04A

Letting November 7, 2025

Notice to Bidders, Specifications and Proposal



Springfield, Illinois 62764

Contract No. LK016
Lake in the Hills Airport
Lake in the Hills, Illinois
McHenry County
Illinois Project No. 3CK-5001
SBG Project No. N/A

Illinois Department of Transportation

NOTICE TO BIDDERS

- 1. **TIME AND PLACE OF OPENING BIDS.** Electronic bids are to be submitted to the electronic bidding system (iCX-Integrated Contractors Exchange). All bids must be submitted to the iCX system prior to 12:00 p.m. on November 7, 2025, at which time the bids will be publicly opened from the iCX SecureVault.
- 2. **DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. LK016 Lake in the Hills Airport Lake in the Hills, Illinois McHenry County Illinois Project No. 3CK-5001 SBG Project No. N/A

Replace Automated Weather Observation System (AWOS)

For engineering information, please contact Sheue Torng Lee, P.E. of Crawford, Murphy & Tilly, Inc. at 630.907.7079.

3. INSTRUCTIONS TO BIDDERS.

- (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 10-23 of the Standard Specifications for Construction of Airports (Adopted March 22, 2023), become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.
- (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS. This contract will be awarded within 90 calendar days to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids 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. N/A
- **6. DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 5.0%.
- SPECIFICATIONS AND DRAWINGS. The work shall be done in accordance with the Standard Specifications for Construction of Airports (Adopted March 22, 2023), the Special Provisions dated <u>September 12, 2025</u>, and the Construction Plans dated <u>September 12, 2025</u> as approved by the Illinois Department of Transportation, Division of Aeronautics.

- 8. **BIDDING REQUIREMENTS AND BASIS OF AWARD.** When alternates are included in the proposal, the following shall apply:
 - a. Additive Alternates
 - (1) Bidders must submit a bid for the Base Bid and for all Additive Alternates.
 - (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lowest aggregate amount of (i) the Base Bid plus (ii) any Additive Alternate(s) which the Department elects to award.

The Department may elect not to award any Additive Alternates. In that case, award will be to the lowest responsible qualified bidder of the Base Bid.

- b. Optional Alternates
 - (1) Bidders must submit a bid for the Base Bid and for either Alternate A or Alternate B or for both Alternate A and Alternate B.
 - (2) Award of this contract will be made to the lowest responsible qualified bidder computed as follows:

The lower of the aggregate of either (i) the Base Bid plus Alternate A or (ii) the Base Bid plus Alternate B.

9. CONTRACT TIME. The Contractor shall complete all work within the specified contract time. Any calendar day extension beyond the specified contract time must be fully justified, requested by the Contractor in writing, and approved by the Engineer, or be subject to liquidated damages.

The contract time for this contract is 30 calendar days.

- 10. INDEPENDENT WEIGHT CHECKS. The Department reserves the right to conduct random unannounced independent weight checks on any delivery for bituminous, aggregate or other pay item for which the method of measurement for payment is based on weight. The weight checks will be accomplished by selecting, at random, a loaded truck and obtaining a loaded and empty weight on an independent scale. In addition, the department may perform random weight checks by obtaining loaded and empty truck weights on portable scales operated by department personnel.
- **11. MATERIAL COST ADJUSTMENTS.** The Illinois Department of Transportation, Division of Aeronautics does not offer any material cost adjustment provisions.
- 12. GOOD FAITH COMPLIANCE. The Illinois Department of Transportation has made a good faith effort to include all statements, requirements, and other language required by federal and state law and by various offices within federal and state governments whether that language is required by law or not. If anything of this nature has been left out or if additional language etc. is later required, the bidder/contractor shall cooperate fully with the Department to modify the contract or bid documents to correct the deficiency. If the change results in increased operational costs, the Department shall reimburse the contractor for such costs as it may find to be reasonable.

By Order of the Illinois Department of Transportation

Gia Biagi, Secretary

State of Illinois Department of Transportation

SPECIAL PROVISION FOR EEO

Effective: July 21, 1978 Revised: November 18, 1980

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 contact 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.

Economic Area	Goal (percent)
056 Paducah, KY: Non-SMSA Counties - IL - Hardin, Massac, Pope KY - Ballard, Caldwell, Calloway, Carlisle, Crittenden, Fulton, Graves, Hickman, Livingston, Lyon, McCracken, Marshall	5.2
080 Evansville, IN: Non-SMSA Counties - IL - Edwards, Gallatin, Hamilton, Lawrence, Saline, Wabash, White IN - Dubois, Knox, Perry, Pike, Spencer KY - Hancock, Hopkins, McLean, Mublenberg, Ohio, Union, Webster	3.5
081 Terre Haute, IN: Non-SMSA Counties - IL - Clark, Crawford IN - Parke	2.5

083	Chicago, IL: SMSA Counties:	
	1600 Chicago, IL - IL - Cook, DuPage, Kane, Lake, McHenry, Will	19.6
	3740 Kankakee, IL - IL - Kankakee	9.1
	Non-SMSA Counties IL - Bureau, DeKalb, Grundy, Iroquois,	18.4
	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 - Menard, 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	0.1
087	Peoria, IL:	
	SMSA Counties: 1040 Bloomington - Normal, IL -	2.5
	IL - McLean 6120 Peoria, IL -	4.4
	IL - Peoria, Tazewell, Woodford Non-SMSA Counties -	3.3
	IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	3.3
088	Rockford, IL:	
	SMSA Counties: 6880 Rockford, IL -	6.3
	IL - Boone, Winnebago Non-SMSA Counties -	4.6
	IL - Lee, Ogle, Stephenson	
098	Dubuque, IA: Non-SMSA Counties -	0.5
	IL - JoDaviess IA - Atlamakee, Clayton, Delaware,	
	Jackson, Winnesheik WI - Crawford, Grant, Lafayette	
099	Davenport, Rock Island, Moline, IA - IL:	
	SMSA Counties: 1960 Davenport, Rock Island, Moline, IA - IL -	4.6
	IL - Henry, Rock Island IA - Scott	
	Non-SMSA Counties - IL - Carroll, Hancock, Henderson, Mercer, Whiteside	3.4
	IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine MO - Clark	

St. Louis, MO: SMSA Counties: 7040 St. Louis. MO - IL -14.7 IL - Clinton, Madison, Monroe, St. Clair MO - Franklin, Jefferson, St. Charles, St. Louis, St. Louis City Non-SMSA Counties -11.4 IL - Alexander, Bond, Calhoun, Clav. Effingham, Fayette, Franklin, Greene, Jackson, Jasper, Jefferson, Jersey, Johnson, Macoupin, Marion, Montgomery, Perry, Pulaski, Randolph, Richland, Union, Washington, Wayne, Williamson MO - Bollinger, Butler, Cape Girardeau, Carter, Crawford, Dent, Gasconade, Iron, Lincoln, Madison, Maries, Mississippi, Montgomery, Perry, Phelps, Reynolds, Ripley, St. Francois, St. Genevieve, Scott, Stoddard, Warren, Washington, Wayne

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

The Contractor's compliance with Executive Order 11246 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 11246 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 Department of Transportation will provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten 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:

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- (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.
- 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.
 - (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 of 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.
 - (I) 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.
- (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).

State of Illinois Department of Transportation

SPECIAL PROVISION FOR SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES NONFEDERAL-AID CONTRACTS

Effective: March 20, 1969 Revised: January 1, 1994

1. General

- a. The requirements set forth herein shall constitute the specific affirmative action requirements under this contract and supplement the non- discrimination requirements contained elsewhere in this proposal.
- b. The Contractor shall work with the Illinois Department of Transportation (IDOT) in carrying out Equal Employment Opportunity (EEO) obligations and in reviews of activities under the contract.
- c. The Contractor, and all subcontractors holding subcontracts (not including material suppliers) of \$10,000 or more, shall comply with the following minimum specific requirement activities of EEO. The Contractor shall include these requirements in every subcontract of \$10,000 or more with such modification of language as is necessary to make them binding on the subcontractor.

2. Equal Employment Opportunity Policy

The Contractor shall accept as operating policy the following statement which is designed to further the provision of EEO to all persons, and to promote the full realization of equal employment opportunity through a positive continuing program: "It is the policy of this Company to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age, or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

3. Equal Employment Opportunity Officer

The Contractor shall designate and make known to IDOT contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active Contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

4. <u>Dissemination of Policy</u>

- a. All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the Contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:
 - (1) Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the Contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
 - (2) All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the Contractor's EEO obligations within thirty days following their reporting for duty with the Contractor.
 - (3) All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the Contractor's procedures for locating and hiring minority and female employees.
- b. In order to make the Contractor's EEO policy known to all employees, prospective employees, and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc., the Contractor shall take the following actions:
 - (1) Notices and posters setting forth the Contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
 - (2) The Contractor's EEO policy and the procedures to implement such policy shall be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

5. Recruitment

- a. When advertising for employees, the Contractor shall include in all advertisements for employees the notation: "An Equal Opportunity Employer". All such advertisements shall be published in newspapers, or other publications, having a large circulation among minority groups in the area from which the project work force would normally be derived.
- b. The Contractor shall, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority and female applicants, including, but not limited to, State employment

agencies, schools, colleges and minority and female organizations. To meet this requirement, the Contractor shall, identify sources of potential minority and female employees, and establish with such identified sources procedures whereby minority and female applicants may be referred to the Contractor for employment consideration. In the event the Contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he/she is expected to observe the provisions of that agreement to the extent that the system permits the Contractor's compliance with EEO contract provisions.

c. The Contractor shall encourage present employees to refer minority and female applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures with regard to referring minority and female applicants shall be discussed with employees.

6. Personnel Actions

Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, will be taken without regard to race, color, religion, sex, national origin, age, or disability. The following procedures shall be followed:

- a. The Contractor shall conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
- The Contractor shall periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
- c. The Contractor shall periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor shall promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
- d. The Contractor shall promptly investigate all complaints of alleged discrimination made to the Contractor in connection with the obligations under this contract, shall attempt to resolve such complaints, and shall take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the Contractor shall inform every complainant of all of the avenues of appeal.

7. Training and Promotion

- The Contractor shall assist in locating, qualifying and increasing the skills of minority and female employees and applicants for employment.
- b. Consistent with the Contractor's work force requirements and as permissible under Federal and State regulations, the Contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance.
- c. The Contractor shall advise employees and applicants for employment of available training programs and entrance requirements for each.
- d. The Contractor shall periodically review the training and promotion potential of minority and female employees and shall encourage eligible employees to apply for such training and promotion.

8. Unions

If the Contractor relies in whole or in part upon unions as a source of employees, the Contractor shall use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minorities and females within the unions, and to effect referrals by such unions of minority and female employees. Actions by the Contractor, either directly or through a Contractor's association acting as agent, shall include the procedures set forth below:

- a. The Contractor shall use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority and female employees for membership in the unions and increasing the skills of minority and female and employees so that they may qualify for higher paying employment.
- b. The Contractor shall use best efforts to incorporate an EEO clause into each union agreement to the end that such union shall be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age, or disability.
- c. The Contractor is to obtain information as to the referral practices and policies of the labor union, except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the Contractor, the Contractor shall so certify to IDOT and shall set forth what efforts have been made to obtain such information.
- d. In the event the union is unable to provide the Contractor with a reasonable flow of minority and female referrals within the time limit set forth in the collective bargaining agreement, the Contractor shall, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and females. (The U.S. Department of Labor has held that it shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minorities or female employees). In the event the union referral practice prevents the Contractor from meeting the obligations pursuant to these Special Provisions, such Contractor shall immediately notify IDOT.

9. Selection of Subcontractors, Procurement of Materials, and Leasing of Equipment

The Contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

- a. The Contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.
- b. Disadvantaged business enterprises (DBE), as defined in 49 CFR Part 23, shall have equal opportunity to compete for and perform subcontracts which the Contractor enters into pursuant to this contract. The Contractor shall use best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority and female representation among their employees. Contractors shall obtain lists of DBE construction firms from IDOT personnel.
- c. The Contractor shall use his/her best efforts to ensure subcontractor compliance with their EEO obligations.

10. Records and Reports

The Contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of IDOT.

- a. The records kept by the Contractor shall document the following:
 - (1) the number of minorities, non-minorities and females employed in each work classification on the project;
 - (2) the progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and females;
 - (3) the progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
 - (4) the progress and efforts being made in securing the services of DBE subcontractors, or subcontractors with meaningful minority and female representation among their employees.
- b. The Contractor shall submit to IDOT a monthly report every month for the duration of the project, indicating the number of minority, non-minority and female employees currently engaged in each work classification required by contract work and the number of hours worked. This information is to be reported on Form SBE-956. If on-the-job training is being required by special provision, the Contractor will be required to collect and report training data.

State of Illinois Department of Transportation

SPECIAL PROVISION FOR REQUIRED PROVISIONS – STATE CONTRACTS

Effective: April 1 1965 Revised: January 1, 2017

I. SELECTION OF LABOR

The Contractor shall comply with all Illinois statutes pertaining to the selection of labor.

EMPLOYMENT OF ILLINOIS WORKERS DURING PERIODS OF EXCESSIVE UNEMPLOYMENT

Whenever there is a period of excessive unemployment in Illinois, which is defined herein as any month immediately following two consecutive calendar months during which the level of unemployment in the State of Illinois has exceeded five percent as measured by the United States Bureau of Labor Statistics in its monthly publication of employment and unemployment figures, the Contractor shall employ at least 90 percent Illinois laborers. "Illinois laborer" means any person who has resided in Illinois for at least 30 days and intends to become or remain an Illinois resident.

Other laborers may be used when Illinois laborers as defined herein are not available, or are incapable of performing the particular type of work involved, if so certified by the Contractor and approved by the Engineer. The Contractor may place no more than three of his/her regularly employed non-resident executive and technical experts, who do not qualify as Illinois laborers, to do work encompassed by this Contract during period of excessive unemployment.

This provision applies to all labor, whether skilled, semi-skilled, or unskilled, whether manual or non-manual.

II. EQUAL EMPLOYMENT OPPORTUNITY

In the event of the Contractor's noncompliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Illinois Department of Human Rights Rules and Regulations, the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political sub-divisions or municipal corporations, and the contract may be cancelled or voided 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, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service; 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 Illinois Department of Human Rights Rules and Regulations) 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, sexual orientation, marital status, order of protection status, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status, or an unfavorable discharge from military service.
- 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 Human Rights Act and the Illinois Department of Human Rights Rules and Regulations. If any 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 Department of Human Rights and IDOT 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 Department of Human Rights Rules and Regulations, furnish all relevant information as may from time to time be requested by the Illinois Department of Human Rights or IDOT, and in all respects comply with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- 6. That it will permit access to all relevant books, records, accounts and work sites by personnel of IDOT and the Illinois Department of Human Rights for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Illinois Department of Human Rights Rules and Regulations.
- 7. That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the 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 subcontractors; and further it will promptly notify IDOT and the Illinois Department of Human Rights in the event any subcontractor fails or refuses to comply with these provisions. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

III. SUBLETTING OR ASSIGNING THE CONTRACT

- 1. The Contractor shall perform with his/her own organization contract work amounting to not less than 51 percent of the original total contract price, except that any items designated by the State as "Specialty Items" may be performed by subcontract and the amount of any such "Specialty Items" so performed may be deducted from the original total contract price before computing the amount of work required to be performed by the Contractor with his/her own organization.
 - a. "His/her own organization" shall be construed to include only worker employed and paid directly by the Contractor and equipment owned or rented by him/her, with or without operators.
 - b. "Specialty Items" shall be construed to be limited to work that requires specialized knowledge, craftsmanship or equipment not ordinarily available in contracting organizations qualified to bid on the contract as a whole and in general are to be limited to minor components of the overall contract.
- 2. In addition to the 51 percent requirement set forth in paragraph 1 above, the Contractor shall furnish (a) a competent superintendent or foreman who is employed by him/her, who has full authority to direct performance of the work in accordance with the contract requirements, and who is in charge of all construction operations (regardless of who performs the work), and (b) such other of his/her own organizational capability and responsibility (supervision, management, and engineering services) as the State highway department contracting officer determines is necessary to assure the performance of the contract.
- 3. The Contractor shall not sublet, sell, transfer, assign or otherwise dispose of the contract or contracts or any portion thereof, or of his/her right, title or interest therein, without written consent of the Engineer. In case such consent is given, the Contractor will be permitted to sublet a portion thereof, but shall perform with the Contractor's own organization, work amounting to not less than 51 percent of the total contract cost, except that any items designated in the contract as "specialty items" may be performed by subcontract and the cost of any such specialty items so performed by subcontract may be deducted from the total cost before computing the amount of work required to be performed by the Contractor with his/her own organization. Materials purchased or produced by the Contractor must be incorporated into the project by the Contractor's own organization if their cost is to be applied to the 50 percent requirement.

No subcontracts, or transfer of contract, shall in any case release the Contractor of his/her liability under the contract and bonds. All transactions of the Engineer shall be with the Contractor. The Contractor shall have representative on the job at all times when either contract or subcontract work is being performed.

All requests to subcontract shall contain a certification that the subcontract agreement exists in writing and physically contains the required Federal and State Equal Employment Opportunity provisions and Labor compliance provisions, including the contract minimum wage requirements. The Contractor shall permit Department or Federal representatives to examine the subcontract agreements upon notice.

- 4. Any items that have been selected as "Specialty Items" for the contract are listed as such in the Special Provisions, bid schedule, or elsewhere in the contract documents.
- 5. No portion of the contract shall be sublet, assigned or otherwise disposed of, except with the written consent of the State highway department contracting officer, or his/her authorized representative, and such consent when given shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the contract. Request for permission to sublet, assign or otherwise dispose of any portion of the contract shall be in writing and accompanied by (a) a showing that the organization which will perform the work is particularly experienced and equipped for such work, and (b) an assurance by the Contractor that the labor standards provisions set forth in this contract shall apply to labor performed on all work encompassed by the request.

IV. COMPLIANCE WITH THE PREVAILING WAGE ACT

- 1. Prevailing Wages. All wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended, except where a prevailing wage violates a federal law, order, or ruling, the rate conforming to the federal law, order, or ruling shall govern. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto. If the Department of Labor revises the wage rates, the Contractor will not be allowed additional compensation on account of said revisions. Current wage rate information shall be obtained by visiting the Department of Labor website at http://www.illinois.gov/idol/Pages/default.aspx. It is the responsibility of the Contractor to review the rates applicable to the work of this contract at regular intervals in order to insure the timely payment of current rates. Provision of this information to the Contractor by means of the Department of Labor website satisfies the notification of revisions by the Department to the Contractor pursuant to the Act, and the Contractor agrees that no additional notice is required.
- 2. Payroll Records. The Contractor and each subcontractor shall make and keep, for a period of three years from the later of the date of final payment under the contract or completion of the contract, records of the wages paid to his/her workers. The payroll records shall include each worker's name, address, telephone number, social security number, classification, rate of pay, number of hours worked each day, starting and ending times of work each day, total hours worked each week, itemized deductions made, and actual wages paid. Upon seven business days' notice, these records shall be available at a location within the State, during reasonable hours, for inspection by the Department or the Department of Labor; and Federal, State, or local law enforcement agencies and prosecutors.

3. SUBMISSION OF PAYROLL RECORDS (BDE)

Effective: April 1, 2021 Revised: November 2, 2023

Submission of Payroll Records. The Contractor and each subcontractor shall, no later than the 15th day of each calendar month, file a certified payroll for the immediately preceding month to the Illinois Department of Labor (IDOL) through the Illinois Prevailing Wage Portal in compliance with the State Prevailing Wage Act (820 ILCS 130). The portal can be found on the IDOL website at https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Prevailing-Wage-Portal.aspx. Payrolls shall be submitted in the format prescribed by the IDOL.

In addition to filing certified payroll(s) with the IDOL, the Contractor and each subcontractor shall certify and submit payroll records to the Department each week from the start to the completion of their respective work, except that full social security numbers shall not be included on weekly submittals. Instead, the payrolls shall include an identification number for each employee (e.g., the last four digits of the employee's

social security number). In addition, starting and ending times of work each day may be omitted from the payroll records submitted. The submittals shall be made using LCPtracker Pro software. The software is web-based and can be accessed at https://lcptracker.com/. When there has been no activity during a work week, a payroll record shall still be submitted with the appropriate option ("No Work", "Suspended", or "Complete") selected."

4. Employee Interviews. The Contractor and each subcontractor shall permit his/her employees to be interviewed on the job, during working hours, by compliance investigators of the Department or the Department of Labor.

V. NONSEGREGATED FACILITIES

(Applicable to State Financed Construction Contracts and related subcontracts exceeding \$10,000 which are not exempt from the Equal Opportunity clause).

By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement, as appropriate, the bidder, construction Contractor, subcontractor, or material supplier, as appropriate, certifies that (s)he does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that (s)he does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. (S)He certifies further that (s)he will not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that (s)he will not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. (S)He agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, creed, color, or national origin, because of habit, local custom, or otherwise. (S)He agrees that (except where he/she has obtained identical certifications from proposed subcontractors and material suppliers for specific time periods), he/she will obtain identical certifications from proposed subcontractors or material suppliers prior to the award of subcontracts or the consummation of material supply agreements, exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause, and that (s)he will retain such certifications in his/her files.

State of Illinois Department of Transportation

SPECIAL PROVISION FOR SECTION 80 PROSECUTION AND PROGRESS

This Special Provision amends the provisions of the Standard Specifications for Construction of Airports (Adopted March 22, 2023) and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

80-09 Failure to complete on time.

ADD:

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

State of Illinois Department of Transportation

SPECIAL PROVISION FOR SECTION 90 MEASUREMENT AND PAYMENT

This Special Provision amends the provisions of the Standard Specifications for Construction of Airports (Adopted March 22, 2023) and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

90-07 Partial payments.

DELETE: The entire section.

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

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

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

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

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

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

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

90-09 Trust agreement option.

DELETE: The entire section.

Contract No. LK016 Lake in the Hills Airport Lake in the Hills, Illinois McHenry County Illinois Project No. 3CK-5001 SBG Project No. N/A

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the Standard Specifications for Construction of Airports (Adopted March 22, 2023) and the Special Provisions included herein which apply to and govern the airport improvement of: Replace Automated Weather Observation System (AWOS) at Lake in the Hills, Contract LK016, and in case of conflict with any part or parts of said Specifications, the said Special Provisions shall take precedence and shall govern.

SPECIAL PROVISION FOR COMPLETION TIME VIA CALENDAR DAYS

It being understood and agreed that the completion within the time limit is an essential part of the contract, the bidder agrees to complete the work within 30 calendar days, unless additional time is granted by the Engineer in accordance with the provisions of the specifications. In case of failure to complete the work on or before the time named herein, or within such extra time as may have been allowed by extensions, the bidder agrees that the Department of Transportation shall withhold from such sum as may be due him/her under the terms of this contract, the costs, as set forth in Section 80-09 Failure to Complete on Time of the Standard Specifications, which costs shall be considered and treated not as a penalty but as damages due to the State from the bidder by reason of the failure of the bidder to complete the work within the time specified in the contract.

CONSTRUCTION AIR QUALITY - DIESEL VEHICLE EMISSIONS CONTROL (BDE)

Effective: April 1, 2009 Revised: January 2, 2012

<u>Diesel Vehicle Emissions Control</u>. The reduction of construction air emissions shall be accomplished by using cleaner burning diesel fuel. The term "equipment" refers to any and all diesel fuel powered devices rated at 50 hp and above, to be used on the project site in excess of seven calendar days over the course of the construction period on the project site (including any "rental" equipment).

All equipment on the jobsite, with engine ratings of 50 hp and above, shall be required to: use Ultra Low Sulfur Diesel fuel (ULSD) exclusively (15 ppm sulfur content or less).

Diesel powered equipment in non-compliance will not be allowed to be used on the project site, and is also subject to a notice of non-compliance as outlined below.

The Contractor shall certify that only ULSD will be used in all jobsite equipment. The certification shall be presented to the Department prior to the commencement of the work.

If any diesel powered equipment is found to be in non-compliance with any portion of this specification, the Engineer will issue the Contractor a notice of non-compliance and identify an appropriate period of time, as outlined below under environmental deficiency deduction, in which to bring the equipment into compliance or remove it from the project site.

Any costs associated with bringing any diesel powered equipment into compliance with these diesel vehicle emissions controls shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed. The Contractor's compliance with this notice and any associated regulations shall also not be grounds for a claim.

<u>Environmental Deficiency Deduction</u>. When the Engineer is notified, or determines that an environmental control deficiency exists, he/she will notify the Contractor in writing, and direct the Contractor to correct the deficiency within a specified time period. The specified time-period, which begins upon Contractor notification, will be from 1/2 hour to 24 hours long, based on the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge regarding the time period.

The deficiency will be based on lack of repair, maintenance and diesel vehicle emissions control.

If the Contractor fails to correct the deficiency within the specified time frame, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency continues to exist. The calendar day(s) will begin when the time period for correction is exceeded and end with the Engineer's written acceptance of the correction. The daily monetary deduction will be \$1,000.00 for each deficiency identified.

If a Contractor or subcontractor accumulates three environmental deficiency deductions in a contract period, the Contractor will be shutdown until the deficiency is corrected. Such a shutdown will not be grounds for any extension of contract time, waiver of penalties, or be grounds for any claim.

CONSTRUCTION AIR QUALITY - IDLING RESTRICTION (BDE)

Effective: April 1, 2009

Idling Restrictions. The Contractor shall establish truck-staging areas for all diesel powered vehicles that are waiting to load or unload material at the jobsite. Staging areas shall be located where the diesel emissions from the equipment will have a minimum impact on adjacent sensitive receptors. The Department will review the selection of staging areas, whether within or outside the existing highway right-of-way, to avoid locations near sensitive areas or populations to the extent possible. Sensitive receptors include, but are not limited to, hospitals, schools, residences, motels, hotels, daycare facilities,

elderly housing and convalescent facilities. Diesel powered engines shall also be located as far away as possible from fresh air intakes, air conditioners, and windows. The Engineer will approve staging areas before implementation.

Diesel powered vehicle operators may not cause or allow the motor vehicle, when it is not in motion, to idle for more than a total of 10 minutes within any 60 minute period, except under any of the following circumstances:

- 1) The motor vehicle has a gross vehicle weight rating of less than 8000 lb (3630 kg).
- 2) The motor vehicle idles while forced to remain motionless because of on-highway traffic, an official traffic control device or signal, or at the direction of a law enforcement official.
- The motor vehicle idles when operating defrosters, heaters, air conditioners, or other equipment solely to prevent a safety or health emergency.
- 4) A police, fire, ambulance, public safety, other emergency or law enforcement motor vehicle, or any motor vehicle used in an emergency capacity, idles while in an emergency or training mode and not for the convenience of the vehicle operator.
- 5) The primary propulsion engine idles for maintenance, servicing, repairing, or diagnostic purposes if idling is necessary for such activity.
- 6) A motor vehicle idles as part of a government inspection to verify that all equipment is in good working order, provided idling is required as part of the inspection.
- 7) When idling of the motor vehicle is required to operate auxiliary equipment to accomplish the intended use of the vehicle (such as loading, unloading, mixing, or processing cargo; controlling cargo temperature; construction operations, lumbering operations; oil or gas well servicing; or farming operations), provided that this exemption does not apply when the vehicle is idling solely for cabin comfort or to operate non-essential equipment such as air conditioning, heating, microwave ovens, or televisions.
- 8) When the motor vehicle idles due to mechanical difficulties over which the operator has no control.
- 9) The outdoor temperature is less than 32 °F (0 °C) or greater than 80 °F (26 °C).

When the outdoor temperature is greater than or equal to 32 °F (0 °C) or less than or equal to 80 °F (26 °C), a person who operates a motor vehicle operating on diesel fuel shall not cause or allow the motor vehicle to idle for a period greater than 30 minutes in any 60 minute period while waiting to weigh, load, or unload cargo or freight, unless the vehicle is in a line of vehicles that regularly and periodically moves forward.

The above requirements do not prohibit the operation of an auxiliary power unit or generator set as an alternative to idling the main engine of a motor vehicle operating on diesel fuel.

<u>Environmental Deficiency Deduction</u>. When the Engineer is notified, or determines that an environmental control deficiency exists based on non-compliance with the idling restrictions, he/she will notify the Contractor, and direct the Contractor to correct the deficiency.

If the Contractor fails to correct the deficiency a monetary deduction will be imposed. The monetary deduction will be \$1,000.00 for each deficiency identified.

SPECIAL PROVISION FOR DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION

Effective: September 1, 2000 Revised: January 2, 2025

- 1. OVERVIEW AND GENERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory. Award of the contract is conditioned on meeting the requirements of 49 CFR Part 26, and failure by the Contractor to carry out the requirements of Part 26 is a material breach of the contract and may result in the termination of the contract or such other remedies as the Department deems appropriate.
- 2. <u>CONTRACTOR ASSURANCE</u>. All assurances set forth in FHWA 1273 are hereby incorporated by reference and will be physically attached to the final contract and all subcontracts.
- 3. CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. The Department has determined the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies and that, in the absence of unlawful discrimination and in an arena of fair and open competition, DBE companies can be expected to perform 5.0% 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 only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work in accordance with the requirements of 49 CFR 26.53 and SBE Memorandum No. 24-02.
- 4. <u>IDENTIFICATION OF CERTIFIED DBE</u>. Information about certified DBE Contractors can be found in the Illinois UCP Directory. Bidders can obtain additional information and assistance with identifying DBE-certified companies at the Department's website or by contacting the Department's Bureau of Small Business Enterprises at (217) 785-4611.
- 5. <u>BIDDING PROCEDURES</u>. Compliance with this Special Provision and SBE Policy Memorandum 24-02 is a material bidding requirement. The following shall be included with the bid.
 - (a) DBE Utilization Plan (form SBE 2026) documenting enough DBE participation has been obtained to meet the goal, or a good faith effort has been made to meet the goal even though the efforts did not succeed in obtaining enough DBE participation to meet the goal.
 - (b) Applicable DBE Participation Statement (form SBE 2023, 2024, and/or 2025) for each DBE firm the bidder has committed to perform the work to achieve the contract goal.

The required forms and documentation shall be submitted as a single .pdf file using the "Integrated Contractor Exchange (iCX)" application within the Department's "EBids System".

The Department will not accept a bid if it does not meet the bidding procedures set forth herein and the bid will be declared non-responsive. A bidder declared non-responsive for failure to meet the bidding procedures will not give rise to an administrative reconsideration. In the event the bid is

declared non-responsive, 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.

6. <u>UTILZATION PLAN EVALUATION</u>. The contract will not be awarded until the Utilization Plan is approved. All information submitted by the bidder must be complete, accurate, and adequately document the bidder has committed to DBE participation sufficient to meet the goal, or that the bidder has made good faith efforts to do so, in the event the bidder cannot meet the goal, in order for the Department to commit to the performance of the contract by the bidder.

The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work to meet the contract goal or the Department determines, based upon the documentation submitted, that the bidder has made a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A and the requirements of SBE 2026.

If the Department determines that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan of that determination in accordance with SBE Policy Memorandum 24-02.

- 7. CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work the bidder commits to have performed by the specified DBEs 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 firms. 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 guidelines for counting goal credit are provided in 49 CFR Part 26.55. In evaluating Utilization Plans for award the Department will count goal credit as set forth in Part 26 and in accordance with SBE Policy Memorandum 24-02.
- 8. <u>CONTRACT COMPLIANCE</u>. The Contractor must utilize the specific DBEs listed to perform the work and supply the materials for which each DBE is listed in the Contractor's approved Utilization Plan, unless the Contractor obtains the Department's written consent to terminate the DBE or any portion of its work. The DBE Utilization Plan approved by SBE is a condition-of-award, and any deviation to that Utilization Plan, the work set forth therein to be performed by DBE firms, or the DBE firms specified to perform that work, must be approved, in writing, by the Department in accordance with federal regulatory requirements. Deviation from the DBE Utilization Plan condition-of-award without such written approval is a violation of the contract and may result in termination of the contract or such other remedy the Department deems appropriate. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan.
 - (a) NOTICE OF DBE PERFORMANCE. The Contractor shall provide the Engineer with at least three days advance notice of when all DBE firms are expected to perform the work committed under the Contractor's Utilization Plan.
 - (b) SUBCONTRACT. If awarded the contract, the Contractor is required to enter into written subcontracts with all DBE firms indicated in the approved Utilization Plan and must provide copies of fully executed DBE subcontracts to the Department upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
 - (c) PAYMENT TO DBE FIRMS. 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 goal has been paid to the DBE. The Contractor shall document and report all payments for work performed by DBE certified firms in accordance with Article 109.11 of the Standard Specifications. All records of payment for work performed by DBE certified firms shall be made available to the Department upon request.
 - (d) FINAL PAYMENT. After the performance of the final item of work or trucking, or delivery of material by a DBE and final payment to the DBE by the Contractor, but not later than 30 calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement (form SBE 2115) to the Engineer. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.
 - (g) ENFORCEMENT. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

SPECIAL PROVISION FOR WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012 Revised: January 2, 2025

The following applies to all Disadvantaged Business Enterprise (DBE) trucks on the project, whether they are utilized for DBE goal credit or not.

The Contractor shall notify the Engineer at least three days prior to DBE trucking activity.

The Contractor shall submit a weekly report of DBE trucks hired by the Contractor or subcontractors (i.e. not owned by the Contractor or subcontractors) to the Resident Engineer on Division of Aeronautics Form "AER 723" within ten business days following the reporting period. The reporting period shall be Sunday through Saturday for each week reportable trucking activities occur.

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

SPECIAL PROVISION FOR SUBCONTRACTOR MOBILIZATION PAYMENTS

Effective: November 2, 2017 Revised: April 1, 2019 To account for the preparatory work and the operations necessary for the movement of subcontractor personnel, equipment, supplies, and incidentals to the project site and for all other work or operations that must be performed or costs incurred when beginning work approved for subcontracting according to Section 80-01 of the Standard Specifications, the Contractor shall make a mobilization payment to each subcontractor.

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

Value of Subcontract Reported on Form AER 260A	Mobilization Percentage
Less than \$10,000	25%
\$10,000 to less than \$20,000	20%
\$20,000 to less than \$40,000	18%
\$40,000 to less than \$60,000	16%
\$60,000 to less than \$80,000	14%
\$80,000 to less than \$100,000	12%
\$100,000 to less than \$250,000	10%
\$250,000 to less than \$500,000	9%
\$500,000 to \$750,000	8%
Over \$750,000	7%

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

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

SPECIAL PROVISION FOR PAYMENTS TO SUBCONTRACTORS

Effective: November 2, 2017

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

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

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

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

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

SPECIAL PROVISION FOR SUBCONTRACTOR AND DBE PAYMENT REPORTING (BDE)

Effective: April 2, 2018

Subcontractor and Disadvantaged Business Enterprise Payment Reporting

The Contractor shall report all payments made to the following parties:

- (a) first tier subcontractors;
- (b) lower tier subcontractors affecting disadvantaged business enterprise (DBE) goal credit;

(c) material suppliers or trucking firms that are part of the Contractor's submitted DBE utilization plan.

The report shall be made through the Department's on-line subcontractor payment reporting system within 21 days of making the payment.

SPECIAL PROVISION FOR NPDES CERTIFICATION

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

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

The Airport Owner or its Agent will:

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

Prior to the issuance of the Notice-to-Proceed, for <u>each</u> 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).

ILLINOIS WORKS APPRENTICESHIP INITIATIVE - STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021 Revised: April 2, 2024

Illinois Works Jobs Program Act (30 ILCS 559/20-1 et seq.). For contracts having an awarded contract value of \$500,000 or more, the Contractor shall comply with the Illinois Works Apprenticeship Initiative (30 ILCS 559/20-20 to 20-25) and all applicable administrative rules. The goal of the Illinois Apprenticeship Works Initiative is that apprentices will perform either 10% of the total labor hours actually worked in each prevailing wage classification or 10% of the estimated labor hours in each prevailing wage classification, whichever is less. Of this goal, at least 50% of the labor hours of each prevailing wage classification performed by apprentices shall be performed by graduates of the Illinois Works Pre-Apprenticeship Program, or the Highway Construction Careers Training Program.

The Contractor may seek from the Department of Commerce and Economic Opportunity (DCEO) a waiver or reduction of this goal in certain circumstances pursuant to 30 ILCS 559/20-20(b). The Contractor shall ensure compliance during the term of the contract and will be required to report on and certify its compliance. An apprentice use plan, apprentice hours, and a compliance certification shall be submitted to the Engineer on forms provided by the Department and/or DCEO.

SPECIAL PROVISION FOR SUBMISSION OF BIDDERS LIST INFORMATION (BDE)

Effective: January 2, 2025 Revised: March 2, 2025

In accordance with 49 CFR 26.11(c) all DBE and non-DBEs who bid as prime contractors and subcontractors shall provide bidders list information, including all DBE and non-DBE firms from whom the bidder has received a quote or bid to work as a subcontractor, whether or not the bidder has relied upon that bid in placing its bid as the prime contractor.

The bidders list information shall be submitted with the bid using the link provided within the "Integrated Contractor Exchange (iCX)" application of the Department's "EBids System".

REVISIONS TO THE ILLINOIS PREVAILING WAGE RATES

The Prevailing rates of wages are included in this Contract proposal. The rates have been ascertained and certified by the Illinois Department of Labor for the locality in which the work is to be performed and for each craft or type of work or mechanic needed to execute the work of the Contract. As required by Prevailing Wage Act (820 ILCS 130/0.01, et seq.) and this Proposal, not less than the rates of wages ascertained by the Illinois Department of Labor and as revised during the performance of a Contract shall be paid to all laborers, workers and mechanics performing work under the Contract. Post the scale of wages in a prominent and easily accessible place at the site of work.

If the Illinois Department of Labor revises the prevailing rates of wages to be paid as listed in the specification of rates, the contractor shall post the revised rates of wages and shall pay not less than the revised rates of wages. Current wage rate information shall be obtained by visiting the Illinois Department of Labor web site at https://labor.illinois.gov/laws-rules/conmed/prevailing-wage-rates.html or by calling 312-793-2814. It is the responsibility of the contractor to review the rates applicable to the work of the contract at regular intervals in order to insure the timely payment of current rates. Provision of this information to the contractor by means of the Illinois Department of Labor web site satisfies the notification of revisions by the Department to the contractor pursuant to the Act, and the contractor agrees that no additional notice is required. The contractor shall notify each of its subcontractors of the revised rates of wages.

Letting Date: November 7, 2025 LK016

SECTION III

Special Provisions

For

REPLACE AUTOMATED WEATHER OBSERVATION SYSTEM

ILLINOIS PROJECT: 3CK-5001 S.B.G. PROJECT: 3-17-SBGP-TBD

at

LAKE IN THE HILLS AIRPORT LAKE IN THE HILLS, ILLINOIS



FINAL SUBMITTAL SEPTEMBER 12, 2025

Prepared By:

CRAWFORD, MURPHY & TILLY, INC. CONSULTING ENGINEERS 550 N. COMMONS DRIVE, SUITE 116 AURORA, ILLINOIS 60504 http://www.cmtengr.com





Date Signed: 09/12/2025 Expiration Date: 11/30/2025



21001618.00

GENERAL

These Special Provisions, together with applicable Standard Specifications, 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, Division of Aeronautics for the construction of the subject project at the Lake in the Hills Airport, Lake in the Hills, Illinois.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The "Standard Specifications for Construction of Airports", State of Illinois, Department of Transportation, Division of Aeronautics, adopted March 22, 2023, shall govern the project except as otherwise noted in these Special Provisions. In the case of conflict with any part or parts of said specifications, the said Special Provisions shall take precedence and shall govern.

Specifications may be obtained at

https://idot.illinois.gov/doing-business/procurements/construction-services/contractor-resources/aeronautics/design.html

Where referenced within the Special Provisions, the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction adopted January 1, 2022 shall apply.

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PART 1 – GENERAL PROVISIONS

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

SECTION 40 – SCOPE OF WORK

40-05 MAINTENANCE OF TRAFFIC

ADD:

- h. To maintain airport operations and to facilitate the construction of the proposed work, the project has been divided into separate phases in accordance with Advisory Circular 150/5370-2G *Operational Safety on Airports During Construction*. References to Construction Safety and Phasing Plans (CSPP) in that document shall be interpreted to mean the phase limits, barricade locations, access points and notes shown on the construction activity plan sheets included in the as-bid contract documents. When "safety" is used or referred to in the contract documents and in the advisory circular(s) it shall be redefined by this contract as meaning "operational safety". The Construction Operational Safety and Phasing Plan (CSPP) establishes the airport and project specific requirements, supplementing the requirements in the AC, that are to be included in the contractor's bid for maintaining operational safety during construction.
- i. The Construction Safety and Phasing Plan (CSPP) contained herein has been approved by both the Airport and the FAA. The Contractor shall be required to divide the overall work into separate phases in substantial conformance with the CSPP shown in the plans, except as allowed by the contract documents and approved by the Division on behalf of the FAA. Durations specified for individual phases shall become requirements of the contract and shall be subject to liquidated damages.
- j. The contractor activity on the airfield shall be limited to the limits of construction as identified on the construction activity plan drawings. Beyond the limits of construction, the Contractor shall not have access to any part of the active airfield pavement with any equipment or personnel without the approval of Airport Management.
- k. Maintenance of Airport Systems are critical to the operation of the Airport and the safety and/or security of the traveling public. Prior to beginning work the Contractor shall investigate existing systems which may be located within the work area and locate all existing utilities. The Contractor may seek assistance from the JULIE, Engineer, Resident Engineer, Airport and FAA with locating utilities but the final responsibility for all utility locates lies solely with the Contractor. If the Contractor's investigation reveals that a utility must be relocated to allow for the performance of the work in the plans, the contractor shall immediately notify the Resident Engineer and remain clear of the utility until resolution has been determined by the Division and the Airport. Any system, including but not limited to systems associated with security, air navigation, weather, airfield lighting damaged by the Contractor's operations shall be immediately repaired to the satisfaction of the owner. No delay shall be taken in the repair of the damaged facility. The Contractor shall not be allowed to finish work for the day until the utility has been repaired.
- I. The Contractor shall provide his own radio capable of transmitting and receiving on the Unicom frequencies noted in the plans.
- m. The Contractor shall provide and maintain construction entrance signage on all public use roads intended to be used by his operations as required by the Illinois Department of Transportation, or the jurisdictional agency of the road. The Contractor shall be responsible for coordinating all hauling and access on State, City, Township or County roads with the agency responsible for the roadway.
- n. If it is found the fully loaded delivery trucks are excessively damaging the Airport or local roadway pavement, the Contractor shall limit the weight of the material being hauled onto the site. The Resident

Engineer shall determine what is considered excessive damage. No payments will be made for additional hauling that may be required due to load restrictions.

o. The Contractor shall be required to provide a 24-hour phone number for emergency barricades and barricade lighting maintenance.

40-09 SAFETY PLAN COMPLIANCE DOCUMENT (SPCD)

REVISE: The first sentence of the first paragraph to read:

10 days prior to the preconstruction conference, the Contractor shall submit a SPCD to the Airport describing how he will comply with the requirements of the AC plus the CSPP and supplying any details that could not be determined before contract award.

ADD:

40-10 BARRICADES, WARNING SIGNS AND HAZARD MARKINGS

The Contractor shall furnish, erect, and maintain all barricades, warning signs, and markings for hazards necessary to protect the public and the work. When used during periods of darkness, such barricades, warning signs and hazard markings shall be suitably illuminated. Unless otherwise specified, barricades, warning signs, and markings for hazards that are in the air operations area shall be a maximum of 18 inches high. Unless otherwise specified, barricades shall be spaced not more than 10 feet apart.

For vehicular and pedestrian traffic, the Contractor shall furnish, erect, and maintain barricades, warning signs, lights and other traffic control devices in reasonable conformity with the Manual of Uniform Traffic Control Devices for Streets and Highways (published by the United States Government Printing Office).

Any cost for signage or traffic control shall be borne by the Contractor.

Barricades, as approved by the FAA, shall be provided per the details in the plan sheets. The barricades shall be lighted with steady burn omni-directional red lights supplemented with a 20" x 20" orange flag.

Barricades shall be placed as shown in the plans or as directed by the Resident Engineer or Airport.

The Contractor shall be responsible for supplying, maintaining and any moving of all barricades. Lights shall be maintained in proper working order. No separate payment will be made for supplying, maintaining and moving barricades but shall be considered incidental to the contract.

When the work requires closing an air operations area of the airport or portion of such area, the Contractor shall furnish, erect, and maintain temporary markings and associated lighting conforming to the requirements of FAA Advisory Circular 150/5340-1 (latest revision), *Standards for Airport Markings*.

The Contractor shall furnish, erect, and maintain markings and associated lighting of open trenches, excavations, temporary stockpiles, and his/her parked construction equipment that may be hazardous to the operation of emergency fire-rescue or maintenance vehicles on the airport in reasonable conformance to FAA Advisory Circular 150/5370-2 (latest revision), *Operational Safety on Airports During Construction*.

The Contractor shall identify each motorized vehicle or piece of construction equipment in reasonable conformance to FAA Advisory Circular 150/5370-2 (latest revision).

Mark and identify vehicles in accordance with AC 150/5210-5 (latest revision) *Painting, Marking and Lighting of Vehicles Used on an Airport.* When any vehicle is required to travel over any portion of the aircraft movement area (within the existing perimeter fence) and runway approach area, the vehicle shall be properly identified to operate in the area or provided with a flag on a staff attached to the vehicle so that the flag will be readily visible. The flag should be not less than 3-feet square consisting of a checkered pattern of international orange and white squares of not less than one foot on each side and displayed in full view above the vehicle. A flag or escort vehicle is not required for vehicles which have been painted, marked and lighted for routine use on aircraft movement areas. Any vehicle operating on the movement area during the hours of darkness should be equipped with an amber flashing dometype light, in accordance with local and/or state codes.

The Contractor shall furnish and erect all barricades, warning signs, and markings for hazards prior to commencing work which requires such erection and shall maintain the barricades, warning signs, and markings for hazards until their dismantling is directed by the Resident Engineer.

Open-flame type lights shall not be permitted within the air operations areas of the airport.

SECTION 50 - CONTROL OF WORK

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

50-05 COOPERATION BETWEEN CONTRACTORS

REVISE: The first sentence of the second paragraph to read:

The contractor shall plan and conduct their work so as not to interfere or hinder the progress of work being performed by other contractors or Airport personnel.

50-06 CONSTRUCTION LAYOUT AND STAKES

DELETE: The first paragraph.

ADD: As the first paragraph:

The Contractor will be required to furnish and place construction layout stakes for this project. The establishment of survey control and/or reestablishment of survey control shall be by a State Licensed Land Surveyor.

DELETE: The second paragraph.

ADD: As the second paragraph:

The Resident Engineer will locate and reference three (3) control points and will establish benchmarks along the line of the improvement outside construction limits. The Contractor shall locate and reference the centerline of survey, which shall also consist of locating and referencing control points such as point of curvature, points of tangent, and sufficient points on tangent to provide a line of sight. Control points set by the Resident Engineer shall be identified in the field to the Contractor, and the field notes shall be kept in the office of the Resident Engineer.

ADD:

Benchmarks will be established along the project outside of construction lines.

It is not the responsibility of the Resident Engineer to check the correctness of the Contractor's stakes or forms, except as provided herein; however, any errors that are apparent shall be immediately called to the Contractor's attention, and he shall be required to make the necessary correction before the stakes are used for construction purposes.

The Contractor shall immediately notify the Resident Engineer of conflicts or discrepancies with the established control points.

50-10 LOAD RESTRICTIONS

ADD:

Access to the construction work area is limited to the haul routes as shown on the construction activity plan drawings. The use of existing airfield pavements by contractor construction traffic including all haul trucks is prohibited unless previously approved by the Airport Management. Any damage to existing Airport pavement due to construction traffic operating beyond the approved work limits, hauling outside of the approved haul/access routes and construction traffic operating in prohibited areas shall be repaired by the Contractor at their own expense to the satisfaction of the owner.

Contractor's use of existing airfield and perimeter pavements by equipment and loaded trucks shall be minimized. The Contractor shall be responsible for damage to any airfield pavement or public road caused by his construction operations. Any damage to existing airfield, landside and perimeter pavements shall be repaired by the Contractor at their own expense to the satisfaction of the Owner. Contractor shall obtain written permission from the Airport Owner to use any airfield pavements.

50-11 MAINTENANCE DURING CONSTRUCTION

ADD:

The contractor shall make provisions in the work to maintain positive drainage from the work areas and to minimize the ponding of water. In areas where the contractor is required to core out or remove pavements the contractor shall cut temporary ditches or swales to maintain positive drainage. At locations where temporary ditches are not feasible, the contractor shall excavate storm water storage areas adjacent to but at a lower elevation than the bottom of the work and utilize mechanical pumps to promptly remove storm water from the excavations. All existing pavement areas that are to remain open to aircraft traffic shall be kept clean to the satisfaction of Airport Manager and the Resident Engineer. At the request of the Resident Engineer or of the Airport, the Contractor shall provide a self-propelled, vacuum or regenerative (recirculating) air pavement sweeper, a pavement blower or tractor mounted "sweeper box". At a minimum, a pavement blower shall be kept on site at all times.

Material tracked onto public streets shall be removed continuously during the work.

No material capable of being blown onto airfield pavement will be allowed to be stored uncovered anywhere within the fence line, at any time during construction.

50-14 FINAL ACCEPTANCE

DELETE: The first sentence of the first paragraph.

ADD: As the first sentence of the first paragraph:

Upon due notice to the Resident Engineer from the Contractor of presumptive completion of the entire project, the charging of Contract Time shall be suspended, and the Engineer will make an inspection.

ADD: After the first sentence of the second paragraph:

The charging of Contract Time shall resume on the day following the inspection and shall continue until the remaining work, including the applicable requirements of Section 40-08, Final Clean-up, is completed to the Engineer's satisfaction.

50-16 PLANS AND WORK DRAWINGS

REVISE: The second sentence of the eleventh (11th) paragraph to read as follows:

Such review will not relieve the Contractor of the responsibility for complying with the contract document requirements or for any error that may exist in the submittal. The Contractor is responsible for the dimensions and designs of adequate connections, detail and satisfactory construction of all work.

REVISE: The 15th paragraph to read:

Shop drawing submittals that do not include the information below will be rejected and returned to the Contractor. Information to be included on shop drawing submittals shall conform to the following:

■ CMT 21001618.00 5 September 12, 2025

PROJECT LOCATION: Lake in the Hills Airport

PROJECT TITLE: Replace Automated Weather Observation

System

PROJECT NUMBERS: IL Project: 3CK-5001

SBG Project: 3-17-SBGP-TBD

CONTRACT ITEM: (i.e. AR156510 Silt Fence)

SUBMITTED BY: (Contractor/Subcontractor Name)

DATE: (Date Submitted)

ADD: To the end of the 18th paragraph:

d. "Rejected": Submittal shall not be used at the project site.

SECTION 60 – CONTROL OF MATERIALS

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

60-01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS

REVISE: The third paragraph to read:

As a minimum, the Contractor shall provide, prior to delivery, statements (shipment tickets, source, certificate of analysis (COA), sample, etc.) as required by the current Illinois Department of Transportation, Bureau of Airport Engineering Manual for Documentation of Airport Materials or as requested by the Engineer of Airport Construction and Materials.

The eleventh (11th) paragraph to read:

The Contractor shall furnish airport lighting equipment that meets the requirements of the specifications; and is listed in the current Federal Aviation Administration Advisory Circular (AC) 150/5345-53, Airport Lighting Equipment Certification Program and Addendum, that is in effect on the date of advertisement; and meets "Buy America" requirements.

60-03 CERTIFICATION OF COMPLIANCE/ANALYSIS (COC/COA)

ADD: After the sixth (6th) paragraph:

The Contractor shall certify all materials contained in the contract. Certification and documentation shall be submitted to the Resident Engineer and Project Engineer. It shall be the sole responsibility of the Contractor to ensure the delivery of adequate and accurate documentation prior to the delivery of materials. Materials incorporated into this project without approved certification and documentation will not be recommended for payment by the Resident Engineer. It shall be the sole responsibility of the Contractor to provide certification that ALL materials to be used on the project meet the "Buy American" requirements.

The certification shall be submitted as part of the shop drawing submittal.





SECTION 70 - LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

70-08 PUBLIC CONVENIENCE AND SAFETY

ADD: At end of the Section:

The contractor shall provide, install and maintain any warning signs (trucks entering highway, etc.) as required by the County Division of Transportation and the City of Dixon and/or the responsible agency that maintains the roadway. The cost to the warning signage as required by the agency responsible for the roadway for the duration of the contract shall be at no additional cost to the contract.

70-16 CONTRACTOR'S RESPONSIBILITY FOR UTILITY SERVICE AND FACILITIES OF OTHERS

REVISE: The second paragraph as follows:

". . ., the approximate locations and owners have been indicated on the plans."

ADD: After the eighth (8th) paragraph:

The following table includes contact numbers that may provide assistance for locating cable. The personnel listed in the table are in no way responsible for damage to existing utilities.

LAKE IN THE HILLS AIRPORT

Utility Service or Facility	Contact (Person)	Contact (Phone)
Ameritech – Telephone Cables	J.U.L.I.E. (Joint Utility Locating Information for Excavators)	1-800-892-0123
ComEd - Electric Cables	J.U.L.I.E. (Joint Utility Locating Information for Excavators)	1-800-892-0123
Northern Illinois Gas - Gas Lines	J.U.L.I.E. (Joint Utility Locating Information for Excavators)	1-800-892-0123
FAA Control and Communication Cables	FAA Sector Office	1-630-587-7801

REPLACE: Paragraph eleventh (11th) with:

If, in the Contractor's opinion, additional assistance is needed to locate the utility service or facility, the contractor shall enlist the assistance of a qualified technician or professional utility location firm to accurately locate underground utilities or facilities prior to excavation. Prior to commencing this detailed location work in the general vicinity of an existing utility service or facility, the Contractor shall again notify each such owner of their plan of operation and request the presence of a representative of the owner to observe the work. Such notification shall be given by the most expeditious means to reach the utility owner's PERSON TO CONTACT no later than two normal business days prior to the Contractor's commencement of operations in such general vicinity. The Contractor shall furnish a written summary of the notification to the Engineer.

Only after the investigation has been made should the contractor begin excavation operations. Upon beginning these operations, the contractor shall use extreme caution in the methods utilized. The contractor shall utilize exploratory trenching or small tool excavation practices when beginning

operations in critical areas to verify that the utilities are clear of the area of interest or to verify the location and depth of these facilities.

Any utility damaged by the Contractor shall be repaired by the Contractor to the satisfaction of the Owner and shall be at the cost of the Contractor. In the event that an existing utility is damaged during construction, all other work on the project shall be suspended until the utility is repaired. No additional time will be awarded to the Contractor for delays in the project due to damaged utilities. It is a high priority to the airport that all existing Airport utilities, unless otherwise noted in the plans, remain in good working condition throughout the duration of the project.

Special care shall be taken on all operations and particularly near pavement edges to avoid damage to edge lights and all underground electrical cable on the airport. The approximate location of existing underground cable is shown on drawings. Any airfield lights or cable that are broken and require replacement because of the Contractor's operations will be replaced by the Contractor at his/her own expense.

Any airfield cable repairs or replacement to any part of the electrical system made necessary by the Contractor's operations will be made by them in the manner specified in Sections 108 and 125 at no cost to the Airport. Cost of replacement to be borne by the Contractor shall include any expense incurred in locating as well as repairing or replacing damaged parts of the system by the owning agency.

70-25 CONTRACTOR'S RESPONSIBILITY FOR SAFETY DURING CONSTRUCTION

ADD:

- e. Review the requirements in AC 150/5370-2 (current edition) and comply with items listed as contractor's responsibility.
- f. Implement a CSPP and SPCD as required in AC 150/5370-2 (current edition) and ensure that construction personnel are familiar with operational safety procedures and regulations on the Airport.
- g. Provide a 24-hour point of contact that will coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety of the Airport.
- h. Provide a safety officer/construction inspector(s) trained in airport safety to maintain the CSPP and SPCD and to monitor all construction activities.
- i. Restrict movement of construction vehicles to construction areas as flagging and barricading, erecting temporary fencing, or providing escorts, as appropriate.
- j. Ensure that no construction employees, employees of subcontractors or suppliers, or other persons enter any part of the aircraft operations area from construction site unless authorized.

SECTION 80 - PROSECUTION AND PROGRESS

IL Project: 3CK-5001

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SBG Project: 3-17-SBGP-TBD

80-04 LIMITATION OF OPERATIONS

ADD: After the fourth (4th) paragraph:

A minimum distance shall be maintained between construction operations and the centerline of all active taxiways, taxilanes and runways as noted on the Construction Safety and Phasing Plan. It is intended to plan, conduct, and complete the work in these critical traffic areas in such a manner that the length and amount of interruption to aircraft traffic at the Airport is minimized.

The Contractor shall comply with Federal Aviation Regulations and with all rules and regulations of the Airport, including, but not limited to, control and access to the airfield by Contractor's, employees and agents. In the event the Authority is assessed a fine by the Federal Aviation Administration for breach of security resulting from actions of Contractor's employees and agents, the Contractor shall fully reimburse the Authority for the amount of such fine in the form of additional rents.

Work within a Runway Safety Area (RSA) and Taxiway Object Free Area (TOFA) will require closure of the Runway or Taxiway as shown in the Construction Safety and Phasing Plan. Runway closure markers shall be placed prior to initiating work. The Contractor shall place barricades at all locations shown on the plans. Any cable or unit duct protruding from the ground shall be secured flat using sand bags or other methods approved by the Resident Engineer.

80-08 DETERMINATION AND EXTENSION OF CONTRACT TIME

ADD: After the fourth (4th) paragraph:

The Engineer will make charges against Contract Time after the presumptive completion of the entire project as provided for in Section 50-16, Final Inspection.

ADD: After the last paragraph of this section:

For this project, the following number of calendar days available for work per month has been assumed to be:

Month	Workable Calendar Days
January	0
February	0
March	0
April	0
May	15
June	17
July	17
August	17
September	16
October	16
November	14
December	0

For an extension of contract time due to inclement weather to be considered, the actual total number of calendar days available for work on controlling items must be less than the total number of workable calendar days assumed for the duration of the contract.

Requests for extension of contract time on calendar day projects caused by inclement weather, shall, as a minimum, be supported with National Weather Bureau data and project diaries. Requests for extension of contract time due to inclement weather will not be considered until after final acceptance.

As part of the request for contract time extension review, consideration may be given to how timely the Contractor prosecuted the work up to the point of the delays and the efforts by the Contractor to get back on schedule including the addition of labor or equipment and the extension of work hours and workdays.

No allowance will be made for anticipated profits.

ADD: The following sections.

80-14 CONTRACTOR'S ACCESS TO AIRFIELD

The location of an area for parking by the Contractor's employees shall be as shown on the plans or as agreed to by the Airport.

Use of personal vehicles beyond the airport perimeter fence line will not be allowed.

When not in use, the Contractor's vehicles and equipment shall park in the location shown on the plans or in an area outside the Runway Safety Areas (RSAs), Runway Object Free Zones (ROFZs), and Object Free Area (OFAs). The Contractor's vehicles and equipment shall not be parked on a closed taxiway or runway. Parking equipment shall not obstruct any runway visual aids, signs or navigational aids or penetrate Part 77 surfaces.

80-15 SECURITY DURING CONSTRUCTION

As a minimum, the Contractor shall be responsible for security during construction as follows:

- Visibly delineate his construction zone by placing a line of barricades or flagging around the entire work zone.
- 2. Keep construction personnel inside the work area delineated by barricades.
- 3. Ensure that construction personnel are familiar with security procedures and regulations on the Airport.
- 4. Restrict movement of construction vehicles to construction areas as flagging and barricading, erecting temporary fencing, or providing escorts, as appropriate or as shown in plans.
- 5. The Contractor shall be required to maintain security on the Airport as specified or as directed by the Airport.
- 6. The Contractor shall provide a complete list of personnel that will be employed while on site and update the list as needed. The contractor shall limit access to the AOA. The Contractor shall be responsible for monitoring the access gate during work hours. If the Contractor chooses to leave the gate open, then he shall monitor the gate to prevent unauthorized entries.
- 7. The contractor shall provide his own padlock to secure the gate used for access.

PART 2 – GENERAL CONSTRUCTION ITEMS

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

ITEM 102 - TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION AND SILTATION CONTROL

METHOD OF MEASUREMENT

Sections 102-4.1 through 102-4.4, 102-4.6 through 102-4.10.

ADD: The following section.

102-4.12

Temporary seeding, stabilized construction entrances, ditch checks, temporary mulching and any other erosion control measures required at the Contractor's staging and storage areas and haul route shall not be measured for payment but shall be considered incidental to the contract.

BASIS OF PAYMENT

102-5.1

REVISE: This section to read:

Temporary seeding, stabilized construction entrances, ditch checks and temporary mulching and any other erosion control measures required at the Contractor's staging and storage areas and haul route shall not be measured for payment but shall be considered incidental to the contract.

Payment will be made under:

SILT FENCE - PER FOOT. **ITEM AR156510**

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ITEM 105 – MOBILIZATION

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

BASIS OF PAYMENT

<u>105-3.1</u>

ADD:

Payment will be made under:

ITEM AR150520 MOBILIZATION – PER LUMP SUM.

PART 3 – SITEWORK

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

ITEM 152 – EXCAVATION, SUBGRADE, AND EMBANKMENT

DESCRIPTION

152-1.1 GENERAL

ADD:

This work shall consist of furnishing and placing soil stabilization fabric on an excavated subgrade prior to placement of Item 209608 CRUSHED AGG. BASE COURSE – 8" at the location of the new AWOS facility or as noted in the plans. No adjustment in unit price will be allowed for an increase or decrease in quantities. Soil stabilization fabric shall meet the requirements of Section 152-2.1 Geotextile Fabric.

This work shall also consist of furnishing offsite topsoil and borrow for the new AWOS facility or as noted in the plans.

All excess material from all contract work shall be hauled offsite at no additional cost to the contract.

152-1.3 CLASSIFICATION

DELETE: Paragraphs b, c, and d.

ADD: The following new section.

152-1.6 CLEAN CONSTRUCTION OR DEMOLITION DEBRIS

PROJECT CONDITIONS

- A. Prior to bidding, the bidder shall make a site visit to become familiar with the current conditions. He shall also determine the accessibility and assess safety measures that will be necessary to perform the contract work.
- B. Material Sampling and Analysis:
 - 1. The Contractor shall provide his own sampling and analysis in compliance with applicable laws, prior to offsite disposal of all materials. This cost shall be borne by the Contractor at no additional expense to the Owner.

REGULATORY REQUIREMENTS

- A. The Contractor shall comply with all applicable local, state and federal laws and regulations with regard to material removal, handling and disposal, and shall pay all assessed costs and fees.
- B. The Contractor shall comply with the Illinois Environmental Protection Act, as amended by Public Act 096-1416 that was signed in to law on July 30, 2010, Public Act 097-0137 that was signed in to law on July 14, 2011, and all applicable amendments of the Illinois Environmental Protection Act.

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SUBMITTALS

A. Contractor shall submit a Clean Construction or Demolition Debris (CCDD) & Soil Removal and Disposal Plan to the Engineer. Submit the following as a minimum:

1. A list of all construction or demolition debris anticipated to be generated requiring disposal.

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- 2. The anticipated quantity (both in tons and in cubic yards) of construction or demolition debris to be disposed of and identification of disposal facility including address and contact information.
- 3. The anticipated quantity (both in tons and in cubic yards) of surplus soil to be disposed of, and identification of disposal facility including address and contact information.

CCDD testing shall be by the Contractor, as a minimum, the Contractor shall submit the following:

- Proposed Testing Program to establish that the surplus soil is uncontaminated, for compliance with the requirements of the Illinois Environmental Protection Act. Include details of intended testing program, and rate of sampling (number of samples based on total quantity of surplus soil generated).
- 2. Credentials of the testing Lab that will perform the testing, and credentials of the Illinois Licensed Professional Engineer or Illinois Licensed Professional Geologist that will complete all required certification forms.
- 3. Results of the Proposed Testing Program.
- 4. If further CCDD testing is deemed necessary by the Contractor's chosen disposal facility, the Contractor shall complete this testing at no additional cost to the contract.

GENERAL

- A. The following work shall be included:
 - Removal, handling and legal offsite disposal of all construction or demolition debris generated from all contract work, considering it to be clean construction or demolition debris (CCDD).
 - 2. Removal, handling and legal offsite disposal of surplus soil generated from all contract work, considering it to be uncontaminated.
 - 3. Debris and surplus soil disposal shall include any onsite drying of the material as required, so that the material will pass the paint-filter test as per Method 9095B in USEPA's publication SW 846, prior to transportation.
 - 4. Any costs and fees for legally-permitted-facilities accepting clean construction or demolition debris (CCDD), and/or uncontaminated surplus soil.
 - 5. Additional sampling and testing of surplus soil to establish that it is uncontaminated, and certification to that effect by an Illinois Licensed Professional Engineer or an Illinois Licensed Professional Geologist using Form LPC-663, both as required by law and as required by the site accepting the material.
 - 6. Any other applicable work, costs and fees as required by local, state and federal laws.

MATERIAL CHARACTERIZATION FOR OFFSITE DISPOSAL

A. Costs for any and all testing, sampling, laboratory analysis or any other document that is required by the recipient of the material (disposal site) to establish that the material is uncontaminated, shall be borne by the Contractor at no additional expense to the Owner.

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CONSTRUCTION METHODS

152-3.1 GENERAL

REVISE: Paragraph (a) to read:

Blasting will not be permitted.

152-3.2 EXCAVATION

ADD:

After excavation for the new AWOS facility, the Contractor shall compact the existing subgrade to the satisfaction of the Resident Engineer.

When excavating subgrade take precaution not to damage any underdrains or utilities that run below the pavement. Care shall also be taken not to disrupt more subgrade than necessary.

The Contractor shall make provisions in the work to maintain positive drainage from the work areas and to minimize ponding of water. The Contractor shall cut temporary ditches or swales to maintain positive drainage. At locations where temporary ditches are not feasible, the Contractor shall excavate stormwater storage areas adjacent to but at a lower elevation than the bottom of the work and utilize mechanical pumps to promptly remove stormwater from the excavations.

152-3.15 TOPSOIL

ADD:

Any excess excavation material shall be hauled offsite at no additional cost to the contract.

ADD: The following new section.

152-3.19 DUST CONTROL WATERING

This work shall consist exclusively of the control of dust resulting from construction operations and is not intended for use in the compaction of earth embankment.

Dust shall be controlled by the uniform application of sprinkled water 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 the contract.

METHOD OF MEASUREMENT

152-4.1 **GENERAL**

ADD:

Dust control watering will not be measured for payment but shall be considered incidental to the contract items for which dust control is required.

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ADD:

e. Soil stabilization fabric. The quantity of soil stabilization fabric shall be measured for payment by the number of square yards as specified, completed, and accepted by the Resident Engineer.

IL Project: 3CK-5001

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SBG Project: 3-17-SBGP-TBD

BASIS OF PAYMENT

152-5.1

ADD:

Clean Construction or Demolition Debris (CCDD) removal and disposal, topsoil placement, and embankment fill shall not be paid for separately, but shall be included in the unit bid price for "Unclassified Excavation."

Payment will be made under:

ITEM AR152411 UNCLASSIFIED EXCAVATION – PER LUMP SUM.
ITEM AR152540 SOIL STABILIZATION FABRIC – PER SQUARE YARD.



PART 4 – BASE COURSES

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

ITEM 209 - CRUSHED AGGREGATE BASE COURSE

DESCRIPTION

209-1.1

REVISE:

This work shall consist of furnishing and placing an 8" deep aggregate base course section for the new AWOS facility. No adjustment in unit price will be allowed for an increase or decrease in quantities. Excavation of the existing subgrade shall not be paid for under Item 209 but shall be paid for under Item 152 Unclassified Excavation.

MATERIALS

209-2.1 CRUSHED AGGREGATE BASE

DELETE: Paragraph c. Crushed Slag.

BASIS OF PAYMENT

209-5.1

ADD:

Payment will be made under:

ITEM AR209608 CRUSHED AGG. BASE COURSE - 8" - PER SQUARE YARD.

■ CMT 21001618.00 18 **September 12, 2025**

PART 9 - MISCELLANEOUS

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

ITEM 610 - CONCRETE FOR MISCELLANEOUS STRUCTURES

DESCRIPTION

610-1.1

ADD:

This item shall consist of furnishing and installing structural concrete for the new AWOS foundation or for any other item requiring concrete as shown on the plans.

CONSTRUCTION METHODS

ADD: The following new section.

610-3.15 PLACING CONCRETE

Structural concrete foundations shall be to the depth and sizes indicated on the plans or as required by the AWOS manufacturer. The Resident Engineer shall be given the opportunity to inspect footings prior to concrete placement. Footings found to be insufficient in either depth or diameter shall be corrected prior to the concrete placement.

METHOD OF MEASUREMENT

ADD: The following new sections.

<u>610-5.2</u>

The quantities of structural Portland Cement Concrete used for AWOS foundations or for any other incidental concrete work shall not be measured for payment but shall be considered incidental to the associated pay items.

610-5.3

Excavation required for the installation of the AWOS foundations or for any other incidental concrete construction shall not be measured for payment, but shall be considered incidental to the associated pay items. Excess materials shall be hauled off the Airport property at no additional cost to the contract. Backfilling along edges of exposed concrete shall be considered incidental.

BASIS OF PAYMENT

610-6.1

ADD:

No direct payment shall be made for excavation required for the placement of any structural Portland Cement Concrete, be it excavation for AWOS foundations or for any other incidental concrete installation.

No direct payment shall be made for steel reinforcement or for joint sawing and sealing. Steel reinforcement shall be considered incidental to the associated pay items.

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IL Project: 3CK-5001

Structural Portland Cement Concrete used for any other purpose on this project shall not be paid for, but shall be considered incidental to the associated pay items.

PART 12 – TURFING

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

<u>ITEM 901 – SEEDING</u>

DESCRIPTION

901-1.1

ADD:

Topsoiling shall be per Item 905 Topsoiling and mulching shall be per Item 908 Mulching.

Restoration, seeding and mulching beyond the limits of seeding and mulching shown in the plans (such as lighting, cabling, signage, access roads, haul roads, staging area, storage area) shall be considered incidental to the contract.

MATERIALS

901-2.2 LIME

DELETE: Entire Section.

901-2.3 FERTILIZER

ADD:

The Contractor has the option to perform a soil test, at their expense, to validate that the fertilizer rate specified is suitable for the on-site or plan specified topsoil sources. If the Contractor proposes an alternate mix ratio and weights, the proposal shall be approved by the Engineer, Alternate mix ratio and/or weights shall be at no additional costs to the contract.

CONSTRUCTION METHODS

901-3.2 DRY APPLICATION METHOD

DELETE: Paragraph c. Seeding.

ADD:

Grass seed shall be sown at the rate shown in 901-2.1 with a machine that is capable of cutting a slit in the soil free from leaves and debris, placing the seed in the slit and compacting the seed into the soil of the slit in one continuous operation.

The site will be to grade and shaped to the elevations as shown on the plans. The topsoil will be free of clods, stones, roots, sticks, rivulets, gullies, crusting, caking and have a soil particle size of no larger than 1". Seedbed preparation methods shall be approved by the Engineer. Cultivation shall be accomplished at such a time that seeding may occur immediately and without delay. No seeds shall be sown until the Seedbed has been approved by the Engineer.

No seed shall be sown during high winds or when the ground is not in a proper condition for seeding, nor shall any seed be sown until the purity test has been completed for the seeds to be used, and shows that the seed meets the noxious weed seed requirements. All equipment shall be approved by the Engineer prior to being used. Prior to starting work, seeders shall be calibrated and adjusted to sow seeds at the required seeding rate. Equipment shall be operated in a manner to ensure complete coverage of the entire area to be seeded. The Engineer shall be notified forty-eight (48) hours prior to beginning the seeding operations.

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901-3.3 WET APPLICATION METHOD

DELETE: Entire Section.

METHOD OF MEASUREMENT

IL Project: 3CK-5001

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901-4.1

DELETE: Entire Section.

ADD:

The quantity of seeding shall not be measured for payment but shall be considered incidental to the contract.

BASIS OF PAYMENT

901-5.1

DELETE: Entire Section.

ADD:

Seeding shall not be paid for but shall be considered incidental to the contract.

≥ CMT 21001618.00 22 **September 12, 2025**

ITEM 908 - MULCHING

IL Project: 3CK-5001

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SBG Project: 3-17-SBGP-TBD

908-1.1

ADD:

Restoration, seeding and mulching beyond the limits of seeding and mulching shown in the plans (such as for access roads, haul roads, staging areas, storage areas, etc.) shall be considered incidental to the contract.

MATERIALS

908-2.1 MULCH MATERIAL

REVISE: First sentence to read:

Material used for mulching shall be d. Hydraulic Mulch - Heavy Duty.

Chemical Mulch Binder meeting the requirements per Section 1081.06 (a) (3) of the IDOT "Standard Specifications for Road and Bridge Construction", latest edition shall be used as a mulch stabilizer.

CONSTRUCTION METHODS

908-3.1 **MULCHING**

ADD:

Chemical mulch binder shall be mixed and applied per the manufacturer's recommendations.

METHOD OF MEASUREMENT

908-4.1

DELETE: Entire Section.

ADD:

The quantity of mulching shall not be measured for payment but shall be considered incidental to the contract.

BASIS OF PAYMENT

908-5.1

DELETE: Entire Section.

ADD:

Mulching shall not be paid for but shall be considered incidental to the contract.

≥ CMT 21001618.00 23 September 12, 2025

PART 13 – LIGHTING INSTALLATION

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

<u>ITEM 108 – UNDERGROUND POWER CABLE FOR AIRPORTS</u>

DESCRIPTION

108-1.1

REVISE:

This item shall consist of furnishing and installing power cables that are direct buried and furnishing and/or installing power cables <u>and fiber optic cable</u> within conduit or duct banks per these specifications at the locations specified in the contract documents.

EQUIPMENT AND MATERIALS

108-2.2 CABLE

ADD:

Wire for electrical circuits up to 600 volts shall comply with Specification L-824 and/or Commercial Item Description A-A-59544A and shall be type XLP-USE. Conductors for parallel (voltage) circuits shall be the type and size and installed in accordance with NFPA-70, National Electrical Code.

Unless noted otherwise, all 600-volt and less non-airfield lighting conductor sizes are based on a 75°C, XLP-USE, 600-volt insulation, copper conductors, not more than three single insulated conductors, in raceway, in free air. The conduit/duct sizes are based on the use of XLP-USE, 600-volt insulated conductors. The Contractor shall make the necessary increase in conduit/duct sizes for other types of wire insulation. In no case shall the conduit/duct size be reduced. The minimum power circuit wire size shall be #10 AWG.

Conductor sizes may have been adjusted due to voltage drop or other engineering considerations. Equipment provided by the Contractor shall be capable of accepting the quantity and sizes of conductors shown in the Contract Documents. All conductors, pigtails, cable step-down adapters, cable step-up adapters, terminal blocks and splicing materials necessary to complete the cable termination/splice shall be considered incidental to the respective pay items provided.

Cable type, size, number of conductors, strand and service voltage shall be as specified in the Contract Documents.

108-2.4 CABLE CONNECTIONS

ADD:

To further reduce the possibility of water (moisture) entrance into the connector between the cables and the field-attached connector, heat shrinkable tubing with interior adhesive shall be applied over all cable connections.

The heat shrinkable tubing shall cover the entire connector. All connections shall be at manholes or light bases. **No direct burial splicing will be allowed.**

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No splices will be allowed in the new cable. Between pull points, cable shall be continuous. Any repairs necessary to cable damaged during installation shall be done at the Contractor's expense and shall consist of replacing the entire length of damaged cable between pull points.

In line connections for existing cables to be spliced or those that are cut during construction shall be repaired with the cast splice kit. The Contractor shall have a minimum of five (5) splice kits on the jobsite 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 as specified in paragraph (a). All field splices shall be covered with a flexible polyolefin heat-shrinkable sleeve.

ADD: The following new section.

108-2.13 BUY AMERICAN CERTIFICATIONS AND WAIVERS

All materials for this item shall meet the requirements of the Buy American Preference as stated in 49 U.S.C. § 50101. Contractor shall provide proof of 100% domestic materials prior to delivering materials to the site. Materials that are unable to meet this requirement shall be reported in the bid documents under Certifications Required by State and/or Federal Law, Buy American Certificate and the contractor shall provide material certifications including ASTM testing standards to the Resident Engineer before any material is placed.

ADD: The following new section.

108-2.14 FIBER OPTIC CABLE

Fiber optic cable shall be 6 strand single-mode, 62.5/125 micron core/cladding, with attenuation at 1300 nm; 0.4 dB/km 220 MHz-km and at 1310 nm; 0.4 dB/km 500 MHz-km. Fiber optic cable shall be 6 Fiber Construction around center strength member and elastomeric PVC black outer jacket suitable for indoor or outdoor use.

Furnish and install fiber optic terminators (connectors) style SC or ST as required to match equipment. Connectors shall be designed for field assembly and be self-aligning and self-centering. Comply with manufacturers' requirements. Include terminators on all fibers, including spares.

Splice closures shall protect the spliced fibers from moisture and to prevent physical damage. The splice closure shall provide strain relief for the cable and the fibers at the splice points.

CONSTRUCTION METHODS

108-3.1 **GENERAL**

ADD:

Any damages to existing utilities as a result of the Contractor's operations shall be repaired immediately at their expense.

The locations of existing cables are taken from available record maps, and it will be necessary for the contractor to make field investigations to determine the exact locations of underground cable and conduits at critical points.

108-3.2 INSTALLATION IN DUCT BANKS OR CONDUIT

ADD:

IL Project: 3CK-5001

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Removal of existing cables in existing ducts and conduits abandoned in place shall be considered incidental to the new cable.

108-3.3 (a) TRENCHING

REVISE 18" to 30" in the last sentence of the first paragraph.

ADD:

The installation of GRS and PVC conduit using the plowing-in method will not be allowed.

Restoration to disturbed areas shall be completed for all methods of installation to the satisfaction of the Engineer. Payment for restoration work shall be considered incidental to the associated pay items.

108-3.5 SPLICING

DELETE: Paragraphs b, c, and e.

ADD:

Direct burial splicing will not be allowed.

Splices will be allowed in new circuits only at light bases, electric hand holes or manholes. Direct burial splicing will not be allowed.

The Contractor shall use cast splicing kits as described in Article 108-2.4 for any splices made inside the electric hand holes. The cast splicing kit shall be series 82-B1 Scotch cast or 90-B1 Scotch cast as manufactured by 3M or equal. Contractor shall provide shop drawing for splicing method and cast splicing kit. The Contractor shall also leave minimum 30" of slack on each side of the cable being spliced. The cost of splicing shall be incidental to the cost of installation of underground cables.

ADD: The following new section.

108-3.12 TERMINATIONS AND CONNECTIONS

If, due to the length of spool ordered by the Contractor, it is necessary to install additional hand holes, the Contractor shall supply same at no additional cost to the project. The hand hole shall be the size as directed by the Engineer.

ADD: The following new section.

108-3.13 INSTALLATION OF FIBER OPTIC CABLE

Unless noted otherwise, all conduits, ducts, and manholes for fiber optic cable systems shall be installed as shown on drawings.

- a. No splices shall be permitted unless the length of cable being installed exceeds the maximum standard cable length available from manufacturer.
- b. Splices shall be made using the method recommended by the cable manufacturer. Splices shall be housed in a splice enclosure and shall be encapsulated with an epoxy or ultraviolet light cured splice encapsulant. All fiber optic splices shall be field tested at the time of splicing. Fusion splices shall have less than 0.2 dB loss, and mechanical splices shall not be used. There shall be no more than one (1) splice per kilometer in any of the fiber optic cables excluding terminations. All field

■ CMT 21001618.00 26 September 12, 2025

Special Provisions Lake in the Hills Airport Lake in the Hills, IL

splices shall be located in cable boxes. Sufficient cable shall be provided in each splicing location to properly splice the cables, and to provide extra cable for additional splices. All cable ends shall be protected at all times with end caps except during actual splicing. During the splicing operations, means shall be provided to protect the unspliced portions of the cable from the intrusion of moisture and other foreign matter. All splices shall be done in hand holes provided and installed by the Contractor as required.

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c. For cable installed in ducts and conduit, a cable lubricant compatible with the cable sheathing material shall be used on all cables pulled. Pulling fixtures shall be attached to the cable strength members. If indirect attachments are used, the grip diameter and length shall be matched to the cable diameter and characteristics. If indirect attachment is used on cables having only central strength members, the pulling forces shall be reduced to ensure that the fibers are not damaged from forces being transmitted to the strength member. DURING PULLING, THE CABLE PULL LINE TENSION SHALL BE CONTINUOUSLY MONITORED, AND SHALL NOT EXCEED THE MAXIMUM TENSION AS GIVEN BY THE CABLE MANUFACTURER. The mechanical stress placed upon a cable during installation shall be such that the cable is not twisted or stretched. A cable feeder guide shall be used between the cable reel and the face of the duct or conduit to protect the cable and guide it into the duct or conduit as it is pulled off the reel. As the cable is pulled off the reel, it shall be carefully inspected for jacket defects. Precautions shall be taken during installation to prevent the cable from being kinked or crushed and that the minimum bend radius of the cable is not exceeded at any time. Cable shall be hand fed and guided through each manhole and additional lubricant shall be applied at all intermediate manholes. When practicable, the center pulling technique shall be used to lower pulling tension. That is, the cable shall be pulled from the center point of the cable run towards the end termination points. The method may require the cable to be pulled in successive pulls. If the cable is pulled out of a junction box or manhole, the cable shall be protected from dirt and moisture by laying the cable on a ground covering. Dynamometers or load-cell instruments shall be used to ensure that the pulling line tension does not exceed the installation tension value specified by the cable manufacturer. The mechanical stress placed upon a cable during installation shall be such that the cable is not twisted or stretched.

ADD: The following new section.

108-3.14 CONNECTION AND TERMINATION OF FIBER OPTIC CABLE

- a. Connectors: All fibers at each end of the cable shall have jumpers or pigtails installed of not less than 3 feet in length. All fibers at both ends of the cable shall have connectors installed on the jumpers. The mated pair loss, without rotational optimization shall not exceed 1.5 dB. The pull strength between the connector and the attached fiber shall not be less than 50 pounds.
- b. Identification and Labeling: The Contractor shall supply identification tags or labels for each cable. The labeling format shall be identified and complete record shall be provided to the Owner with the final documentation. Each cable shall be identified with type of signal being carried and termination points.

ADD: The following new section.

108-3.15 TESTING OF FIBER OPTIC CABLE

- a. An optical time domain reflectometer (TDR) test shall be performed at 820 nanometers, of the fiber optic cable on the reel prior to installation. The optical time domain reflectometer shall be calibrated to show anomalies of 0.2 dB as a minimum. Test data shall be recorded and furnished to the Engineer. Cable tested with losses exceeding manufacturer's acceptable levels for new cable shall be rejected.
- b. A second time domain reflectometer test at 820 nanometers shall be performed on the fiber optic



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cable after it is installed. The optical time domain reflectometer shall be calibrated to show anomalies of 0.2 dB as a minimum. If the optical time domain reflectometer test results are unsatisfactory, the fiber optic cable segment is unacceptable.

c. The unsatisfactory segments of cable shall be replaced with a new segment of cable at no cost to the Contract. The new segment of cable shall then be tested to demonstrate acceptability.

METHOD OF MEASUREMENT

108-4.1

REVISE: This Section to read as follows:

No measurement for payment will be made for trenching, excavation, backfill, dewatering and restoration regardless of the type of material encountered shall be included in the unit price bid for the work.

108-4.2

REVISE: This Section to read as follows:

The cost of removing cable as directed by the Owner to make way for new cable shall not be measured separately for payment, but shall be considered incidental to the unit bid price for the cable.

The cost of routing the cable through duct, splicing, marking, trenching, backfilling, and all connections shall be included in the unit price bid for the cable.

Temporary cable connections/jumper cables will not be measured for payment.

BASIS OF PAYMENT

108-5.1

REVISE: This Section to read as follows:

The cables measured under Item 108-4.2 shall be paid for under this item. These prices shall be full compensation for furnishing all materials and for all preparation and installation of these materials, trenching, backfilling and compacting trenches, all connections, line marking tape and installation, and for all labor, equipment, tools and incidentals necessary to complete these items. The line marking tape installed shall be considered incidental to the work and shall not be paid for separately.

Topsoil and seeding of the trench shall not be paid for separately but shall be considered incidental to the associated pay item.

Payment will be made under:

ITEM AR800158 2-1/C #6 XLP-USE, 1-1/C #6 GND IN 2" UD – PER FOOT.

ITEM AR800178 FIBER OPTIC CABLE – PER FOOT.

≥ CMT 21001618.00 28 September 12, 2025

ITEM 110 – AIRPORT UNDERGROUND ELECTRICAL DUCT BANKS AND CONDUIT

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

BASIS OF PAYMENT

<u>110-5.1</u>

ADD:

Payment will be made under:

ITEM AR110215 2" PVC CONDUIT, DIRECT BURIAL – PER FOOT.

≥ CMT 21001618.00 29 September 12, 2025

ITEM 115 - ELECTRICAL MANHOLES AND JUNCTION STRUCTURES

IL Project: 3CK-5001

Final Submittal

SBG Project: 3-17-SBGP-TBD

EQUIPMENT AND MATERIALS

ADD: The following new sections.

115-2.18

The Contractor shall install handholes at locations specified and as detailed in the plans. Electrical handholes shall comply with requirements as detailed in the plans and of Item 751 of the specifications. Electrical handholes shall meet the requirements of IDOT Highway Standard 814001-03, Portland Cement Concrete.

115-2.19 BUY AMERICAN CERTIFICATIONS AND WAIVERS

All materials for this item shall meet the requirements of the FAA Buy American Preference as stated in 49 U.S.C. § 50101. The Contractor shall provide proof of 100% domestic materials prior to delivering materials to the site. Materials that are unable to meet this requirement shall be reported in the bid documents under Certifications Require by State and/or Federal Law, Buy American Certificate.

METHOD OF MEASUREMENT

115-4.1

ADD:

The quantity of electrical handholes to be paid for shall be the number of each installed in place, including grounding and duct connections, completed and accepted by the Resident Engineer.

BASIS OF PAYMENT

115-5.1

ADD:

Payment will be made under:

ITEM AR125565 SPLICE CAN - PER EACH.

CMT 21001618.00 30 September 12, 2025

IDOT DIVISION OF AERONAUTICS POLICY MEMORANDA

IL Project: 3CK-5001

SBG Project: 3-17-SBGP-TBD Final Submittal

State of Illinois Department of Transportation Bureau of Materials and Physical Research

POLICY MEMORANDUM

January 1, 2007	Springfield	07-21
January 1, 2007	Opinignola	O, 2.

TO: REGIONAL ENGINEERS, HIGHWAY BUREAU CHIEFS, AND

MANUFACTURERS AND SUPPLIERS OF FINELY DIVIDED MINERALS

SUBJECT: ACCEPTANCE PROCEDURE FOR FINELY DIVIDED MINERALS USED IN PORTLAND CEMENT CONCRETE AND OTHER APPLICATIONS

IVI OKTEMBOLIMENT CONCRETE AND CHILIKAN FEICH

DEFINITIONS

Department - Illinois Department of Transportation.

<u>Bureau</u> - Bureau of Materials and Physical Research, at 126 East Ash Street, Springfield, Illinois 62704-4766.

<u>Finely Divided Mineral</u> - A finely divided material which has cementitious or pozzolanic properties. Examples are fly ash, microsilica (silica fume), ground granulated blast-furnace (GGBF) slag, and high-reactivity metakaolin (HRM).

<u>Manufacturer</u> - A company that manufactures a finely divided mineral. The term Producer is also used.

<u>Supplier</u> - A company that supplies a finely divided mineral which it does not manufacture.

Source - The name and location of the manufacturing process from which the finely divided mineral is obtained.

<u>Approved Source</u> - A source that is approved by the Bureau to ship a finely divided mineral for immediate use on Department projects.

<u>Unapproved Source</u> - A source that ships a finely divided mineral which must be sampled, tested, and approved by the Bureau before it is used on Department projects.

Cement - Portland cement.

<u>Fly Ash</u> - A finely divided residue that results from the combustion of ground or powdered coal, transported from the combustion chamber by exhaust gas, collected by mechanical or electrical means, and stored in stockpiles or bins.

<u>Microsilica</u> - An amorphous silica of high silica content and purity possessing high pozzolanic activity.

<u>Ground Granulated Blast-Furnace (GGBF) Slag</u> - A glassy granular material, formed when molten blast-furnace slag is rapidly chilled, and then finely ground.

<u>High-Reactivity Metakaolin (HRM)</u> - A reactive aluminosilicate pozzolan formed by calcining purified kaolinite at a specific temperature range.

<u>Reference Material</u> - A portland cement used for the control mortar and corresponding test mortars, of a finely divided mineral, to determine its strength activity index.

<u>Preliminary (PRE) Sample</u> - A sample used to determine, in advance, if the finely divided mineral will comply with Department specifications.

<u>Process Control (PRO) Sample</u> - A sample used for the purpose of controlling production of finely divided minerals proposed for incorporation into Department projects.

Acceptance (ACC) Sample - A sample used for accepting/rejecting finely divided minerals prior to its use on Department projects and/or unassigned stock for future use on projects. The quantity represented by acceptance samples must be given.

<u>Independent Assurance (IND) Sample</u> - A sample used to provide an independent check on the reliability of the manufacturer's quality control program.

<u>Investigation (INV) Sample</u> - A destination sample used to verify the acceptability of a finely divided mineral from a source.

Grab Sample - A sample secured from a conveyor, from bulk storage, or from a bulk shipment in one operation.

<u>Composite Sample</u> - Combined grab samples taken at prescribed intervals over a period of time.

NIST - National Institute of Standards and Technology.

CCRL - Cement and Concrete Reference Laboratory.

ISO 9000 Series - A program of international quality management system standards developed by the International Organization for Standardization (ISO).

1.0 PURPOSE

To establish procedures whereby materials of mineral origin, furnished by a **Manufacturer** or **Supplier**, will be accepted for use on **Department** projects.

2.0 SCOPE

This procedure is available to all **Manufacturers** or **Suppliers** of domestic and foreign **Finely Divided Minerals**. **Sources** in North America may be **Approved** or **Unapproved**. **Sources** located outside of North American will not be given **Approved Source** status, and the procedures in Sections 5.1 and 5.3 shall apply.

3.0 SPECIFICATION REQUIREMENTS, SAMPLING, AND TEST PROCEDURES

3.1 **Finely Divided Minerals** used on **Department** projects shall meet the material requirements of the **Department's** "Standard Specifications for Road and Bridge Construction (January 1, 2007)" and current special provisions.

4.0 APPROVED SOURCE PROCEDURE

- 4.1 A **Manufacturer** or **Supplier** requesting **Source** approval of a **Finely Divided Mineral** shall provide the following to the **Bureau**:
 - (1) The **Manufacturer**'s or **Supplier**'s name and location.
 - (2) The **Source** name, location (station), and number of generating units.
 - (3) The name of the **Finely Divided Mineral** and its class or grade.
 - (4) A certification that the **Finely Divided Mineral** meets the applicable requirements of Section 3.0.
 - (5) A 6-month testing history.
 - (6) A copy of the **Manufacturer**'s or **Supplier**'s quality control program.
 - (7) A copy of the last CCRL inspection report of the testing laboratory used by the Manufacturer or Supplier of the Finely Divided Mineral, with documentation of resolution of any discrepancies noted therein. The Manufacturer or Supplier of HRM or Microsilica shall provide a copy of the testing laboratory's CCRL inspection report and/or an ISO 9000 Series certificate.
 - (8) A copy of the Material Safety Data Sheet (MSDS) for the **Finely Divided Mineral**.

At the time of application, the Manufacturer or Supplier shall obtain a Preliminary (PRE) Grab Sample of the Finely Divided Mineral from current production. The Manufacturer or Supplier shall split the PRE Sample and place one portion in an airtight container and deliver it to the Bureau. A sample of the Reference Material used by the Manufacturer or Supplier for testing shall be included. The Manufacturer or Supplier shall assume the cost to deliver the samples to the Bureau. The size of the Bureau's portion of the PRE Sample, and the Reference Material, shall not be less than 3 kg (6 lb.) each and the samples shall be properly identified as required in Attachment 1. The Manufacturer or Supplier shall test the retained portion of the PRE Sample for the standard physical and chemical properties listed in the applicable specification in Section 3.0 and deliver a copy of the test results to the Bureau for comparison.

The **Bureau** will test its portion of the **PRE Grab Sample** for conformance to Section 3.0. The **Bureau** will compare the results obtained by both laboratories to determine compliance with the allowable difference between two laboratories set forth in the precision statement of each test method. Additional split sample testing will be required if the test results obtained on the **PRE Grab Sample** do not comply with the specification requirements of this policy memorandum.

An inspector from the **Bureau** may conduct a scheduled visit to inspect the laboratory facilities designated by the **Manufacturer** or **Supplier** to test the **Finely Divided Mineral**; the **Source** manufacturing process, the **Source** storage facilities; and the quality control policies, procedures, and practices used by the **Manufacturer** or **Supplier**. The **Manufacturer** of **Supplier** shall be responsible for payment of transportation, per diem (meals), lodging, and incidental travel costs incurred by the **Department**.

The **Bureau** will notify the **Manufacturer** or **Supplier**, in writing, if the request for **Approved Source** status is granted or denied. A request may be denied if the **Manufacturer** or **Supplier** fails to meet the requirements of this policy memorandum, or for other reasons determined by the **Department**.

4.2 Quality Control Requirements for **Approved Sources**:

The **Manufacturer** or **Supplier** shall establish and maintain quality control policies and procedures for sampling and testing that are approved by the **Bureau**. The **Bureau** shall be notified of any changes in the **Manufacturer's** or **Supplier**'s quality control program.

Testing laboratories used by the Manufacturers or Suppliers of Fly Ash or GGBF Slag shall participate in the CCRL pozzolan program of the NIST, which includes inspection of facilities and testing of comparative samples. As an alternative to the CCRL pozzolan program of the NIST, Manufacturers or Suppliers of GGBF Slag may participate in the CCRL cement program. Testing laboratories used by the Manufacturers or Suppliers of Microsilica or HRM shall participate in the CCRL pozzolan program of the NIST and/or shall have implemented a quality management system based on the ISO 9000 Series standards.

4.3 Reporting Requirements for **Approved Sources**:

The **Manufacturer** or **Supplier** shall deliver a test report to the **Bureau** which lists the results of all **Grab** and/or **Composite Samples** taken and tested for the specified reporting period.

For **Fly Ash**, the report shall be monthly, and shall be delivered no later than forty calendar days after the end of the month. If the **Fly Ash Source** is sampling more frequently than once per month according to ASTM C 311, then the report shall be delivered no later than forty calendar days after the end of the composite date. If the deadline falls on a Saturday, Sunday, or State Holiday, the deadline shall be the next work day.

For **GGBF Slag**, **HRM**, and **Microsilica**, the report shall be quarterly and shall be delivered no later than forty calendar days after the end of each quarter. For the purpose of the reports, the quarters shall end March 30, June 30, September 30, and December 31. If the deadline falls on a Saturday, Sunday, or State Holiday, the deadline shall be the next work day.

Sampling, testing, and reporting shall be done according to the applicable specification in Section 3.0.

4.4 Record Requirements for **Approved Sources**:

Records of production control tests shall be maintained by the **Manufacturer** or **Supplier** for a minimum period of 5 years, and shall be made available to the **Bureau** upon request.

Copies of bills of lading of quantities of **Finely Divided Minerals** shipped shall be maintained by the **Manufacturer** or **Supplier** for a minimum period of 3 years, and shall be made available to the **Bureau** upon request.

4.5 Sampling and Test Requirements for **Approved Sources**:

For **Fly Ash**, each February, May, August, and November, the **Supplier** shall obtain a **Process Control (PRO) Grab Sample**.

For **GGBF Slag, HRM, and Microsilica**, each January, April, July, and October, the **Manufacturer** or **Supplier** shall obtain a **PRO Grab Sample**.

The **PRO Grab Sample** shall be split for testing by the **Manufacturer** or **Supplier** and the **Bureau**. At this time, a sample of the current **Reference Material** used by the **Manufacturer** or **Supplier** for testing shall also be split.

The **Bureau** may require that more frequent **PRO Grab Samples** be obtained and tested. Increasing the sampling frequency may be required due to significant changes in the material or process, variations in test results between the **Bureau** and **Manufacturer** or **Supplier**, field test results, or other reasons as determined by the **Bureau**. The **Bureau** samples shall be placed in airtight containers, properly identified on form BMPR CM01 (www.dot.il.gov/materials/materialforms.html), and delivered to the **Bureau** no later than the last work day of the month. Each **Finely Divided Mineral** sample and **Reference Material** sample shall not be less than 3 kg (6 lb).

The **Manufacturer** or **Supplier** shall test the retained portion of each **PRO Sample**, using the retained portion of the **Reference Material**, for the standard physical and chemical properties listed in the applicable specification in Section 3.0. When all tests are completed, the **Manufacturer** or **Supplier** shall record the test results on a report form that identifies the sample as a **PRO Sample**, and deliver the report to the **Bureau** no later than the last work day of the following month from the date of sample.

The test results obtained by the **Manufacturer** or **Supplier** and the **Bureau** on all split samples will be compared for compliance with the allowable differences for two laboratories set forth in the precision statement of each test method and for compliance with Section 3.0. If significant differences exist in the split sample test results, the **Department** will investigate sampling and test procedures, or require additional comparative sampling to determine the cause of the variation.

4.6 **Department** Inspections of **Approved Sources**:

An inspector from the **Bureau** may conduct unscheduled visits, at **Department** expense, to each **Approved Source** or one of its terminals. During this visit, the inspector will either take or witness the taking of a random **Independent Assurance** (IND) **Grab Sample**. The inspector will split the sample and deliver an equal portion to the **Manufacturer** or **Supplier**. The **Manufacturer** or **Supplier** shall test the retained portion of the split sample for the standard physical and chemical properties

listed in the applicable specification and deliver the test results to the **Bureau**, as specified in Section 4.5, for comparison and compliance with Section 3.0.

Random Investigation (INV) Samples of the Finely Divided Minerals and the project Cement will be obtained at final destination by a representative of the **Department**. The representative will either take or witness the taking of the **INV**

Samples. **INV Samples** will be **Grab Samples** and shall not be less than 3 kg (6 lb). (Note: **Cement** samples will be taken according to ASTM C 183). The

sampling location and frequency for obtaining **INV Samples** will be determined by the **Bureau** in consultation with the district offices.

The **Bureau** will test **INV Samples** to ascertain the results of **Finely Divided Mineral-**project **Cement** combinations. To verify that **Finely Divided Minerals** shipped from **Approved Sources** meet the requirements of Section 3.0, the **Bureau** will test **INV Samples** with the appropriate **Reference Material**.

4.7 Revocation of **Approved Source** Status:

Failure of a **Manufacturer** or **Supplier** to meet the requirements of Sections 3.0 and 4.0 of this policy memorandum will be sufficient cause to revoke **Approved Source** status. However, a total of three late submittals in a twelve month period for any of the following: test report (**Grab** or **Composite Samples**), **PRO Sample**, or **PRO** test results will be permitted. Revocation will occur if a fourth late submittal occurs in a twelve month period. The **Manufacturer** will be notified in writing when the third late submittal in a twelve month period occurs.

Failure to resolve significant differences in testing, as indicated by the test results obtained on **PRO** or **IND Samples** split with the **Manufacturer** or **Supplier** will be sufficient cause to revoke **Approved Source** status.

Failure of the testing laboratory, used by the **Manufacturer** or **Supplier** of a **Finely Divided Mineral**, to satisfactorily resolve the discrepancies noted in the **CCRL** inspection report and/or to maintain a quality management system based on the **ISO 9000 Series** will be sufficient cause to revoke **Approved Source** status.

Revocation of **Approved Source** status will be reported to the **Manufacturer** or **Supplier** in writing. The **Manufacturer** or **Supplier** may not re-apply for **Approved Source** status until 30 days have elapsed from the date of the written notice of revocation.

5.0 UNAPPROVED SOURCE PROCEDURE

- 5.1 A **Manufacturer** or **Supplier** requesting approval of a **Finely Divided Mineral** from an **Unapproved Source** shall provide the following to the **Bureau**:
 - (1) The **Manufacturer's** or **Supplier's** name and location.
 - (2) The **Source** name, location (station), and number of generating units.
 - (3) The name of the **Finely Divided Mineral** and its class or grade.

- (4) A current test report, in English, which indicates the standard physical and chemical composition of the **Finely Divided Mineral** as per Section 3.0.
- (5) The transportation method and location at which an inspector from the **Bureau** will be able to obtain **Acceptance (ACC) Samples**.
- (6) If requested by the Bureau, the Manufacturer or Supplier shall deliver to the Bureau a 24-hr Composite Preliminary (PRE) Sample of the Finely Divided Mineral from current shipments. The Manufacturer or Supplier shall assume the cost to deliver it to the Bureau. The size of the PRE Sample shall not be less than 3 kg (6 lb) and the sample shall be properly identified as required in Attachment 1.
- 5.2 Sampling and Test Requirements for **Unapproved Sources** in North America:
 - (1) Finely Divided Minerals from an Unapproved Source will be sampled, tested, and approved by the Bureau before use on Department projects. The Bureau has the option to affix a seal to secure Finely Divided Minerals in storage (e.g. silo, truck, railroad car, or barge) until the Bureau's testing is completed.
 - (2) Upon arrival of the Finely Divided Mineral to Illinois, an inspector from the Bureau will obtain Acceptance (ACC) Grab Samples according to the applicable specifications. The Bureau will determine the number of representative samples required.
 - (3) The Manufacturer or Supplier may request the Bureau to sample the Finely Divided Mineral prior to arrival in Illinois. In the event the request is approved, the Manufacturer or Supplier shall be responsible for payment of transportation, per diem (meals), lodging, and incidental travel costs incurred by the Department inspector. If the Department determines that it lacks the resources to accomplish out-of-state inspection, the Finely Divided Mineral may be sampled and tested according to the procedures in Section 5.3.
 - (4) Acceptance (ACC) Samples will be tested by the Bureau for conformance to Section 3.0, and to approve the Finely Divided Mineral for use on Department projects.
 - (5) Random Investigation (INV) Samples of Finely Divided Minerals may be obtained at final destination by a representative of the Department. The representative will either take or witness the taking of the INV Samples. INV Samples will be Grab Samples and will be taken according to the applicable specification. The sampling location and frequency for obtaining INV Samples will be determined by the Bureau in consultation with the district offices. The Bureau will use INV Samples to verify that the Finely Divided Mineral shipped meets the requirements of Section 3.0.
- 5.3 Sampling and Test Requirements for **Unapproved Sources** Located Outside North America:

An agent of the importer shall obtain an **Independent Assurance (IND) Grab Sample** from each barge of foreign **Finely Divided Mineral** loaded at the port of entry and destined for Illinois.

The agent shall split each barge **Grab Sample** and mail one portion to the **Bureau**. The other portion shall be mailed to the importer's testing laboratory that is approved by the **Department**. The importer of the **Finely Divided Mineral** shall be responsible for all sampling and mailing costs.

The importer's laboratory shall test its portion of each barge **Grab Sample** for the standard physical requirements of the applicable specifications. One random barge **Grab Sample**, representing the **Finely Divided Mineral** in each hold of the vessel shall be tested for chemical composition.

Upon completion of the tests, the importer shall deliver to the **Bureau** a certification that states the **Finely Divided Mineral** in the vessel unloaded at the port of entry has been tested by the importer, and complies with the applicable specifications. Attached to the certification shall be a test report of all barge samples. The report shall include the name of the vessel, the source of the **Finely Divided Mineral**, the barge number, the hold number, the date the sample was taken, the quantity of **Finely Divided Mineral** in the barge, and the physical and chemical test results obtained on the samples.

The importer shall immediately notify the **Bureau** if a barge sample fails to meet the applicable specification requirements.

The **Bureau** will review the certification and compare the importer's test data to the test data obtained by the **Bureau** on its portion of each split sample.

When the certification and the accompanying test report are examined and determined to be correct, the **Bureau** will notify the importer and the district offices that the **Finely Divided Mineral** is approved for state projects.

Random Investigation (INV) Samples, from one or more barges, may be taken by a **Department** inspector when the barges arrive at the Illinois terminal(s).

The **Department** will reject any foreign **Finely Divided Mineral** tested by the **Bureau**, or the importer, that does not meet the specification requirements. The **Department** may reject any barge of **Finely Divided Mineral** wherein the differences in test values, obtained by the **Department** and the importer on the split sample, exceeds the multilaboratory precision of the test method, but the **Finely Divided Mineral** is within specifications.

Alternative proposals to the sampling and test requirements stated in this section will be considered for **Finely Divided Minerals** which have an acceptable quality history, and which have previously been approved by the **Department**. Requests shall be directed to the **Bureau of Materials and Physical Research** for approval.

6.0 ACCEPTANCE OF FINELY DIVIDED MINERALS

- 6.1 **Finely Divided Minerals** will be accepted according to the **Department's** current "Standard Specifications for Road and Bridge Construction," current special provisions, and this policy memorandum.
- The Bureau will maintain and circulate a current list of Approved Sources of Finely Divided Minerals which meet the requirements of this policy memorandum. This list will include the name, location, and Producer/Supplier Number of each approved Manufacturer or Supplier of Finely Divided Minerals. These Manufacturers or Suppliers may ship Finely Divided Minerals for immediate use on Department projects.
- 6.3 **Finely Divided Minerals** from **Unapproved Sources** will be approved by the **Bureau** before use on **Department** projects.

7.0 REJECTION OF FINELY DIVIDED MINERALS

- 7.1 A **Finely Divided Mineral** that fails to conform to the requirements of Section 3.0 of this policy memorandum shall be rejected for use on **Department** projects.
- 7.2 The **Bureau** will notify the **Manufacturer** or **Supplier** when a **Finely Divided Mineral** is rejected for use on **Department** projects.

Dail I. Lypet

David L. Lippert, P.E. Acting Engineer of Materials and Physical Research

Attachment

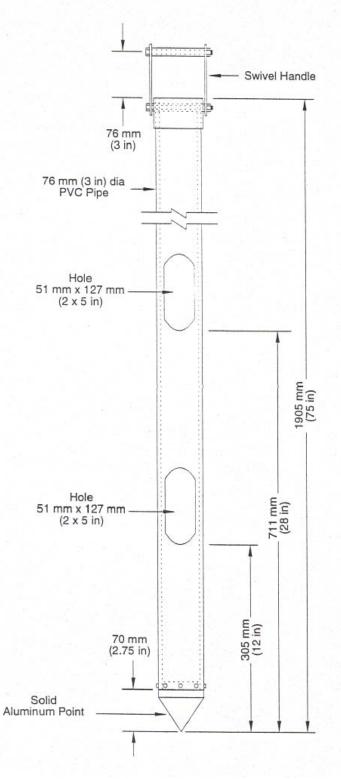
This policy memorandum supersedes Policy Memorandum 06-03 dated January 1, 2006.

DAD/dt

Vacuum Type Bulk Cement Sampler Drop Type Bulk Cement Sampler 76 mm (3 in) dia. ball valve Handle formed of #5 wire into arc approx. 220 mm (8 5/8 in) high and welded to opposite sides of pipe. 64 mm (2 1/2 in) dia. theaded pipe flange 120 mm (4 5/8 in) o.d. galvanized pipe 5.6 mm (0.220 in) 200 mm (7 7/8 in) wall thickness. Solid cone of cold or hot rolled steel. 64 mm (2 1/2 in) dia. PVC pipe approx. 1870 mm (74 in) long 120 mm (4 5/8 in) Approx. 60° bevel

10

Note: Total mass weight of sampler not less than 6 kg (13 lb)



Tube Type Bulk Cement Sampler

State of Illinois Department of Transportation Division of Aeronautics

POLICY MEMORANDUM

December 3, 2020 Springfield, Illinois Number: 2001-1

TO: CONTRACTORS

SUBJECT: REQUIREMENTS FOR COLD WEATHER CONCRETING

I. PURPOSE

A. This policy memorandum outlines the minimum requirements for cold weather concreting. Cold weather is defined as whenever the average ambient air temperature during day or night drops below 40 F.

II. COLD WEATHER CONCRETING PLAN

- A. The contractor shall submit a cold weather concreting plan to the Engineer for approval. Cold weather concreting operations are not allowed to proceed until the contractor's cold weather concreting plan has been approved by the Engineer.
- B. The contractor's plan shall comply with this memorandum and shall address, as a minimum, the following:
 - 1. Concrete Mix Manufacturing
 - 2. Concrete Mix Temperature Monitoring
 - 3. Base Preparation
 - 4. Concrete Curing and Protection
 - 5. In Place Concrete Temperature Monitoring
 - 6. Strength Test Specimens

III. MINIMUM REQUIREMENTS

A. Concrete Mix Manufacturing

- 1. The contractor must make the necessary adjustments so that the concrete temperature is maintained from 50 F to 90 F for placement. Acceptable methods include:
 - a) Heating the mixing water Note: If the mixing water is to be heated to a temperature above 100 F, the contractor must include a mixing sequence plan to indicate the order that each component of the mix is to be charged into the mixer.

b) Heating the aggregates Note: The exact method of heating the aggregates shall be included as part of the cold weather concreting plan. Aggregates must be free of ice and frozen lumps. To avoid the possibility of a quick or flash set of the concrete, when either the water or aggregates are heated to above 100 F, they should be combined in the mixer first before the cement is added.

B. Concrete Mix Temperature

1. The contractor shall monitor the mix temperature at the plant and prior to placement in the forms. Mix that does not meet the temperature requirement of 50 F to 90 F shall be rejected for use on the project.

C. Base Preparation

- 1. Paving or placing concrete on a frozen base, subbase, or subgrade is prohibited.
- The base, subbase, or subgrade on which the concrete is to be placed shall be thawed and heated to at least 40 F. The method by which the base subbase or subgrade is to be heated shall be indicated in the contractor's cold weather concreting plan. Insulating blankets or heated enclosures may be required.

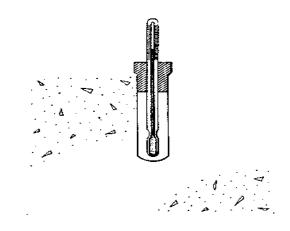
D. Concrete Protection and Curing

- In addition to the curing options available in article 501-4.13

 (a) (b), (c), (d), and (e) of the Standard Specifications for Construction of Airports, the contractor shall protect the concrete in such a manner as to maintain a concrete temperature of at least 50 F for 7 days.
- 2. The method of concrete protection shall be by use of insulating layer or heated enclosure around the concrete. The method of protection shall be indicated in the contractor's cold weather concreting plan. When insulating layers are to be used, the thermal resistance to heat transfer (R Value in F*hr*ft²/BTU) of the insulation material selected, shall be appropriate for the slab thickness being constructed and shall be indicated in the cold weather concreting plan.
- 3. Appendix A shows a chart and table taken from the American Concrete Institute specification, ACI 306 R Cold Weather Concreting, which may be used by the contractor in selecting the proper insulation (R Value) and insulating material which may be used.

E. In-Place Concrete Temperature Monitoring

- Once the concrete is in place, the protection method used, must ensure that the concrete temperature does not fall below 50 F for the time period specified in Section (D. 1.) of this Policy Memorandum (7 days).
- 2. The concrete temperature on the surface and below the surface must be monitored and recorded by the contractor for the duration of the protection period in Section (D. 1.).
- 3. After the concrete has hardened, surface temperature can be checked with special surface thermometers or with an ordinary thermometer that is kept covered with insulating blankets. The high and low values for each 24-hour period of protection must be measured and recorded.
- 4. One acceptable method of checking temperature below the concrete surface is given in the Portland Cement Association (PCA) book entitled "Design and Control of Concrete Mixtures" latest edition. The method is indicated below and it should be noted that the thermometer should be capable of recording high and low values for a given 24-hour period.



5. The exact method for <u>surface</u> and <u>sub-surface</u> concrete temperature monitoring shall be indicated in the contractor's cold weather concreting plan. The maximum permissible difference between the interior and surface temperature is 35 F. Adjustments in protection method shall be implemented if the maximum permissible difference is exceeded.

F. Strength specimen handling

- 1. The Contractor is responsible for making, transporting, and curing all samples (beams or cylinders)
- 2. The Contractor is required to load the testing machine and dispose of the broken pieces.
- 3. Onsite, indoor curing facilities, meeting the requirements of ASTM C-31, shall be required for cold weather concreting operations.

- Sampling for strength specimens shall be according to the Contract Special Provisions. Sampled concrete shall be transported to the indoor curing facilities for the casting of strength specimens.
- 5. The exact location and description of the curing facilities shall be indicated in the contractor's cold weather concreting plan.
- 6. The method of transporting concrete sampled from the grade to the curing facilities for casting shall be indicated in the contractor's cold weather concreting plan.

Alan D. Mlacnik, P.E. Bureau Chief of Airport Engineering

Supersedes Policy Memorandum 2001-1 dated January 1, 2004

APPENDIX A

Minimum exposure temperatures for concrete flatwork placed on the ground for concrete placed & surface temperature maintained at 50 F (10 C) for 3 days on ground at 35 F (2 C)

	Minimum ambient air temperature, deg F (deg C) allowable when insulation having these values of thermal resistance R, hr-ft²-F/Btu (m²-K/W), is used			
Slab thickness, in. (m)	R = 2 (0.35)	R = 4 (0.70)	R = 6 (1.06)	R = 8 (1.41)
, ,	Cement content	= 300 lb/yd2 (178 kg	/m2)	,
4 (0.10)	*	*	*	*
8 (0.20)	*	*	*	*
12 (0.31)	*	*	*	*
18 (0.46)	42 (6)	38 (3)	32 (0)	26 (-3)
24 (0.61)	37 (3)	25 (-4)	11 (-12)	-3 (-19)
30 (0.76)	31 (-1)	15 (-9)	-1 (-18)	-17 (-27)
36 (0.91)	31 (-1)	12 (-11)	-5 (-21)	-22 (-30)
Cement content = 400 lb/yd2 (237 kg/m2)				
4 (0.10)	*	*	*	*
8 (0.20)	*	*	*	*
12 (0.31)	46 (8)	44 (7)	42 (6)	40 (4)
18 (0.46)	36 (2)	22 (-6)	8 (-13)	-6 (-21)
24 (0.61)	28 (-2)	9 (-13)	-10 (-23)	-29 (-34)
30 (0.76)	21 (-6)	0 (-18)	-21 (-29)	-42 (-41)
36 (0.91)	21 (-6)	-4 (-20)	-29 (-34)	-50 (-46)
	Cement content	= 500 lb/yd2 (296 kg	/m2)	
4 (0.10)	*	*	*	*
8 (0.20)	*	*	*	*
12 (0.31)	42 (6)	36 (2)	30 (-1)	24 (-4)
18 (0.46)	30 (-1)	12 (-11)	-6 (-21)	-22 (-30)
24 (0.61)	21 (-6)	-5 (-21)	-31 (-35)	-50 (-46)
30 (0.76)	16 (-9)	-10 (-23)	-42 (-41)	-74 (-59)
36 (0.91)	16 (-9)	-18 (-28)	-50 (-46)	#
	Cement content	= 600 lb/yd2 (356 kg	/m2)	
4 (0.10)	*	*	*	*
8 (0.20)	*	*	*	*
12 (0.31)	38 (3)	26 (-3)	14 (-10)	2 (-17)
18 (0.46)	24 (-4)	0 (-18)	-24 (-31)	-48 (-44)
24 (0.61)	14 (-10)	-16 (-27)	-46 (-43)	-82 (-63)
30 (0.76)	10 (-12)	-20 (-29)	-62 (-52)	#
36 (0.91)	7 (-14)	-30 (-34)	#	#

^{* &}gt; 50 F (10 C): additional heat required

^{# &}lt;< -60 F (-51 C)

Minimum exposure temperatures for concrete flatwork placed on the ground for concrete placed & surface temperature maintained at 50 F (10 C) for 7 days on ground at 35 F (2 C)

	Minimum ambient air temperature, deg F (deg C) allowable when insulation having these values of thermal resistance R , hr-ft²-F/Btu (m²-K/W), is used				
Slab thickness, in. (m)	R = 2 (0.35)	R = 4 (0.70)	R = 6 (1.06)	R = 8 (1.41)	
	Cement content	= 300 lb/yd2 (178 kg	ı/m2)		
4 (0.10)	*	*	*	*	
8 (0.20)	*	*	*	*	
12 (0.31)	*	*	*	*	
18 (0.46)	46 (8)	42 (6)	36 (2)	30 (-1)	
24 (0.61)	40 (4)	31 (-1)	22 (-6)	11 (-12)	
30 (0.76)	35 (2)	22 (-6)	7 (-14)	-8 (-22)	
36 (0.91)	31 (-1)	13 (-11)	-5 (-21)	-23 (-31)	
	Cement content = 400 lb/yd2 (237 kg/m2)				
4 (0.10)	*	*	*	*	
8 (0.20)	*	*	*	*	
12 (0.31)	*	*	*	*	
18 (0.46)	41 (5)	32 (0)	22 (-6)	12 (-11)	
24 (0.61)	35 (2)	19 (-7)	-1 (-17)	-15 (-26)	
30 (0.76)	28 (-2)	8 (-13)	-14 (-26)	-36 (-38)	
36 (0.91)	23 (-5)	-4 (-20)	-29 (-34)	-54 (-48)	
	Cement content	= 500 lb/yd2 (296 kg	į/m2)		
4 (0.10)	*	*	*	*	
8 (0.20)	*	*	*	*	
12 (0.31)	48 (9)	44 (7)	40 (4)	36 (2)	
18 (0.46)	36 (2)	22 (-6)	8 (-13)	-6 (-21)	
24 (0.61)	28 (-2)	6 (-14)	-16 (-27)	-38 (-39)	
30 (0.76)	22 (-6)	-7 (-22)	-36 (-38)	-64 (-53)	
36 (0.91)	16 (-9)	-18 (-28)	-50 (-46)	#	
	Cement content	= 600 lb/yd2 (356 kg	ı/m2)		
4 (0.10)	*	*	*	*	
8 (0.20)	*	*	*	*	
12 (0.31)	44 (7)	38 (3)	32 (0)	26 (-3)	
18 (0.46)	31 (-1)	14 (-10)	-5 (-21)	-24 (-31)	
24 (0.61)	22 (-6)	-5 (-21)	-32 (-36)	-61 (-52)	
30 (0.76)	14 (-10)	-19 (-28)	-67 (-55)	#	
36 (0.91)	7 (-14)	-30 (-34)	#	#	

^{* &}gt; 50 F (10 C): additional heat required # < -60 F (-51 C)

Thermal Resistance of Various Insulating Materials

เขาสเซา เสาร		
	Thermal resistance	
	"R" for these	
	thicknesses of	
	material*	
	1 in.,	10 mm, m3⋅K /
	hr-ft3-F /	W
Insulating Material	Btu	VV
Boards and slabs		
Expanded polyurethane (R-11 exp.)	6.25	0.438
Expanded polystyrene extruded		
(R-11 exp.)	5	0.347
Expanded polystyrene extruded,		
plain	4	0.277
Glass fiber, organic bonded	4	0.277
Expanded polystyrene, molded beads	3.57	0.247
Mineral fiber with resin binder	3.45	0.239
Mineral fiber board, wet felted	2.94	0.204
Sheathing, regular density	2.63	0.182
Cellular glass	2.63	0.182
Laminated paperboard	2	0.139
Particle board (low density)	1.85	0.128
Plywood	1.25	0.087
Blanket		
Mineral fiber, fibrous form processed		
from rock, slag, or glass	3.23	0.224
Loose fill		
Wood fiber, soft woods	3.33	0.231
Mineral fiber (rock, slag, or glass)	2.5	0.173
Perlite (expanded)	2.7	0.187
Vermiculite (exfoliated)	2.2	0.152
Sawdust or shavings	2.22	0.154

^{*}Values from ASHRAE Handbook of Fundamentals, 1977, American Society of Heating, Refrigerating, and Air-Conditioning Engineers, New York.

State of Illinois Department of Transportation Office of Intermodal Project Implementation Aeronautics

POLICY MEMORANDUM

February 10, 2022 Springfield, Illinois Number 22-1

TO: CONSULTING ENGINEERS / CONTRACTORS

SUBJECT: ACCEPTED CEMENT TYPES

- I. This policy memorandum addresses the accepted cement types for use in Items 501 and 610 Concrete mixtures. Type IL cement has been added to the approved list and may be used on all IDOT-Let Aeronautics projects.
- II. The following cement types are approved.
 - a. Type I cement conforming to the requirements of ASTM C 150.
 - b. Type IL cement conforming to the requirements of ASTM C 595.
 - c. All other types are not allowed unless specified by Special Provisions.

William C. Eves, P.E. Acting Chief Engineer

State of Illinois Department of Transportation Division of Aeronautics

POLICY MEMORANDUM

March 28, 2022 Springfield Number 96-1A

TO: CONSULTING ENGINEERS

SUBJECT: FOR AERONAUTICS 2020 STANDARD SPECIFICATIONS,

ITEM 610, STRUCTURAL PORTLAND CEMENT CONCRETE: JOB MIX FORMULA APPROVAL & PRODUCTION TESTING.

I. This policy memorandum addresses the Job Mix Formula (JMF) approval process and production testing requirements when Item 610 is specified for an airport construction contract.

II. PROCESS

- a. The contractor may submit a mix design with recent substantiating test data, or he may submit a mix design generated by the Illinois Division of Highways with recent substantiating test data for approval consideration. The mix design should be submitted to the Resident Engineer. An Item 501 PCC Pavement mix can be used in lieu of a Class SI mix, with the approval of the Division.
- b. The Resident Engineer should verify that each component of the proposed mix meets the requirements set forth under Item 610 of the 2020 Standard Specifications for Construction of Airports and/or the contract special provisions.
- c. The mix design should also indicate the following information:
 - 1. The name, address, and producer/supplier number for the concrete.
 - 2. The source, producer/supplier number, gradation, quality, and SSD weight for the proposed coarse and fine aggregates.
 - 3. The source, producer/supplier number, type, and weight of the proposed flyash and/or cement.
 - 4. The source, producer/supplier number, dosage rate or dosage of all admixtures.
- d. After completion of Items b and c above, the mix with substantiating test data shall be forwarded to the Division of Aeronautics for approval. Once the mix has been approved, the production testing shall be at the rate in Section III as specified herein.

III. PRODUCTION TESTING

- a. When directed by the Resident Engineer, the Contractor shall make, cure and store one set of cylinders in accordance with AASHTO T23 for acceptance testing for each day the mix is used. In addition, at least one slump, one mix temperature, and one air test shall be conducted for each day the mix is used.
- b. The concrete shall have a maximum slump of four inches (4") and minimum slump of two inches (2") when tested in accordance with AASHTO T119.
- c. The air content of the concrete shall be between 5% and 8% by volume when tested in accordance with AAHSTO T152.
- d. At no time shall the temperature of the concrete exceed 90 degrees Fahrenheit.
- e. Acceptance testing for concrete provided under this item shall have a 14-day compressive strength of not less than 3,500 psi when tested in accordance with AASHTO T22. The testing lab shall be IDOT or AASHTO approved. The Resident Engineer will be responsible for the strength tests on the specimens at no expense to the contractor.
- f. If more than 100 cubic yards of the mix is placed in a given day, additional tests at a frequency of 1 per 100 cubic yards shall be taken for strength, slump, mix temperature, and air.
- g. The Resident Engineer shall collect actual batch weight tickets for every batch of Item 610 concrete used for the project. The actual batch weight tickets shall be kept with the project records and shall be available upon request of the Department of Transportation.

William C. Eves, P.E. Acting Chief Engineer

Supersedes Policy Memorandum 96-1 (2020) dated December 3, 2020

SBG Project: 3-17-SBGP-TBD Final Submittal

IL Project: 3CK-5001

ITEM L-126 AUTOMATED WEATHER OBSERVING SYSTEM – LEVEL III DESCRIPTION

126-1.1 This item shall consist of a complete "turnkey" installation of an FAA-approved Level III Automated Weather Observing System (AWOS) with precipitation type & thunderstorm sensors in accordance with these Special Provisions and the documents listed below. The system shall be installed at the specified location and in accordance with the dimensions and details shown in the plans. The term, "turnkey," shall mean the Contractor is responsible for installing the AWOS III P/T, including review of the plans for suitability with proposed equipment, coordination and recommendations on site preparation, processing of paperwork and approvals required, installation, calibration and start-up of AWOS III P/T equipment, maintenance training of airport personnel, warranties, spare parts, remote maintenance and repair monitoring, certification, travel, and other items as required for a complete, operational, and FAAcommissioned AWOS III P/T. (A three 3-year maintenance agreement shall be included as part of this contract.) In addition, this item shall include providing and installing and gaining FAA certification for an AWOS III P/T complete and placing the data link and broadcast transmitters on the air in compliance with F.C.C. license, rules and regulations. The AWOS III P/T shall be a single source certified, established and proven equipment configuration. The above description shall not be construed as being all-inclusive or restrictive. All work and materials related to the power feed from the vault shall be a sperate pay item (AR800027).

This item will also include the removal of the existing AWOS equipment, foundations and its related equipment and materials as a separate pay item (AR800015).

The Contractor shall ascertain that all AWOS III P/T and radio system components furnished by him (including FAA approved equipment) are compatible in all respects with each other and the remainder of the new/existing equipment at the airport. Any non-compatible components furnished by the Contractor shall be replaced by him at no additional cost to the airport with a similar unit, approved by the Engineer (different model or different manufacturer) that is compatible with the remainder of the system and existing airport equipment.

126-1.2 USE OF DOCUMENTS

The following documents shall be considered a part of this specification:

- 1. AC 150/5220-16E, "Automated Weather Observing Systems (AWOS) for Non-Federal Applications."
- 2. AC 150/5345-53D, latest edition, "Approved Airport Equipment."
- 3. AC 70/7460-1M, "Obstruction Marking and Lighting."

126-1.3 SITE PREPARATION AND OTHER WORK

This item is divided into two parts as follows: Site Preparation and AWOS III P/T Installation.

A. <u>Site Preparation.</u> This work includes all labor, equipment, and material required to provide power and transmit the control and data signals from the AWOS III P/T and the remote

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sensors, to the central processing unit (CPU), data acquisition terminal, remote displays and VHF transmitter. This work includes, but is not limited to, the following:

- (1) Complete general AWOS site work including grading, installing and leveling of crushed stone, landscaping, seeding, mulching, as specified or shown on the plans.
- (2) Provide and install a new 120/240 VAC, Single Phase, 3 wire service from the Airfield Lighting Vault to the AWOS III P/T site as noted on the plans. The cost of material and installation of cable shall be paid under pay item AR800027.
- (3) Items included but not limited in AR800016 Install Type III P/T AWOS pay item shall be new circuit breaker in the vault, cabling and conduit for remote sensor locations, tower lighting system; data link transmitter; main AWOS computer in Terminal Building, and other associated AWOS III P/T items as required. Power cable will be in unit duct between the Airfield Lighting Vault and distribution panel at the AWOS site as detailed on the plans. Power cables at the AWOS site will be in rigid steel conduit (above ground) or high-density polyethylene unit duct (underground) as allowed by the National Electric Code (NFPA 70) (NEC) current edition or as noted.
 - **3-A** Should power requirements for the proposed AWOS III P/T site, sensor array and equipment exceed the specified power, it will be supplied as per manufacturer's specifications and recommendations. The contractor will provide the project engineer with these specifications and recommendations.
 - **3-B** Power to the CPU and, data terminal, transmitters and remote data terminal will be supplied from the existing power panel in the terminal/FBO building and installed by the contractor per requirements of the NEC current edition, and shall be fed via its own circuit breakers. Power cabling in the terminal/FBO building shall be installed in metal conduits as allowed by the NEC current edition or as noted.
- (4) Provide and install control and data cables in conduit from the AWOS III P/T site and sensor array. All control cabling at the AWOS site will be in rigid steel conduit or weather tight metallic flexible conduit as allowed by the National Electric Code (NFPA 70) (NEC) current edition or as noted.
- (5) Provide and install a new 6 strand single-mode fiber optic cable from the CPU located in the Airport Office Building to the AWOS III P/T site as noted on the plans. The cost of material and installation of cable shall be paid under pay item AR800178. Contractor shall intercept existing AWOS communication cable and remove existing AWOS communication cable from conduit. New cable and conduit will need to be installed between intercept and AWOS. Control cabling in the terminal/FBO building shall be installed in metal conduits as allowed by the NEC current edition or as noted.
- (6) Removal of existing AWOS tower, equipment, foundations and construct foundations for the tower base, distribution panel/transformer mounting channels, and sensors.
- (7) Provide and install a 30' self-supporting freestanding tower as shown on the construction plans.
- (8) Construct level rock pad as shown in the plans 8-inches in depth for the AWOS III P/T site, centered on the tower and sensor array.

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- (9) Determine true north and mark the location.
- (10) Complete miscellaneous site work and other miscellaneous items noted on the plans and specifications.
- (11) Verify sensor array site and transmitter Latitude & Longitude coordinates to the nearest thousandth of a second.
- (12) Verify sensor array site and transmitter elevation and highest point on the tower, sensor array, or antenna to the nearest hundredth of a foot.
- (13) Obtain all required licenses, state and local permits and certification in order to construct and commission an FAA certified AWOS III P/T.
 - **13-A** Airspacing and approval for the AWOS III P/T site and transmit locations will be submitted to the FAA by the engineer and are not the responsibility of the contractor.
 - **13-B** Application and coordination of the frequency and licensing for the VHF broadcast transmitters shall be the responsibility of the contractor.
 - **13-C** Application and coordination of the state and local permits required shall be the responsibility of the contractor.

The above work may be performed by the AWOS III P/T manufacturer or an approved installer engaged in work of this type. The above descriptions shall not be construed as being all-inclusive or restrictive.

B. <u>AWOS III P/T Installation</u>. This work includes all labor, equipment, and material required to install, make operational and commission the AWOS III P/T equipment, VHF equipment, data acquisition, and data displays. Included in this work shall be the training of airport personnel as described herein, providing spare parts, and additional items required to provide a fully operational and FAA-commissioned AWOS III P/T for the airport.

This work shall be performed by the AWOS III P/T manufacturer or a certified approved installer regularly engaged in work of this type, and shall include furnishing and installing the equipment, calibration, start-up, and certification of equipment. The above descriptions shall not be construed as being all-inclusive or restrictive.

Sensors shall be installed at the locations and elevations shown in the plans or alternative locations as recommended by the manufacturer and approved by the Engineer. All connections of the cables to the sensors, data collection, processing unit and data terminal will be in accordance with the manufacturer's specifications.

The following input/output media shall be provided:

- (1) Direct Voice Input to add local notice voice broadcasts.
- (2) Voice output transmitted via the proposed VHF equipment.
- (3) Ability for telephone dial-up access to voice output for future use.

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(4) Computer hardware and software capable of generating the AWOS output data in a format compatible with the National Airspace Data Interchange Network (NADIN) for future use. Packet Data Format. (Third party distribution network service not included in this project.)

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Final Submittal

SBG Project: 3-17-SBGP-TBD

- (5) A minimum of two independent Universal Serial Bus USB ports for data interrogation and transfer for accident investigation.
- (6) Current industry standard ETHERNET Local Area Network (ELAN) card set shall be installed to connect with the airports current or future local area network, with the ability to display the weather data locally, and provide future access to a state or national weather data center.
- (7) One CPU/Data Terminal, complete with 17" LCD color video display with speakers and volume control, keyboard, mouse, direct voice input device, and printer. Along with data acquisition/processing hardware and software, the CPU/Data Terminal operating system shall be an open architecture type capable of future software upgrades, The CPU/Data Terminal shall be located in a secure area within the Airport Office Building, final location to be coordinated with the Airport.
- (8) The AWOS weather observation output shall be set in Mode 2 Full-time Automated Operation with Local Notice to Airmen (NOTAM).

126-1.4 AWOS III P/T SERVICES

In addition to supplying and installing the aforementioned equipment, the AWOS III P/T installer/manufacturer shall provide the following services and equipment:

- a. Assist the Airport to obtain all required licenses, permits, agreements, and certification to accomplish FAA commissioning of the AWOS III system.
- b. Conduct all required systems performance tests and participate in FAA ground check, flight check, and site commissioning of the AWOS III P/T system complete. This includes providing and compensating a qualified technician to be on site for the FAA, ground and flight check of the AWOS III P/T and placing the transmitters on the air in accordance with FCC rules and regulations.
- c. Prepare the AWOS III P/T for the FAA ground check. Place and keep the AWOS III P/T in an operational test mode until it is certified by the FAA. If the FAA disapproves either the ground check or flight check, the installer/manufacturer shall further prepare the AWOS III P/T until it passes the check.
- d. Post certificates and notices outlined in AC 150/5220-16E.
- e. Provide onsite system operation, maintenance, and repair technician training including three complete sets of manuals per airport for designated airport operator and technical personnel. Upon completion of this training, personnel shall be prepared to provide onsite assistance and possess the ability to perform routine maintenance, adjustments and calibration.
- f. Provide a Memorandum of Agreement (MOA) for three years starting on the day of FAA commissioning for AWOS system maintenance. The agreement shall cover required

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inspections and maintenance visits to keep the system in operation for the duration of the MOA. This agreement will be considered incidental to the contract and no additional compensation will be made.

- g. Accomplish Remote Maintenance and Repair Monitoring for three years starting on the day of FAA commissioning and provide written documentation of same to the Engineer. This agreement will be considered incidental to the contract and no additional compensation will be made.
- h. All test equipment and a Princo Model 453 mercurial barometer or approved equal, required for calibration, acceptance testing, servicing and/or preventive maintenance checks shall be included in the base bid. All test equipment shall become the property of the airport.
- i. Provide spare sensors or parts for the sensors, as applicable and spare parts for the sensor array, CPU/Data Terminal, display terminal and any other spare parts recommended by the manufacturer (typically those with an expected one-year lifespan – See 126-2.13). This spare parts supply cache should be continually replenished after use during the three-year maintenance period.
- j. At the end of the three-year maintenance period, all systems shall be adjusted and recalibrated and all associated testing and calibration equipment should be turned over to the airport/owner.
- k. Provide access codes or passwords unique to this AWOS and installed equipment to perform user and engineering level adjustments and calibration.
- I. All work shall be completed in accordance with these Special Provisions, the construction plans, and AC 150/5220-16E.

EQUIPMENT, MATERIALS, AND SERVICES

126-2.1 **GENERAL**

- a. Except as specified otherwise, all new equipment shall be provided by the Contractor and shall be tested for specification conformance as part of the Aviation Lighting Equipment Certification Program, FAA approval of airport lighting equipment and subsequent inclusion in Advisory Circular 150/5345-53D, "Approved Airport Equipment", only means that the test data satisfied the applicable specification requirements. This does not insure that the approved equipment will satisfactorily operate when connected either power-wise and/or control-wise. to other approved airport lighting equipment or "off the shelf" equipment not requiring FAA approval.
- b. Equipment and materials covered by other referenced specifications shall be subject to acceptance through the manufacturer's certification of compliance with the applicable specifications.

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126-2.2 SITE EQUIPMENT AND MATERIALS

a. Structural Concrete. Structural concrete used for tower base construction, sensor base construction and other miscellaneous concrete construction shall conform to Item 610 Structural PCC.

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b. Power and Communications Cable. Shall conform to ANSI/NFPA 70 – National Electric Code and UL Standard No. 44, Thermoset Insulated wires and Cables, and as detailed on the plans.

RHW-2/USE Wire shall be 600V rated, sized as indicated on the drawings. Cable shall comply with Underwriters Laboratories Standard U.L. 44 (for RHW-2) and UL 854 (for USE) and shall pass IEEE 383, 70,000 BTU/hr and VW-1 Flame Tests. Cable insulation shall be abrasion, moisture, heat and sunlight resistant black cross linked polyethylene (XLP). Cables shall be rated for use at 90 degrees C in both wet and dry locations and be suitable for use in conduit, underground service entrance rated cable and direct burial applications.

THHN/THWN cable shall be 600 Volt rated and sized as indicated on the drawings. Cable shall comply with Underwriter's Laboratories Standard U.L 83. Cables shall be rated 90 degrees C in dry locations and 75 degrees C in wet locations.

c. Electrical Duct. Shall conform as detailed on the plans.

All outdoor conduits above grade shall be galvanized rigid steel unless otherwise noted in the plans. All buried conduit shall be High Density Polyethylene unless otherwise noted in the plans. All indoor conduits above grade shall be EMT unless otherwise required by code (NEC) or as noted in the plans.

- d. Distribution Panel. Shall be lockable, rated NEMA 3R, with main breaker and branch circuit breakers as detailed on the plans. Panel, main circuit breakers and branch breakers shall be of the size and type and as detailed on the plans, recommended by the manufacturers and approved by the Engineer. Branch circuit breaker located in electrical vault shall be as shown and detailed in plans.
- e. Stone. Shall be crushed aggregate (AR209608).

126-2.2 AWOS III P/T EQUIPMENT AND MATERIALS

A. AWOS III P/T SYSTEM. The AWOS III P/T shall be a certified FAA system in accordance with the above documents and manufactured by:

Mesotech International, Inc. 2731 Citrus Road, Suit D Rancho Cordova, California 95742 Tel: 800 637-6832

DBT Transportation Services 1065 National Drive Sacramento, CA 95834 Tel: 970 237-3521

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All Weather, Inc. 1165 National Drive Sacramento, CA 95834 USA Toll Free: 800-824-5873

Tel: 916 928-1000

OR APPROVED EQUAL

B. General Performance Standards

(1) Input Power: AWOS equipment shall operate from a 120 AC (±10%), 60 Hz (±5 Hz), 2-wire single phase service. The AWOS enclosure shall be mounted to the AWOS tower in accordance with the manufacturer's specifications. The required amount of current (amperes) shall be determined by the AWOS manufacturer.

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- (2) Loss of Power: The AWOS system will return to normal operation without human intervention after a power outage. When power is restored, the system will not output erroneous data. The system shall have the capability of operating from an Uninterruptible Power Supply (UPS), which is not included in this contract.
- (3) Operating Environment. The AWOS equipment shall meet the requirements for operating in a Class 1 environment as defined in AC 150/5220-16E.
- (4) <u>AWOS III P/T Instrumentation</u>. The systems to be installed shall be FAA certified as AWOS III P/T. All equipment provided shall be new. The weather station shall contain the following weather monitoring instruments and shall meet the specifications contained herein:
 - i. Wind (speed, direction, and gusts) shall meet the specifications for AWOS contained in AC 150/5220-16E.
 - ii. Air temperature shall meet the specifications for AWOS contained in AC 150/5220-16E. Temperatures from -65° F to 130° F shall be reported by the system.
 - iii. Dew points sensor shall meet the specifications for AWOS contained in AC 150/5220-16E.
 - iv. Barometric pressure sensor shall meet the specifications for AWOS contained in AC150/5220-16E.
 - v. Cloud height sensor shall meet the specifications for AWOS contained in AC 150/5220-16E.
 - vi. Visibility sensor shall meet the specifications for AWOS contained in AC 150/5220-16E.
 - vii. Precipitation occurrence and accumulation sensor shall meet the specifications for AWOS contained in AC 150/5220-16E.
 - viii. Thunderstorm detection sensor shall meet the specification for AWOS contained in AC 150/5220-16E.

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ix. Report density altitude shall meet the specifications for AWOS contained in AC 150/5220-16E.

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- (5) AWOS Data Processor. Shall meet the specifications for AWOS contained in AC 150/5220-16E. The voice message shall be provided to users via an integral automatic telephone answering device. The system shall generate these outputs: computer generated voice transmitted to pilots; telephone port for dial-up service; personal computer access via modem/network interface card, output port for a video display; and output port to one of the national weather networks. Equipment and installation required for communication with a national or state weather network is not included in this contract. An error indication light (or error notification on the video display) shall be provided which will be located in an attended location and will be energized when a parameter is reported "missing" by the AWOS.
- (6) <u>Voice Subsystem</u>. Shall meet the specifications for AWOS contained in AC 150/5220-16E. The voice system will contain an automatic telephone answering device that will permit user access to the voice message via the public telephone system according to AC 150/5220-16E, paragraph 32.a.(7). The voice system shall be <u>loud and clear</u> when received.
- (7) <u>Voice Message Addition</u>. Shall meet the specifications for AWOS contained in AC 150/5220-16E. Shall contain a device and the capability to manually input a voice message to the end of the computer generated voice message according to AC 150/5220-16E, Paragraph 31.a.(1)(iv). The voice system shall be <u>loud and clear</u> when received.
- (8) <u>Date Terminal (DT)</u>. DT shall be installed at location shown on plans or as directed by the Resident Engineer or Airport Manager.

126-2.3 VHF TRANSMITTER

- a. The VHF transmitter shall be a Global-Wulfsberg WT100 or approved equal. The transmitter shall operate in the 118-136 MHz band and shall have FAA approval of FCC type acceptance. The transmitter will be turned on the assigned frequency and placed on the air by a qualified technician possessing the required FCC credentials.
- b. The antenna mount at the Airport Office Building shall be a universal one leg mount as manufactured by ROHN Products LLC, Model 1LG or approved equal.
- c. The voice shall originate at the Airport Office Building and broadcast via VHF equipment.
- d. Equipment, material, antenna, cable, miscellaneous items, and labor required to install and place the VHF equipment on the air in compliance with the F.C.C. license, rules and regulations will be as recommended by the manufacturer and considered incidental to the project, no additional compensation will be allowed.

126-2.5 EQUIPMENT ENCLOSURES

AWOS components not designed for outdoor use shall be located in the Airport Office Building in accordance with manufacturer and FAA guidelines. All outdoor enclosures will be NEMA 4



enclosures. All outdoor hardware is to be constructed of material specified and shall be corrosion resistant. If no materials are stated, stainless steel or aluminum may be used.

126-2.6 **CONDUIT**

Conduits shall be used between all sensors at the AWOS site and inside the Airport Office Building for both power and signal cables. The conduit shall meet the requirements of these specifications and the National Electric Code (NEC).

Schedule 40 Galvanized Rigid Steel Conduit shall be of heavy wall type fabricated from mild steel tubing and shall have a hot-dipped galvanized inner and outer coating, with a final coating of zinc chromate. Conduit and installation shall comply with all requirements in NEC Article 344.

Electrical Metallic Tubing (EMT) shall be hot dip galvanized steel with an organic corrosion resistant coating and shall be produced in accordance with U.L. Standard 797, ANSI C80.3 and NEMA RN2. Fittings for EMT conduit shall be compression type only, set-screw type fittings shall not be utilized. Conduit and installation shall comply with all requirements in NEC Article 358.

High-Density Polyethylene Conduit (Unit Duct) shall be installed with additions, options and exceptions as noted herein. Unless otherwise specified, the Polyethylene Duct shall be Schedule 40 and comply with the following:

a.	NEMA TC-7	Smooth Wall Coilable Polyethylene Electrical Plastic Duct
b.	ASTM D-3350	Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
C.	ASTM D-2477	Standard Specifications for Polyethylene (PE) Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter
d.	ASTM D-3350	Standard Specifications for Polyethylene Plastics Pipe and Fittings Materials
e.	NEC Art. 353	High Density Polyethylene Conduit; Type HDPE Conduit

Materials used for the manufacture of the polyethylene conduit and casing shall be high-density polyethylene that meets or exceeds a cell classification of 334430C (Black) or 334430E (Colored Shell) per ASTM D-3350. Recycled and reclaimed materials from outside the manufacturers plant shall not be utilized in manufacture. Black material shall contain a minimum of 2% carbon black for long-term protection against UV degradation. The base resign used in the manufacture of the product shall contain a high-quality anti-oxidant package. The wall thickness shall be in accordance with ASTM D-2447. Conduit or casing shall be continuously marked with durable printing at intervals no greater than five (5) feet. Coils and reels shall have sequential footage marks. In order to prevent the entrance of dirt and water, the open ends of each length of reeled flexible duct, and all installed lengths prior to termination, shall be sealed by plastic caps. Polyethylene duct shall be Tamaqua, CPChem (Division of Chevron Phillips Chemical), Cablecon (by Integral Corp.) or equivalent. All fittings shall be specifically designed for use with polyethylene conduit. All terminations of polyethylene conduit to other conduit types shall be made utilizing fittings listed for the purpose. Solvent bonding of polyethylene conduit shall utilize American Polywater Corp. BonDuit Conduit Adhesive, or approved equivalent. Conduit and installation shall comply with all requirements in NEC Article 353.

126-2.7 WIRE AND CONTROL CABLE

Wire and control cables shall meet the requirements of the NEC and equipment manufacturer's recommendation. Control cables shall be the manufacturer's required number of pairs plus one spare pair for each pair used. All cables are to be shielded. Buried communications cables will be RDUP PE-39 CASPIC-F. All communications cables will meet AWOS manufacturer's specifications.

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126-2.8 **AWOS DATA LINK**

The AWOS system shall utilize a fiber optic cable connection to transmit AWOS data to the CPU/ Data Terminal. Existing AWOS communication cable and conduit shall be located by contractor and intercepted. Existing AWOS communication cable shall be removed and new conduit shall be installed between intercept and new AWOS. New communication cable shall be installed between Data Terminal and AWOS. The Contractor shall be responsible for establishing the direct line of communication between the AWOS and the Data Link.

TOWER 126-2.9

Shall be a triangular truss, welded steel, self-supporting tower as manufactured by ROHN Products LLC, Model 45G or approved equivalent. The tower shall not exceed the height specified in the drawings or in the airport sections in this specification. The tower shall conform to the AWOS manufacturer's specifications.

126-2.10 **TOWER PAINTING**

The tower shall be primed in accordance with the manufacturer's specifications prior to painting and shall be painted with alternating bands of aviation surface orange and white. The band widths shall be 1/6 of the height of the tower and perpendicular to the vertical axis of the tower with the bands at each end colored orange. Paint and aviation colors referred to in the specifications should conform to Federal Standards FED-STD-595. The colors are:

- a. Orange Number 12197, Aviation Surface Orange.
- b. White Number 17875. Aviation White.

126-2.11 **OBSTRUCTION LIGHT**

A dual L-810 LED obstruction light shall be placed within five feet of the highest point on the tower/sensor array in accordance with FAA requirements and manufacturer's plans and specifications. The two lamps on the L-810 are to be wired in parallel on a dedicated circuit.

TRANSIENT AND LIGHTNING PROTECTION 126-2.12

AWOS and radio equipment shall be protected against damage or operational upset due to lightning including induced surges on all sensor input lines, sensor supply lines and incoming power and data communication lines. Equipment (including electrical circuits of fiber optics modems) and personnel shall be protected from lightning surges and voltages, from power line transients and charges. Lightning protection systems shall be designed and installed in accordance with the Lightning Protection Code, NFPA 7B, and the manufacturer's

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recommendations for all equipment structures. Transient and lightning protection shall be installed at the start of construction to prevent damage to the instrumentation and components.

126-2.13 **SPARE PARTS**

The AWOS III P/T manufacturer shall recommend and provide spare parts for the AWOS III P/T. In general, these spare parts should be those with relatively low mean time between failure rates. The price of the spare parts shall not exceed 10 percent of the total equipment price. The spare parts shall be approved by the Engineer.

126-2.14 REMOTE MAINTENANCE AND REPAIR MONITORING

The AWOS III P/T manufacturer shall establish and demonstrate remote maintenance and repair monitoring of each system. This service consists of monitoring, at least weekly, each system via the telephone link, interrogating the system when a problem is detected, and notifying, with the initial diagnosis, the local repair technician that a problem is present and to dispatch him/her to the airport to accomplish the maintenance/repair. This service shall be in effect for three years commencing on the day of FAA commissioning. The system shall be monitored at least weekly. Documentation of same will be submitted to the Airport Manager on a quarterly basis. This agreement will be considered incidental to the contract and no additional compensation will be made.

126-2.15 **MAINTENANCE**

The contract shall include a three-year maintenance agreement with the AWOS III P/T manufacturer/installer. The agreement shall cover four inspections per year required by the FAA as well as parts, labor and return trips required to correct any discrepancies found in the inspections. This agreement shall also include up to two trips a year for the manufacturer's representatives to troubleshoot and repair any unanticipated malfunctions. This agreement will be considered incidental to the contract and no additional compensation will be made.

126-2.16 **TRANSFORMERS**

Step up/down transformers shall be installed for AWOS power as detailed in the plans. Transformers shall be sealed, dry type, NEMA 3R, Square D # 5S4F or approved equivalent. Installation shall meet the requirements of these specifications and the National Electric Code (NEC).

CONSTRUCTION METHODS

126-3.1 **GENERAL**

The AWOS III P/T layout shown in the plans is provided for guidance purposes. The Contractor shall submit a system layout according to the manufacturer's recommendations for approval to the Engineer prior to issuance of a Construction Notice to Proceed.

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126-3.2 SITE PREPARATION

All required grading, clearing, concrete foundation construction, trenching, aggregate stone, cabling, and other preparations will be considered incidental to the contract and no additional compensation will be made.

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126-3.3 POWER AND COMMUNICATIONS

Power and communication lines shall be installed in accordance with the manufacturer's specifications and recommendations, and ANSI/NFPA 70 – The National Electric Code. All splices shall be made in hand holes, junction boxes, or equipment cabinets. Splices will be minimized and require the engineer's approval. A distribution panel shall be installed as shown in the plans. The installation of AWOS load center, panelboard, unitstrut frame and grounding, and circuit breaker in electrical vault as shown on the plans is incidental to the AWOS pay item.

126-3.4 TOWER AND SENSOR BASES

The Contractor shall submit detailed shop drawings of the tower and sensor bases shown in the plans for the approval of the Engineer prior to issuance of a Notice to Proceed. All bases shall be constructed using portland cement concrete conforming to Item 610 Structural PCC.

Base construction, including, but not limited to, excavation, forming, concrete placement, setting of miscellaneous steel, and curing, shall be considered incidental to the contract and no additional compensation will be made.

126-3.5 WIND SENSOR TOWER

The wind sensor tower shall be installed in accordance with the manufacturer's specifications AC 150/5220-16E. The Contractor shall submit detailed shop drawings of the wind sensor tower to the Engineer for approval prior to issuance of the Notice to Proceed.

126-3.6 AWOS III P/T SENSORS

The AWOS III P/T sensors shall be located as shown in the plans unless otherwise approved by the Engineer. AWOS III P/T sensors shall be installed in accordance with manufacturer's specifications, AC 150/5220-16E.

126-3.7 MARKING AND LABELING

All equipment, wires, terminal blocks, etc. shall be tagged, marked, or labeled as specified:

a. Wire Identification. The Contractor shall furnish and install self-sticking wire labels or identifying tags on all wires at the point where they connect to the equipment or to the terminal blocks. Wire label, if used, shall be of the self-sticking preprinted type and of the manufacturer's recommended size for the wire involved. Identification markings shall be as designated by the Engineer. Tags, if used, shall be of fiber not less than 3/4 inch in diameter and not less than 1/32 inch thick. Identification markings shall be stamped on tags by means of small tool dies. Each tag shall be securely tied to the proper wire by a nonmetallic cord.

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b. <u>Labels</u>. Each piece of equipment shall be identified by a stenciled identification with a contrasting color (either black or white) or by a permanently affixed engraved nameplate that is in plain view.

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126-3.8 EQUIPMENT INSTALLED IN THE TERMINAL BUILDING

The proposed CPU/ Data Terminal, display terminal, radio sets and ancillary equipment shall be installed in Airport Office Building at locations provided by the Engineer. The proposed equipment shall be in accordance with the manufacturer's specifications and AC 150/5220-16E.

The automatic telephone answering device shall be installed at the proposed CPU/Data Terminal. The device shall be installed in accordance with the manufacturer's specifications and with AC 150/5220-16E.

Cost and coordination of phone service shall be handled by the Airport.

126-3.9 MANUFACTURER'S WARRANTY

The manufacturer will submit a statement certifying that the following minimum warranty will be provided for the equipment:

"The equipment has been manufactured and will perform in accordance with the requirements of FAA AC 150/5220-16E. Any defect in design, materials, or workmanship which may occur during proper and normal use during a period of 1 year from the date of commissioning or will be corrected by repair or replacement by the manufacturer F.O.B. factory."

126-3.10 TRAINING

The manufacturer shall provide operation, maintenance, and repair training to two designated personnel from the airport. Three complete sets of operation, maintenance, and repair manuals shall be provided to each airport. The Contractor shall submit a Training Program plan to the Engineer prior to issuance of a Notice to Proceed.

126-3.11 VHF VOICE TRANSMISSION

The AWOS will be connected to the proposed VHF transmitter enabling it to transmit voice according to the plans and special provisions.

AWOS broadcasts transmitted from VHF transmitter shall be received <u>loud and clear</u>. Its signal will be checked by the FAA.

126-3.12 GROUNDING

The Contractor shall furnish and install all grounding shown on the plans and/or as recommended by the respective AWOS system manufacturer and/or as may be necessary or required to make a complete grounding system as required by the latest National Electrical Code (NFPA 70 and NFPA 250) in force, whichever is most restrictive.

The equipment grounding conductors shall be identified by the color green and shall be the same size and insulation type as the phase conductors or as sized on the plans.

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Contractor shall furnish and install ground fields and/or ground rods at all locations where shown on the plans. Top of ground rods shall be a minimum of one foot below finish grade unless otherwise noted on the plans. All connections to ground rods shall be made with one shot, exothermal type connectors, Cadweld, Thermoweld or equal. Bolted connections will not be permitted at ground rods. In addition to the grounding work described herein and shown on the plans, the Contractor shall test the made electrode ground field with an instrument specifically designed for testing ground field systems. If ground resistance exceeds 25 ohms, install an additional 3/4 inch diameter 10 foot long U.L. listed copper clad ground rod 10 feet from the grounding field and connect it to the ground field previously installed. Copies of ground field test results shall be furnished to the Engineer for review and record purposes.

Exterior ground field resistance testing shall not be measured during unusually wet weather and should be performed during normal weather and soil conditions. Any tests incorrectly performed or not performed to the satisfaction of the engineer will be repeated. Costs for all such re-testing will be considered incidental to the project.

All connections between the different types of grounding conductors shall be made using 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, or equal. Tighten connections to comply with tightening torques in J.L. Standard 486A to assure permanent and effective grounding.

All motor frames, pump bases, conduits, cabinets, boxes, etc. shall be positively bonded. Provide grounding bushings at all conduits entering Service Entrance Equipment and Distribution Panels and bare ground wire from bushing to ground bus in the respective Service Entrance Equipment or Distribution Panels.

The ground wire from motors and equipment shall not be smaller than allowed by Table 250-95 "Minimum Size Conductors or Grounding Raceway and Equipment" of the latest edition of NEC. In no cases shall ground wire be smaller than #12 AWG stranded copper. All ground wire shall be copper either bare or insulated green in color. The ground wire shall be adequately protected from damage and shall be connected to the service ground bus.

It is the intent of this specification that all motor frames, equipment, etc. have a continuous copper wire ground connection. Conduit and connectors <u>will not</u> be considered as adequate grounding.

Contractor shall provide a positive ground bond for all outlet boxes, electrical equipment enclosures, grounding receptacles, etc., install a grounding conductor in all wire and cable raceways. Ground conductor to have 600-volt insulation and be identified by a continuous green color coating. They shall be used solely for grounding purposes and be entirely separate from white grounded neutral conductor, except at the supply side of service disconnecting means, where the grounding and neutral systems are to be connected to the service ground.

Contractor shall provide all boxes for proposed outlets, switches, circuit breakers, etc. with grounding screws. Provide all panel board, load center, etc. enclosures with grounding bars with individual screws, lugs, clamps, etc. for each of the grounding conductors that enter their respective enclosures.

Each and all grounded cases and metal parts associated with electrical equipment shall be tested for continuity of connection with the ground bus system by the Contractor in the presence of the Engineer or his representatives.

All exterior exposed metal conduit, where not electrically continuous because of manholes, etc., shall be bonded to all other conduit in the duct run, and at each end, with a bare copper conductor as sized from the appropriate NEC tables. (Size to be based on the largest conductor entering the duct.) At each structure, the conduit grouping shall be bonded to the equipment grounding bus with an insulated conductor (of the type used in the duct run) as sized from the appropriate NEC table.

Airport Office Building Ground Testing

At the Airport Office Building the contractor shall test the existing ground field resistance to earth using "three-terminal" or "fall-of-potential" test as described in IEEE Standard #81. As an alternative, a specially designed clamp-on instrument such as AEMC model 3710 or 3730 may be used if found acceptable to the engineer. Based on measured field data, the contractor shall calculate the ground field resistance and furnish copies to the owner and engineer for record. If the resistance is found to be greater than 25 ohms, one additional ground rod shall be driven with a minimum separation equal to the length of the ground rod used and connected in parallel with the ground field under test.

The contractor shall also test all existing ground electrode conductors brought into the Airport Office Building from the existing ground field for satisfactory continuity. The grounding path shall not exceed 0.010 ohms. If the grounding path is found to exceed 0.010 ohms, the contractor shall inspect the existing ground electrode conductor and connection and make a recommendation for remediation of the situation to the engineer and the owner.

Testing of ground field resistance, grounding electrode conductor resistance and the addition of a ground rod and bonding conductor if required shall be considered incidental to the contract.

BASIS OF PAYMENT

126-4.1 Basis of payment is for a complete "turnkey" AWOS III P/T system inspected, tested, certified and commissioned, by the FAA and installed and accepted in accordance with the Plans and these Special Provisions and shall be paid for at the contract unit price.

The unit price shall be full compensation for furnishing all materials, equipment, tools and labor to construct this item of work. The unit price shall also include full compensation for all permitting, licensing, furnishing all required testing and calibration equipment, furnishing training services, providing spare parts, and furnishing the three-year remote monitoring and maintenance agreements. No separate payment will be made for any work required for a "turnkey" AWOS III P/T System complete.

Basis of payment for the removal of AWOS equipment and foundations shall be accepted in accordance with the plans and these special provisions shall be paid for under the contract unit price. This price shall include removal of all existing AWOS equipment, foundations, underground conductors and all incidental work, materials, equipment, and labor necessary to complete the item.

Payment shall be made under:

ITEM AR800015 REMOVE AWOS EQUIPMENT AND FOUNDATIONS – PER LUMP SUM

ITEM AR800016 INSTALL TYPE III P/T AWOS – PER LUMP SUM