal this _____ day of _____ A.D., 20 ____

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 below, the PRINCIPAL is ensuring the identified electronic bid bond has been executed and the PRINCIPAL and SURETY are firmly bound to 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
Form D.E. (Rev. 12-2001)



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 affix this form to the front of a 10" x 13" envelope and use that 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 323
Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, Illinois 62764

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.



Illinois Department of Transportation

CONTRACT REQUIREMENTS

(1) Airport Improvement Program projects. The work in this contract is included in the federal Airport Improvement Program and is being undertaken and accomplished by the Illinois Department of Transportation, Division of Aeronautics and the Municipality, hereinafter called the Co-Sponsors, in accordance with the terms and conditions of a Grant Agreement between the Co-Sponsors and the United States, under the Airport and Airway Improvement Act of 1982 (Public Law 97-248; Title V, Section 501 et seq., September 3, 1982; 96 Stat. 671; codified at 49 U.S.C Section 2201 et seq.) and Part 152 of the Federal Aviation Regulations (14 CFR Part 152), pursuant to which the United States has agreed to pay a certain percentage of the costs of the Project that are determined to be allowable Project costs under the Act. The United States is not a party to this contract and no reference in this contract to FAA or representative thereof, or to any rights granted to the FAA or any representative thereof, or the United States, by the contract, makes the United States a party to this contract.

(2) Consent of Assignment. The Contractor shall obtain the prior written consent of the Co-Sponsors to any proposed assignment of any interest in or part of this contract.

(3) Convict Labor. No convict labor may be employed under this contract.

(4) Veterans Preference. In the employment of labor, except in executive, administrative, and supervisory positions, preference shall be given to veterans of the Vietnam era and disabled veterans as defined in Section 515(c) of the Airport and Airway Improvement Act of 1982. However, this preference shall apply only where the individuals are available and qualified to perform the work to which the employment relates.

(5) Withholding: Sponsor from Contractor. Whether or not payments or advances to the Co-Sponsors are withheld or suspended by the FAA, the Co-Sponsors may withhold or cause to be withheld from the Contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics employed by the Contractor or any subcontractor on the work the full amount of wages required by this contract.

(6) Nonpayment of Wages. If the Contractor or subcontractor fails to pay any laborer or mechanic employed or working on the site of the work any of the wages required by this contract the Co-Sponsors may, after written notice to the Contractor, take such action as may be necessary to cause the suspension of any further payment or advance of funds until the violations cease.

(7) FAA Inspection and Review. The Contractor shall allow any authorized representative of the FAA to inspect and review any work or materials used in the performance of this contract.

(8) Subcontracts. The Contractor shall insert in each of his subcontracts the provisions contained in Paragraphs (1), (3), (4), (5), (6), and (7) above and also a clause requiring the subcontractors to include these provisions in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

(9) Contract Termination. A breach of Paragraph (6), (7), and (8) above may be grounds for termination of the contract.

PROVISIONS REQUIRED BY THE REGULATIONS OF THE SECRETARY OF LABOR 29 CFR 5.5

(a) Contract Provisions and Related Matters.

(1) Minimum Wages.

Revised 1/92

(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 regulations issued 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 equivalents 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 provision of paragraph (a)(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 paragraph 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 paragraph (a)(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 be easily seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics 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 therefor 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.

(ii)(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. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(ii)(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. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(ii)(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(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. (Approved by the Office of Management and Budget under OMB control number 1215-0140).

(2) Withholding. The Federal Aviation Administration shall upon its own action or 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 the work, all or part of the wages required by the contract, the (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 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 work, 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 section 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 cost 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. (Approved by the Office Management and Budget under OMB control numbers 1215-0140 and 1215-0017).

(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 paragraph 5.5(a)(3)(i) of Regulations, 29 CFR Part 5. This information may be submitted in any form desired.

Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime Contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB control number 1215-0149).

(ii)(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 maintained under paragraph 5.5(a)(3)(i) of Regulations, 29 CFR Part 5 and that such information is correct and complete;

(2) That each laborer or 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.

(ii)(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 (a)(3)(ii)(B) of this section.

(ii)(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 (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the (write the name of the agency) 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 who 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 ration 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 contract 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 paragraph (a)(1) through (10) of this contract 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 an subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract determination: debarment. A breach of these contract clauses paragraphs (a)(1) through (10) and the 2nd clause (b)(1) through (5) below 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 referenced 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.

(b) Contract Work Hours and Safety Standards Act. The Agency Head shall cause or require the contracting officer to insert the following clauses set forth in paragraphs (b)(1), (2), (3), (4) and (5) of this section in full in AIP construction contracts in excess of \$2,000. These clauses shall be inserted in addition to the clauses required by paragraph 5.5(a) or paragraph 4.6 of Part 4 of this title. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements: No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen or guards (including apprentices and trainees described in paragraphs 5 and 6 above) shall require or permit any laborer, mechanic, watchman or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman or guard receives compensation at a rate not less than one and one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violations: Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the Contractor and any subcontractor responsible therefore shall be liable to any affected employee for his/her unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States (in 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, mechanic, watchman or guard employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10.00 for each calendar day on which such employee was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) Withholding for unpaid wages and liquidated damages. The (write in the name of the Federal agency or the loan or grant recipient) 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 moneys 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 subparagraph (2) of this paragraph.

(4) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors 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 subparagraphs (1) through (4) of this paragraph.

(5) Working Conditions. No Contractor or subcontractor may require any laborer or mechanic employed in the performance of any contract to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous to his health or safety as determined under construction safety and health standards (29 CFR 1926) issued by Department of Labor.

(c) In addition to the clauses contained in paragraph (b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in paragraph 5.1, the Agency Head shall cause or require the contracting officer to insert a clause requiring that the Contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Agency Head shall cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the Contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the Contractor or subcontractor will permit such representatives to interview employees during working hours on the job. (Approved by the Office of Management and Budget under OMB control numbers 1215-0140 and 1215-0017).

FEDERAL REGULATIONS VOL. 40, #74,
WEDNESDAY, APRIL 16, 1975, PAGE 17124,
ADMINISTRATION OF THE CLEAR AIR ACT
& WATER POLLUTION CONTROL ACT
(with respect to Federal Grants)

In connection with the administration of the Clean Air Act and the Water Pollution Control Act with respect to Federal Grants, specific requirements have been imposed of any contract which is not exempt under the provisions of 40 CFR 15.5.

(1) Any facility listed on the EPA List of Violating Facilities pursuant to Paragraph 15.20 of 40 CFR as of the date of the contract award will not be utilized in the performance of any non-exempt contract or subcontract.

(2) The Contractor shall comply with all the requirements of Section 114 of the Clean Air Act, as amended, 42 USC 1857 et seq. and Section 308 of the Federal Water Pollution Control Act, as amended, 33 USC 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 Air Act and Water Act, respectively, and all regulations and guidelines issued thereunder after the award of the contract.

(3) Prompt notification shall be required prior to contract award to the awarding official by the Contractor who will receive the award of the receipt of any communication from the Director, Office of Federal Activities, U.S. Environmental Protection Agency, indicating that a facility to be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

(4) The Contractor shall include or cause to be included the criteria and requirements in paragraphs 1 through 4 in any non-exempt subcontract and will take such action as the Government may direct as a means of enforcing such provisions.

Attachment No. 1

During the performance of the 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 the behalf of the Contractor, state that all qualified applicants will receive consideration 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 worker's 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 24 September 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of 24 September 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 24 September 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 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.

ATTACHMENT NO. 2

EACH PRIME CONTRACTOR SHALL INSERT IN EACH SUBCONTRACT THE CERTIFICATION IN APPENDIX B, AND FURTHER, SHALL REQUIRE ITS INCLUSION IN ANY LOWER TIER SUBCONTRACT, PURCHASE ORDER, OR TRANSACTION THAT MAY IN TURN BE MADE.

- Appendix B of 49 CFR Part 29 -

This certification applies to subcontractors, material suppliers, vendors and other lower tier participants.

Appendix B--Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions

Instructions for Certification

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

8. 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 clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions

(1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

(2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

STATE REQUIRED CONTRACT PROVISIONS
ALL FEDERAL-AID CONSTRUCTION CONTRACTS

Effective February 1, 1969
Revised January 2, 1973

The following provisions are State of Illinois requirements and are in addition to the Federal requirements.

"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.

CONSTRUCTION CONTRACT PROCUREMENT POLICIES

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SECTION 1

PROPOSAL REQUIREMENTS AND CONDITIONS

1-01 ADVERTISEMENT (Notice to Bidders). The State of Illinois shall publish the advertisement at such places and at such times as are required by local law or ordinances. The published advertisement shall state the time and place for submitting sealed proposals; a description of the proposed work; instructions to bidders as to obtaining proposal forms, plans, and specifications; proposal guaranty required; and the Owner's right to reject any and all bids.

For Federally assisted contracts the advertisement shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations applicable to the particular contract being advertised.

1-02 PREQUALIFICATION OF BIDDERS.

- (a) When the awarding authority is the State of Illinois, each prospective bidder, prior to being considered for issuance of any proposal forms will be required to file, on forms furnished by the Department, an experience questionnaire and a confidential financial statement in accordance with the Department's Instructions for Prequalification of Contractors. The Statement shall include a complete report of the prospective bidder's financial resources and liabilities, equipment, past record and personnel, and must be submitted at least thirty (30) days prior to the scheduled opening of bids in which the Contractor is interested.

After the Department has analyzed the submitted "Contractor's Statement of Experience and Financial Condition" and related information and has determined appropriate ratings, the Department will issue to the Contractor a "Certificate of Eligibility". The Certificate will permit the Contractor to obtain proposal forms and plans for any Department of Transportation letting on work which is within the limits of the Contractor's potential as indicated on his "Certificate of Eligibility", subject to any limitations due to present work under contract or pending award as determined from the Contractor's submitted "Affidavit of Availability". Bidders intending to consistently submit proposals shall submit a "Contractor's Statement of Experience and Financial Condition" at least once a year. However, prequalification may be changed during that period upon the submission of additional favorable reports or upon reports of unsatisfactory performance.

Before a proposal is issued, the prospective bidder will be required to furnish an "Affidavit of Availability" indicating the location and amount of all uncompleted work under contract, or pending award, either as principal or subcontractor, as well as a listing of all subcontractors and value of work sublet to others. The prospective bidder may be requested to file a statement showing the amount and condition of equipment which will be available.

Before an award is made, the bidder may be required to furnish an outline of his plans for conducting the work.

- (b) When the awarding authority for contract construction work is the County Board of a county; the Council, the City Council, or the President and Board of Trustees of a city, village or town, each prospective bidder, in evidence of his competence, shall furnish the awarding authority as a prerequisite to the release of proposal forms by the awarding authority, a certified or photostatic copy of a "Certificate of Eligibility" issued by the Department of Transportation, in accordance with Section 1-02(a).

The two low bidders must file within 24 hours after the letting a sworn affidavit, in triplicate, showing all uncompleted contracts awarded to them and all low bids pending award for Federal, State, County, Municipal and private work, using the blank form made available for this affidavit. One copy shall be filed with the awarding authority and two copies with the District Highway Office.

1-03 CONTENTS OF PROPOSAL FORMS. Upon request, the Department will furnish the prequalified bidders a proposal form. This form will state the location and description of the contemplated construction and will show the estimate of the various quantities and kinds of work to be performed or materials to be furnished, and will have a schedule of items for which unit bid prices are invited. The proposal form will state the time in which work must be completed, the amount of the proposal guaranty, labor requirements, and date, time and place of the opening of proposals. The form will also include any special provisions or requirements which vary from or are not contained in these specifications.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. Any addenda officially issued by the Department, will be considered a part of the proposal whether attached or not.

For Federally assisted contracts, the proposal shall conform to the requirements of local laws and ordinances pertaining to letting of contracts and, in addition, shall conform to the requirements of the appropriate parts of the Federal Aviation Regulations pertaining to the particular contract being let.

1-04 ISSUANCE OF PROPOSAL FORMS. The Department shall refuse to issue a proposal form for any of the following reasons:

- (a) Lack of competency and adequate machinery, plant and other equipment, as revealed by the financial statement and experience questionnaires required under Section 1-02(a).
- (b) Uncompleted work which, in the judgment of the Department, might hinder or prevent the prompt completion of additional work if awarded.
- (c) False information provided on a bidder's "Affidavit of Availability".
- (d) Failure to pay, or satisfactorily settle, all bills due for labor and material on former contracts in force at the time of issuance of proposal forms.
- (e) Failure to comply with any prequalification regulations of the Department.
- (f) Default under previous contracts.
- (g) Unsatisfactory performance record as shown by past work for the Department, judged from the standpoint of workmanship and progress.
- (h) When the Contractor is suspended from eligibility to bid at a public letting where the contract is awarded by, or require approval of, the Department.
- (i) When any agent, servant, or employee of the prospective bidder currently serves as a member, employee, or agent of a governmental body that is financially involved in the proposed work.
- (j) When any agent, servant, or employee of the prospective bidder has participated in the preparation of plans or specifications for the proposed work.

1-05 INTERPRETATION OF QUANTITIES IN BID SCHEDULE. An estimate of quantities of work to be done and materials to be furnished under these specifications is given in the proposal. It is the result of careful calculations and is believed to be correct. It is given only as a basis for comparison of proposals and the award of the contract. The Owner does not expressly or by implication agree that the actual quantities involved will correspond exactly therewith; nor shall the bidder plead misunderstanding or deception because of such estimates of quantities, or of the character, location, or other conditions pertaining to the work. Payment to the Contractor will be made only for the actual quantities of work performed or materials furnished in accordance with the plans and specifications. It is understood that the quantities may be increased or decreased as provided in the subsection titled ALTERATION OF WORK AND QUANTITIES of Section 20 of the Illinois Standard Specifications for Construction of Airports without in any way invalidating the unit bid prices.

1-06 EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE. The bidder is expected to carefully examine the site of the proposed work, the proposal, plans, specifications, and contract forms. He shall satisfy himself as to the character, quality, and quantities of work to be performed, materials to be furnished, and as to the requirements of the proposed contract. The submission of a proposal shall be prima facie evidence that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements of the proposed contract, plans, and specifications.

Boring logs, underground utilities and other records of subsurface investigations and tests are available for inspection of bidders. It is understood and agreed that such subsurface information, whether included in the plans, specifications, or otherwise made available to the bidder, was obtained and is intended for the Owner's design and estimating purposes only. Such information has been made available for the convenience of all bidders. It is further understood and agreed that each bidder is solely responsible for all assumptions, deductions, or conclusions which he may make or obtain from his examination of the boring logs and other records of subsurface investigations and tests that are furnished by the Owner.

1-07 PREPARATION OF THE PROPOSAL. The bidder shall submit his proposal on the form furnished by the Department. The proposal shall be executed property, and bids shall be made for all items indicated in the proposal form, except that when alternate bids are asked, a bid on more than one alternate for each item is not required, unless otherwise provided. The bidder shall indicate, in figures, a unit price for each of the separate items called for in the proposal; he shall show the products of the respective quantities and unit prices in the column provided for that purpose, and the gross sum shown in the place indicated in the proposal shall be the summation of said products. All writing shall be with ink or typewriter, except the signature of the bidder which shall be written with ink.

If the proposal is made by an individual, his name and business address shall be shown. If made by a firm or partnership, the name and business address of each member of the firm or partnership shall be shown. If made by a corporation, the proposal shall show the names, titles, and business address of the president, secretary, and treasurer, and the seal of the corporation shall be affixed and attested by the secretary.

The proposal shall be issued to a prequalified bidder in the same name and style as the financial statement used for prequalification and shall be submitted in like manner.

1-08 REJECTION OF PROPOSALS. The Department reserves the right to reject proposals for any of the conditions in Article 1-04 or for any of the following reasons:

- (a) More than one proposal for the same work from an individual, firm, partnership, or corporation under the same or different names.
- (b) Evidence of collusion among bidders.
- (c) Unbalanced proposals in which the prices for some items are obviously out of proportion to the prices for other items.
- (d) If the proposal does not contain a unit price for each pay item listed except in the case of authorized alternate pay items or lump sum pay items.
- (e) If the proposal is other than that furnished by the Department; or if the form is altered or any part thereof is detached.
- (f) If there are omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning.
- (g) If the bidder adds any provisions reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
- (h) If the proposal is not accompanied by the proper proposal guaranty.
- (i) If the proposal is prepared with other than ink or typewriter.
- (j) If the proposal is submitted in any other name other than that to whom it was issued by the Department.

1-09 PROPOSAL GUARANTY. Each Proposal shall be accompanied by either a bid bond on the Department of Transportation, Division of Aeronautics form contained in the proposal, executed by a corporate surety company satisfactory to the Department or by a bank cashier's check or a properly certified check for not less than 5 percent of the amount bid.

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

1-10 DELIVERY OF PROPOSALS. Each proposal should be submitted in a special envelope furnished by the Department. The blank spaces on the envelope shall be filled in correctly to clearly indicate its contents. When an envelope other than the special one furnished by the Department is used, it shall be of the same general size and shape and be similarly marked to clearly indicate its contents. When sent by mail, the sealed proposal shall be addressed to the Department at the address and in care of the official in whose office the bids are to be received. All proposals shall be filed prior to the time and place specified in the Notice to Bidders. Proposals received after the time for opening of bids will be returned to the bidder unopened.

1-11 WITHDRAWAL OF PROPOSALS. Permission will be given a bidder to withdraw a proposal if he makes his request in writing or by telegram before the time for opening proposals. If a proposal is withdrawn, the bidder will not be permitted to resubmit this proposal at the same letting. With the approval of the Engineer, a bidder may withdraw a proposal and substitute a new proposal prior to the time of opening bids.

1-12 PUBLIC OPENING OF PROPOSALS. Proposals will be opened and read publicly at the time and place specified in the Notice to Bidders. Bidders, their authorized agents, and other interested parties are invited to be present.

1-13 DISQUALIFICATION OF BIDDERS. A bidder shall be considered disqualified for any of the following reasons:

- (a) Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
- (b) Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the Owner.
- (c) If the bidder is considered to be in "default" for any reason specified in the Subsection 1-04 titled ISSUANCE OF PROPOSAL FORMS of this section.

1-14 WORKER'S COMPENSATION INSURANCE. Prior to the approval of his contract by the Division, the Contractor shall furnish to the Division certificates of insurance covering Worker's Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Worker's Compensation Act of the State of Illinois" as amended.

SECTION 2

AWARD AND EXECUTION OF CONTRACT

2-01 CONSIDERATION OF PROPOSALS. After the proposals are publicly opened and read, they will be compared on the basis of the summation of the products obtained by multiplying the estimated quantities shown in the proposal by the unit bid prices. In the event of a discrepancy between unit bid prices and extensions, the unit bid price shall govern.

Until the award of a contract is made, the Owner reserves the right to reject a bidder's proposal for any of the following reasons:

- (a) If the proposal is irregular as specified in the subsection titled REJECTION OF PROPOSALS of Section 1.
- (b) If the bidder is disqualified for any of the reasons specified in the subsection titled DISQUALIFICATION OF BIDDERS of Section 1.

In addition, until the award of a contract is made, the Owner reserves the right to reject any or all proposals; waive technicalities, if such waiver is in the best interest of the Owner and is in conformance with applicable State and Local laws or regulations pertaining to the letting of construction contracts; advertise for new proposals; or proceed with the work otherwise.

2-02 AWARD OF CONTRACT. The award of contract will be made within 60 calendar days after the opening of proposals to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The successful bidder will be notified by letter, that his bid has been accepted, and that he has been awarded the contract.

If a contract is not awarded within 60 days after the opening of proposals, a bidder may file a written request with the Division for the withdrawal of his bid and the Division will permit such withdrawal.

For Federally assisted contracts, unless otherwise specified in this subsection, no award shall be made until the FAA has concurred in the Owner's recommendation to make such award and has approved the Owner's proposal contract to the extent that such concurrence and approval are required by Federal Regulations.

2-03 CANCELLATION OF AWARD. The Division reserves the right to cancel the award without liability to the bidder at any time before a contract has been fully executed by all parties and is approved by the Owner in accordance with the subsection titled APPROVAL OF CONTRACT of this section. The Division at the time of cancellation will return the proposal guaranty.

2-04 RETURN OF PROPOSAL GUARANTY. The proposal guaranties of all except the two lowest bidders will be returned promptly after the proposals have been checked, tabulated, and the relation of the proposals established. Proposal guaranties of the two lowest bidders will be returned as soon as the Construction Contract, Performance Bonds, and Payment Bonds of the successful bidder have been properly executed and approved.

If any other form of proposal guaranty is used, other than a bid bond, a bid bond may be substituted at the Contractor's option.

2-05 REQUIREMENT OF PERFORMANCE AND PAYMENT BONDS. The successful bidder for a contract, at the time of the execution of the contract, shall deposit with the Division separate performance and payment bonds each for the full amount of the contract. The form of the bonds shall be that furnished by the Division, and the sureties shall be acceptable to the Division.

2-06 EXECUTION OF CONTRACT. The successful bidder shall sign (execute) the Contract and shall return the signed Contract to the Owner (Sponsor) for signature (execution) and subsequently return all copies to the Division. The fully executed surety bonds specified in the subsection title REQUIREMENTS OF PERFORMANCE AND PAYMENT BONDS of this section will be forwarded to the Division within 15 days of the date mailed or otherwise delivered to the successful bidder. If the Contract and Bonds are mailed, special handling is recommended.

If the bidder to whom award is to be made is a corporation organized under the laws of a State other than Illinois, the bidder shall furnish the Division a copy of the corporation's certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish such evidence of a certificate of authority within the time required will be considered as just cause for the annulment of the award and the forfeiture of the proposal guaranty to the State, not as a penalty, but in payment of liquidated damages sustained as a result of such failure.

2-07 APPROVAL OF CONTRACT. Upon receipt of the contract and bonds that have been executed by the successful bidder, the Owner shall complete the execution of the contract in accordance with local laws or ordinances, and return the contract to the Division for approval and execution by the Division. Delivery of the fully executed contract to the Contractor shall constitute the Department's approval to be bound by the successful bidder's proposal and the terms of the contract.

2-08 FAILURE TO EXECUTE CONTRACT. If the contract is not executed by the Division within 15 days following receipt from the bidder of the properly executed contracts and bonds, the bidder shall have the right to withdraw his bid without penalty.

Failure of the successful bidder to execute the contract and file acceptable bonds within 15 days after the contract has been mailed to him shall be just cause for the cancellation of the award and the forfeiture of the proposal guaranty which shall become the property of the State, not as a penalty, but as liquidation of damages sustained.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF AERONAUTICS

The requirements of the following provisions written for Federally-assisted construction contracts, including all goals and timetables and affirmative action steps, shall also apply to all State-funded construction contracts awarded by the Illinois Department of Transportation.

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

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 -	5.2
IL - Hardin, Massac, Pope	
KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden,	
Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	

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<u>Economic Area</u>	<u>Goal (percent)</u>
080 Evansville, IN:	
Non-SMSA Counties -	3.5
IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White	
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	

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APPENDIX B (CONTINUED)

<u>Economic Area</u>	<u>Goal (percent)</u>
6120 Peoria, IL - IL - Peoria, Tazewell, Woodford	4.4
Non-SMSA Counties - IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	3.3
088 Rockford, IL: SMSA Counties: 6880 Rockford, IL - IL - Boone, Winnebago	6.3
Non-SMSA Counties - IL - Lee, Ogle, Stephenson	4.6
098 Dubuque, IA: Non-SMSA Counties - IL - JoDaviess IA - Atlamaakee, Clayton, Delaware, Jackson, Winnesheik WI - Crawford, Grant, Lafayette	0.5
099 Davenport, Rock Island, Moline, IA - IL: SMSA Counties: 1960 Davenport, Rock Island, Moline, IA - IL - IL - Henry, Rock Island IA - Scott	4.6
Non-SMSA Counties - IL - Carroll, Hancock, Henderson, Mercer, Whiteside IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine MO - Clark	3.4
107 St. Louis, MO: SMSA Counties: 7040 St. Louis, MO - IL - IL - Clinton, Madison, Monroe, St. Clair MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City	14.7
Non-SMSA Counties - 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	11.4

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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 Illinois Division of Aeronautics 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.

STANDARD FEDERAL EQUAL EMPLOYMENT
OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS (EXECUTIVE ORDER 11246)

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, United States 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:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) 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
 - (iv) 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.

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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 must 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 7a through p 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 geographical areas 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 toward 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 nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must 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 on-site 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 as 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 therefor, along with whatever additional actions the Contractors may have taken.

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- 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 woman 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 agreements; 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 Foreman, 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 nonsegregated 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.

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- p) Conduct a review, at least annually, of all supervisors' 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 (7a through p). The efforts of a Contractor association, joint Contractor-union, Contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p 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, the Contractor may be in violation of the Executive Order if a 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 specified 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 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal 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 numbers, 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 his 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).

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ANNUAL EEO-1 REPORT TO JOINT REPORTING COMMITTEE AS REQUIRED AT

41 CFR 60-1.7(a)

Any Contractor having a Federal contract of \$50,000 or more and 50 or more employees is required to file annual compliance reports on Standard Form 100 (EEO-1) with the Joint Reporting Committee in accordance with the instructions provided with the form. The Contractor will provide a copy of such a report to the contracting agency within 30 days after the award of a contract.

The Contractor shall require its subcontractors to file an SF 100 within 30 days after award of the subcontract if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees, (3) first tier subcontractor, and (4) has a subcontract amounting to \$50,000 or more.

Subcontractors below the first tier which perform construction work at the site of construction shall be required to file such a report if (1) it is not exempt from the provisions of these regulations in accordance with 60-1.5, (2) has 50 or more employees and has a subcontract amounting to \$50,000 or more.

The SF 100 is available at the following address:

Joint Reports Committee
EEOC - Survey Division
1801 "L" Street N.W.
Washington, D.C. 20750

Phone (202) 663-4968

DISADVANTAGED BUSINESS POLICY

I. NOTICE

This proposal contains the special provision entitled "Required 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."

II. 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.

III. 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.

IV. 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).

V. 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.

(Rev. 9/21/92)

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

- I. **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. 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. 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 DBE Directory or most recent addendum.
- II. **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 federally-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.
- III. **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 is 22.77% of 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 this goal. The dollar amount paid to all approved DBE firms performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.
- IV. **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. This 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 **9.0%** 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 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 forth in this Special Provision:
- A. The bidder documents that firmly committed 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.

- V. DBE LOCATOR REFERENCES: Bidders may consult the DBE Directory as a reference source for DBE companies certified by the Department. 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 web site at www.dot.state.il.us.
- VI. BIDDING PROCEDURES: Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid nonresponsive.
- A. In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted 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). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.
- 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. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:
1. The name and address of each DBE to be used;
 2. A description, including pay item numbers, of the commercially useful work to be done by each DBE;
 3. The price to be paid to each DBE for the identified work specifically stating 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. A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
 5. If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).

D. The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five (5) working day period in order to cure the deficiency.

VII. 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% 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 firm does not count toward the DBE goals.

B. DBE as a joint venture Contractor: 100% 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% goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontractor in turn subcontracts to a non-DBE firm does not count toward the DBE goal.

D. DBE as a trucker: 100% 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 full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.

E. DBE as a material supplier:

1. 60% goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
2. 100% goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
3. 100% credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

VIII. GOOD FAITH EFFORT PROCEDURES: If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt 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 could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those 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 prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
 5. Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor'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 contractor'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 Contractor 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 a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will

designate a five (5) working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.

- C. The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five (5) working days after the notification date of the determination by delivering the request to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415 (Telefax: 217-785-4533). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The pre-final determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. In addition, the request shall be considered a consent by the bidder to extend the time for award. 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 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 (10) working days after receipt of the request for reconsideration, 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 nonresponsive.

IX. 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 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.

- A. No amendment to the Utilization Plan may be made without prior written approval from the Division of Aeronautics. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Capital Airport, Springfield, IL 62707-8415. Telephone number (217) 785-8514. Telefax number (217) 785-4533.
- B. All work indicated for performance by an approved DBE shall be performed, managed and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Division of Aeronautics of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Division and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Division will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- C. 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 therefor to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Department to the Contractor for such work or material without regard to any retainage withheld by the Department, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the Division's Chief Engineer. If full and final payment has not been made to the DBE, the Report 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 Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.

- D. 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.

Certification of Nonsegregated Facilities - as Required by 41 CFR 60-1.8

(Applicable to (1) contracts, (2) subcontracts, and (3) agreements with applicants who are themselves performing federally assisted construction contracts, exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause).

By the submission of this bid, the bidder, offeror, applicant, or subcontractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments and that that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of his 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, rest rooms and wash rooms, 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 directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):

**NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR
CERTIFICATIONS OF NONSEGREGATED FACILITIES**

A certification of Nonsegregated Facilities must be submitted prior to the award of a subcontract exceeding \$10,000.00 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually or annually).

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

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS
Instructions for Certification

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction" "debarred" "suspended" "ineligible" "lower tier covered transaction" "participant" "person" "primary covered transaction" "principal" "proposal" and "voluntarily excluded" as used in this clause have the meaning set out in the Definitions and Coverage sections of the rules implementing Executive Order 12540. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective primary participant agrees by submitting this proposal that should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Transaction", provided by the department or agency entering into this covered transaction without modification in all lower covered transactions and in all solicitations for lower covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to check the Nonprocurement List (Tel. #).
9. 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 clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 8 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, and
Other Responsibility Matters - Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
 - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by an Federal department or agency;
 - b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or Local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction or destruction of records, making false statements, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - d. Have not within a three-period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

CERTIFICATION REGARDING LOBBYING (Applicable to contracts in excess of \$100,000):

Certification for Contracts, Grants, Loans and Cooperative Agreements.

The undersigned bidder certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have paid or will be paid, by or behalf of the undersigned, 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 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.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

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.

WORKERS' COMPENSATION INSURANCE

Prior to the execution of his construction contract by the Illinois Department of Transportation, Division of Aeronautics, hereinafter referred to as "Division", the Contractor shall furnish to the Division certificates of insurance covering Workers' Compensation, or satisfactory evidence that this liability is otherwise taken care of in accordance with Section 4.(a) of the "Workers' Compensation Act of the State of Illinois" as amended.

Such insurance, or other means of protection as herein provided, shall be kept in force until all work to be performed under the terms of the contract has been completed and accepted in accordance with the specifications, and it is hereby understood and agreed that the maintenance of such insurance or other protection, until acceptance of the work by the Division is a part of the contract. Failure to maintain such insurance, cancellation by the Industrial Commission of its approval of such other means of protection as might have been elected, or any other act which results in lack of protection under the said "Workers' Compensation Act" may be considered as a breach of the contract.

SPECIAL PROVISION FOR DOMESTIC SOURCE FOR STEEL

Control of Materials: All steel products, as defined by the Illinois Steel Products Procurement Act, incorporated into this project shall be manufactured or produced in the United States and, in addition, shall be domestically fabricated. The Contractor shall obtain from the steel producer and/or fabricator, in addition to the mill analysis, a certification that all steel products meet these domestic source requirements.

CLAUSE TO BE INCLUDED IN ALL SOLICITATIONS,
CONTRACTS, AND SUBCONTRACTS RESULTING FROM PROJECTS FUNDED UNDER THE AIP

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 or nationals 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 Contractor 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 the 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 upon 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 immediate 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 this 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 false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

SECTION III

SPECIAL PROVISIONS

**WAUKEGAN REGIONAL AIRPORT (UGN)
WAUKEGAN, LAKE COUNTY, ILLINOIS**

REPAIR SELECTED PAVEMENT AREAS,
REHABILITATE HANGAR TAXILANES AND SERVICE ROAD, AND
CONSTRUCT NEW HANGAR PAVEMENTS

AIP PROJECT NO. 3-17-0105-B30
ILLINOIS PROJECT NO. UGN-3499

MAY 06, 2005



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

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SPECIAL PROVISIONS**WAUKEGAN REGIONAL AIRPORT (UGN)****REPAIR/REHABILITATE PAVEMENTS, CONSTRUCT NEW PAVEMENTS****AIP PROJECT NO. 3-17-0105-B30****IDA PROJECT NO. UGN-3499**INDEX OF SPECIAL PROVISIONS

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SPECIAL PROVISIONS**WAUKEGAN REGIONAL AIRPORT (UGN)****REPAIR/REHABILITATE PAVEMENTS, CONSTRUCT NEW PAVEMENTS****AIP PROJECT NO. 3-17-0105-B30****IDA PROJECT NO. UGN-3499**

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89	Item 800330	Traffic Control
90	Item 800927	Granular Drainage Subbase
94	Item 800932	Runway Closure Marker - Set
96	Item 800972	Partial Depth Bituminous Crack Repair and Patch
99	Item 901	Seeding
103	Item 904	Sodding
104	Item 905	Topsoiling
106	Item 908	Mulching
107	Item 910	Roadway Guard Rail and Signs

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These Special Provisions, together with applicable Standard Specifications, Supplemental Specifications, Recurring Special Provisions, Policy Memorandums, 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 Chicago-Romeoville Airport, Romeoville, Will County, Illinois:

☐ Repair Selected Pavements Areas, Rehabilitate Hangar Taxilanes and Service Road, and Construct New Hangar Pavements

This project is to repair selected pavement areas, rehabilitate hangar taxilanes and service road, and construct new hangar pavements at Waukegan Regional Airport, including, among other incidental work, the following items:

- ❖ Pavement removal and replacement of selected areas of Taxiway A and Runway 5-23.
- ❖ Crack sealing on a 1,600 linear foot segment of Taxiway A.
- ❖ Construction of pavements serving a new eight-unit "T" hangar building, including grading, drainage improvements, pavement construction, fencing, and pavement markings. Construction of a parking area outside the airport operations area for hangar area users is also included.
- ❖ Bituminous rehabilitation and repair of the Southwest Service Drive.
- ❖ Bituminous overlay, drainage improvements, and construction on two taxilanes in the Southwest Hangar Area.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The Standard Specifications for Construction of Airports, Illinois Department of Transportation, Division of Aeronautics, adopted January, 1985, as revised, (Standard Specifications) shall govern the Project except as otherwise revised or noted (1) in the Supplemental Specifications and Recurring Special Provisions, Illinois Department of Transportation, Division of Aeronautics, adopted July 1, 2004 (Supplemental Specifications and Recurring Special Provisions), and (2) in these Special Provisions dated May 06, 2005. All references to IDOT Specifications refer to Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised. Resolution of conflicts with any part or parts of said Specifications shall be in accordance with these Special Provisions, Section 30-03.

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ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF AERONAUTICS
SUPPLEMENTAL SPECIFICATIONS, RECURRING SPECIAL PROVISIONS & POLICY MEMORANDUMS

The Illinois Department of Transportation, Division of Aeronautics has implemented Supplemental Specifications and Recurring Special Provisions, adopted July 1, 2004, and Policy Memorandums that govern all or a part of this Project. The Supplemental Specifications, Recurring Special Provisions and Policy Memorandums 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 Supplemental Specification, Recurring Special Provision or Policy Memorandum has been modified by these Special Provisions, dated May 06, 2005.

Supplemental Specifications

<u>Section/Item</u>	<u>Title</u>	<u>Modified by Special Provisions</u>
10	Definition of Terms	No
20	Scope of Work	Yes
30	Control of Work	Yes
40	Control of Materials	Yes
50	Legal Relations and Responsibility to Public	No
60	Prosecution and Progress	Yes
70	Measurement and Payment	No
110	Installation of Airport Underground Electrical Duct	Yes
125	Installation of Airport Lighting Systems	Yes
151	Clearing and Grubbing	Yes
152	Excavation and Embankment	Yes
209	Crushed Aggregate Base Course	Yes
602	Bituminous Prime Coat	No
603	Bituminous Tack Coat	No
605	Joint Sealing Filler	Yes
610	Structural Portland Cement Concrete	No
620	Pavement Marking	Yes
701	Pipe for Storm Sewers and Culverts	Yes
751	Manholes, Catch basins, Inlets and Inspection Holes	Yes
752	Concrete Culverts, Headwalls and Miscellaneous Drainage Structures	Yes
904	Sodding	Yes
908	Mulching	Yes

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<u>Section/Item</u>	<u>Title</u>	<u>Modified by Special Provisions</u>
156000	Erosion Control	Yes
156513	Separation Fabric	No
201002	Bituminous Base Course - Method II (over 2,500 tons/pay item/location)	Yes
201671	Crack Control Fabric	Yes
401002	Bituminous Surface Course - Method I (over 2,500 tons/pay item/location)	Yes
401650	Bituminous Pavement Milling	Yes
401900	Remove Bituminous Pavement	Yes
501001	Portland Cement Concrete Pavement - Method I (less than or equal to 1,500 cubic yards)	Yes

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<u>No.</u>	<u>Title</u>	<u>Modified by Special Provisions</u>
04-03	Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications	No
87-2	Density Acceptance of Bituminous Pavements	No
87-3	Mix Design, Test Batch, Quality Control, and Acceptance Testing of PCC Pavement Mixture	No
87-4	Determination of Bulk Specific Gravity (D) of Compacted Bituminous Mixes	No
90-1	Resampling and Retesting of PCC Pavement	No
95-1	Field Test Procedures for Mixer Performance and Concrete Uniformity Tests	No
96-1	Item 610, Structural Portland Cement Concrete: Job Mix Formula Approval and Production Testing	No
96-2	Requirements for Laboratory, Testing, Quality Control, and Paving of Bituminous Concrete Mixtures	No
96-3	Requirements for Quality Assurance on Projects with Bituminous Concrete Paving	No
97-2	Pavement Marking Paint Acceptance	No
2001-1	Requirements for Cold Weather Concreting	No

DIVISION I - GENERAL PROVISIONS

SECTION 10

DEFINITION OF TERMS

The work shall be provided in accordance with Section 10 of the Standard Specifications and Supplemental Specifications.

SECTION 20

SCOPE OF WORK

Revise Section 20 of the Standard Specifications and Supplemental Specifications as follows:

20-05 MAINTENANCE OF TRAFFIC. Add the following paragraphs:

"A Construction Staging Plan detailing the sequencing of the Contractor's Work throughout the Project is included in the Plans. The Contractor shall provide his written acceptance of the Project Construction Staging Plan at the Pre-construction Conference. Any and all changes to the Construction Staging Plan that may be requested by the Contractor 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.

"At the Pre-construction Conference, the Contractor shall provide a Construction Coordination Plan that coordinates his Work in each sequence 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 control by the Waukegan Air Traffic Control Tower. 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. 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.
- ❖ The Contractor will be required to be in two-way radio contact (121.75 MHz) with the FAA Control Tower Ground Control. This will keep the Contractor in constant contact with FAA personnel and enable the FAA personnel to immediately contact the Contractor in case of an aeronautical emergency that would require action by the Contractor and/or his personnel.

"Failure to use these prescribed procedures or adhere to the safety requirements will result in the suspension of work.

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"All Contractor activities shall remain more than 200 feet from the runway centerline and 700 feet from the runway end. For work near taxiways and aprons, the Contractor's personnel and equipment must remain at least 65.5 feet from active taxiways, and 57.5 feet from active taxilanes, and 10 feet from active aprons. When construction operations must be conducted within these limits, the pavement must be closed to aircraft activity by the Contractor by providing temporary barricades as shown in the Plans, and in the case of runway pavements, closed runway markers.

"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 the Plans and as specified in these Special Provisions.

"The Contractor must notify the Resident Engineer and the Airport Owner 72 hours in advance of any required partial or complete closing of any public road, Airport road, runway, taxiway or apron, or lighting circuit, utility, or other Airport operational facility."

SECTION 30

CONTROL OF WORK

Revise Section 30 of the Standard Specifications and Supplemental Specifications as follows:

30-08 AUTHORITY AND DUTIES OF THE RESIDENT ENGINEER. Revise this Section as follows:

“As the direct representative of the Owner, the Resident Engineer has immediate charge of inspecting and monitoring the construction project. The Resident Engineer is authorized to inspect and/or perform tests to all or any part of the work and to the materials or manufacturer of materials to be used. The Resident Engineer is not authorized to revoke, alter, or waive any provision of the Contract. The Resident Engineer is not authorized to issue instructions contrary to the Plans and Specifications. The Resident Engineer is not authorized to direct or supervise the Contractor or his Subcontractors.

“The Resident Engineer is authorized to notify the Contractor or his representative of any failure of the work or materials to conform to the requirements of the Contract documents, and to recommend to the Engineer and Owner that nonconforming materials or work be rejected, and to recommend to the Engineer or Owner suspension of any work in question until the Engineer can make a decision on its acceptability.”

30-09 DUTIES OF THE INSPECTOR. Revise this Section to read as follows:

“The Resident Engineer and his staff will be authorized to inspect all work being performed and materials being incorporated into the project. Such inspection may extend to all or any part of the work and to the preparation, fabrication, or manufacture of materials to be used. The Resident Engineer and his staff will not be authorized to alter or waiver the provisions of neither the Contract nor will they be authorized to issue instructions contrary to the Plans and Specifications or to direct the Contractor's work.”

30-10 INSPECTION OF THE WORK. Revise the third paragraph to read as follows:

“Any work performed or materials incorporated without inspection by an authorized representative of the Engineer may be ordered removed and replaced by the Engineer at the Contractor's own expense.”

30-12 LOAD RESTRICTIONS. Add the following:

“Contractor's use of the existing airfield and roadway pavements by equipment and loaded trucks shall be minimized. The Contractor shall utilize the access ways shown on the Plans or as approved by the Airport Owner and the Resident Engineer. The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs at the Contractor's access routes as noted on the Plans or as directed by the Resident Engineer. 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.

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“The Contractor shall acquaint himself with the load restrictions of all local streets, roadways and highways intended for use as access/haul roads.”

SECTION 40

CONTROL OF MATERIALS

Revise Section 40 of the Standard Specifications and Supplemental Specifications as follows:

40-05 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 150 ARI 50510 ENGINEER’S FIELD OFFICE.”

SECTION 50

LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

The work shall be provided in accordance with Section 50 of the Standard Specifications and Supplemental Specifications.

SECTION 60

PROSECUTION AND PROGRESS

Revise Section 60 of the Standard Specifications and Supplemental Specifications as follows:

60-09 FAILURE TO COMPLETE ON TIME. Add the following:

"The Construction Staging Plan as included in the Plans requires the completion of certain identified stages of work within specified numbers of calendar days. These limitations are necessary to minimize the adverse operational effects associated with the work. Failure to complete the staged work within the noted calendar day limits shall also be considered as an overrun in Contract time in the Contract time table for each day the stage limitation is exceeded, whether or not the entire work is completed within the overall Contract completion date."

SECTION 70

MEASUREMENT AND PAYMENT

The work shall be provided in accordance with Section 70 of the Standard Specifications and Supplemental Specifications.

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ITEM 108

INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS

Revise Item 108 of the Standard Specifications as follows:

108-1.1 DESCRIPTION. Delete the last sentence and insert the following:

"This item of work shall consist of the installation of cable for the existing lighting circuits serving the existing access taxiway to the new T-Hangar site (Beach Park Road), at the locations shown on the Plans and in accordance with these specifications. This item shall include "cable in unit duct" where noted on the Plans and specified herein.

"In areas where there is a congestion of buried cable, the Contractor will be required to trench the proposed cable into place. Where proposed cable crosses an existing cable, the Contractor will be required to hand dig the trenches for the proposed cable. In all other areas, the Contractor has the option to either trench or plow the proposed cable in unit duct into place. The trenching or plowing of this cable will be considered incidental to the Contract unit price of the proposed cable and no additional compensation will be allowed.

"The Contractor shall color code all power cables in ducts and manholes. Color codes to be used will be given by the Resident Engineer. All costs of color coding shall be considered incidental to the Contract unit price for the associated item."

MATERIALS

108-2.1 GENERAL. Add the following.

"All cable shall be UL listed as suitable for installed application."

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". Circuits for use with constant current regulator outputs (runway or taxiway lighting circuits) shall use 5000 Volt rated cable. Circuits for voltage applications of 600 Volts or less shall use 600 Volt or 5000 Volt rated cable.

"Item AR800915, Airfield Cable in Unit Duct, shall consist of 1/C #8 AWG, FAA L-824, Type C, 5000 volt cable in unit duct (3/4")."

108-2.3 BARE COPPER WIRE (Counterpoise). Revise this section to read:

"Bare copper counterpoise wire will not be required on this project."

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108-2.4 CABLE CONNECTIONS. Add the following after the first paragraph:

"Only L-823 connections shall be used for airfield lighting circuit connections. All connections shall be at light fixture bases or in splice cans; no direct burial splicing will be allowed. Connectors and their method of installation shall be as recommended by the light fixture and connector manufacturers. Proper preparation and cleaning of all cable ends to be connected shall be provided as specified by the fixture and connector manufacturers.

"All breaks in the unit duct shall be sealed by shrink kits.

"All connections shall be made using the proper tools as specified by the light fixture and connector manufacturers. All airfield cables are to be stripped using a Crouse-Hinds Cable Penciller, Part Number 10036-36, or approved equal. The proper barrel crimping tools shall also be used when crimping the primary and secondary cable connectors to the prepared cable ends.

"Approved manufacturers of crimping tools are:

❖ **Primary Connector Kit Tools (For No. 8 AWG Stranded Cable)**

Thomas & Betts Model Nos. WT3175, WT115A, WT117
Burdny Model No. MR4CQ

❖ **Secondary Connector Kit Tools**

Thomas & Betts Model No. WT119
Burdny Model No. Y14MF

"The costs of the required Cable Pencillers and the required Primary and Secondary Connector Kits shall not be paid for separately but shall be included in the cost of the cable.

"All below grade splices shall be installed in splice cans. Splice cans shall be L-867, Class I, Size B (12-inch diameter), 24-inch deep with 1/2 inch thick steel cover. Larger size splice cans shall be provided as applicable, for specific equipment applications or manufacturer's recommendations, and/or where detailed on the Plans. Splice cans located in areas subject to heavy aircraft or vehicle loading shall be L-868 type. The Resident Engineer shall approve all splice locations before work commences. The installation of splice cans not shown in the Plans and attributable to breaks in the cable and any other necessary repairs to cables damaged during installation shall be done at the Contractor's expense and at the Resident Engineer's discretion shall consist of installing splice cans or replacing the entire length of damaged cable between fixtures or electrical handholes."

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Add the following paragraph after subparagraph (e):

"(f) Heat Shrink Tubing

“On the airfield cables, to further reduce the possibility of water (moisture) entrance into the connector between the airfield cable and the field attached connector, heat shrinkable tubing with interior adhesive shall be applied over all cable connections. **One-piece** heat shrink kits that cover the entire connector kit and the isolation transformer connection shall be used. Two layers of electrical tape shall be wrapped around the connection before the heat shrinkable tubing is installed. The heat shrinkable tubing for L-823 connections shall be Raychem APL 1300/400-16, Sigmaform Corp. Series APL-823A, or equivalent. Heat shrink tubing for airfield 5,000V in-line splices (**if permitted**), shall be Raychem HVS-501, or equivalent. Complete kits shall be used.”

Add:

108-2.6 UNIT DUCT. Unit duct shall be as described under this item.

The duct shall comply with NEMA Standards Publication No. TC7-1990, Part 4, ASTM D3485, and ASTM D1248, with additions, options and exceptions as detailed herein. The duct shall be annealed during the extrusion process. The duct shall be manufactured from black, virgin, high-density polyethylene resin designated as Type III, Grade P34, and Class C, Category 5 material in accordance with ASTM D1248.

Standard sizes of smooth wall polyethylene duct shall conform to the dimensional requirements specified below:

<u>Nominal Duct Size</u>	<u>Nominal Inside Diameter</u>	<u>Nominal Standard Wall</u>	<u>Nominal Outside Diameter*</u>
3/4"	0.910"	0.070"	1.050"
1"	1.145"	0.085"	1.315"
1-1/4"	1.440"	0.110"	1.660"
1-1/2"	1.650"	0.125"	1.900"
2"	2.065"	0.155"	2.375"
2-1/2"	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.

Dimensional measurements shall be performed on samples removed from each complete length of finished duct. The manufacturer shall have the capability to manufacture a composite wire/cable-in-duct system, wherein the wire and cables are placed in the polyethylene duct without sticking during the extrusion process. The open ends of each length of reeled flexible duct shall be sealed by plastic caps to prevent the entrance of dirt and water. The duct shall have a durable identification, which shows the manufacturer's name and/or trademark, all at intervals not to exceed ten (10) feet.

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The manufacturer shall furnish copies of certified test reports on duct. The unit duct shall be Cablecon, as manufactured by Dura-Line Corporation, or approved equal.

Add:

108-2.7 CABLE PLOWING EQUIPMENT. At the Contractor's option cable in unit-duct may be installed in trench or using cable plowing equipment.

The plowing equipment shall be of the vibratory type. It shall vibrate at a rate of at least 1200 cycles per minutes. The vibrating unit shall not be rigidly mounted on the tractor. It shall be connected to the tractor for towing, in such a manner that the tractor will not dampen the vibrations.

The plow blade shall be a sufficient length to facilitate installation of the unit duct at the specified depth. The shoe throat shall be sized for the unit duct size. Cable way and cable guides shall be smooth, free of obstructions and sharp edges and shall not cause bending of the unit duct at shorter than 3-inch radius. It also shall not cause excessive cable strain, which may damage cable insulation or stretch the conductor.

Where two or more unit ducts are installed in a single operation, the plow shall be equipped with separate feeds, one for each unit duct, to provide the specified separation. The plow shall also be capable of concurrently installing the line marking tape as specified elsewhere for this item.

CONSTRUCTION REQUIREMENTS

108-3.1 GENERAL. Add the following:

"All airfield lighting and lighting power circuits are considered critical. It is, therefore, imperative that the Contractor carefully review the Plans showing lighting layouts, the proposed location of cable runs, and delineate the locations of existing cable.

"Only continuous lengths of cable will be allowed from light to light, electrical handhole to point-of-connection or point-of-connection to point-of-connection.

"Only cable in unit duct may be plowed.

"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 repairs of existing cables will be considered incidental to the Contract and no additional compensation will be allowed.

"The cable quantities shown in the Plans are from straight line measurement and do not consider any vertical distances or runs within the electrical vault and the light fixtures, nor do the quantities include the required cable slack as stated in Section 108-3.4.

"At base mounted lights, the unit duct will be inserted at least three (3) inches inside each of the lights' two six (6) inch conduit extensions and then the end of the conduit will be sealed using a heat shrink connection.

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"If the Contractor desires to lay cable on a line other than that shown on the Plans, he shall obtain approval from the Project Engineer. Any additional cable needed by such Contractor-requested change shall be at the Contractor's expense.

"New underground cable installed under this Project shall be marked so as to identify its associated circuit at all locations such as ducts, electrical manholes, etc. and when over other lighting cables in the same location. Means for this marking shall be approved by the Resident Engineer. The type of marking shall be recorded and given to the Airport Owner. The cost of this work shall be incidental to the cable.

"The unit duct shall be installed so that it is possible to withdraw a cable and pull-in a new replacement cable. Sweeping, long-radius bends shall be used; any runs with a kink or short radius bend will be rejected and replaced at the Contractor's expense.

"Existing cable in unit duct to be removed shall be completed to the satisfaction of the Resident Engineer. This removal shall not be measured for payment but shall be incidental to cable installation."

108-3.2 INSTALLATION IN DUCT OR CONDUIT. Add the following to this section:

"The proposed cable and unit duct shall be factory assembled and delivered to the site on reels.

"The unit duct will be run continuous through all ducts and conduits."

108-3.3 TRENCHING. Add the following to this section:

"Cable trenches shall be excavated to a minimum depth of 24 inches below the finished grade. Cable plowing shall be done at a minimum depth of 24 inches below the finished grade. Where shown otherwise on the Plans or specified herein cable trenches and/or cable plowing shall be at depths greater than 24 inches below finished grade.

108-3.4 INSTALLATION IN TRENCHES. Delete the first paragraph and replace with the following:

"Except as described elsewhere in this item, the Contractor is permitted to use a cable plow for installing the cable. Should the Contractor elect to install the cable in trenches, he is permitted to use mechanical cable-laying equipment in conjunction with a trenching machine. If mechanical cable-laying equipment is used, it should provide for the physical inspection of cable prior to backfilling. Sharp bends or kinks in the cable shall not be permitted.

"At locations where proposed cable replaces an existing cable to be abandoned, the existing cable exposed during trenching and duct routing shall be removed from the trench or duct and disposed of. The cost of removing and disposing of the existing cable shall be considered incidental to the cost of the installed cable and no additional compensation will be allowed.

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“Any and all trenches will be backfilled to a smooth grade to the satisfaction of the Resident Engineer. Areas disturbed during the installation of the proposed cable, which are not completed before the Contract seeding operations, will be fertilized and seeded. The fertilizing and seeding will be completed in accordance with Item 901, but will be incidental to this pay item.”

108-3.5 BACKFILLING. Add the following:

“Line marking tape shall be installed during the backfill process at a minimum depth of 6 inches and a maximum depth of 12 inches. Installation methods shall be to the satisfaction of the Resident Engineer. Line marking tape shall be color red, Terra Tape - Sentry Line 620, Detectable by Reef Industries, Inc. P. O. Box 750245, Houston, Texas 77275-0245, 1-800-231-2417, or equal.”

108-3.7 CABLE MARKERS. Add the following:

“The Contractor shall provide and install cable markers along the cable runs as described in this section.”

108-3.8 SPLICING. Delete subparagraphs (b), (c), (d) and (e) and insert the following:

“Splices will not be allowed in new circuits unless otherwise approved by the Project Engineer. Any repairs necessary in the new cable after backfilling the trench or after plowing is complete and discovered during testing of the circuit, shall be repaired with the cast splice kit. The Contractor shall have a minimum of two (2) splice kits on the job site at all times for emergency repairs. Splice markers shall be installed over each splice in cables not to be abandoned. Cast splice kits shall be specified in paragraph (a) of Item 108-2.4.”

108-3.9 BARE COUNTERPOISE WIRE INSTALLATION AND GROUNDING FOR LIGHTNING PROTECTION. Revise this section to read as follows:

“Bare copper counterpoise wire will not be required on this Project.”

108-3.10 TESTING. Add the following paragraphs:

“All testing shall be in the presence of the Resident Engineer. Test equipment and power to conduct the tests shall be furnished and operated by the Contractor at no cost to the Contract. The equipment shall be approved by the Resident Engineer before testing.

“The existing circuits, whether or not additions or deletions are being made, shall be megged before and after any work is performed. Meggar readings shall be taken after completion of the Work and shall be equal to or greater than the original reading. Should the reading be deficient, the Contractor shall locate within his work area the source of the deficiency and correct it at his expense.

“All cables found to be defective due to installation methods shall be replaced by the Contractor at his expense.”

Add:

108-3.11 108-3.11 PLOWING-IN OF CABLE IN UNIT DUCT.

NOTICE: Plowing-in of unit duct does not relieve the Contractor of responsibility for repairing damage to existing cables cut as a result of the Contractor's operations, as described in Paragraph 108-3.1. Extreme care must be taken to locate all existing circuits in the working limits of the plowing operations before commencing the operation. The Contractor shall have the option of trenching-in cables as described in Paragraph 108-3.3, 108-3.4, 108-3.5, and 108-3.6 in lieu of plowing-in any sections so noted on the Plans – at no additional cost or time to the Contract.

If the Contractor elects to plow the cable in unit-duct into place, his plowing operation must conform to the following requirements:

The forward moving speed of the plow shall be between 15 and 40 feet per minute. The plow shall be wide enough to freely allow the unit-duct to pass through it but not exceed the overall width of two inches. The line marking tape shall be installed concurrent with the cable plowing.

The unit duct shall be inserted into the plow in a manner that will not cause the unit-duct to bind, pull or break. The unit-duct shall be installed so that it is possible to withdraw a cable and pull in a new one. Sweeping long radius bends shall be used. Any run with a kink or short radius bend will be rejected. The cable in unit duct shall be installed continuous between lights without any splices in cable or unit duct. The holes for the transformer bases or at locations of cable termination shall be dug before the plowing operation is commenced. A method approved by the Engineer shall be used to prevent the walls of the holes from collapsing due to tractor and plow wheels.

The unit duct may be unreel along the proposed cable route before plowing or the unit duct reels may be mounted on the tractor. In the latter case, unreeling of the unit duct shall not cause excessive tension on the cable.

After the tractor and the plow are positioned at the beginning of the run, sufficient unit duct slack shall be pulled through the throats. Then the plow shall be lowered into the hole and the unit duct shall be hand held for the start of plowing. At each equipment hole the plow shall be stopped (movement and vibration), raised and the required amount of slack shall be hand pulled. Care shall be taken during the operation that the unit duct, at the entrance into the equipment hole, shall not be pulled from the specified depth. Plowing shall be continued by lowering the plow, starting it and holding the unit duct by hand until it is firmly held by the ground.

The plow shall not be backed onto the unit duct.

When an underground obstruction is encountered, the plow shall be lifted out of the ground. The obstruction shall be removed by hand digging. An opening shall be hand dug around the unit duct down to the depth of the unit duct and large enough to lower the plow, then the plow shall be lowered into the opening. While this is being done the unit duct shall be pulled back into the throat by hand to prevent kinks or sharp bends. In no case shall the unit duct be bent sharper than 3 inch radius, or be subjected to excessive tension.

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After installation of unit duct by plowing, the disturbed earth at the surface shall be leveled and, if necessary, compacted by a device approved by the Engineer.

Ends of cable shall be taped immediately after cutting to prevent moisture from entering the cable. Where the cable is not expected to be connected for at least 72 hours, the tape shall also be varnished.

To identify routing of the unit duct, immediately after plowing stakes shall be installed every 200 feet along straight runs and at each curve. Later these stakes shall be replaced by regular concrete cable markers. Concrete markers shall be placed in areas not used for agricultural purposes (plowed fields).

Plow operators shall be experienced and qualified by schooling and/or by sufficient on the job training under an experienced operator. Proof of such qualification shall be required from the Contractor.

Add:

108-3.12 LOCATING OF EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground utilities indicated on 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 Engineer shall also be immediately notified. Any 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 Excavation) for utility information, phone: 1-800-892-0123. Also contact the Resident Engineer and Airport Manager for assistance in locating underground airport cables and/or utilities.

The Contractor shall locate and mark all existing cables within ten (10) feet of the proposed excavation or plowing/trenching area. Any cables found interfering with the proposed excavation or cable plowing/trenching shall be hand-dug and exposed. Any damaged cables shall be immediately repaired to the satisfaction of the Resident Engineer and at the Contractor's expense. The Resident Engineer and the Airport Owner shall immediately be notified if any cables are damaged.

Payment for locating and marking underground cables will not be paid for separately but shall be considered incidental to the plowing/trenching of cable in unit duct.

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METHOD OF MEASUREMENT

108-4.1 METHOD OF MEASUREMENT. Delete this Section in its entirety.

108-4.2 METHOD OF MEASUREMENT. Delete this Section in its entirety and replace with the following:

"108-4.2 METHOD OF MEASUREMENT. Cables in unit duct will be measured as "one unit". Individual conductors will not be measured separately but as one run length. The quantity for Airfield Cable in Unit shall be the linear feet installed in trench, duct or conduit, measured in place, completed and ready for operation and accepted as satisfactory, and no extra quantity will be allotted for the required cable slack, turns, splices, etc., as stated under Section 108-3.4 of the Standard Specifications. The Contractor shall take this into consideration in preparing his bid and ordering the items concerned."

BASIS OF PAYMENT

108-5.1 Add the following:

"All plowing/trenching, hand-digging, exposing of existing cable ducts, backfilling, removal and disposal of existing cables, etc., shall not be paid for separately but shall be considered incidental to the Contract unit price for Airfield Cable in Unit Duct.

"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished."

Delete the last sentence and insert the following:

"Payment will be made under:

"Item AR800915 Airfield Cable in Unit Duct - per linear foot."

ITEM 110

INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT

Revise Item 110 of the Standard Specifications and Supplemental Specifications as follows:

110-1.1 DESCRIPTION. Add the following:

"This item shall consist of the construction of 4-way concrete encased duct at the locations shown on the Plans. Excavation and backfilling for the encased duct or excavation and backfill for the electrical handhole shall not be paid for separately but shall be included in the unit cost of the duct."

EQUIPMENT AND MATERIALS

110-2.5 STEEL CONDUIT. Delete this Section.

110-2.7 PLASTIC CONDUIT. Add the following:

"Conduits for concrete encasement shall be **6-inch diameter**, PVC, Schedule 40, UL listed, rated for 90° C cable, conforming to NEMA Standard TC-2 and UL 651, listed suitable for concrete encasement."

CONSTRUCTION METHODS

110-3.4 DUCT MARKERS. Delete this Section and replace with the following:

"110-3.4 DUCT MARKERS. The location of all ducts shall be marked by installing a concrete duct marker (2 foot by 2 foot), at each end of each duct and at bends, as shown in the Plans. Also, each bituminous pavement edge shall be marked with a brass marker installed in the finished pavement, as shown in the Plans. Ducts under concrete pavement shall be marked with a "D" impressed into the fresh pavement, as shown on the Plans. The cost of furnishing and installing the markers shall be included in the unit price of the duct."

110-3.5 BACKFILLING. Add the following to the first paragraph:

"Duct located under paved areas shall be backfilled with the FA-6 material."

METHOD OF MEASUREMENT

110-4.1 METHOD OF MEASUREMENT. Delete this Section and replace with the following:

"110-4.10 METHOD OF MEASUREMENT. The quantity of duct to be paid for under this item shall be the number of linear feet of the type and size of duct bank installed, measured in place, completed and accepted. Separate measurements for individual ducts in a multi-duct bank will not be made."

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"No separate measurement shall be made for furnishing and installing duct markers as they are incidental to a completed and accepted duct installation.

"Excavation, backfilling, topsoiling, seeding and mulching, or sodding for the trenching and backfilling of the duct installation and handhole installation shall not be paid for separately but shall be included in the unit cost of the duct or handhole."

BASIS OF PAYMENT

110-5.1 BASIS OF PAYMENT. Delete this Section and replace with the following:

"110-5.1 BASIS OF PAYMENT. Payment will be made at the Contract unit price for each type and size of duct bank completed and accepted. These prices shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, for preparation of all duct ends to remain, and for all labor, equipment, tools, and incidentals necessary to complete this item.

"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

"Payment will be made under:

"Item AR110504 4-Way Concrete Encased Duct - per linear foot."

ITEM 125

INSTALLATION OF AIRPORT LIGHTING SYSTEMS

Revise Item 125 of the Standard Specifications and Supplemental Specifications as follows:

125-1.1 DESCRIPTION. Add the following:

“This item shall consist of the adjustment of and relocation of existing stake-mounted lights to the new final grade or to a new location, as shown on the Plans or as directed by the Resident Engineer. This item shall also include the testing of the adjusted and relocated lights, any necessary adjustments, and all incidentals necessary to place the lighting fixture in operation as a completed unit and to the satisfaction of the Resident Engineer.”

125-2.3 CONCRETE. Delete this Section and replace with the following:

“125-2.3 CONCRETE. All structural concrete shall meet the requirements of Item 610.”

125-2.7 ISOLATION TRANSFORMERS. Add the following:

“Isolation transformers shall be Type L-830, for 60 Hertz 6.6/6.6 series circuits, conforming with FAA Advisory Circular 150/5345-47, current issue.”

125-2.8 LIGHT CANS. Revise this section as follows:

Light cans shall be concrete encased Type L-867, Class I, Size B steel base on sand bedding, with L-867 Type I 12-inch steel cover and stainless steel bolts. Concrete shall be in accordance with Item 610.”

125-2.9 LIGHT LENS. Revise this section as follows:

“Lens for the edge fixtures shall be blue in color and shall conform to FAA Advisory Circular 150/5345-46, current issue.”

Add:

125-2.14 ADJUST EXISTING EDGE LIGHT. The Contractor shall adjust the height of existing stake-mounted lights to meet the Project final grade. This adjustment is 12-inches or less. For stake-mounted lights, the Contractor shall relocate the isolation transformer, connectors and sand backfill as necessary to conform with the edge light details on the Plans.

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Add:

125-2.15 RELOCATE EXISTING EDGE LIGHT. The Contractor shall relocate the existing stake-mounted lights to meet the Project final grade and location. For stake-mounted lights, the Contractor shall relocate the isolation transformer, connectors and sand backfill as necessary to conform with the edge light details on the Plans.

Add:

125-2.16 TESTING. Testing and adjustment of the fixtures shall be in accordance with the equipment manufacturer. The Contractor shall use a Fluke Model 87 True RMS Multimeter with a clamp-on current probe - Fluke Model 801-600 to assure the proper adjustment of the installation. The multimeter and probe shall be used to test and adjust the installation in accordance with the recommendations of the fixture manufacturer.

125-3.1 GENERAL. Add the following to this Section:

"The typical details and dimensions shown in the Plans, the Standard Specifications and these Special Provisions shall govern the adjustment and relocation of the edge lights."

125-4.1 METHOD OF MEASUREMENT. Delete this Section in its entirety and replace with the following:

"125-4.1 METHOD OF MEASUREMENT. "The quantity of adjusted edge lights to be paid for shall be the number of stake-mounted lights adjusted, ready for operation, tested and accepted by the Resident Engineer. The quantity of relocated edge lights to be paid for shall be the number of stake-mounted lights relocated, ready for operation, tested and accepted by the Resident Engineer."

125-5.1 BASIS OF PAYMENT. Delete this Section in its entirety and replace with the following:

"125-5.1 BASIS OF PAYMENT. Payment will be made at the Contract unit price for each stake-mounted light adjusted and each stake-mounted light relocated, operational and accepted by the Resident Engineer. These prices shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the items.

"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

"Payment will be made under:

"Item AR125941 Adjust Stake Mounted Light - per each.
Item AR125961 Relocate Stake Mounted Light - per each."

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ITEM 150510

ENGINEER'S FIELD OFFICE

150510-1.1 This item shall consist of furnishing and maintaining in good condition, for the exclusive use of the Resident Engineer, a weatherproof building described hereinafter at the location approved by the Resident Engineer. Unless otherwise approved, the building shall be independent of any buildings used by the Contractor and all keys to the building shall be turned over to the Resident Engineer. The Resident Engineer will designate the location of the building and it shall remain on the work site until released by him. (Mobile units may be substituted with the approval of the Resident Engineer.)

DESCRIPTION

150510-2.1 Engineer's Field Office, Type A - Type "A" field offices shall have a ceiling height of not less than seven (7) feet and a floor space of not less than three hundred and eighty (380) square feet. The office shall be provided with sufficient heat, natural and artificial light and air conditioning. Doors and windows shall be equipped with locks approved by the Resident Engineer. Suitable sanitary facilities meeting Federal, State, and local health department requirements shall be provided and maintained clean and in good working condition and shall be stocked with lavatory and sanitary supplies at all times during the period of the Contract. 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.

In addition, the following equipment and furniture meeting the approval of the Resident Engineer shall be furnished:

- (a) One (1) desk (minimum 42" by 30") with three (3) non-folding chairs with upholstered seats and backs.
- (b) One (1) desk (minimum 42" by 30") with height adjustment (23" to 30") for computer use.
- (c) One (1) four-post drafting table (minimum 37½" by 48") and one (1) adjustable stool.
- (d) One (1) free standing file cabinet, legal size, four-drawer.
- (e) Four (4) folding chairs.
- (f) One (1) carbon dioxide fire extinguisher (ten pound rated capacity).
- (g) One (1) steel equipment cabinet (minimum 44" high by 24" wide by 30" deep) with lock, bolted to the office floor.
- (h) One (1) electric water cooler dispenser and supply of water bottles.
- (i) One (1) 2.5 cubic foot counter-top office refrigerator.
- (j) One (1) 800 watt, 0.8 cubic foot microwave oven.
- (k) One (1) electric tape printing calculator.
- (l) One (1) telephone and **three (3)** telephone lines (one (1) telephone line to have facsimile transmission capability).
- (m) One (1) automatic telephone answering machine.
- (n) One (1) plain paper memory laser facsimile machine (including maintenance and operating supplies).

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- (o) One (1) photocopy machine (including maintenance and operating supplies) capable of collating, enlarging and reducing, and copying onto 8.5" by 11" and 11" by 17" size paper.
- (p) Two (2) 28-quart wastebaskets with 8-gallon trash bags.

BASIS OF PAYMENT

150510-3.1 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, 312, 630, 708, 773, and 815 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 151

CLEARING AND GRUBBING

Revise Item 151 of the Standard Specifications and Supplemental Specifications as follows:

151-2.1 GENERAL. Add the following:

“Clearing and clearing and grubbing of trees will be permitted at any time within the Contract period.”

BASIS OF PAYMENT

Add:

Payment will be made under:

Item AR151450 - Clearing and Grubbing - per acre.

ITEM 152

EXCAVATION AND EMBANKMENT

Revise Item 152 of the Standard Specifications and Supplemental Specifications as follows:

152-1.1 DESCRIPTION. Add the following:

"For the purposes of Excavation and Embankment in this Project, this item is to be constructed for aircraft weighing 60,000 pounds or more (Modified Proctor standard)."

CONSTRUCTION METHODS

152-2.1 GENERAL. Add the following:

"The Contractor will proofroll the subgrade when required by the Resident Engineer, as described in the Plans and as directed by the Resident Engineer. The cost for this proofing will not be paid for separately but shall be included in the cost for Unclassified Excavation."

152-2.2 EXCAVATION. Add the following to the fourth paragraph:

"All material unsatisfactory for use as embankment under paved areas, including broken asphalt and concrete excavated under "Unclassified Excavation", shall be removed by the Contractor to an off-site disposal site. Haul and disposal of these unsuitable materials shall not be measured separately, but their haul and disposal shall be incidental to Unclassified Excavation."

"The Contractor will not be allowed to haul any materials across existing pavements or areas designated by the Airport Owner as used for agriculture or which have been seeded under this or previous contracts.

"Payment for haul away and disposal of unsuitable Unclassified Excavation shall not be made but shall be incidental to Unclassified Excavation."

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.

METHOD OF MEASUREMENT

Add:

152-3.7 Dust control watering will not be measured for payment, but shall be considered incidental to the Contract items for earthwork.

BASIS OF PAYMENT

Add:

Payment will be made under:

Item AR152410 Unclassified Excavation - per cubic yard.

ITEM 156000

EROSION CONTROL

Revise the Recurring Special Provision for Item 156000, Erosion Control as follows.

156000-2.1 SILT FENCE. Delete the first paragraph of this Section and replace with the following:

“This fence shall be of either a prefabricated type or shall be constructed in the field, and regardless of the fabrication method, shall be of materials meeting the dimensions and material requirements shown in the Plans.”

BASIS OF PAYMENT

Add:

Payment will be made under:

Item ARI56510 Silt Fence - per linear foot.

ITEM 156513

SEPARATION FABRIC

This item shall be provided in accordance with the Recurring Special Provision for Item 156513, Separation Fabric.

Payment will be made under:

Item AR156513 Separation Fabric - per square yard.

ITEM 162

CHAIN-LINK FENCES

(Class E)

Revise Item 162 of the Standard Specifications as follows:

162-1.1 DESCRIPTION. Revise the first paragraph to read as follows:

"This item of work shall consist of furnishing and installing new Class E (chain link) fence and gates of the height and configuration at the locations shown and as detailed in shown in the Plans, and in accordance with the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition, IDOT Standard 664001-01, and these Special Provisions. The Class "E" fence and gates shall be the height and configuration as shown in the Plans."

162-2.1 FABRIC. Add the following to the list of fabric types:

"Zinc - 5% aluminum-mischmetal alloy-coated steel."

Rewrite paragraph (a)(1) as follows: Change "AASHTO M181, Type I, Class B" to "AASHTO M181, Type I, Class D"

Rewrite paragraph (a)(2) as follows: Change "AASHTO M181" to "AASHTO M181, Type II"

Rewrite paragraph (a)(3) as follows: Change "AASHTO M181" to "AASHTO M181, Type III"

Rewrite paragraph (a)(4) as follows: Change "AASHTO M181, Type IV bonded" to "AASHTO M181, Type IV, Class B"

Add the following as paragraph (a)(5):

"(5) Zinc - 5% aluminum-mischmetal alloy-coated steel shall conform to the requirements of ASTM F1345, Class 2."

162-2.2 BARBED WIRE. Add the following:

"Three strands of barbed wire shall be used above the top rail on attached to the fence or gate, as shown in the Plans. Barbed wire shall have 4-point barbs spaced a maximum of 5-inches apart. The barbs shall be sharp and tightly wrapped about a uniformly twisted 12-½ (0.0985 inch) gauge line wires, galvanized or aluminized."

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162-2.3 FENCE POSTS, POST TOPS AND EXTENSIONS, RAILS, GATES BRACES, STRETCHER BARS, AND CLIPS. Add the following:

“Top rail will be required, as specified below.”

Rewrite paragraph (a) (1) as follows: Change “ASTM A120” to “ASTM F1083”

Rewrite paragraph (a) (2) as follows: Change “ASTM A120” to “ASTM F1083”

Rewrite paragraph (a) (2) (1) as follows: Change “ASTM A120” to “ASTM F1083”

Rewrite paragraph (a) (3) as follows: Change “ASTM A120” to “ASTM F1083”

Add the following as paragraph (a) (6):

“(6) Steel pipe with Zinc - 5% aluminum-mischmetal alloy-coating conforming to ASTM F1234 Group IC, Type C.”

Add the following:

“Gate Posts. The posts shall be Type A or B. Posts for 20-foot wide gate shall have a nominal O.D. of 3.50 inches and weigh at least 7.58 pounds per foot for Type A and 5.707 pounds per foot for Type B.

“Line Posts. The posts shall be Type A or B. The posts shall have a nominal O.D. of 1.90 inches and weigh at least 2.72 pounds per foot for Type A and 2.28 pounds per foot for Type B.

“Terminal Posts (End, Corner or Pull). Terminal posts shall be Type A or B. Terminal posts shall be 2-³/₈ inch O.D. weighing at least 3.65 pounds by foot for Type A or 3.11 pounds per foot for Type B.

“Top Rail. The fence shall have a continuous top rail for its full length consisting of 1-⁵/₈ inch O.D. pipe, Type A or B, having a minimum weight of 2.27 pounds per foot for Type A or 1.83 pounds per foot for Type B, with minimum bending strength of 202 pounds at the center of a ten-foot span. The top rail shall be fitted with couplings or swedged for connecting the lengths into continuous runs. The couplings shall not be less than 6-inches long, and shall allow for expansion and contraction of the rail.

“Post Braces. Post braces shall be provided for each corner, pull and end post and shall meet the requirements for top rails.

“Post Tops. Post tops shall consist of ornamental tops provided with a hole suitable for through-passage of the top rail. The post tops shall fit over the outside of the posts and exclude moisture from inside the posts.”

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Add the following to paragraph (c):

“Gate frames shall be constructed of a nominal O.D. of 1.90 inches and weigh at least 2.72 pounds per foot for Type A and 2.28 pounds per foot for Type B. The gate frame shall be welded at all corners to form a rigid panel, and filled with fabric matching that specified for fence, and topped with three-strand barbed wire as specified herein. The hinges shall allow the gate to swing 180°. The latches shall be heavy duty and have provision for a pad lock.

“Each gate, other than electric gates, shall be furnished with one padlock, Model Number 21B-1 ½ inch bronze shackle, by Best Access Systems, with core keyed to the Owner’s masterkey system.”

162-2.4 WIRE TIES AND TENSION WIRE. Change “AASHTO M181” to “AASHTO M181, Type I, Class 2 or Type II”

Add the following:

“Coiled spring tension wire of at least 7 gage O.D. vinyl clad steel wire shall be stretched along the bottom of the fence and securely fastened to the fabric with hog rings at 2-foot intervals. The top tension wire is deleted in lieu of the top rail.”

162-2.7 CONCRETE. Add the following:

“A high-early strength concrete may be used. The concrete mix design shall be approved by the Illinois Division of Aeronautics prior to its use on this Project.”

Add:

162-2.8 SIGNS. The Contractor shall provide and install “Restricted Area” signs as shown on the Plans.

Add:

162-2.9 CERTIFICATION AND SHOP DRAWINGS. The Contractor shall submit shop drawings detailing all fence items to be furnished to the Project Engineer for approval. The Contractor shall provide a written certification that all fence materials used in the Work meet the Contract Documents.

CONSTRUCTION METHODS

162-3.1 GENERAL. Add the following:

“New fence shall meet all of the applicable installation requirements of IDOT Standard 664001-01, Chain Link Fence, as revised in the Plans and these Special Provisions, or as directed by the Resident Engineer.”

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162-3.2 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. This clearing/grading shall be incidental to the Contract unit price for fence or gates.”

162-3.3 INSTALLING POST. Add the following to the Standard Specifications and to IDOT Specifications Article 664.04:

“All posts shall be set to a minimum depth of 42 inches below the finished ground line. The fence shall not be erected until the concrete encasement around the post has cured seven days or reached a compressive strength of 2,500 psi. If a high-early strength concrete is used, the fence may be erected once the concrete has reached a compressive strength of 2,500 psi. The contractor shall be responsible for concrete testing other than at 14 and days.”

162-3.8 EXISTING FENCE CONNECTIONS. Add the following:

“The furnishing and installation of new terminal posts and brace spans and any other incidental modifications needed to provide an acceptable connection to existing fence shall not be paid separately but shall be included in the Contract unit price for new fence.”

Add:

162-3.10 GROUNDING. The fencing shall be grounded in the manner and at the locations shown in the Plans. Grounding of the fence will not be measured separately for payment but shall be included in the Contract unit price for fencing.

162-4.1 METHOD OF MEASUREMENT. Add the following:

“Removal and storage on-site of existing fence shall be measured from outside to outside of the length of fence removed and accepted.”

162-5.1 BASIS OF PAYMENT. Add the following:

“If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.”

Delete the last paragraph and replace with the following:

“Payment will be made under:

“Item AR162506 Class E Fence 6' - per linear foot.
Item AR162605 Class E Gate - 5' - per each.”

ITEM 162700

ELECTRIC SLIDING GATE

162700-1.1 DESCRIPTION. This item shall consist of furnishing and installing electric slide gates (6' in height, plus barbed wire) in accordance with these Specifications and at the location shown on the Plans. This item will include all labor, equipment, and materials required to put the proposed electric slide gate in proper working order. The Contractor shall be responsible to ensure that each slide gate, electric gate operator, access control station, and all associated power and control components are compatible with each other to provide a complete and properly operating system suitable for the respective application. This item shall also include furnishing and installing all surge arresters/protectors, disconnects, conduits, ducts, wire, and all other electrical equipment as detailed the Plans and specified herein, necessary for the completion of the gate operator system as detailed on the Construction Plans and within the Specifications. **Connection of the gate operator system to the power source is by others and not in this Contract.**

The 28-foot clear opening gate operator system shall include the following features:

- ❖ New slide gate with operating hardware, gate hydraulic operator, heater, controller, and detector amplifiers.
- ❖ New card reader station. Include 125 sequentially numbered cards with card reader for each gate operator.
- ❖ Each gate shall be a card reader access entry/free exit gate.
- ❖ Each gate shall have an automatic closing feature activated by an adjustable timer. Safety loops shall be provided at both sides of the gate to delay the closing of the gate in the event that it detects that the vehicle has not yet passed through the gate. The inner loop shall also provide automatic opening to exit upon detection of a vehicle.
- ❖ Include audible beeper on each gate operator for indication of gate activation and movement.
- ❖ Provide five (5) remote control transmitter units for automatic gate operation and respective receiver unit on each gate operator.
- ❖ Power for each gate operator shall be from a 120/240 VAC, 1-phase, 3-wire with ground power source located as detailed on the Plans.
- ❖ Controls and associated control wiring shall be as shown on the Plans and detailed herein.
- ❖ Include surge protection on each gate operator and associated control systems.

162700-2.1 MATERIALS. All equipment and materials used in the construction shall be in accordance with the specifications and detailed instructions as furnished by the manufacturer. The Contractor shall furnish shop drawings for approval before ordering material

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- (a) Gate. Gate construction shall comply with ASTM F 1184. The gate frame shall be fabricated from 6063-T6 aluminum alloy extrusions or 6061-T6 structural grade aluminum alloy tubing. The gate shall be metal framed manufactured of aluminum, with cross bracing, and covered with chain link fence fabric, sliding-gate, cantilever-type, capable of spanning the prescribed clear opening, **6 feet in height** and have an enclosed roller assembly to be protected from freezing rain and snow. Fabric shall be 2-inch diamond mesh steel wire, interwoven, minimum 9 gauge thick, top selvage knuckle end closed, bottom selvage twisted tight barbed or knuckle end closed, conforming to Item 162. Gate shall include barbed wire on the top as specified in Item 162. Fittings, sleeves, bands, clips, rail ends, tension bars, fasteners, and additional miscellaneous fittings shall be galvanized steel. Gate posts shall be fabricated from round galvanized steel pipe with outside dimensions and minimum weight according to ASTM F 1184 for Type II Gate Opening Width: Over 12 feet but not over 30 feet. Gate posts shall be 4-inch minimum outside diameter. Gate shall be a Fortress Heavy Duty Cantilever Slide Gate as manufactured by Tymetal Corporation, 2566 State Route 40, Greenwich, New York 12834, Phone: 1-800-328-4283 or 518-692-9930, Fax: 518-692-9404, or approved equal.
- (b) Operator. The hydraulic operator shall be equipped with a minimum one (1) horsepower electric motor capable of operating cantilever gate up to 50 feet in overall length weighing up to 2,000 pounds with a drive rail draw force requirement of no less than 300 pounds without the drive wheels slipping and without distortion of supporting arms. Gate operator velocity shall be approximately 1 feet per second. Gate operators shall be properly sized and compatible with the respective gate furnished. Gate operators shall be equipped with a heater to allow operation within a temperature range of -40°F to +140°F ambient temperature, in rain, snow, sun, and high humidity. Include audible beeper on the gate operator for indication of gate activation and movement. The operator shall consist of the motor starter and all relays required from the operation outlined herein. The operator and components shall be factory assembled and wired so as to require only field connections of the card reader/keypad access station, loops, and system power supply. The operator housing shall be weatherproof, fabricated from steel with a corrosion resistant, powder coated paint finish green to match the fence materials and shall completely enclose the motor and electrical components of the unit. Appropriate time delays shall be incorporated for safe gate operation. Gates shall close automatically after an extensive adjustable delay period, unless manually disabled. The gate operator shall be UL-listed or ETL-listed to have met requirements of UL 325, (Fourth Edition), Standard for Safety for Door, Drapery, Gate, Louver and Window Operators and Systems and the applicable requirements of UL-991 (Second Edition), Standard for Tests for Safety-Related Controls Employing Solid State Design. The proposed gate operator shall Hy-Security Model 222E-ST or approved equal. Supply voltage for the gate operator shall be 120/240 VAC, 1 phase, 3-wire with ground.

Include AC secondary surge arrester at the point of the input power connection to the gate operator. Secondary surge arrester shall be UL-listed and shall be suitable for 120/240 VAC, 1 phase, 3 wire with ground system originating from a 120/240 VAC, 1 phase, 4 wire system, line to line, and line to ground protection modes with a surge current rating of 75,000 Amps maximum 8 x 20 microsecond wave per mode, Ditek Corporation, Model DTK-208-3CMX PLUS, or approved equal. Surge arresters shall have a lifetime product replacement warranty.

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The gate operator foundation will be a minimum of 48 inch depth, to the dimensions recommended by the manufacturer. Foundation shall be constructed of concrete conforming to Item 610. The concrete must have strength of 3,500 psi after 14 days. Anchor bolts shall be per the gate operator manufacturer's requirements.

- (c) Card Station. Card station shall be furnished by the gate operator manufacturer's representative for the purpose of coordinating compatibility between the gate operator and the card reader unit. Contractor shall ensure compatibility between the gate operator control voltages, the card reader input voltage (where applicable), and the respective control interface. Contractor shall include interfacing relays and/or transformers as applicable. Card station shall be a magnetic type card reader, weather resistant for outdoor installation over an ambient temperature range of -40°F to +140°F, surface mount housing with appropriate adapters and hardware to install on a slant stand or gooseneck type pedestal. Card stations shall exclusively accept one type of card. The card station shall be constructed as detailed on the Plans and in accordance to the manufacturer's specifications. The concrete foundation for the reader shall be a minimum of 48 inches below ground level and to the dimensions recommended by the manufacturer. The concrete shall have the same requirements of the operator foundation. Card station shall be Federal APD, Federal Signal Corporation, (42775 Nine Mile Road, Novi, Michigan 48375, Phone: 1-800-521-9330 or 248-374-9600, Fax: 248-374-9610) Model KK IV or an approved equal. Coordinate card types and programming with the Airport Manager.

Where the card reader requires a power supply, include low voltage line protector on the card reader. Low voltage line protector shall be suitable for use on the respective control voltage system used in the card reader, AC or DC protection modes (as applicable) on all lines with a surge current rating of 3000 Amps (maximum). Low voltage line protector for 12 VDC, 24 VDC, or 24 VAC applications shall be Ditek Corporation, Model DTK-4LVLP-CR, or approved equal.

- (d) Detector Amplifiers. Detector amplifiers shall consist of digital design units capable of automatic tuning, pulse and presence outputs, excellent stability and accuracy, with long-term reliability. The device shall be 100 percent solid-state construction, with plug-in and plug-out circuits for rapid repair. The unit shall constantly monitor the frequency of the loop, and compare and adjust automatically for changes, such as loop aging, moisture, mechanical deterioration, and foreign bodies in the loop area. Detector amplifiers shall contain lightning protection and be capable of total loop isolation. Amplifiers shall be mounted in or on the outside of the gate controller housing. Weatherproof enclosures, when required, shall be of NEMA-4 design, powder coated finish green to match fence materials.

The amplifiers shall be capable of stable operation and automatic tuning over a range of minus 40°F to plus 180°F. Loop detectors shall be selective as to direction of travel of vehicle with respect to the instantaneous position of the gate, i.e., close loops will activate system only with gate in open or opening state. Open loop will activate gate only with gate in closed or closing state. Detector amplifiers shall be compatible with the respective power source available or have voltage transformers to provide the proper power source. Detector amplifiers shall be Model B Series as manufactured by Reno A&E, 4655 Aircenter Circle, Reno, Nevada 89502, Phone: 775-826-2020, Fax: 775-826-9191, or an approved equal. Contractor shall verify the selected loop detector is suitable for the respective gate installation.

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Loop detector wiring shall be as specified by the manufacturer furnishing the detector amplifiers.

- (e) Power Source. Power for the gate operator shall be from a 120/240 VAC, 1 phase, 4 wire source and is to be furnished by others and is not included in this Contract. The Contractor will be responsible for providing all necessary material and labor for the installation of electrical power and control wiring from the from the gate operator to the card reader, and from the gate operator to the detector loops. It will also be the Contractor's responsibility to locate, identify and protect all existing utilities. Any damage to these utilities will be immediately repaired at the Contractor's own expense.

- (f) Control Wiring. Control wires between devices shall be copper, Type THWN, No. 14 minimum, color coded and tagged with wire markers for easy identification.

Induction loop feed wires shall be copper, No. 12 minimum, Twin-Twisted-Shielded, meeting the State of Illinois, Department of Transportation, specifications.

Induction loop wire shall be copper, with Teflon insulation, meeting all the requirements of manufacturer of the Detector Amplifier specified above.

Wire shall be as manufactured by General Cable, Inc., Anaconda, or an approved equal.

One (1)-inch Galvanized Rigid Steel conduit will be required for all control wires from outside the pavement area to the operator, from the keypad access control station/card reader to the operator, and from the operator to the loops. All metal conduits entering the gate operator shall be bonded to the frame of the gate operator.

- (g) Remote Receiver. The Contractor shall provide a remote receiver for each gate operator. Remote receiver shall have frequency as specified by the Airport Manager. Frequency is recommended to be within the range of 800 MHz to 1.7 GHz, or per the respective gate operator representative's recommendation to ensure proper operation at the respective location of each installation. Remote receiver shall have proper shielding to eliminate potential problems caused by stray radio frequency interference or noise. Remote receiver shall be high quality and capable of being activated by the respective transmitter at a distance of up to 250 feet. The contractor is responsible to provide a properly operating receiver and transmitter pair for each gate operator.

- (h) Remote Transmitters. The Contractor shall provide with each of the Remote Receivers, **five remote transmitters** for use by airport personnel or other authorized personnel.

- (i) Safety Switches. Furnish and install a safety switch for the respective gate operator as detailed on the Plans and specified herein. Safety switches shall be heavy duty, UL-listed, with amperage, voltage, number of poles, and type (fusible or not fusible), and accessories as detailed on 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 3R and 12 or NEMA 4X enclosures without knockouts. 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, or equivalent.

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- (k) Fuses. Fuses shall be the size and type as shown on the Plans. Fuses shall be manufactured by Bussmann or Littlefuse. Furnish two additional fuses of each size and type used on the project, for use as spares.
- (l) Galvanized Rigid Steel Conduit. All galvanized rigid steel conduit and couplings shall conform to Federal Specification WW-C-581 and conform to Item 110; conduit and fittings shall also conform to the requirements of UL 6 and UL 514B.
- (m) 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 2002 NEC. Liquid-tight flexible metal conduit shall be Anaconda Sealtite Type UA as manufactured by Ananmet Electrical Inc., 1000 Broadway East, Mattoon, IL 61938-0039, Liquatite Type LA as manufactured by Liquatite 222 W. Central Ave., Roselle, IL 60172, or approved equal.
- (n) Schedule 40 PVC Conduit. Schedule 40 PVC conduit shall comply with Item 110 and the following: Conduit shall be Schedule 40 PVC, 90°C, UL-rated or approved equal. Material shall comply with NEMA Specification TC-2 (Conduit), (Fittings UL-514), and UL-651 (Standard for rigid nonmetallic conduit). The conduit and fittings shall carry a UL label (on each 10 foot length of conduit and stamped or molded on every fitting). Conduit and fittings shall be identified for type and manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent.

The conduit shall be made from polyvinyl chloride C-300 compound that includes inert modifiers to improve weather ability, heat distortion. Clean reworked material, generated by the manufacturer's own conduit production, may be used by the same manufacturer, provided the end products meet the requirements of this Specification. The conduit and fittings shall be homogenous plastic material free from visible cracks, holes, or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks, or other imperfections which could mar conductors or cables. Conduit fittings and cement shall be produced by the same manufacturer to assure system integrity and shall be Carlon Plus 40 conduit or equal.

- (o) Junction and Pull Boxes. Unless otherwise noted on the Plans, all junction boxes shall be 16-gauge minimum construction. Surface mounted exterior junction and pull boxes located in non-hazardous, non-classified areas, shall be NEMA 4X stainless steel or aluminum, Hoffman, or approved equal. Flush-mounted exterior boxes located in non-hazardous, non-classified areas, in floors, walkways, and walls shall be NEMA 4, cast aluminum, Crouse-Hinds, Hubbell-Killark, or approved equal, and shall be supplied with asphalt paint applied to all surfaces imbedded in concrete. Junction and pull boxes shall be sized as required for conductors and splices and per 2002 NEC Article 314. Boxes shall be UL-listed. Special boxes made to suit conditions shall be used to accommodate the respective application or where required by National Electrical Code even though they might not be indicated on the Plans.

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- (p) Ground Rods. Ground rods for electrical installations shall be 3/4-inch diameter by 10-foot long, UL-listed, copper clad with 10-mil minimum copper coating. Ground rods for fence grounding shall be 5/8-inch diameter by 10-foot long, UL-listed, copper clad with 10-mil minimum copper coating.
- (q) Legend Plates. Legend plates shall be required for all safety switches, individual circuit breakers, disconnects, etc. Legend plates shall be provided to identify the equipment controlled, the power source, the voltage system, and the function of each device. Legend plates shall be weatherproof and abrasion resistant phenolic material. Lettering shall be black letters on a white background, unless otherwise noted.
- (r) Shop Drawings. Shop drawings are required for the electric gate. **Note: shop drawings that are submitted that do not include all of the following listed requirements will be rejected and will require resubmittal. Contractor shall use the following as a check list and shall verify all information noted below is included with the respective electric gate shop drawing prior to submitting the shop drawing for review. Shop drawing shall be clear and legible. Copies that are illegible will be rejected. Separate shop drawings shall be prepared for each electric gate.** Contractor shall submit sufficient copies of shop drawings to meet the needs of his personnel, sub-contractor personnel, and equipment suppliers plus six copies to be retained by the Project Engineer. Shop drawings shall include the following information:
1. Cut Sheets and specifications for the slide gate including manufacturer's name, address, and phone number, drawing of the gate with dimensions, detail of the enclosed roller assembly, gate post requirements, gate frame material, and details on the fence fabric.
 2. Cut sheets and specifications for the gate operator. Include manufacturer's name, address, phone number, gate operator model number, gate operator UL listing or ETL listing, gate load capability and drive rail force requirements, traveling speed, housing data, input voltage, motor horsepower rating, full load amperage requirements, manufacturer's recommended wiring requirements, and respective options, (heater option, audible beeper option, etc.).
 3. Include information, specs, and cut sheets for the surge suppressor included with the gate operator.
 4. Provide data sheets for the card reader. Include manufacturer's name and model number for the respective access control unit. Include information for the low voltage line protector that is required to be included with each card reader.
 5. Provide data sheets for the detector amplifiers with manufacturer's name and model number. Include lightning protection on the detector amplifiers.
 6. Provide data sheets on the loop/lead-in cables.

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7. Provide cut sheets, information, voltage rating, amperage rating, manufacturer's catalog number, fuse size and manufacturer catalog number, and options for the 30 amp, 3 pole, 240 VAC, UL listed heavy duty safety switch in a NEMA 3R (rain tight) and NEMA 12 (dust tight) enclosure that is for the gate operator.
8. Provide a cut sheets for all types of conduit used with the electric gate (for example galvanized rigid steel conduit, Schedule 40 PVC conduit, and UL listed liquid tight flexible metal conduit).
9. Provide cut sheets with manufacturer's name, catalog number, dimensions, material, and UL listing for each type and size of ground rod used with the electric gate installation.

CONSTRUCTION METHODS

I 62700-3.1 AIRPORT SECURITY. The Contractor will place barricades across the gate opening whenever the existing or proposed gate cannot be closed at the end of the construction day.

I 62700-3.2 SPLICES. Splices, where allowed, shall be the resin encapsulating type, suitable for direct burial, and be as manufactured by 3-M, Burndy, or equal.

I 62700-3.3 MATERIALS FURNISHED BY THE CONTRACTOR. All materials used in this item shall meet the requirements of the respective specifications and no material shall be used until it has been approved by the Project Engineer by means of shop drawings. All materials not otherwise specifically indicated shall be furnished by the Contractor. All materials furnished by the Contractor shall be new.

I 62700-3.4 STORAGE OF MATERIALS. Materials shall be so stored as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms or other hard, clean surfaces and not on the ground, and they shall be placed under cover. Stored materials shall be located so as to facilitate prompt inspection. Storage location shall be approved by the Resident Engineer.

I 62700-3.5 MANUFACTURER'S DIRECTIONS. Manufactured articles, material and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer unless herein specified to the contrary.

I 62700-3.6 CUTTING AND PATCHING. The Contractor shall do all necessary cutting and patching of the pavement that may be required by the Plans and Special Provisions and manufacturer's drawings and specifications as necessary to complete the Item. The Contractor shall restore all such cut or patched areas as directed by the Resident Engineer. Cutting of existing structures that may endanger the Work, adjacent property, workmen or the public shall not be permitted.

I 62700-3.7 CLEAN UP. The Contractor shall remove from the Owner's property and from all public and private property, all temporary structures, rubbish and waste materials resulting from his operation or caused by his employees, and shall remove all surplus materials, leaving the site smooth, clean, and true to line and grade.

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162700-3.8 GUARANTY PERIOD. Neither the final certificate of payment nor any provision in the Contract, nor partial or entire use of the improvements embraced in this Contract by the Owner or public shall constitute an acceptance of Work not performed in accordance with the Contract or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the Work and pay any damage to other work resulting therefrom which shall appear within a period of twelve (12) months from the date of final acceptance of the Work. The Owner shall give notice of defective materials and work with reasonable promptness. The guarantee applies to mechanical equipment furnished as well as to all other work and materials.

162700-3-9 ELECTRIC SLIDE GATE CONSTRUCTION. The Contractor shall install the electric slide gate as detailed on the Plans and in accordance with the manufacturer's directions. The Contractor will be responsible for the construction of any and all concrete bases for the proposed gate operator and card reader.

162700-3.10 GATE CONTROL EQUIPMENT. Installation of all electrical equipment and all gate control equipment shall be in conformance with the requirements of the National Electrical Code (most current issue in force), the respective equipment manufacturer's directions, and in strict accordance with the requirements of all local authorities having jurisdiction. All keypad access control units, card stations, operators, and controllers shall be grounded to prevent shock. All concrete work required, and the precise locations for the installation of the gate controller/operator, keypad access control station/gate card reader, and induction loops, shall be coordinated with the manufacturer's shop drawings.

New loop detector wiring shall be as specified by the manufacturer furnishing the detector amplifiers.

The induction loops shall be equipped with appropriate equipment to operate properly for large trucks and not have a tendency to close the gate onto vehicles parked in the gate opening.

Induction loops shall be installed in saw-cut grooves in the road surface; such grooves of length, width, and depth as required by the manufacturer of the loop control equipment.

Loop wires shall be held in place in the asphalt pavement by covering slot with a sealer such as #E707 by Bondo, or #491 HP by Euclid Chemical Company or an approved equal.

162700-3.11 ELECTRICAL GENERAL. The Contractor shall furnish and install all electrical materials necessary for complete and operational installation of the gate operator, as stipulated in the respective item and as shown on 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 National Electrical Code (most current issue in force), the respective equipment manufacturer's directions, and all other applicable local codes, laws, ordinances, and requirements 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, ETL listing (or other third party listing), and/or the manufacturer's warranty of a device shall not be permitted.

The Contractor should examine the proposed site to evaluate the complexity of the work.

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Contractor shall coordinate work and any power outages to buildings or facilities located on the airport with the Airport Manager and/or the respective building/facility personnel.

Splices in conductors will be allowed only within the specified junction boxes or splice cans. Only splices between loop lead-in wires and the Twin-Twisted-Shielded conductors are approved. Circuit conductors for power wiring shall be continuous from source of power to connected device (from the respective panelboard or load center to the safety switch at the gate operator).

The Contractor shall be responsible for furnishing and setting all anchor bolts required to install his equipment.

Where concrete mounting pads are required for equipment mounting, the Contractor shall furnish all concreting and form work necessary to complete the installation.

Where electrical equipment is located on damp or wet walls or locations as directed, it shall be "stand-off" mounted ½ inch from the wall in a manner so that the rear of the equipment is freely exposed to the surrounding air. The Resident Engineer shall approve the method of mounting before equipment is mounted.

162700-3.12 INSTALLATION OF SAFETY SWITCHES. All 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 minimum 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 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 weatherproof abrasion resistant, engraved legend plates for each safety switch noting the device served, the power source, and the voltage system.

162700-3.13 CONDUIT INSTALLATION. Cable in unit duct and/or conduit for the gate operator power shall be direct bury 24 inch minimum below finished grade. Cable in conduit below roadways and walks shall be minimum 24 inch deep. Installation of cable in unit duct and/or conduit shall conform to Item 108. Installation of conduit shall conform to Item 110, as detailed on the Plans and as specified herein.

All conduit(s) under walks shall be pushed.

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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 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.

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.

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 quarter bends, including bends immediately at an outlet or fitting.

Where conduits enter 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.

Do not run conduit below or adjacent to water piping.

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.

162700-3.14 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 on the plans shall be considered incidental to the respective work item and will not be paid for separately.

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162700-3.15 GROUNDING REQUIREMENTS. Grounding shall conform to the following, as applicable:

The Contractor shall furnish and install all grounding shown on the Plans 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 communications 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 compound before joining, Dearborn Chemical Company "No-Oxide A" compound or equal.
- (c) Metallic surfaces to be joined shall be prepared by the removal of all non-conductive material, per 2005 National Electrical Code Article 250-12.
- (d) 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 (from bushing to the respective ground connection/enclosure frame) for all metal conduits entering service equipment (meter bases, CT cabinet, service disconnects, service panelboards, main service breaker enclosure, etc.). 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 on the Plans or specified herein. Ground rods for electrical installations shall be 3/4 inch diameter, 10 feet long, UL-listed, copper clad with 10-mil minimum copper coating. Ground rods for fence grounding shall be 5/8 inch diameter, 10 feet long, UL-listed, copper clad with 10-mil minimum copper coating. Top of ground rods shall be a minimum of 30 inch below finish grade unless otherwise noted on the Plans. Ground rods shall be spaced as detailed on 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), or Thermoweld by Continental Industries, Inc., Tulsa, Oklahoma (Phone 918-663-1440). 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 stranded copper sized as detailed on the Plans.

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- (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, motors, etc. shall be bonded to the respective grounding system.
- (h) Each feeder circuit and/or branch circuit shall include an equipment ground wire. The equipment ground wire from equipment shall not be smaller than allowed by 2005 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 National Electrical Code. 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 2005 NEC 250-24.
- (i) All exterior metal conduit, 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 2002 NEC 250-102. Where metal conduits terminate in an enclosure (such as a motor control center, gate operator, 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 2005 NEC 250-102.
- (k) Furnish and install a 5/8 inch diameter, 10 feet long, UL-listed, copper clad ground rod within 100 feet of the gate on each side of gate as detailed on the Plans. Top of each ground rod shall be buried 30 inches below grade. Bond the fence fabric to the respective ground rod with a #8 AWG (minimum) bare solid copper conductor. Connection to the ground rod shall be exothermic weld. Connection to the fence fabric shall be with UL listed bronze ground connectors with bronze or stainless steel bolts and washers.
- (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.

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162700-3-16 TESTING. The Contractor shall make at his own expense any tests of equipment, wiring, or insulation deemed necessary by any inspection department or by the Contractor Officer and shall provide all apparatus, meters, materials, and labor required to make such tests, including a temporary power source of the voltage required to operate the gate operator system.

The Contractor shall test and demonstrate to the satisfaction of the Engineer the following:

- (a) That all power and control circuits are continuous and free from short circuits.
- (b) That all circuits are free from unspecified grounds.
- (c) That the insulation resistance to ground of all ungrounded conductors of multiple circuits is not less than 50 megohms.
- (d) That all circuits are properly connected in accordance with applicable wiring diagrams.
- (e) Test and adjust gate operator, controls, safety devices/features, hardware, and other operable components. Confirm that all circuits operate properly.
- (f) Interrupt power to the gate operator and confirm that the gate does not open upon restoration of power. The gate operator shall not activate for a power interruption as it does for a card reader signal input.
- (g) Train the designated owner's personnel on procedures for operation, starting, stopping, troubleshooting, servicing, and maintaining equipment.
- (h) All tests shall be recorded, stating the wire circuit reading, date, and field conditions. Copies of the tests shall be provided to the Resident Engineer.

METHOD OF MEASUREMENT

162700-4.1 The quantity of this item to be furnished and installed shall be measured for payment as a unit price per each for each opening size of electric gate, and shall include all materials, equipment, cable, conduit, ducts, directional boring, grounding, labor, utility coordination, tools, connections, and other incidentals as required to perform the specified work and testing the units for satisfactory operation.

BASIS OF PAYMENT

162700-5.1 Payment will be made at the Contract unit price per each for the card operated electric sliding gate for each opening size and shall be full compensation for all materials, labor and equipment, including gate frame and fabric, operator, card station, detector amplifier, card reader and cards, power and control wiring, remote receiver and transmitters, concrete foundations, conduit and wiring, testing and adjusting of the installation, and all incidental items necessary to complete the item for satisfactory operation, and no additional compensation will be allowed.

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Payment will be made under:

Item AR162728 Electric Gate 28' - per each.

FLEXIBLE BASE COURSES

ITEM 201002

BITUMINOUS BASE COURSE - METHOD II
(Over 2,500 Tons/Pay Item/Location)

Revise Item 201 of the Standard Specifications and the Recurring Special Provision for Item 201002 as follows:

201-1.1 DESCRIPTION. Add the following:

"The Bituminous Base Course for all new pavements shall be placed upon an aggregate base prepared in accordance with Item 602 Bituminous Prime Coat.

"For purposes of materials and design criteria, this item is to be constructed for aircraft weighing 60,000 pounds or more."

COMPOSITION

201-3.2 JOB MIX FORMULA (JMF). Add the following to the beginning of the fourth paragraph:

"Mix Gradation B (1 inch maximum), Table 4, shall be used."

Add the following:

"For purposes of design criteria, this item is to be constructed for aircraft weighing 60,000 pounds or more."

BASIS OF PAYMENT

201-6.1 Add:

Payment will be made under:

Item AR201610	Bituminous Base Course - per ton.
Item AR201620	Bituminous Base Course, Leveling - per ton.
Item AR201630	Bituminous Base Test Section - per each.

ITEM 201671

CRACK CONTROL FABRIC

Revise the Recurring Special Provision for Item 201671 as follows:

MATERIALS

2.1 REFLECTIVE CRACK CONTROL SYSTEM A. Delete this section and replace with the following:

2.1 CRACK CONTROL MATERIAL - TYPE 2. Crack control material shall be "Glas Grid" Model 8501, Complete Road System, as manufactured by Saint-Gobain Technical Fabrics, Corporate & Sales Office, 345 Third Street, Suite 615, Niagara Falls, New York 14303, Webpage www.glasgrid.com, Telephone: 716.285.0731, Toll free: 1.888.549.7667, Facsimile: 716.285.5515, E-mail: glasgrid@sgtf.com, or approved equivalent, and shall contain as a minimum the following specific properties:

Specification for Use in Asphalt Overlays

Material	Fiber glass reinforcement with modified polymer coating and a pressure sensitive adhesive backing
Tensile Strength based on Component Strand Strength, Test Method ASTM D 6637	Across Width = 560 pounds/inch Across Length = 560 pounds/inch
Elongation at Break, Test Method ASTM D 6637	Less than 3 Percent
Melting Point, Test Method ASTM D 276	Greater than 425° F
Mass/Unit Area, Test Method ASTM D 5261-92	11 ounces/square yard
Roll Length	327.0 feet
Roll Width	5.0 feet
Roll Area	181 square yards
Adhesive Backing	Pressure Sensitive
Grid Size	0.5 inch by 0.5 inch

2.2 REFLECTIVE CRACK CONTROL SYSTEM B. Delete this section.

BASIS OF PAYMENT

5.1 Delete this Section and replace with the following:

5.1 The work shall be paid for at the Contract unit price per square yard for Crack Control Material - Type 2. This price shall be full compensation for all materials, labor and equipment, and all incidental items necessary to complete the item in accordance with these specifications.

"Payment will be made under:

"Item AR800996 Crack Control Material - Type 2 - per square yard."

ITEM 209

CRUSHED AGGREGATE BASE COURSE

Revise Item 209 of the Standard Specifications and Supplemental Specifications as follows:

209-1.1 DESCRIPTION. Add the following:

"The Crushed Aggregate Base Course shall be placed upon a prepared subgrade in lifts of limited thickness as required in the Standard Specifications and to total uniform compacted thickness 10-inches, as shown in the Plans."

MATERIALS

209-2.3 GRADATION. Add the following:

"The gradation shall be Gradation B."

CONSTRUCTION METHODS

209-3.6 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 60,000 pounds or more (Modified Proctor standard)."

METHOD OF MEASUREMENT

209-4.1 Delete this Section. Section 209.4.2 of the Supplemental Specifications shall be used.

BASIS OF PAYMENT

209-5.1 Delete this Section and replace with the following:

"209-5.1 BASIS OF PAYMENT. Payment shall be made at the Contract unit price per square yard, per each thickness indicated in the Plans, for Crushed Aggregate Base Course. These prices shall be full compensation for furnishing all materials and for all preparation, operations, hauling, and placing of these materials, for furnishing certified scales, and for all labor, equipment, tools, and incidentals necessary to complete the item.

"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

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"Payment will be made under:

"Item AR209610 Crushed Agg. Base Course - 10" - per square yard."

FLEXIBLE SURFACE COURSES

ITEM 401002

BITUMINOUS SURFACE COURSE - METHOD II
(Over 2,500 Tons/Pay Item/Location)

Revise Item 401 of the Standard Specifications and the Recurring Special Provision for Item 401002 as follows:

401-1.1 DESCRIPTION. Add the following paragraphs:

"Item 603 Bituminous Tack Coat shall be placed between this item and the Bituminous Base Course, and between the first and any subsequent lifts for this item, if applicable, in accordance with Item 603, and as approved by the Resident Engineer.

"For purposes of materials and design criteria, this item is to be constructed for aircraft weighing 60,000 pounds or more."

401-3.2 JOB MIX FORMULA (JMF). Add the following to the beginning of the fourth paragraph:

"Mix Gradation B (¾ inch maximum), Table 4, shall be used."

Add the following:

"For purposes of design criteria, this item is to be constructed for aircraft weighing 60,000 pounds or more."

BASIS OF PAYMENT

Add:

Payment will be made under:

Item AR401610	Bituminous Surface Course - per ton.
Item AR401630	Bituminous Surface Test Section - per each.

ITEM 401650

BITUMINOUS PAVEMENT MILLING

Revise Item 401650 of the Recurring Special Provisions as follows:

DESCRIPTION

1.1 Add the following:

“The required milling varies in depth from 0 to 3 inches. **Milling associated with the pavement removal replacement areas on Taxiway A and at the Taxiway A/A5 Intersection, if the Contractor elects to remove the pavement using the milling method, will be paid under Item 401900.**”

4.1 Delete the last sentence of this section and replace with the following:

“Pavement milling necessary for butting new bituminous pavement with existing pavement to remain will be measured for pavement under this item.”

Add the following:

“Milling associated with the pavement removal replacement areas on Taxiway A and at the Taxiway A/A5 Intersection, if the Contractor elects to remove the pavement using the milling method, will be paid under Item 401900.”

BASIS OF PAYMENT

5.1 Add the following:

“Payment will be made under:

“Item AR401650 Bituminous Pavement Milling - per square yard.”

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ITEM 401660

SAW AND SEAL BITUMINOUS JOINTS

401660-1.1 DESCRIPTION. 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.

401660-2.1 MATERIALS. The joint sealing materials shall conform to ASTM D3405 - Joint Sealants, Hot-Poured, for Concrete and Asphalt Pavements on Runways and taxiways only.

401660-3.1 CONSTRUCTION METHODS. The Contractor shall mark true lines for each joint sealant location. Each location shall then be sawed to the depth should on the Plans and in accordance with Item AR401665. Sawing shall be paid under Item AR401665. 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 on 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.

401660-4.1 METHOD OF MEASUREMENT. The joint sealing filler to be paid for shall be the linear feet of filler or sealer as specified, in place, complete and accepted. Sawing for the bituminous jointing shall be paid under Item AR401665.

401660-4.1 BASIS OF PAYMENT. 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.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR401660 Saw & Seal Bit. Joints - per linear foot.

ITEM 401665

BITUMINOUS PAVEMENT SAWING

401665-1.1 DESCRIPTION. This item shall consist of a saw cut at the extremity of bituminous pavements that are to be removed as shown in the Plans or as directed by the Resident Engineer. Sawing will also be furnished for the purpose of constructing bituminous joint seals at locations on asphalt pavement, as shown in the Plans and as directed by the Resident Engineer. The depth of saw shall be full-depth or partial depth, as shown in the Plans and as directed by the Resident Engineer.

401665-2.1 CONSTRUCTION METHODS. For pavement areas to be removed or milled, prior to excavation or milling, the existing pavement shall be saw cut at the locations shown in the Plans or as directed by the Resident Engineer. It shall be the Contractor's responsibility to determine the actual depth of pavement prior to this saw cut. The pavement to be sawcut will have a thickness of between one (1) and six (6) inches. During removal, should any of the pavement to remain be damaged due to a saw cut of insufficient depth, the damaged pavement shall be replaced in a manner satisfactory to the Resident Engineer. However, this pavement replacement shall not be measured for payment.

For bituminous joint sealing, the saw depth and width shall be as detailed in the Plans.

401665-3.1 METHOD OF MEASUREMENT. This item shall be measured in linear feet marked by the Resident Engineer prior to removal, milling, or jointing. Saw cutting outside the limits marked by the Resident Engineer will not be measured for payment.

401665-4.1 BASIS OF PAYMENT. Payment will be made at the Contract unit price per linear foot for bituminous pavement sawing, which price shall be full compensation for the labor, equipment, tools and incidentals necessary to complete the item as specified.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR401665 Bituminous Pavement Sawing - per linear foot.

ITEM 401900

REMOVE BITUMINOUS PAVEMENT

Revise Item 401900 of the Recurring Special Provisions as follows:

DESCRIPTION

1.1 Add the following:

"The thickness of the bituminous pavement to be removed varies from 0 to 5 inches (4 inches nominal)."

BASIS OF PAYMENT

5.1 Add the following:

"Payment will be made under:

"Item AR401900 Remove Bituminous Pavement - per square yard."

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ITEM 401910

REMOVE AND REPLACE BITUMINOUS PAVEMENT

GENERAL

401910-1.1 This item shall consist of the saw cutting and removing of a portion of an existing bituminous pavement and replacement with new bituminous pavement at the locations shown on the Plans and as directed by the Resident Engineer.

MATERIALS

401910-2.1 Materials used in completing this item shall meet the individual requirements of the Standard Specifications, Supplemental Specifications, Recurring Special Provisions and these Special Provisions. Materials include:

- | | | |
|----|-------------------------------|-------------|
| a. | Bituminous Pavement Sawing | Item 401665 |
| b. | Excavation and Embankment | Item 152 |
| c. | Crushed Aggregate Base Course | Item 209 |
| d. | Bituminous Prime Coat | Item 602 |
| e. | Bituminous Base Course | Item 201 |
| f. | Bituminous Tack Coat | Item 603 |
| g. | Bituminous Surface Course | Item 401 |

CONSTRUCTION METHODS

401910-3.1 This item shall be completed in the following manner:

- a. Saw Cut. The limits of pavement to be removed and replaced will be marked by the Resident Engineer. Initial and secondary saw cuts shall be performed as shown in the Plans. It shall be the Contractor's responsibility to determine the depth of pavement prior to saw cutting to provide a full depth cut. Saw cutting will be measured separately for pavement under Item 401665.
- b. Removal. The pavement - and base material to the depths shown on the Plans - within the patch area shall be excavated and disposed of by the Contractor at an off-Airport location. For removal areas associated with culvert or ductwork installation, all aggregate base material shall be removed. No additional compensation will be made for hauling and disposal of the removed material. During removal, should any of the pavement to remain be damaged, the damaged pavement shall be replaced in a manner satisfactory to the Resident Engineer. However, this additional pavement replacement shall not be measured for payment.

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- c. Subgrade Inspection. For removal areas associated with culvert or ductwork installation, after completion of the culvert pipe or ductbank work, the subgrade will be inspected by the Engineer for its suitability. Should removal and replacement of unsuitable subgrade be required, the Contractor shall replace the subgrade with suitable excess excavated materials in accordance with Item 152. Subgrade replaced will be measured and payment will be made under Item 152.
- d. Crushed Aggregate Base Course. For removal areas associated with culvert or ductwork installation, aggregate base shall be placed as specified in Item 209 and as shown in the Plans. The Resident Engineer shall have a nuclear gauge and qualified operator on the Project for density testing and acceptance.
- e. Bituminous Prime Coat. Bituminous prime coat shall be applied to the aggregate base as specified in Item 602.
- f. Bituminous Base Course. Bituminous base course shall be constructed in accordance with Item 201 and at the thickness shown in the Plans. The maximum thickness of any one lift shall not exceed three inches. The Resident Engineer shall have a nuclear gauge and qualified operator on the Project for density testing and acceptance.
- g. Bituminous Tack Coat. Bituminous tack coat shall be applied as specified in Item 603, when directed by the Resident Engineer.
- h. Bituminous Surface Course. Bituminous surface course shall be constructed in accordance with Item 401, and at the thickness shown in the Plans. The Resident Engineer shall have a nuclear gauge and qualified operator on the project for density testing and acceptance. The surface course shall reestablish the original grades and will be sloped to drain from the original crown.

METHOD OF MEASUREMENT

401910-4.1 Removal and replacement for areas on Taxiway A and the Taxiway A/A5 Intersection (with no or only partial aggregate base removal) shall be the area in square yards measured in place, completed and accepted and paid under Item AR401900 Remove & Replace Bit. Pavement. Areas of removal and replacement associated with culvert and duct work installation (with full removal and replacement of aggregate base material) shall be the area in square yards measured in place, completed and accepted and paid under Item AR401916 Rem & Rep Bit Pavement - Type B. The length and width for measurement will be the outside lines as marked by the Engineer prior to removal. Replacement of areas outside the limits marked by the Engineer will be completed in accordance with this item, but shall not be measured for payment.

With the exception of initial and final saw cutting, which will be measured and paid under Item AR401665, and unsuitable subgrade removed and replaced, which will be measured and paid under item 152, no other material or work will be separately measured for payment.

BASIS OF PAYMENT

401910-5.1 Payment will be made at the Contract unit price per square yard for pavement removal and replacement by type of aggregate removal, which shall be full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the item specified and accepted.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR401910	Remove & Replace Bit. Pavement - per square yard.
Item AR401916	Rem & Rep Bit Pavement - Type B - per square yard.

ITEM 501001

PORTLAND CEMENT CONCRETE PAVEMENT - METHOD I
(Less than or equal to 1,500 Cubic Yards)

Revise the Standard Specifications for Item 501 and the Recurring Special Provision for Item 501001 as follows:

MATERIALS

501-2.6 STEEL REINFORCEMENT. Delete this section and replace with the following:

“501-2.6 STEEL REINFORCEMENT. Reinforcement of panels as shown in the Plans shall be welded wire fabric of the size and dimensions shown in the Plans conforming to ASTM A185.”

501-2.9 COVER MATERIAL FOR CURING. Delete this section and replace with the following:

“501-2.9 COVER MATERIAL FOR CURING. Curing materials shall be a white pigmented liquid membrane-forming compounds for curing concrete conforming to the requirements of ASTM C309, Type 2.”

CONSTRUCTION METHOD

501-3.6(A) PROPORTIONS. Delete this Section in its entirety.

501-3.6(B) PROPORTIONS. Delete all references at the Test Batch, which shall not be required for this Project.

501-3.12 JOINTS. Add the following to (b) Installation:

“All joints shall be saw cut. Only diamond blade saws with water cooling and lubricating shall be used. No dry sawing or inserts will be allowed. Cost for saw cutting shall not be paid for separately but shall be incidental to concrete pavement.

“Protection of previously sawed joints from slip form operations shall be provided in the form of rubber mats or other means acceptable to the Resident Engineer.”

501-3.14 SURFACE TEXTURE. Add the following:

“The Project Engineer will select the type of finish (brush/broom, burlap, astroturf, etc.) to be furnished on the pavement surface based upon the Contractor’s selected construction method (side-form or slip-form) and the type of equipment to be employed.”

501-3.16 SURFACE TEST. Add the following:

“The Contractor shall furnish the Resident Engineer with the size and type of straightedge required to check the pavement components as directed in the various sections of the Specifications.”

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501-3.21 OPENING TO TRAFFIC. Add the following:

“Prior to opening, the pavement shall be cleaned of all deleterious material. Sweeping shall be conducted in such a manner that dust will not affect operations at the Airport.”

BASIS OF PAYMENT

501-5.2 Delete this section and replace with the following:

“This item shall not be paid for separately but shall be provided in accordance with the Special Provision for Item 501910, Remove and Replace PCC Pavement. Joint sawing and sealing for new PCC pavement shall be incidental to Item 501910, and no separate measurement or payment will be made for this work.”

ITEM 501665

PCC PAVEMENT SAWING

501665-1.1 DESCRIPTION. This item shall consist of a saw cut at the extremity of PCC pavements that are to be removed and replaced as shown in the Plans or as directed by the Resident Engineer. The depth of saw shall be full-depth, as shown in the Plans and as directed by the Resident Engineer. This item shall not include sawing of joints for new PCC pavement, which shall be incidental to concreting performed under Item AR501910.

501665-2.1 CONSTRUCTION METHODS. The existing pavement shall be saw cut at the locations shown in the Plans or as directed by the Resident Engineer. It shall be the Contractor's responsibility to determine the actual depth of pavement prior to this saw cut. The pavement to be sawcut will have a thickness of between six (6) and eight (8) inches. During removal, should any of the pavement to remain be damaged due to a saw cut of insufficient depth, the damaged pavement shall be replaced in a manner satisfactory to the Resident Engineer. However, this pavement replacement shall not be measured for payment.

501665-3.1 METHOD OF MEASUREMENT. This item shall be measured in linear feet marked by the Resident Engineer prior to removal. Saw cutting outside the limits marked by the Resident Engineer will not be measured for payment. This item shall not include sawing of joints for new PCC pavement, which shall be incidental to concreting performed under Item AR501910.

501665-4.1 BASIS OF PAYMENT. Payment will be made at the Contract unit price per linear foot for PCC pavement sawing, which price shall be full compensation for the labor, equipment, tools and incidentals necessary to complete the item as specified.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR501665 PCC Pavement Sawing - per linear foot.

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ITEM 501910

REMOVE AND REPLACE PCC PAVEMENT

GENERAL

501910-1.1 This item shall consist of the saw cutting and removing of a portion of an existing PCC pavement and replacement with new PCC pavement at the locations shown on the Plans and as directed by the Resident Engineer.

MATERIALS

501910-2.1 Materials used in completing this item shall meet the individual requirements of the Standard Specifications, Supplemental Specifications, Recurring Special Provisions and these Special Provisions. Materials include:

- | | | |
|----|-------------------------------|-------------|
| a. | PCC Pavement Sawing | Item 501665 |
| b. | Excavation and Embankment | Item 152 |
| c. | Crushed Aggregate Base Course | Item 209 |
| d. | PCC Pavement | Item 501001 |

CONSTRUCTION METHODS

501910-3.1 This item shall be completed in the following manner:

- a. Saw Cut. The limits of pavement to be removed and replaced will be marked by the Resident Engineer. It shall be the Contractor's responsibility to determine the depth of pavement prior to saw cutting to provide a full depth cut. Saw cutting will be measured separately for pavement under Item 501665.
- b. Removal. The PCC pavement within the patch area shall be excavated and disposed of by the Contractor at an off-Airport location. For removal areas associated with culvert or ductwork installation, all existing aggregate base material shall also be removed. No additional compensation will be made for hauling and disposal of the removed material. During removal, should any of the pavement to remain be damaged, the damaged pavement shall be replaced in a manner satisfactory to the Resident Engineer. However, this additional pavement replacement shall not be measured for payment.
- c. Subgrade Inspection. For removal areas associated with culvert or ductwork installation, after completion of the culvert pipe or ductbank work, the subgrade will be inspected by the Engineer for its suitability. Should removal and replacement of unsuitable subgrade be required, the Contractor shall replace the subgrade with suitable excess excavated materials in accordance with Item 152. Subgrade replaced will be measured and payment will be made under Item 152.

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- d. Crushed Aggregate Base Course. For removal areas associated with culvert or ductwork installation, aggregate base shall be placed as specified in Item 209 and as shown in the Plans. The Resident Engineer shall have a nuclear gauge and qualified operator on the Project for density testing and acceptance.
- e. PCC Pavement. PCC pavement shall be constructed to the thicknesses shown in the Plans and in accordance with Item 501001 of these Special Provisions. The surface course shall reestablish the original grades and will be sloped to drain from the original crown.

METHOD OF MEASUREMENT

501910-4.1 Removal and replacement shall be the area in square yards measured in place, completed and accepted. The length and width for measurement will be the outside lines as marked by the Engineer prior to removal. Replacement of areas outside the limits marked by the Engineer will be completed in accordance with this item, but shall not be measured for payment.

With the exception of saw cutting, which will be measured and paid under Item AR501665, and unsuitable subgrade removed and replaced, which will be measured and paid under item 152, no other material or work will be separately measured for payment.

BASIS OF PAYMENT

501910-5.1 Payment will be made at the Contract unit price per square yard for PCC pavement removal and replacement, which shall be full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the item specified and accepted.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR501910 Remove & Replace PCC Pavement - per square yard.

ITEM 602

BITUMINOUS PRIME COAT

This item shall be provided in accordance with the Standard Specifications and Supplemental Specification for Item 602, Bituminous Prime Coat.

Payment will be made under:

Item AR602510 Bituminous Prime Coat - per gallon.

ITEM 603

BITUMINOUS TACK COAT

This item shall be provided in accordance with the Standard Specifications and Supplemental Specification for Item 603, Bituminous Tack Coat.

Payment will be made under:

Item AR603510 Bituminous Tack Coat - per gallon.

ITEM 605

JOINT SEALING FILLER

Revise the Standard Specifications for Item 605 and the Supplemental Specification for Item 605 as follows:

MATERIALS

601-2.1 JOINT SEALING MATERIALS. Add the following:

"(f) Dow Corning 888 non-sag silicone joint sealer shall conform to the following requirements:

Test Method	Test	Material Requirements
<u>As Supplied:</u>		
MIL-S-8802	Extrusion Rate, grams per minute	90 min.
ASTM D 1475	Specific Gravity	1.4 to 1.6
ASTM D 2202	Flow, mm (in.)	5 (0.2) max.
ASTM C 679	Tack-Free Time, minutes	90 max.
<u>Upon Complete Cure:</u>		
ASTM D 2240	Durometer Hardness, Shore A	10-25
ASTM D 412, Die C	Tensile stress at 150% strain, kPa (psi)	310 (45) max.
ASTM D 412, Die C	Elongation, percent	≥1200 min.
ASTM D 5329 ¹	Adhesion to concrete ² , % elongation	500 min.
<u>Performance:</u>		
ASTM C 719	Movement 10 cycles at +100%/-50%	No Failure
ASTM C 793	Accelerated Weathering at 5000 hours	No cracks, blisters Or bond loss

¹ 13 mm (0.5 inch) x 13 mm (0.5 inch) x 51 mm (2.0 inch) joint design.

² Sample cured 7 days at 25.0 ± 1.0°C (77.0 ± 2°F) and 50 ± 5% relative humidity."

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Add:

605-2.2 REQUIREMENTS FOR SILICONE JOINT SEALER. A written certification from the manufacturer stating that the supplied silicone joint sealer complies with the appropriate specifications listed above shall be submitted to the Resident Engineer prior to installation. The date of manufacture shall be provided with each lot. Material more than six months old will not be accepted.

Add:

605-2.3 BACKER ROD. The backer rod shall conform to ASTM D 5249, Type 3, and to the dimensions shown on the Plans.

Add:

605-2.4 PREFORMED FLEXIBLE FOAM JOINT FILLER. The flexible foam filler material shall be in accordance with Article 1051.09 on the IDOT Standard Specifications for Road and Bridge Construction, adopted July 1, 2002, as revised.

CONSTRUCTION METHODS

905-3.1 TIME OF APPLICATION: Add the following:

“For newly constructed pavement, the joints shall be sealed immediately following the curing period or as soon thereafter as weather conditions permit, and before the pavement is open to traffic (including construction traffic).”

605-3.2 EQUIPMENT. Add the following:

“All equipment necessary for the proper construction of this work shall be on the project and in first-class working condition. The equipment shall be as recommended by the manufacturer of the sealer and approved by the Engineer before construction is permitted to start. It shall also meet the following requirements:

“Sawing Equipment. Sawing equipment shall be capable of sawing Portland cement concrete to the specified width and depth.

“Air Compressor. Compressed air equipment shall have traps to prevent the inclusion of water and/or oil in the airline.

“High Pressure Water Washer. The high pressure water washer shall be capable of spraying water with a pressure of 3,000 psi (20,500 kPa).

“Joint Sealing Equipment. The joint sealing equipment shall consist of a power-driven apparatus capable of extruding the material as a continuous feed. The extruding nozzle tip of the machine shall be of such design as to fill the joint uniformly.”

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605-3.3 JOINT SAWING AND PREPARATION. Replace this section with the following:

“605-3.3 JOINT AND CRACK SAWING AND PREPARATION. The joints and cracks shall be sawed and prepared according to the following procedure:

“(a) Joint and Crack Sawing and Cleaning. The minimum allowable joint or crack width is 1/2”. The width to depth ratio for the silicone joint sealer shall be 2:1. (Example: A 1/2” wide joint will have a silicone joint sealer thickness of 1/4”). The joint sealer shall be recessed 3/8” below the surface of the pavement. The depth of the second stage saw cut shall be enough to allow for the joint sealer recess, the joint sealer thickness and the height of the compressed backer rod. (A compressed backer rod may be slightly taller than its uncompressed diameter.)

“(1) New Portland Cement Concrete Pavement. The joint shall be sawed to the dimensions shown on the Plans in two stages. The first stage shall consist of sawing joints to prevent random cracking according to Item 501 of the Standard Specifications for Construction of Airports. The second stage saw cut shall then be performed no earlier than 72 hours after the concrete has been placed. Immediately after performing the second stage saw cut, both faces of the joint shall be cleaned of all laitance and contaminants using a high pressure water wash with a minimum pressure of 3000 psi (20,500 kPa). The joint shall be allowed to dry for at least 7 total days of dry weather since the placement of the concrete.

“(2) Existing Portland Cement Concrete Pavement. The crack shall be sawed to the dimensions shown on the Plans. Immediately after performing the saw cut, both faces of the joint shall be cleaned of all laitance and contaminants using a high pressure water wash with a minimum pressure of 3,000 psi (20,500 kPa). The joint shall be allowed to dry overnight before sand blasting.

“(b) Joint and Crack Preparation. Joint/crack preparation and sealant installation shall be accomplished within the same day. These operations will only be allowed to proceed when the joint is dry and the air temperature is above 41 °F (5 °C). Both faces of the joint shall be sandblasted using a separate pass for each face. The nozzle shall be held at an angle of 30-90 degrees to the joint face at a distance of 1-2 inches (25-50 mm). Sandblasting shall be considered acceptable when the entire joint width of both joint faces has a rough texture to a joint face depth of at least 1.75 times the joint width. There shall be no evidence of saw marks on the joint faces. After sandblasting, the joint shall be cleaned of debris using clean compressed air at a minimum pressure of 90 psi (620 kPa). Gas or electric powered blowers are not acceptable. After the joint has been cleaned with compressed air, the backer rod shall be installed to a uniform depth as shown on the Plans. 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.”

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605-3.4 PLACING JOINT SEALER. Replace this section with the following:

“605-3.4 PLACING JOINT SEALER. Joint and crack preparation and sealant installation shall be accomplished within the same day. These operations will only be allowed to proceed when the joint is dry and the air temperature is above 41 °F (5°C). The sealant shall be applied using equipment recommended by the manufacturer at the thickness shown on the Plans. If a non-sag sealer is used, the surface of the sealant shall then be tooled such that full contact is obtained between the sealant and the joint face and the required recess is obtained. If the joint becomes wet and/or dirty during sealing, sealing will not be permitted to resume until the joint has been restored to a clean and dry state.”

METHOD OF MEASUREMENT

605-4.1 Delete this paragraph and replace with the following:

“4.1 “The cleaning and sealing of joints in existing PCC pavement to be paid shall be the linear feet of filler or sealer as specified, in place, complete and accepted, and paid under Item AR605540 Clean and Seal Joints. The cleaning and sealing of cracks in existing PCC pavement to be paid shall be the linear feet of filler or sealer as specified, in place, complete and accepted, and paid under Item AR605541. Construction of the bituminous pressure relief joint to be paid shall consist of the number of complete pressure relief joints constructed the full width of the pavement as specified, in place, complete and accepted as a complete unit. When required in the construction of new PCC pavement or structures, no measurement will be made for direct payment of filler or sealant, which shall be incidental to work under Item 501910.”

BASIS OF PAYMENT

605-5.1 Add the following to the first paragraph:

“Payment will be made at the Contract unit price per each for Bituminous Pressure Relief Joint, which price shall be full compensation for furnishing all materials and for all preparation, delivering, application of these materials and for all labor, equipment, tools, and incidentals necessary to complete the item.”

Delete the last paragraph listing the pay items and replace with the following:

“Payment will be made under:

Item AR605540	Clean & Seal Joints - per linear foot.
Item AR605541	Clean & Seal Cracks - per linear foot.
Item AR800901	Bituminous Pressure Relief Joint - per each.”

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ITEM 610

STRUCTURAL PORTLAND CEMENT CONCRETE

This item shall be provided in accordance with the Standard Specifications and Supplemental Specification for Item 610, Structural Portland Cement Concrete.

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.

ITEM 620

PAVEMENT MARKING

Revise Item 620 of the Standard Specifications and Supplemental Specifications as follows:

MATERIALS

620-2.2 PAINT. Add the following:

"Permanent white, yellow and red markings shall be of epoxy; permanent blue markings shall be of waterborne."

BASIS OF PAYMENT

620-5.1 Delete the last paragraph and replace with the following:

"Payment will be made under:

"Item AR620530 Pavement Marking-Epoxy - per square foot."

ITEM 701

PIPE FOR STORM SEWERS AND CULVERTS

Revise Item 701 of the Standard Specifications and Supplemental Specifications as follows:

MATERIALS

701-2.1 GENERAL. Add the following:

"The type and class of pipe shall be as shown in the Plans, meeting IDOT Specifications.

"This item also includes the remove of existing pipe at the locations shown in the Plans.

"PVC storm sewer shall be ASTM D3034, SDR 35."

CONSTRUCTION METHODS

701-3.7 BACKFILLING. Add the following:

"No additional compensation will be allowed for backfill material required outside the limits of the specified trench width."

701-3.8 CONNECTIONS. Add the following:

"When sewer installation requires tapping into an existing manhole, the hole shall be cored to allow for appropriate hole sizing. One connection is to be tapped directly into a new culvert pipe, which shall be cored. This work shall be considered installation to the installation of the pipe."

METHOD OF MEASUREMENT

701-4.1 METHOD OF MEASUREMENT. Add the following:

"Select granular material for trench backfill, as shown in the Plans, will not be measured but shall be included in the per linear foot price of the size and type of pipe installed.

"In areas were excavated earth material is used for backfill, as shown in the Plans, the Work shall not be measured for separate payment but shall be included in the linear foot price of the size and type of pipe installed."

BASIS OF PAYMENT

701-5.1 BASIS OF PAYMENT. Delete the last paragraph and insert the following:

"Payment will be made under:

"Item 701008	8" PVC Storm Sewer - per linear foot.
Item AR701512	12" RCP, Class IV - per linear foot.
Item AR701515	15" RCP, Class IV - per linear foot.
Item AR701518	18" RCP, Class IV - per linear foot.
Item AR701524	24" RCP, Class IV - per linear foot.
Item AR701900	Remove Pipe - per linear foot."

ITEM 705

PIPE UNDERDRAINS FOR AIRPORTS

Revise Item 705 of the Standard Specifications as follows:

705-1.1 DESCRIPTION. Add the following:

“The underdrain pipe shall be wrapped with a filter fabric casing. A second Underdrain Trench Envelope surrounding the trench with the underdrain pipe and the porous granular material shall also be included. Where non-perforated pipe is specified, the fabric casing, porous material and trench fabric envelop shall not be provided.

“This item shall also include the installation of concrete underdrain inspection holes and underdrain cleanouts, as shown in the Plans and as specified below.

“This item also includes the removal of existing underdrain cleanout and inspection hole structures at the locations shown in the Plans and as directed by the Resident Engineer.”

MATERIALS

705-2.1 GENERAL. Delete Sections 705-2.2 through 705-2.11.

705-2.12 CORRUGATED POLYETHYLENE (PE) TUBING AND IGS FITTINGS. Delete this Section and replace with the following:

705-2.12 CORRUGATED POLYETHYLENE (PE) TUBING AND COUPLINGS AND FITTINGS. All underdrain shall be 4-inch perforated corrugated polyethylene (PE) pipe, **double wall** with a smooth inner surface, conforming to the requirements of AASHTO M 252, Type SP, Class 2. The underdrain shall be wrapped with a filter fabric casing, as noted in Section 705-2.13.

“Non-perforated tubing shall be 4-inch PE pipe without fabric casing, and used where shown in the Plans.”

705-2.13 FILTER FABRIC ENVELOPES FOR PERFORATED (PE) TUBING. Delete this section and replace with the following:

705-2.13 FILTER FABRIC CASING FOR PERFORATED (PE) TUBING. The fabric for encasing perforated corrugated polyethylene (PE) tubing may be either a knitted, woven or nonwoven fabric. The fabric casing shall be factory applied to the PE tubing. The filter fabric will not be measured separately but shall be included in the unit price for underdrain pipe.

“(a) Materials.

- (1) Knitted Fabric. Knitted fabric casing shall be an approved continuous one-piece knitted polyester material that fits over the PE tubing like a sleeve. It shall be knitted of continuous 150 denier polyester yarn and shall be free from any chemical treatment or coating that might significantly reduce porosity and permeability.
- (2) Woven or Nonwoven Fabric. The filaments for woven or nonwoven fabric shall be polypropylene, polyester, nylon or polyethylene. The filaments must be dimensionally stable (i.e., filaments must remain in relative position with respect to each other) and resistant to delamination. The filaments must be free from any chemical treatment or coating that might significantly reduce porosity and permeability. Nonwoven fabric may be needle punched, heat-bonded, resin-bonded or combinations thereof.
- (3) The physical properties for both knitted and woven or nonwoven fabric shall conform to the following:

Physical Properties (English)	Knitted	Woven or Nonwoven
Minimum Weight (oz./sq. yd.)	3.5 applied ASTM D3887 4.8 relaxed ASTM D3887	3.5 ASTM D-3776
Min. Wet Grab Tensile Strength (lbs.)	50 ASTM D-4632	100 ^{1/} ASTM D-4632
Grab Elongation @ Break (%)		20 min. ^{1/} ASTM D-4632
Equivalent Opening Size (EOS No.)	30 min. ^{2/} Corps of Engineers CW-02215	30 min. nonwoven ^{2/} 50 min. woven ^{2/}
Burst Strength (PSI)	100 min. ^{2/} ASTM D-3887	

Physical Properties (Metric)	Knitted	Woven or Nonwoven
Minimum Weight (g/m ²)	120 applied ASTM D3887 160 relaxed ASTM D3887	120 ASTM D-3776
Min. Wet Grab Tensile Strength (N)	225 ASTM D-4632	450 ^{1/} ASTM D-4632
Grab Elongation @ Break (%)		20 min. ^{1/} ASTM D-4632
Equivalent Opening Size (EOS No.)	600 μm min. ^{2/} Corps of Engineers CW-02215	600 μm nonwoven ^{2/} 300 μm min. woven ^{2/}
Burst Strength (PSI)	690 min. ^{2/} ASTM D-3887	

^{1/} For woven fabric, test results shall be referenced to orientation with warp or fill, whichever the case may be.

^{2/} Manufacturer’s certification to meet test requirements.

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“(b) Handling and Storage. The knitted fabric envelope shall be applied to the pipe underdrain in the shop so as to maintain a uniform applied weight. Woven and nonwoven fabric or underdrains with knitted fabric envelope shall be delivered to the jobsite in such manner as to facilitate handling and incorporation into the work without damage. Fabric envelope materials shall be stored in UV-resistant bags until just prior to installation. In no case shall the fabric be stored or exposed to direct sunlight that might significantly diminish its strength or toughness. Torn or punctured fabric envelope shall not be used.”

705-2.15 POROUS BACKFILL. Add the following:

“Porous backfill material shall meet the requirements for "Porous Material No. 2" shown in Table 1, or shall conform to the requirements for IDOT CA-14 or IDOT CA-16.”

Add:

705-2.16 CONCRETE. Concrete for connections to drainage structures or other miscellaneous items shall conform to Item 610, Structural Portland Cement Concrete.

Add:

705-2.17 ELASTOMERIC SEALS. Elastomeric seals shall conform to the requirements of ASTM F 477.

Add:

705-2.18 UNDERDRAIN TRENCH ENVELOPE. The trench for the underdrain pipe and porous material shall be wrapped in a nonwoven filter fabric envelope. The trench fabric shall be Mirafi 140N, by TC Mirafi, or equal, meeting the specifications for nonwoven fabric listed in Section 705-2.13. Alternate fabrics may be submitted for consideration by the Engineer. The filter fabric shall not be measured separately but shall be included in the unit price for underdrain pipe.

Add:

705-2.19 UNDERDRAIN INSPECTION HOLE AND CLEANOUT. Underdrain inspection hole and cleanout shall be as shown in the details and notes shown on the Plans. Concrete collar may be cast-in-place of concrete meeting Item 610 or pre-cast meeting IDOT Specifications for Class PC concrete. Pre-cast structures shall be from IDOT-approved sources. Frame and grate shall be as noted in the Plans. The area between the pipe and the frame opening shall be grouted and sealed with a cement mortar. Separate payment for the frame and grate, cement mortar and other incidentals shall not be made but shall be included in the unit price for inspection hole and cleanout.

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Add:

705-2.20 PIPE/MANHOLE CONNECTIONS. Connections to the storm sewer system are to be made at manholes unless otherwise shown on the Plans. These connections shall be made through smooth holes in the manhole made at the proper invert elevation. Concrete conforming with Item 610 shall be used. Connections to structures shall not be paid for separately but shall be included in the Contract price for underdrain.

CONSTRUCTION METHODS

705-3.3 LAYING AND INSTALLING PIPE. Delete paragraphs (a), (b) and (c) and replace with the following:

“Underdrains using **perforated** corrugated polyethylene tubing shall be constructed as follows:

“(a) Trench. Trenches shall be excavated to the dimensions and grades required by the Plans or as directed by the Resident Engineer. In no case shall the width of trench exceed 12 inches. The trench depth shall include the 4-inch bedding to meet the pipe inverts shown on the Plans.

“(b) Trench Envelope Filter Fabric. The fabric envelope shall be delivered to the jobsite in such a manner as to facilitate handling and incorporation in the Work without damage. Fabric envelope materials shall be stored in UV-resistant covering until just prior to installation. In no case shall the fabric be stored or exposed to direct sunlight that might significantly diminish its strength or toughness. Torn or punctured fabric envelope shall not be used.

“After all the necessary excavations of the trench to the required depth have been made, and the trench leveled and smoothed as shown in the Plans, the fabric shall be loosely rolled out in such a manner that the center of the fabric is at the centerline of the excavated trench.

“The fabric should not be stretched so that it will tear when the aggregate is placed. When several sections of fabric are used, the fabric shall overlap a minimum of 2 feet to assure continuity of the filter. Sufficient fabric shall remain uncovered to provide for fabric overlap at the top.

“(c) Pipe. Prior to installing the pipe, a 4-inch layer of porous backfill meeting the requirements of Paragraph 2.15 shall be constructed in the bottom of the trench. Perforated, corrugated polyethylene tubing with filter fabric sock shall be seated in the porous backfill and held firmly in place, while porous backfill meeting the requirements of Paragraph 2.15 is carefully placed to a height of 5 inches \pm 1 inch above the tubing. After the first lift is compacted to the satisfaction of the Engineer, the remainder of the backfill shall be placed and compacted.

“Following the backfilling operation, the trench fabric envelop shall be lapped over the top and covered with another specified material.

“Perforated, corrugated polyethylene tubing shall be laid true to grade and shall not be stretched more than 5% during installation. The Contractor shall be required to establish control grade on the underdrain pipe to ensure the pipe is installed at the proper elevation.

Contract grade elevations are to be provided to the Resident Engineer upon request.”

“Underdrains using **non-perforated** corrugated polyethylene tubing shall be constructed as follows:

“(a) Trench. Trenches shall be excavated to the dimensions and grades required by the Plans or as directed by the Resident Engineer. In no case shall the width of trench exceed 12 inches. As bedding material is not needed, the trench depth shall be the pipe inverts shown on the Plans.

“(b) Pipe. After all the necessary excavations of the trench to the required depth have been made, and the trench leveled and smoothed as shown in the Plans, the non-perforated pipe shall be seated in the trench bottom and held firmly in place, while select excavated material is placed to a height of 5 inches \pm 1 inch above the tubing. After the first lift is compacted to the satisfaction of the Engineer, the remainder of the backfill shall be placed and compacted.

“Non-perforated, corrugated polyethylene tubing shall be laid true to grade and shall not be stretched more than 5% during installation. The Contractor shall be required to establish control grade on the underdrain pipe to ensure the pipe is installed at the proper elevation. Contract grade elevations are to be provided to the Resident Engineer upon request.”

705-3.4 MORTAR. Delete this section.

705-3.5 JOINTS IN CLAY OR CONCRETE PIPE. Delete this entire section.

705-3.6 BACKFILLING. Add the following:

“Backfilling for perforated underdrains shall be as detailed in the Plans.”

705-3.7 CONNECTIONS. Add the following:

“Connections to concrete pipe or manholes shown on the Plans shall be sealed with structural Portland cement concrete, as specified in Item 610.”

METHOD OF MEASUREMENT

Add:

705-4.3 The number of underdrain inspection holes and cleanouts shall be the number of units for each type of structure installed complete in place and accepted.

BASIS OF PAYMENT

705-5.1 BASIS OF PAYMENT. Revise this section as follows:

“Payment will be made at the Contract unit price per linear foot for pipe underdrain of the type, class, and size designated. The fabric wrap on the pipe and the trench filter fabric envelope will not be measured separately for payment but shall be included in the unit price for underdrain pipe. Porous Material No. 2 shall be paid at the Contract unit price per cubic yard for Porous Backfill No. 2. Underdrain inspection hole and cleanout shall be paid at the Contract unit price per each type of structure installed and accepted by the Resident Engineer. These prices shall be full compensation for furnishing all materials and for all preparation, hauling, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

“If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

“Payment will be made under:

Item AR705412	Porous Backfill No. 2 - per cubic yard.
Item AR705504	4" Perforated Underdrain - per linear foot.
Item AR705630	Underdrain Inspection Hole - per each.
Item AR705640	Underdrain Cleanout - per each.”

ITEM 751

MANHOLES, CATCH BASINS, INLETS AND INSPECTION HOLES

Revise Item 751 of the Standard Specifications and Supplemental Specifications as follows:

DESCRIPTION

751-1.1 Add the following to the first paragraph:

"This item shall also meet IDOT Specifications and AASHTO M 199 (ASTM C-478) for pre-cast drainage structures.

"This item shall also include the adjustment of existing manhole/catch basin frames and grates to the new finished elevation."

CONSTRUCTION METHODS

Add:

751-3.11 PROVISIONS FOR TRENCH DRAIN AND UNDERDRAIN CONNECTIONS. Concrete manhole and inlet structures shall include pre-cast holes for use in making trench drain and/or underdrain pipe connections at those locations and at the inverts shown in the Plans and schedules. This pre-cast work shall be incidental to the manhole or inlet.

Add:

751-3.12 ADJUST MANHOLE OR CATCH BASIN. The existing frame and grate for each manhole or catch basin identified for adjustment shall be to adjusted to meet the new final grade. Adjustments shall be made by adding to or removing the appropriate number or size of adjusting rings. The adjusted frame shall be resealed in accordance with Item 751. Adjusting rings, mortar and other materials used in manhole adjustment shall not be measured for payment but shall be incidental to the Contract unit price for manhole or catch basin adjustment.

METHOD OF MEASUREMENT

751-4.1 Add the following:

"The number of manholes adjusted shall be the number of existing frame and grate units adjusted to the new elevation and accepted in accordance with this Item and shall be counted and measured as one unit.

"The number of catch basins adjusted shall be the number of existing frame and grate units adjusted to the new elevation and accepted in accordance with this Item and shall be counted and measured as one unit."

BASIS OF PAYMENT

751-5.1 Add the following:

“The number of accepted manholes adjusted shall be paid at the Contract unit price per each, complete and accepted. The number of accepted catch basins adjusted shall be paid at the Contract unit price per each, complete and accepted. These prices shall be full compensation for furnishing all materials and all preparation, excavation, backfilling, placing and adjusting of the materials; furnishing and installation of such specials and connections to pipes and other structures as may be required to complete the item as shown in the Plans, and; for all labor, equipment, tools and incidentals necessary to complete the item.

“If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.”

Delete the pay item listing and replace with the following:

“Payment will be made under:

Item AR751410	Inlet - per each.
Item AR751540	Manhole 4' - per each.
Item AR751550	Manhole 5' - per each.
Item AR751943	Adjust Manhole - per each
Item AR751946	Adjust Catch Basin - per each.”

ITEM 752

CONCRETE CULVERTS, HEADWALLS AND MISCELLANEOUS DRAINAGE STRUCTURES

Revise Item 752 of the Standard Specifications and Supplemental Specifications as follows:

DESCRIPTION

752-1.1 Add the following:

"The precast flared end section shall meet the requirements of IDOT Specifications.

"This item shall also consist of the grating for concrete flared end sections at the dimensions shown in the Plans. **The Contractor shall coordinate the grating dimensions shown in the Plans with the manufacture of the pre-cast flared end section.**"

MATERIALS

Add:

752-2.2 GRATING FOR CONCRETE FLARED END SECTION. Grating dimensions shall be as shown in the Plans. Structural steel shall conform to Section 1006.04 of the IDOT Specifications. Galvanized steel pipe shall conform to Section 1006.27 (b) of the IDOT Specifications. Nuts, bolts and washers shall be in accordance with Section 1006.27 (f) of the IDOT Specifications. All fabrication shall be completed prior to galvanizing. **The Contractor shall coordinate the grating dimensions shown in the Plans with the manufacture of the pre-cast flared end section.**"

METHOD OF MEASUREMENT

752-4.1 METHOD OF MEASUREMENT. Add the following:

"The quantities of grating for concrete flared end sections measured for payment shall be the actual number of gratings installed by the Contractor and accepted by the Resident Engineer.

BASIS OF PAYMENT

752-5.1 BASIS OF PAYMENT. Revise this section to read as follows:

"The accepted number of concrete flared end sections will be paid for at the Contract unit price per each, complete and in place. The accepted number of gratings for concrete flared end sections will be paid for at the Contract unit price per each, complete and in place. These prices shall be full compensation for furnishing all materials and for all preparation, excavation, backfilling and placing of the materials; furnishing and installation of such specials and connections to pipes and other structures as may be required to complete the item as shown in the Plans, and disposal off-site of removed items; and for all labor, equipment, tools and incidentals necessary to complete the structure.

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"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

"Payment will be made under:

"Item AR752412 Precast Reinforced Conc. FES 12" - per each.
Item AR752512 Grating for Conc. FES 12" -per each."

ITEM 800330

TRAFFIC CONTROL

DESCRIPTION

800330-1.1 DESCRIPTION. This item shall consist of furnishing, transporting, installing, maintaining, relocating and removal of all traffic control devices when working on Airport access and service roads, as shown on the Plans and associated details.

MATERIALS

800330-2.1 MATERIALS.

The materials shall be provided in accordance with the Plans, IDOT Standard 701301-02, and Article 701.02 of IDOT Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised.

CONSTRUCTION REQUIREMENTS

800330-3.1 CONSTRUCTION REQUIREMENTS.

The item shall be completed in accordance with the Plans and Articles 701.04, 701.05, 701.06 of IDOT Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised. Removal, relocation, maintenance and inspection of traffic control devices, as required by the Contractor's activities, shall be included in the item and not measured separately for payment.

METHOD OF MEASUREMENT

800330-4.1 METHOD OF MEASUREMENT. Traffic control furnished in accordance with IDOT Standard 701301-02, and as shown in the Plans, shall be measured as lump sum.

BASIS OF PAYMENT

800330-5.1 BASIS OF PAYMENT. Traffic control under Standard 701301-02 shall be paid at the contract unit price per lump sum for work under this item. This unit price shall be full compensation for furnishing all labor, materials, tools, equipment and incidentals, including that for relocation, removal and maintenance of the materials, and necessary to complete the item as specified.

Payment will be made under:

Item AR800330 Traffic Control - per lump sum.

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ITEM 800927

GRANULAR DRAINAGE SUBBASE

GENERAL

800927-1.1 This item shall consist of furnishing, placing, shaping and compacting crushed stone for use as a granular subbase course and drainage layer. The material is to be placed to the lines and grades as shown on the Plans and as directed by the Resident Engineer.

MATERIALS

800927-2.1 COARSE AGGREGATE. The crushed coarse aggregate shall conform with the requirements of Article 1004.01 of IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2002, and the following specific requirements:

- (a) Description. The coarse aggregate shall be crushed gravel, novaculite, crushed stone or crushed sandstone. **Pit run gravel and gravel shall not be used for the granular subbase material.**

The granular material, if approved by the Engineer, may be produced by blending aggregates from more than one source, provided the method of blending results in a uniform product. The components of a blend may not be of the same kind of material. The source of material shall not be changed during the progress of the Work without written permission of the Engineer. Where a natural aggregate is deficient in fines, the material added to make up deficiencies shall be a material approved by the Engineer.

- (b) Quality. The coarse aggregate shall be Class D Quality or better.

- (c) Gradation. The coarse aggregate base gradation shall be CA-7.

- (d) Plasticity. All material shall have a plasticity ratio of 0 to 4 percent. The plasticity index requirement for crushed gravel and crushed stone may be waived if the ratio of the percent passing the No. 200 sieve to that passing the No. 40 sieve is 0.60 or less.

The plasticity index shall be determined by the method given in AASHTO T90. Where shale in any form exists in the producing ledges, crushed stone samples shall be soaked a minimum of eighteen hours before processing for plasticity index or minus No. 40 material. When clay material is added to adjust the plasticity index, the clay material shall be in a minus No. 4 sieve size.

CONSTRUCTION METHODS

800927-3.1 GENERAL. All work involved in clearing and stripping of quarries and pits, including the handling of unsuitable material, shall be performed by the Contractor at his own expense. The subbase material shall be obtained from approved sources. The material shall be handled in a manner that shall secure a uniform and satisfactory product.

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800927-3.2 EQUIPMENT. All equipment necessary for the proper construction of this Work shall be on the Project, in first-class working condition, and approved by the Resident Engineer before construction is permitted to start. Equipment available shall meet the requirements of IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2002, Article 311.03, of Section 311, Granular Subbase.

800927-3.3 PREPARING UNDERLYING COURSE. The underlying subgrade shall be checked and accepted by the Resident Engineer before placing and spreading operations are started. The subgrade shall be free of ruts, objects and debris.

The crushed aggregate is to be placed over a separation fabric as specified in Item 156513. The furnishing and placement of the fabric will be paid under Item AR156513. The aggregate will be spread over the fabric in a manner that is not injurious to the fabric. To protect the underlying course and to insure proper drainage, the spreading of the aggregate shall begin along the centerline of the area for a crowned section or on the high side of the pavement with a one-way slope.

Grade control shall be provided by the Contractor shall be provided using string lines, checkboards, forms or other suitable methods that will assure that the separation fabric beneath is not damaged.

800927-3.4 PLACING AND SPREADING. The depositing and spreading of the material shall commence where designated and shall progress without breaks. The material shall be deposited and spread on the underlying subgrade and separation fabric in lanes of a uniform thickness and gradation, without segregation by size or pockets of fine or coarse materials, and to such loose depth that, when compacted, the layer shall have the required thickness. The aggregate shall be spread by spreader boxes or other approved devices or methods that shall spread the aggregate in the required amount to avoid or minimize the need for re-handling the material and to prevent the rutting of the underlying subgrade. Hauling over the un-compacted material shall not be permitted.

No material shall be placed in snow or on a soft, muddy, or frozen underlying course. When more than one layer is required, the construction procedure described herein shall apply similarly to each layer.

During the placing and spreading, sufficient caution shall be exercised to prevent the incorporation of subgrade or shoulder material in the base mixture.

800927-3.5 ROLLING AND COMPACTING. After spreading, the crushed aggregate shall be thoroughly compacted by rolling. The rolling shall progress gradually from the sides to the center of the lane under construction, or from one side toward previously placed material by lapping uniformly each preceding rear wheel track by one-half the width of such track. Rolling shall continue until the stone is thoroughly set, the interstices of the material reduced to a minimum, and creeping of the stone ahead of the roller is no longer visible. The base shall be compacted to the satisfaction of the Resident Engineer.

The course shall not be rolled when the underlying course is soft or yielding or when the rolling causes undulation in the subbase course.

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In areas inaccessible to rollers, the crushed aggregate material shall be tamped thoroughly with mechanical tampers.

The sprinkling during rolling, if necessary, shall be in the amount and by equipment approved by the Resident Engineer.

800927-3.6 FINISHING OF SUBBASE. Prior to final shaping, the subbase shall be brought to true shape. After the subbase has been brought to its true shape and correct elevation, the surface shall be wetted and rolled as directed by the Resident Engineer with a three-wheel or tandem roller weighing of between 6 and 10 tons and weighing not less than 200 pounds/inch nor more than 325 pounds/inch of width of the roller.

After the subbase has been compacted and shaped, the surface of the subbase shall be tested for crown and elevation. The Contractor shall furnish all equipment necessary for these checks. Any portion lacking the required smoothness or failing in accuracy of grade or crown shall be scarified, reshaped, re-compacted, and otherwise manipulated as the Resident Engineer may direct until the required smoothness and accuracy are obtained. The finished surface shall not vary more than 1/2-inch from a 16-foot straightedge when applied to the surface parallel with, and at right angles to, the centerline, or shall not be more than 0.05 foot from the true grade as established by grade hubs or pins.

The Contractor shall have at all times a minimum of one (1) day's production of subbase ahead of the paving.

The subbase shall be moist at the time of placing subsequent base materials. If the subbase subsequently becomes too dry, it shall be sprinkled again, in such a manner as not to form puddles of water. The Contractor shall provide water and all equipment necessary to meet this requirement. The cost of watering shall be incidental to the Contract.

800927-3.7 TOLERANCE IN THICKNESS. The subbase shall be constructed to the thickness shown on the Plans. Thickness determinations shall be made by depth tests or cores taken at intervals in such a manner that each test shall represent no more than 400 square yards. When the base deficiency is more than 1/2-inch, the Contractor shall correct such areas by scarifying, adding satisfactory base mixture, rolling, sprinkling, reshaping, and finishing in accordance with these Specifications.

The Contractor shall replace, at his expense, the subbase material where borings have been taken for test purposes.

800927-3.8 PROTECTION. Work on the subbase shall not be accomplished during freezing temperatures nor when the subgrade is wet. When the aggregates contain frozen materials or when the underlying course is frozen, the construction shall be stopped.

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Hauling equipment may be routed over completed portions of the subbase, provided no damage results and provided that such equipment is routed over the full width of the course to avoid rutting or uneven compaction. However the Resident Engineer shall have the full and specific authority to stop all hauling over completed or partially completed subbase when, in his opinion, such hauling is causing damage. Any damage resulting from routing equipment over the course shall be repaired by the Contractor at his own expense.

800927-3.9 MAINTENANCE. Following the completion of the subbase, the Contractor shall perform all maintenance work necessary to keep the subbase in good condition. The subbase shall be properly drained at all times. If cleaning is necessary, any work or restitution necessary shall be at the expense of the Contractor.

METHOD OF MEASUREMENT

800927-4.1 The Crushed Aggregate Drainage Subbase to be paid for shall be the measured area in square yards for each thickness of subbase course placed, bonded and accepted by the Resident Engineer.

BASIS OF PAYMENT

800927-5.1 Payment will be made at the Contract unit price per square yard, per each thickness indicated on the Plans, for Crushed Aggregate Drainage Subbase. This price shall be full compensation for furnishing all materials and for the preparation, hauling, and placing of these materials, for furnishing certified scales, and for all labor, equipment, tools and incidentals necessary to complete the item.

Payment will be made under:

Item AR800927 Granular Drainage Subbase - 4" - per square yard.

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ITEM 800932

RUNWAY CLOSURE MARKER - SET

GENERAL

800932-1.1 This item shall consist of furnishing, placing, relocating and removing manufactured re-usable temporary runway closure markers to indicate that a runway is closed for aircraft use. The marker set - for two ends of the runway, with matching storage bag - are to be placed as noted in the Plans and as directed by the Resident Engineer. The marker set and matching storage bag are to remain as the property of the Airport Owner at project completion.

MATERIALS

800932-2.1 The runway closure marker set (for two runway ends) and storage bag shall be durable lightweight vinyl coated windscreen material which provides a solid appearance clearly indicating a runway is closed for aircraft use at an airport. The design shall have been tested under actual runway conditions for civilian and military runways and meet the requirements of FAA Advisory Circular 150/5340-1H and FAR Part 139 requirements. The material shall be yellow with a visible enhanced black border, and mildew and ultraviolet resistant.

The material shall be manufactured by Neubert Aero Corporation Item TS-100 (for two runway ends) with matching storage bag. Suppliers include:

- | | |
|--|---|
| ❖ Neubert Aero Corporation
4105 West DeLeon Street
Tampa, Florida 33609-3851
Telephone: 727.789.8922
Facsimile: 727.789.2015 | ❖ Serrot Paving Products
4439 Town Center Place
Kingwood, Texas 77339
Telephone: 281.360.8281
Facsimile: 281.360.9180 |
|--|---|

CONSTRUCTION METHODS

800932-3.1 The markers shall be placed on the runway as noted in the Plans and as directed by the Resident Engineer. The markers shall be secured in placed to resist blowing winds and weather using the methods and means recommended by the manufacturer. The Contractor shall install the markers, maintain the installation, relocate and reinstall as necessary, and remove the markers as required to complete the Work.

At project completion, the markers shall become the property of the Airport Owner. The Contractor shall deliver the markers in the matching storage bag to an on-Airport location designated by the Resident Engineer.

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METHOD OF MEASUREMENT

800932-4.1 The quantities of markers measured for payment shall be the number of marker sets (for two runway ends and with matching storage bag) furnished, installed, relocated, removed and delivered to the Airport Owner and stored at an on-Airport location and accepted by the Resident Engineer. Separate measurement shall not be made for methods, means and materials necessary to secure the markers from wind and weather as recommended by the marker manufacturer.

BASIS OF PAYMENT

800932-5.1 Payment will be made at the Contract unit price per each of runway closure marker set (for two runway ends with matching storage bag) accepted and delivered to the Airport Owner, which price shall be full compensation for all materials, and the labor, equipment, tools and incidentals necessary to complete the item as specified.

If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.

Payment will be made under:

Item AR800932 Runway Closure Marker-Set - per each.

ITEM 800972

PARTIAL DEPTH BITUMINOUS CRACK REPAIR AND PATCH

GENERAL

800972-1.1 This item shall consist of bituminous crack repair utilizing a modified isolation system. The modified system consists of 2-inch depth milling, application of a highly modified polymer bituminous sand mix (interstabilizing) layer, and installation of a crack control fabric material prior to constructing a bituminous overlay. This item shall include all labor, equipment and materials required to complete the crack repair as specified. A representation of the cracks to be prepared is shown in the Plans. The actual cracks to be prepared will be designated by the Resident Engineer.

800972-2.1 MATERIALS. Materials used in completing this item shall meet the individual requirements of the Standard Specifications, Supplemental Specifications, Recurring Special provisions and these Special Provisions. Materials include:

- a. Bituminous Pavement Milling Item 401650
- b. Bituminous Tack Coat Item 603
- c. Bituminous Sand Mix See Section 800972-2.2 below
- d. Crack Control Material See Section 800972-2.3 below

800972-2.2 BITUMINOUS AND MIX. The material shall meet the following:

- a. Gradation

Sieve	Target Percent Passing (%)	Tolerance (%)
#4	95	± 5
#8	60	± 5
#16	35	± 5
#30	25	± 4
#50	14	± 3
#100	11	± 2.5
#200	6	± 1.5

This can normally be accomplished with a volumetric blend consisting of 96 percent FA-21 and 4 percent dust.

- b. Bituminous Material

Binder: PG-76-34

- c. Job Mix Formula

The Job Mix Formula will be provided to the Contractor by the Engineer in accordance with the provisions of Item 401.

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800972-2.3 CRACK CONTROL FABRIC MATERIAL. Crack control material shall be "Glas Grid" Model 8502, Detail Repair System, as manufactured by Saint-Gobain Technical Fabrics, Corporate & Sales Office, 345 Third Street, Suite 615, Niagara Falls, New York 14303, Webpage www.glasgrid.com, Telephone: 716.285.0731, Toll free: 1.888.549.7667, Facsimile: 716.285.5515, E-mail: glasgrid@sgtf.com, or approved equivalent, and shall contain as a minimum the following specific properties:

Specification for Use in Asphalt Overlays	
Material	Fiber glass reinforcement with modified polymer coating and a pressure sensitive adhesive backing
Tensile Strength based on Component Strand Strength, Test Method GRI GG 1-87 or ASTM D 6637	Across Width = 1,120 pounds/inch Across Length = 560 pounds/inch
Elongation at Break, Test Method ASTM D 6637	Less than 5 Percent
Melting Point, Test Method ASTM D 276	Greater than 425° F
Mass/Unit Area, Test Method ASTM D 5261-92	16 ounces/square yard
Roll Length	65.6 yards
Roll Width	1.64 yards
Roll Area	107.6 square yards
Adhesive Backing	Pressure Sensitive
Grid Size	0.5 inch by 0.5 inch

CONSTRUCTION METHODS

800972-3.1 BITUMINOUS PAVEMENT MILLING. At the locations designated by the Resident Engineer, the existing pavement shall be milled to a depth of 2-inches to the width shown on the Plans, and cleaned and prepared in accordance with Item 401650. The work shall be paid under Item AR401650.

800972-3.2 BITUMINOUS TACK COAT. A Bituminous Tack Coat shall be applied to the cleaned, prepared milled surface and all associated vertical faces in accordance with Item 603. The work shall be paid under Item AR603510.

800972-3.3 BITUMINOUS SAND MIX. The Bituminous Sand Mix-2 Inch shall be constructed to the final compacted dimensions as shown on the Plans. The mixture shall be compacted to 3 percent (3%) air voids in place (2% to 4% allowable). Manufacture, delivery and construction methods for the course shall be as specified for Item 401. All costs associated with the construction of the bituminous sand mix layer shall be included in the Contract unit price for this item.

800972-3.4 CRACK CONTROL FABRIC MATERIAL. Upon completion and acceptance of the bituminous sand mix layer **and immediately prior to** construction of the tack coat for the overlay, the Contractor shall install the crack control fabric according to the manufacturer's recommendations. The fabric shall not be exposed to sunlight or excessive construction traffic prior to the construction of the overlay. The fabric shall not be installed more than 36 hours prior to construction of the overlay.

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METHOD OF MEASUREMENT

800972-4.1 Bituminous Sand Mix-2 Inch shall be measured by the area in square yards of mixture placed to a thickness of 2-inches, and shall be the square yards of mix actually constructed to the specified thickness and in accordance with the details shown in the Plans and accepted by the Resident Engineer.

Crack Control Material shall be measured by the length in linear feet of fabric material placed, and shall be the linear feet of full-width fabric actually placed in accordance with the details shown in the Plans and accepted by the Resident Engineer.

Bituminous Pavement Milling and Bituminous Tack Coat shall be measured and paid in accordance with Item 401650 and Item 603, respectively.

BASIS OF PAYMENT

800972-5.1 Payment for the bituminous sand mix shall be made at the Contract unit price for Bituminous Sand Mix-2 Inch. Payment for crack control fabric shall be made at the Contract unit price for Crack Control Material. These prices shall be full compensation for furnishing all materials and for all preparation, removals, relocation, erection, installation and disposal, and for all labor, equipment, tools, and incidentals necessary to complete these items as specified.

Payment will be made under:

Item AR800972	Bituminous Sand Mix-2" - per square yard.
Item AR800973	Crack Control Material - per linear foot.

DIVISION V - TURFING

ITEM 901

SEEDING

Revise Item 901 of the Standard Specifications as follows:

901-1.1 DESCRIPTION. Add the following:

"The following definitions apply to this item:

- "1. Growing Season - The time of year, between March 15 and October 15, during which plants are actively growing.
- "2. Vigorous Condition - A characteristic of healthy vegetation which includes proper growth forms, lack of dead or dying portions, and strong vegetative and root systems."

901-2.1 SEED. Add the following:

"The seeding mixture for areas of grass seeding shall be:

“❖ **Seeding**

<u>Common Name</u>	<u>Pure Live Seed Per Acre</u>
Kentucky Bluegrass	150
Red Fescue	50

"The seeding mixture for areas of conservation cover shall be:

“❖ **Conservation Cover**

<u>Common Name</u>	<u>Pure Live Seed Per Acre</u>
Smooth Brome Grass	40
Vernal Alfalfa [1]	15
Oats, Spring	48

"[1] Legumes - inoculation required.

"Season mixes may be planted if prior approved by the Project Engineer, provided that the ground is not frozen or conditions are not detrimental to the seed.

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"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.

"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.

"Seed of each species shall be individually packaged in suitable bags and inspected by the Resident Engineer before mixing. The mixing of seed shall be performed with the Resident Engineer present.

"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.

"Areas shall be de-watered if necessary to accomplish any specified plantings. The method of de-watering shall be approved by the Resident Engineer.

"Measures to protect planted materials from grazing damage by wildlife shall be recommended and provided by the Contractor."

901-2.2 LIME. Replace this Section with the following:

901-2.2 LIME. Agricultural ground limestone shall be applied to the top three (3) inches of the seedbed at a rate of two (2) tons per acre covered. The limestone material shall meet the requirements of Article 1081.07 of IDOT Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised."

901-2.3 FERTILIZER. Add the following:

"Fertilizer shall be applied to all areas designated for seeding at 1:1:1 ratio as follows:

Nitrogen Fertilizer Nutrients	90 pounds per acre
Phosphorus Fertilizer Nutrients	90 pounds per acre
Potassium Fertilizer Nutrients	90 pounds per acre

"The fertilizer shall be incorporated into the soil to a depth of not less than three (3) inches."

901-3.1 ADVANCE PREPARATION AND CLEANUP. Add the following sentence to the second paragraph:

"Soil shall be prepared to have clods no more than 1 ½ inches on any side to ensure adequate seed-soil contact."

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Add the following paragraphs:

"Final grading and site preparation must be inspected and approved by the Resident Engineer prior to any planting.

"Soil moisture shall exist throughout the area to be seeded from one inch to at least five inches below the surface at the time of planting. The required moisture content of the soil may be estimated by the hand-squeeze test. The soil should form a tight cast when squeezed in the hand. The cast should break into two pieces without crumbling and without leaving water on the hand after casting.

"Seedbed preparation shall commence as soon as practicable prior to planting. After preparation, these areas shall be protected from erosion.

"All spontaneous vegetation that becomes established after final grading shall be cultivated and/or removed prior to planting. No herbicides shall be used, unless accepted by the Resident Engineer.

"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 growing season stated in Section 901-1.1, unless season mixes are prior approved by the Project Engineer and conditions are acceptable for seeding as noted in Section 901-2.1.

"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 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:

"The Contractor shall be required to establish a stand of grass in areas designated for seeding and a vegetative cover over the areas designated for conservation cover."

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901-4.1 METHOD OF MEASUREMENT. Delete this Section in its entirety and replace with the following:

"901-4.1 METHOD OF MEASUREMENT. The quantity of seeding and fertilizing to be paid for shall be the number of acres with (grass) seeding mixture completed and accepted, regardless of the application rate or method of application.

"The quantity of conservation cover and fertilizing to be paid for shall be the number of acres with conservation cover mixture completed and accepted, regardless of the application rate or method of application.

"The quantity of water utilized for seed bed preparation, maintenance of the seeded and covered areas and water used as a carrier for seed in hydraulic seeding operations, if used, shall be considered incidental to seeding or cover and will not be measured for payment."

901-5.1 BASIS OF PAYMENT. Delete this Section in its entirety and replace with the following:

"901-5.1 BASIS OF PAYMENT. The quantity, determined as provided in Section 901-4.1, will be paid for at the Contract unit price per acre, or fraction thereof, for seeding, which price and payment shall be full compensation for furnishing and placing all material and for all labor, equipment, tools, and incidentals necessary to complete the Work in this item as specified.

"Water utilized for bed preparation and maintenance of the seeded or covered areas shall be incidental to the Contract prices for seeding or conservation cover.

"Payment will be made under:

"Item AR800937 Conservation Cover - per acre.
Item AR901510 Seeding - per acre."

ITEM 904

SODDING

Revise Item 904 of the Standard Specifications and Supplemental Specifications as follows:

904-2.1 SOD. Add the following:

"The sod used shall be approved grass that is compatible with the existing Kentucky Bluegrass turfing at the Project site. It shall be either nursery grown or field grown and be well rooted and approved by the Project Engineer prior to being cut and again before it is laid. Sod that has been grown on soil high in organic matter such as peat will not be acceptable. The consistency of adherent soil shall be such that it will not break, crumble or tear during handling and placing of the sod.

"Each piece of sod shall be well covered with turf grass, shall be free from noxious weeds and other objectionable plants, and shall not contain substances injurious to growth. The grass shall be cut to a length of not less than 1-½ inches nor more than 4 inches before the sod is cut. The sod shall be cut in rectangular pieces with its shortest side not less than 12 inches. The sod shall not be cut less than ½-inch thick. This thickness measurement does not include grass. **The Contractor shall adjust the topsoil final grades for this sod thickness to meet the cross-sections shown in the Plans.**"

904-2.2 LIME. Delete this Section and replace with the following:

904-2.2 LIME. Agricultural ground limestone shall be applied to the top three (3) inches of the seedbed at a rate of two (2) tons per acre covered. The limestone material shall meet the requirements of Article 1081.07 of IDOT Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2002, as revised."

904-2.3 FERTILIZER. Add the following:

"Fertilizer shall be applied to all areas designated for sodding at 5:3:2 ratio as follows:

Nitrogen Fertilizer Nutrients	90 pounds per acre
Phosphorus Fertilizer Nutrients	54 pounds per acre
Potassium Fertilizer Nutrients	36 pounds per acre

"The fertilizer shall be incorporated into the soil to a depth of not less than three (3) inches."

904-5.1 BASIS OF PAYMENT.

Payment will be made under:

Item AR904510 Sodding - per square yard.

ITEM 905

TOPSOILING

Revise Item 905 of the Standard Specifications as follows:

DESCRIPTION

905-1.1 Add the following:

"Topsoil shall be from two sources: (1) from on-site and created by stripping of topsoil from within the grading limits shown in the Plans and stockpiled at locations designated by the Resident Engineer, and; (2) from an off-site source identified by the Contractor and approved by the Resident Engineer. For on-site, stripping of the topsoil and placing in the temporary stockpiles shall be paid under Item ARI 52410. When off-site, no separate payment for excavation at the off-site location or haul from off-site will be made, as the Contractor shall include these costs in the Contract unit price for Topsoil from Off-Site."

CONSTRUCTION REQUIREMENTS

905-3.3 OBTAINING TOPSOIL. Add the following to the last paragraph:

"The off-site source shall be dedicated exclusively to the removal of material for incorporation into **this Project**, until such time as topsoil removal activities are complete and the Engineer has taken final measurements for quantities."

905-3.4 PLACING TOPSOIL. Delete the first sentence of the first paragraph and replace with the following sentence:

"The topsoil shall be evenly spread on the prepared areas to receive seeding or sodding to a uniform depth of four (4) inches after compaction. Topsoil for sodded areas shall be a uniform depth of 3.5 inches to allow for the sod thickness. The Contractor shall adjust the topsoil depth based upon the thickness of the sod actually used."

BASIS OF PAYMENT

905-5.1 Add the following:

"If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished."

SPECIAL PROVISIONS

WAUKEGAN REGIONAL AIRPORT (UGN)

REPAIR/REHABILITATE PAVEMENTS, CONSTRUCT NEW PAVEMENTS

AIP PROJECT NO. 3-17-0105-B30

IDA PROJECT NO. UGN-3499

905-5.2 Add the following:

“If, upon delivery and incorporation of any materials, the Contractor has failed to provide the necessary submittals as required by Sections 30-18, 40-01, 40-03 and 40-11 of the Standard Specifications, Supplemental Specifications and Special Provisions, the pay item shall not be included on the Contractor Progress Payment report until such submittals have been furnished.”

Payment will be made under:

Item AR905510	Topsoiling (From On Site) - per cubic yard.
Item AR905520	Topsoiling (From Off Site) - per cubic yard.

ITEM 908

MULCHING

Revise Item 908 of the Standard Specifications and Supplemental Specifications as follows:

DESCRIPTION

908-1.1 Add the following:

"Material used for mulching shall be a manufactured mulch applied by a hydroseed spray application at the rate approved by the Resident Engineer.

"Mulch shall be provided on all areas with seeding (grass). **Mulch shall not be applied to areas designated for conservation cover.**"

MATERIALS

908-2.1 MULCH MATERIAL. Add the following:

"Only manufactured hydraulic mulch as specified in the Supplemental Specifications may be used."

CONSTRUCTION METHODS

908-3.1 MULCHING. Add the following:

"Mulch shall be applied using the "hydraulic mulch" method specified in the Supplemental Specifications."

BASIS OF PAYMENT

Payment will be made under:

Item AR908510 Mulching - per acre."

SPECIAL PROVISIONS

WAUKEGAN REGIONAL AIRPORT (UGN)

REPAIR/REHABILITATE PAVEMENTS, CONSTRUCT NEW PAVEMENTS

AIP PROJECT NO. 3-17-0105-B30

IDA PROJECT NO. UGN-3499

ITEM 910

ROADWAY GUARD RAIL AND SIGNS

DESCRIPTION

910-1.1 DESCRIPTION. This item shall consist of furnishing and installing steel plate beam guard rail and posts and traffic barrier terminals at the locations shown on the Plans. This item shall also consist of furnishing and installing roadway sign and sign post at locations shown on the Plans. This item shall also include the relocation of existing roadway signs at the locations shown on the Plans.

MATERIALS

910-2.1 SIGN BASE, FACE AND LEGEND, AND SUPPORT. Materials shall meet the following:

- a. Sign Base. The sign base shall be Sheet Aluminum, Type 1, in accordance with Articles 1090.01 and 1090.02 of the IDOT Standard Specifications.
- b. Sign Face. The sign face shall be Reflective Sheeting, Type 1, Type A, in accordance with Articles 1091.01 and 1091.02 of the IDOT Standard Specifications.
- c. Sign Legend. The sign legend shall be Direct Applied Reflective Sheeting, Type 1, Type A, in accordance with Articles 1092.01 and 1092.02 of the IDOT Standard Specifications.
- d. Sign Support. Sign support shall be Structural Steel-Breakaway in accordance with Article 1093.01 of the IDOT Standard Specifications.

910-2.2 GUARD RAIL AND TRAFFIC BARRIER TERMINAL. Materials shall meet the following:

- a. Guard Rail. Materials shall meet the requirements of Article 630.02 of the IDOT Standard Specifications, and in accordance with IDOT Standard 630001-05, as shown in the Plans.
- b. Traffic Barrier Terminal. Materials shall meet the requirements of Article 631.02 of the IDOT Standard Specifications, and in accordance with IDOT Standard 630301-03, as shown in the Plans.

CONSTRUCTION REQUIREMENTS

910-3.1 SIGN BASE, FACE AND LEGEND, AND SUPPORT. The sign support shall be installed plumb and to the depth shown on the Plans. The sign shall be installed at the height shown on the Plans.

910-3.2 GUARD RAIL AND TRAFFIC BARRIER TERMINAL. Construction of the guard rail shall be in accordance with Articles 630.03, 630.04, 630.05, and 630.06 of the IDOT Standard Specifications. Construction of the traffic barrier terminal shall be in accordance with Article 631.03 of the IDOT Standard Specifications.

SPECIAL PROVISIONS

WAUKEGAN REGIONAL AIRPORT (UGN)

REPAIR/REHABILITATE PAVEMENTS, CONSTRUCT NEW PAVEMENTS

AIP PROJECT NO. 3-17-0105-B30

IDA PROJECT NO. UGN-3499

METHOD OF MEASUREMENT

910-4.1 The number of new signs shall be counted and measured, in place, accepted and completed, by each unit. A sign with more than one sign face and/or more than one support pole will be counted as one sign. The number of Relocate Roadway Sign shall be the number of existing signs relocated to the new location counted and measured, in place, accepted and completed, by each unit. A sign with more than one sign face and/or more than one support pole will be counted as one sign.

910-4.2 The quantity of steel plate beam guardrail to be paid shall be measured in feet along the top edge of the rail element to the limits shown on the Plans, in place, accepted and completed. The number of traffic barrier terminals shall of the number of traffic barrier terminals counted and measured, in place, accepted and completed, as one unit.

BASIS OF PAYMENT

910-5.1 The accepted number of new signs will be paid for at the Contract unit price per sign each, complete and in place. Sign with more than one sign face and/or more than one support pole will be counted as one sign. The accepted number of existing signs relocated will be paid at the Contract unit price per Relocate Roadway Sign each, complete and in place. Sign with more than one sign face and/or more than one support pole will be counted as one sign. These prices shall be full compensation for furnishing all materials and for all preparation and installation of these materials and for all labor equipment, tools, and incidentals necessary to complete this item.

The accepted quantity of guard rail will be paid for at the Contract unit price per linear foot measured, complete and in place. The accepted number of traffic barrier terminals will be paid at the Contract unit price per Traffic Barrier Terminal each, complete and in place. These prices shall be full compensation for furnishing all materials and for all preparation and installation of these materials and for all labor equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR800203	Traffic Barrier Terminal - per each.
Item AR910230	Handicapped Sign - per each.
Item AR910400	Guard Rail - per linear foot.
Item AR910975	Relocate Roadway Sign - per each.

(END OF SPECIAL PROVISIONS)



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

**MINIMUM WAGES FOR FEDERAL AND FEDERALLY
ASSISTED CONSTRUCTION CONTRACTS**

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision shall be the minimum paid by contractors and subcontractors to laborers and mechanics.

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at <http://www.dot.state.il.us/desenv/delett.html>.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at <http://www.dot.state.il.us/desenv/subsc.html>.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.