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Letting April 28, 2023

Notice to Bidders, Specifications and Proposal



**Illinois Department
of Transportation**

Springfield, Illinois 62764

**Contract No. TI001
Tinley Park Helistop
Tinley Park, Illinois
Cook County
Illinois Project No. TF8-5050
SBG Project No. N/A**



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 April 28, 2023, 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. TI001
Tinley Park Helistop
Tinley Park, Illinois
Cook County
Illinois Project No. TF8-5050
SBG Project No. N/A**

Helistop Aircraft Pavement Improvements

For engineering information, please contact Kris Salvatera, P.E. of Primera Engineers, Ltd. at 312.242.6362.

3. INSTRUCTIONS TO BIDDERS.

- (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 10-18 of the Illinois Standard Specifications for Construction of Airports (Adopted April 1, 2012), 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.** A voluntary pre-bid meeting will be held on Wednesday April 19, 2023 at 1:00 PM CDT at the existing Tinley Park Helistop. Location Notes – The specific address is the Village of Tinley Park Fire Training Center & Helistop located at 7750 183rd Street – Tinley Park, IL 60477. The site is immediately east of the Tinley Park Police Station. Meeting Description – For engineering information, contact Kris Salvatera, P.E. of Primera Engineers Ltd. at 312.242.6362.

- 6. DISADVANTAGED BUSINESS POLICY.** The DBE goal for this contract is 8.0%.

- 7. SPECIFICATIONS AND DRAWINGS.** The work shall be done in accordance with the Illinois Standard Specifications for Construction of Airports (Adopted April 1, 2012), the Special Provisions dated March 29, 2023, and the Construction Plans dated March 29, 2023 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 Base Bid: 81 calendar days; Additive Alternate #1: 20 additional calendar days; Additive Alternate #2: 2 additional calendar days; Additive Alternate #3: 2 additional 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

Omer Osman,
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 contract or subcontract.

Area Covered (Statewide)

Goals for Women apply nationwide.

GOAL	Goal (percent)
Female Utilization	6.9

APPENDIX B

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

<u>Economic Area</u>	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 -	19.6
	IL - Cook, DuPage, Kane, Lake, McHenry, Will 3740 Kankakee, IL -	9.1
	IL - Kankakee Non-SMSA Counties	18.4
	IL - Bureau, DeKalb, Grundy, Iroquois, Kendall, LaSalle, Livingston, Putnam	
	IN - Jasper, Laporte, Newton, Pulaski, Starke	
084	Champaign - Urbana, IL: SMSA Counties: 1400 Champaign - Urbana - Rantoul, IL -	7.8
	IL - Champaign Non-SMSA Counties -	4.8
	IL - Coles, Cumberland, Douglas, Edgar, Ford, Piatt, Vermilion	
085	Springfield - Decatur, IL: SMSA Counties: 2040 Decatur, IL -	7.6
	IL - Macon 7880 Springfield, IL -	4.5
	IL - 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	
087	Peoria, IL: SMSA Counties: 1040 Bloomington - Normal, IL -	2.5
	IL - McLean 6120 Peoria, IL -	4.4
	IL - Peoria, Tazewell, Woodford Non-SMSA Counties -	3.3
	IL - Fulton, Knox, McDonough, Marshall, Mason, Schuyler, Stark, Warren	
088	Rockford, IL: SMSA Counties: 6880 Rockford, IL -	6.3
	IL - Boone, Winnebago Non-SMSA Counties -	4.6
	IL - Lee, Ogle, Stephenson	
098	Dubuque, IA: Non-SMSA Counties -	0.5
	IL - JoDaviess	
	IA - Atlamakee, Clayton, Delaware, Jackson, Winnesheik	
	WI - Crawford, Grant, Lafayette	
099	Davenport, Rock Island, Moline, IA - IL: SMSA Counties: 1960 Davenport, Rock Island, Moline, IA - IL -	4.6
	IL - Henry, Rock Island IA - Scott Non-SMSA Counties -	3.4
	IL - Carroll, Hancock, Henderson, Mercer, Whiteside IA - Clinton, DesMoines, Henry, Lee, Louisa, Muscatine MO - Clark	

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

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

The Contractor's compliance with Executive Order 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:
 - (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 or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
 - (j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
 - (k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

- (l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - (m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - (n) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - (o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractors and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.
 - (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. Dissemination of Policy

- 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.
- b. 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

- a. 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 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 1, 2022

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 April 1, 2012 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

80-09 FAILURE TO COMPLETE ON TIME.

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

ADD:

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

State of Illinois
Department of Transportation

SPECIAL PROVISION
FOR
SECTION 90 MEASUREMENT AND PAYMENT

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

90-07 PARTIAL PAYMENTS.

DELETE: The entire section.

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

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

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

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

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

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

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

90-10 TRUST AGREEMENT OPTION.

DELETE: The entire section.

STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Construction of Airports," adopted April 1, 2012, and the Special Provisions included herein which apply to and govern the airport improvement of: Helistop Aircraft Pavement Improvements at Tinley Park Helistop, Contract TI001, 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 **Base Bid: 81 calendar days; Additive Alternate #1: 20 additional calendar days; Additive Alternate #2: 2 additional calendar days; Additive Alternate #3: 2 additional 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

Diesel Vehicle Emissions Control. 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.

Environmental Deficiency Deduction. 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.
- 3) 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.

Environmental Deficiency Deduction. 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: March 2, 2019

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

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

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

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

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

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

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates, in the absence of unlawful discrimination and in an arena of fair and open competition, DBE companies can be expected to perform 8.0% 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. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

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

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

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

The bidder shall submit a DBE Utilization Plan (form SBE 2026), and a DBE Participation Statement (form SBE 2025) for each DBE company proposed for the performance of work to achieve the contract goal, with the bid. If the Utilization Plan indicates the contract goal will not be met, documentation of good faith efforts shall also be submitted. The documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract. The required forms and documentation must 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 Utilization Plan if it does not meet the bidding procedures set forth herein and the bid will be declared not responsive. In the event the bid is declared not 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.

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

(a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases and will be considered by the Department.

(1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.

(2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these work items with its own forces.

(3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

(4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.

(5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.

- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.

(b) If the Department determines the bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided it is otherwise eligible for award. If the Department determines the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification will also include a statement of reasons for the adverse determination. If the Utilization Plan is not approved because it is deficient as a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no more than a five calendar day period to cure the deficiency.

(c) The bidder may request administrative reconsideration of an adverse determination by emailing the Department at "DOT.DBE.UP@illinois.gov" within the five calendar days after the receipt of the notification of the determination. The determination shall become final if a request is not made on or before the fifth calendar day. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be reviewed by the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

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

(a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.

(b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.

(c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.

(d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:

(1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.

(2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it receives as a result of the lease arrangement.

(e) DBE as a material supplier:

(1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.

(2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.

(3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a DBE regular dealer or DBE manufacturer.

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

(a) **NO AMENDMENT.** No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be emailed to the Department at DOT.DBE.UP@illinois.gov.

(b) CHANGES TO WORK. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A or AER 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, a new Request for Approval of Subcontractor will not be required. However, the Contractor must document efforts to assure the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.

(c) SUBCONTRACT. The Contractor must provide copies of 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.

(d) ALTERNATIVE WORK METHODS. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:

(1) The replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or

(2) The DBE is aware its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or

(3) The DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.

(e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a) of this part. Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE in the Utilization Plan.

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

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

(1) The listed DBE subcontractor fails or refuses to execute a written contract;

(2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Contractor;

(3) The listed DBE subcontractor fails or refuses to meet the Contractor's reasonable, nondiscriminatory bond requirements;

(4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;

(5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1200 or applicable state law.

(6) The Contractor has determined the listed DBE subcontractor is not a responsible contractor;

(7) The listed DBE subcontractor voluntarily withdraws from the projects and provides written notice to the Contractor of its withdrawal;

(8) The listed DBE is ineligible to receive DBE credit for the type of work required;

(9) A DBE owner dies or becomes disabled with the result that the listed DBE subcontractor is unable to complete its work on the contract;

(10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the Contractor can self-perform the work for which the DBE contractor was engaged or so that the Contractor can substitute another DBE or non-DBE contractor after contract award.

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

(f) **FINAL PAYMENT.** After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than 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 on Department form SBE 2115 to the Resident Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.

(g) **ENFORCEMENT.** The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

(h) **RECONSIDERATION.** Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department. The result of the reconsideration process is not administratively appealable to the U.S. Department of Transportation.

SPECIAL PROVISION FOR WEEKLY DBE TRUCKING REPORTS (BDE)

Effective: June 2, 2012
Revised: November 1, 2021

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

The report shall be submitted to the Resident Engineer on Division of Aeronautics Form "AER 723" within ten business days following the reporting period. The reporting period shall be 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; and to all payments made to lower tier subcontractors and material suppliers throughout the contracting chain. Any payment or portion of a payment subject to this provision may only be withheld from the subcontractor or material supplier to whom it is due for reasonable cause. 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 subcontract or material purchase agreement, a detailed reason for refusal, the value of payment being withheld, and the specific remedial actions required of 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 each erosion control measure identified in the Storm Water Pollution Prevention Plan, the contractor or subcontractor responsible for the control measure(s) must sign the above certification (forms to be provided by the Department).

ILLINOIS WORKS APPRENTICESHIP INITIATIVE – STATE FUNDED CONTRACTS (BDE)

Effective: June 2, 2021

Revised: September 2, 2021

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. 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.

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://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx> 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.



SECTION III

SPECIAL PROVISIONS

**TINLEY PARK HELISTOP (TF8)
TINLEY PARK, ILLINOIS**

**HELISTOP PAVEMENT IMPROVEMENTS
(100% Submittal)**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT: TI001**

March 29, 2023



**Primera Engineers, Ltd.
550 West Jackson Boulevard, Suite 600
Chicago, Illinois 60661
312.606.0910**

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**SPECIAL PROVISIONS
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GENERAL

These Special Provisions, together with applicable Standard Specifications, Manuals, Policies, Memorandums, Worksheets, Rules and Regulations, Contract Requirements for Airport Improvement Projects, Payroll Requirements and Minimum Wage Rates, which are hereto attached or which by reference are herein incorporated, cover the requirements of the State of Illinois, Department of Transportation (IDOT), Division of Aeronautics (Division) for the following improvement project Tinley Park Helistop, Tinley Park, Cook County, Illinois:

Helistop Aircraft Pavement Improvements

This Project is to rehabilitate the helistop pavements at Tinley Park Helistop including, among other work, the following items:

- Placement of temporary soil erosion control measures.
- Provision of traffic maintenance.
- Provision of required pavement removals and unclassified excavation.
- Installation of fence and electric and manual gates.
- Installation of airfield lighting
- Installation of underdrains and adjustment of storm sewer structures.
- Installation of drainage layer, aggregates, and PCC and HMA pavements.
- Placement of pavement markings.
- Topsoiling, seeding and erosion control blanket.

GOVERNING SPECIFICATIONS AND RULES AND REGULATIONS

The Illinois Standard Specifications for Construction of Airports, State of Illinois Department of Transportation, Division of Aeronautics, adopted April 1, 2012 as revised (Standard Specifications), shall govern the Project except as otherwise revised or noted in these Special Provisions dated March 29, 2023. All references to IDOT Specifications refer to Standard Specifications for Road and Bridge Construction, Illinois Department of Transportation, adopted January 1, 2022, as revised. Resolution of conflicts with any part or parts of said Specifications shall be in accordance with Section 50-03 of the Standard Specifications.

ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF AERONAUTICS

MANUALS, POLICY MEMORANDUMS, AND TEMPLATES

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

It is the Bidder's and Contractor's responsibility to review and incorporate into their bid and work, the requirements contained in these Manuals, Policy Memorandums, and Templates. Copies of each manual, policy memorandum and template can be found on the Illinois Department of Transportation website at: <http://www.idot.illinois.gov/home/resources/Manuals/Manuals-and-Guides>.

Manuals

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

Policy Memorandums

<u>No.</u>	<u>Title</u>	<i>Modified by Special Provisions</i>
07-21	Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications	No
87-2	Density Acceptance of Bituminous Pavements	No
87-4	Determination of Bulk Specific Gravity (d) of Compacted Bituminous Mixes	No
96-1	Item 610, Structural Portland Cement Concrete: Job Mix Formula Approval and Production Testing	No
96-3	Requirements for Quality Assurance on Projects with Bituminous Concrete Paving	No
97-2	Pavement Marking Paint Acceptance	No
2003-1	Requirements for Laboratory, Testing, Quality Control, and Paving of Superpave Bituminous Concrete Mixtures for Airports	No
	Bituminous Mix Design Memorandum	No
	Comparison Samples Memorandum	No

Templates

<u>Title</u>	<i>Modified by Special Provisions</i>
Hot Mix Asphalt (HMA) Quality Control Plan	No

DIVISION I

GENERAL PROVISIONS

SECTION 10

DEFINITION OF TERMS

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

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

SECTION 20

ADVERTISEMENT, BIDDING, AWARD, AND CONTRACT EXECUTION

The Work shall be provided in accordance with Section 20 of the Standard Specifications.

SECTION 40

SCOPE OF WORK

Revise Section 40 of the Standard Specifications as follows:

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

“Construction of the project shall be performed in accordance with the guidelines specified in FAA Advisory Circular 150/5320-2 (current issue). Any Contractor activities required for Project safety shall be incidental to the Contract.

"To minimize disruptions to Airport operations, construction operations must be controlled throughout the Project's duration, and work must be completed expeditiously. A Construction Safety and Phasing Plan detailing the sequencing of the Contractor's Work throughout the Project is included in the Plans. The Contractor shall provide his written acceptance of the Project Construction Safety and Phasing Plan at the Pre-construction Conference. Any and all changes to the Construction Safety and Phasing Plan that may be requested by the Contractor must be approved by the Project Engineer and the Airport Owner. It shall be the Contractor's responsibility to provide sufficient advance notice of any proposed phasing change to permit consideration and approval by the Project Engineer and the Airport Owner. The Contractor shall not be entitled to any extra compensation nor extension to the Contract time because of a phasing change request nor for any time necessary in receiving the required approvals. The Contractor shall expedite work at those stages where active runways, taxiways, hangar access, aprons, roadways or parking lots must be closed, to minimize the length of time that Airport operations are restricted.

“At the Pre-construction Conference, the Contractor shall provide a “Contractor Coordination Plan” that coordinates his work with the work of his subcontractors and the work of other contractors of other on-going Airport projects.

“The Contractor shall erect and maintain, at no cost to the Contract, directional and informational signs for the Contractor's access routes at the existing construction entrances and for the Contractor's route within the Airport operations area, as noted on the plans or as directed by the Resident Engineer. Where contractor equipment is operating within active aircraft operations areas, radio-equipped flaggers shall be furnished by the Contractor. Continuous pavement sweeping shall be furnished to remove debris from active aircraft movement paths. The cost of traffic control/flaggers and pavement sweeping shall be incidental to the Contract.

“The Contractor shall not have access to any part of the active airfield (helistop pad until closed) for any equipment or personnel without the approval of the Resident Engineer and the Airport Owner. Activities within the Airport Operations Area (AOA) are subject to federal access control. Because of the high requirements for airport security and safety, the following requirements must be adhered to:

- All employees of the Contractor shall park their personal vehicles in the designated equipment parking and storage area. Each person or vehicle entering the Contractor area shall do so in accordance with the policies and procedures of the Airport Owner. The Contractor will transport the workers from the parking areas to the work area. Only Contractor vehicles will be allowed outside of the proposed equipment storage and parking areas.

- Should any Contractor personnel be identified as noncompliant with any vehicle driving safety requirements in this Project Safety Plan or in the Airport Vehicle Operations Regulations, such drivers shall be penalized by rescission of their on-airport driving privileges, and their access to the Construction Limit Area when operating vehicles shall be revoked.
- The Contractor will be required to be in contact with Airport Operations. This will keep the Contractor in contact with Airport personnel and enable the Airport personnel to immediately contact the Contractor in case of an aeronautical emergency that would require action by the Contractor and/or his personnel.

The Tinley Park Helistop shall be closed intermittently during the Project, in the sequence shown in the Construction Safety and Phasing Plan in the Construction Plans. The Contractor shall furnish, place, maintain, relocate, and remove temporary barricades on airfield taxiways and other pavement surfaces as shown and detailed in the Construction Plans, or as directed by the Resident Engineer. The cost of this work shall be included in Item AR150530, Traffic Maintenance.

“The Contractor shall remain within the Construction Limits Line shown in the Plans. When construction operations must be conducted within these separations, the pavement must be closed to aircraft activity by the Contractor by providing temporary barricades as shown in the Plans, and in the case of helistop pavements, closed runway markers.

“The Contractor shall keep all of his equipment and personnel at least 15 feet from the edge of any active roadway or auto parking pavement. When his activities require working within 15 feet of the road/pavement edge, the Contractor shall provide for traffic control in accordance with IDOT Specifications (highway standards).

“Open trenches, excavations and stockpiled material at the construction site shall be delineated with the use of barricades during hours of restricted visibility and/or darkness. No open trenches shall be allowed within the project site and along any public road Right of Way. No vertical drop of greater than 3-inches in height from pavement edge to earth grade or earth grade to earth grade. The Contractor will have steel plates on-site to allow for the rapid covering of trenches or earth drops in the event of unexpected work stoppages for weather or airport emergencies. For larger excavated areas such as the Helistop pavements, proper barricades shall be placed to avoid any vehicles from entering the site.

“When not in use and during non-working hours, Contractor's equipment shall be parked within the Contractor's equipment storage and parking areas. The equipment storage and parking areas are to be located as shown on the Construction Safety and Phasing Plan. The Contractor will be responsible for maintaining the construction entrances and Contractor areas in good condition. The cost of maintaining the construction entrance and Contractor areas is to be incidental to the contract. The Contractor shall protect all existing pavement edges from damage from construction equipment and haul vehicles.

“Contractor's access to the project when on Airport property is shown in the Plans. Contractor's access to the Airport itself is to be provided by public rights-of-way. The Contractor is to secure all necessary permits for the use of any public rights-of-way and is to maintain traffic on these public roads at all times, with the costs of permitting, cleaning and repairing of pavement damaged by contractor's activities incidental to the Contract. Use of and repairs to any public facilities are to be completed to the satisfaction of the facility's owner.

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

“The Contractor is to provide temporary construction roads within the Construction Limit Lines as may be required by his activities. Heavy vehicles shall not cross existing pavement surfaces except as approved by the Airport Owner and the Resident Engineer. Any damage to pavements that may occur by the Contractor's activities shall be repaired at the Contractor's expense and to the satisfaction of the Airport Owner and the Resident Engineer. For haul routes made by Contractor through grassed areas, Contractor shall grade, level, topsoil, seed and mulch at the end of the Project, cost incidental to the Contract.

“The Contractor is to provide an equipment storage and parking area at the location(s) shown in the Plans. It is the Contractor's responsibility to maintain the storage area(s) during construction and to restore the areas at project completion to conditions suitable to the Airport Owner and the Resident Engineer. At the Airport Owner's discretion, the temporary facilities may remain, but they must be left in conditions suitable to the Airport Owner. The cost of providing, maintaining and restoring the temporary facilities is incidental to the Contract.

“At no time shall the contractor operate or park equipment so as to obstruct active Part 77 Airport Imaginary Surfaces. Contractor's equipment shall extend no higher than 25 feet. Cranes shall not be used during instrument weather conditions or at night. Cranes shall be lowered when not in use.

“The Contractor must notify the Resident Engineer and the Airport Owner three (3) days in advance of any required partial or complete closing of any taxiway or apron, or airfield lighting circuit. The date, time and scheduled duration of the closing must be approved by the Resident Engineer and the Airport Owner. The Contractor shall notify the Resident Engineer and Airport Owner three (3) days in advance of the Contractor's closing of other active roadways, roadway lighting circuits, or other Airport facilities.

“All notes and details shown on the Construction Safety and Phasing Plan are applicable to this Project.

“All work shall be completed in accordance with the approved Project Safety Plan, issued by the Illinois Division of Aeronautics. Failure to use these prescribed procedures or adhere to the safety requirements will result in the suspension of work.”

SECTION 50

CONTROL OF WORK

Revise Section 50 of the Standard Specifications as follows:

50-06 CONSTRUCTION LAYOUT STAKES. Add the following to RESPONSIBILITY OF THE CONTRACTOR, Paragraph G:

“These grades shall be furnished by the Contractor to the Project Engineer and shall include: the final grade for subgrade for new pavements established under Item 152; the first/final lift of granular drainage subbase for new pavements furnished under Item 154606; the final lift of crushed aggregate base course furnished under Item 209; the first and final lifts of HMA base course furnished under Item 403, and; the final pavement surface furnished under Item 401. Existing and final grade elevations will be furnished by the Contractor for PCC Patch, Item AR 801002. And, final rim and invert elevations for drainage structure adjustments made under Item 751 will also be furnished prior to final grading and/or paving.

Surveying shall also be furnished by the Contractor after any constructed surface for which deviations from Plan grade elevations and/or slopes that are greater than those allowed in the Standard Specifications or these Special Provisions are identified by the Resident Engineer.”

50-12 LOAD RESTRICTIONS. Add the following:

“By submitting his bid, the Contractor acknowledges that the existing Airport pavements are of the "light-duty" type, requiring his consideration of construction vehicle weights. Any damage to existing Airport pavements shall be repaired by the Contractor at his own expense and to the satisfaction of the Airport Owner and the Resident Engineer.

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

“The Contractor shall erect and maintain directional and informational signs for the Contractor’s access routes at the existing construction entrance and for the Contractor’s route within the Airport and Airport Operations Area, as noted in the Plans or as directed by the Resident Engineer, whose cost shall be paid under Item 150530, Traffic Maintenance.”

SECTION 60

CONTROL OF MATERIALS

Revise Section 60 of the Standard Specifications as follows:

60-05 **RESIDENT ENGINEER'S FIELD OFFICE.** Add the following:

“The Contractor will be required to furnish and maintain a Resident Engineer’s Field Office throughout the Project, in accordance with Item 150510, Engineer’s Field Office.”

SECTION 70

LEGAL REGULATIONS AND RESPONSIBILITY TO PUBLIC

Revise Section 70 of the Standard Specifications as follows:

70-10 **BARRICADES, WARNING SIGNS AND HAZARD MARKERS.** Add the following:

“The Contractor shall also meet the requirements of the Standard Specifications, Paragraph 40-5, and Special Provisions, Item 150530, Traffic Maintenance.”

SECTION 80

PROSECUTION AND PROGRESS

Revise Section 80 of the Standard Specifications as follows:

80-05 **LIMITATIONS OF OPERATIONS.** Add the following:

“The Contractor shall also meet the requirements of the Standard Specifications, Paragraph 40-5, and Special Provisions, Item 150530, Traffic Maintenance.”

SECTION 90

MEASUREMENT AND PAYMENT

The Work shall be provided in accordance with Section 90 of the Standard Specifications.

DIVISION II

PAVING CONSTRUCTION DETAILS

EARTHWORK

ITEM 150510

ENGINEER'S FIELD OFFICE

Revise Item 150510 of the Standard Specifications as follows:

CONSTRUCTION METHODS

150-2.1 Add the following to the first Paragraph:

“Should sanitary facilities that are an integral part of the office not be practicable, temporary toilet facilities shall be provided. The temporary facilities must be of a size to **permit use by access-challenged persons**. A **separate** facility for hand washing must also be available and maintained. Solid waste disposal consisting of two (2) waste baskets and an outside trash container of sufficient size to accommodate a weekly-provided pick-up shall be furnished.”

Replace Item H. in the list of equipment to be furnished by the Contractor with the following:

“H. One (1) telephone, with touch tone, where available, and telephone answering machine connected to one dedicated phone line, or a cellular phone with voicemail, for exclusive use by the Resident Engineer.”

Replace Item I. in the list of equipment to be furnished by the Contractor with the following:

“I. One dry process copy machine (including maintenance and operating supplies) capable of both collating and reproducing prints up to a Ledger Size (11" by 17"); the copier shall be interconnected with Items J. and N. to permit printing directly from the router and the scanner (a separate printer (with maintenance and operating supplies) may also be permitted).”

Replace Item J. in the list of equipment to be furnished by the Contractor with the following:

“J. One (1) Windows®-compatible scanner configured to operate with the wireless router furnished in this item (Item N. as added to the list of items to be furnished), and capable of producing images of documents sized up to 11 inch by 17 inch, for the exclusive use by the Resident Engineer.”

Add the following to the list of equipment to be furnished by the Contractor:

“N. Available for the exclusive use of the Resident Engineer, an Internet service connection using cable broadband (Comcast and ATT are on-site), or high-speed wireless (4G LTE minimum speed) technology. Additionally, an 802.11g/n wireless router shall be provided, which will allow connection by the Resident Engineer and up to two (2) engineer staff.”

“O. One (1) 800 watt, 0.8 cubic foot microwave oven.”

“P. Two (2) 28-quart wastebaskets with 8-gallon trash bags.”

“Q. One (1) first aid cabinet - fully equipped.”

NOTE: Item K. in the Standard Specifications for this Item shall NOT be furnished for this Project.

Add:

150-2.2 **COORDINATION:** Contractor shall coordinate with the village of Tinley Park and appropriate utility companies within the vicinity for power and telecommunication connections.

BASIS OF PAYMENT

150-3.1 Revise this Section to read:

“The building fully equipped as specified herein will be paid for at the Contract unit price per lump sum for Engineer's Field Office. This price shall include all utility costs and shall reflect the salvage value of the building, equipment, and furniture, which become the property of the Contractor after release by the Resident Engineer. All telephone calls within Area Code 815 and to Area Codes 217, 224, 312, 331, 630, 708, 773, 779, 815 and 847 shall be included in the cost of the Engineer's Field Office. The Resident Engineer shall reimburse the Contractor for all long distance calls outside of these area codes.

Payment will be made under:

Item AR150510 Engineer's Field Office - per lump sum.”

ITEM 150520

MOBILIZATION

ADD:

This Item shall be provided in accordance with Section 150520 of the Standard Specifications with a target amount limited to 6%.

Payment will be made under:

Item AR150520 Mobilization - per lump sum.

ITEM 150530

TRAFFIC MAINTENANCE

DESCRIPTION

150530-1.1 DESCRIPTION. This work shall consist of the furnishing, installation, maintenance, relocation, and removal of work zone traffic control and protection, and will be in accordance with the Plans, Plan details, and the guidelines specified in FAA Advisory Circular 150/5320-2 (current issue). The item shall also include the provision of: sweepers for pavement cleaning, flaggers, and radio equipment for traffic control, as shown in the Construction Safety and Phasing Plan and as specified in the Special Provisions.

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic control devices as shown in the Plans.

All traffic control devices used for the maintenance of traffic, as detailed on the Plans, shall be reflectorized prior to installation and cleaned as specified by the Engineer. When directed by the Engineer, the Contractor shall remove all traffic control devices which were furnished, installed, or maintained by Contractor under this contract. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer. The Contractor shall be responsible for and replace any devices that are supplied by others and damaged by the Contractor's and/or Subcontractor's workforce during relocation or construction operation.

The Contractor will notify the Engineer in writing seven (7) days prior to any activities that will disrupt runway, taxiway and/or apron traffic, or impact vehicle roadways or auto parking facilities.

MATERIALS

150530-2.1 MATERIALS. Materials shall be according to the following:

- FAA Advisory Circular 150/5320-2 (current issue), Operational Safety on Airports During Construction.
- Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, adopted January 1, 2022.
- Illinois Department of Transportation Supplemental Specifications and Recurring Special Provisions, adopted January 1, 2023.

CONSTRUCTION METHODS

150530-3.1 GENERAL. All work zone traffic control and protection shall be according to the Construction Plans, and the Plan details, and FAA Advisory Circular 150/5320-2 (current issue), Operational Safety on Airports During Construction.

The traffic control shown on the Construction Plans represents the minimum required combination of traffic control devices needed for a particular construction operation. Conditions created by the Contractor's operation which are not covered by the Construction Plans shall be delineated by devices as directed by the Engineer at no additional cost to the Project.

The Construction Safety and Phasing Plan represents one suggested alternative for the construction sequencing and method of handling traffic. Revisions or modifications of the traffic control shall have the Engineer's written approval, and must be approved by the IDA. Any deviation from the proposed plan shall be approved in writing by the Engineer before implementation.

The traffic control should remain in place only as long as needed and shall be removed when directed by the Engineer. All existing pavement markings to be temporarily removed in accordance with FAA Advisory Circular 150/5320-2 (current issue), Operational Safety on Airports During Construction.

At the pre-construction conference, the Contractor shall furnish the name and telephone number of the individual in the Contractor's employ who is to be responsible, 24 hours a day, for the installation and maintenance of traffic control for the Project. When the actual installation and maintenance are to be accomplished by a subcontractor, consent shall be requested of the Engineer at the time of the preconstruction conference. This shall not relieve the Contractor of furnishing a responsible individual in the Contractor's direct employ. The Engineer will provide the Contractor with the name of its representative who will be responsible for administration of the traffic control.

Removal, relocation, maintenance, and inspection of traffic control devices, as required by the Contractor's activities, shall be included in the item and not measured separately for payment.

METHOD OF MEASUREMENT

150530-4.1 Traffic control and protection required under Traffic Maintenance will be measured for payment on a lump sum basis. Where the Contractor's operations result in daily changing, or two or more work areas each of which requires traffic control according to one of the above standards, each work area installation will not be paid for separately, but shall be included in the lump sum price for Traffic Maintenance.

BASIS OF PAYMENT

150530-5.1 Traffic control and protection will be paid for at the Contract lump sum price for Traffic Maintenance. This unit price shall be full compensation for furnishing all labor, materials, tools, equipment and incidentals, including that for relocation, removal and maintenance of the materials, as necessary to complete the item as specified.

Payment will be made under:

Item AR150530 Traffic Maintenance - per lump sum.

ITEM 152

EXCAVATION AND EMBANKMENT

Revise Item 152 of the Standard Specifications as follows:

152-1.1 DESCRIPTION. Add the following:

“For the purposes of Excavation and Embankment in this Project, this item is to be constructed for aircraft weighing less than 60,000 pounds (Standard Proctor).”

“All earthwork shall be performed in accordance with the applicable NPDES Construction Site permit issued for this Project, and any applicable municipal or county ordinances or regulations.”

This item shall also consist of furnishing and installing geotechnical fabric in subgrade or as embankment foundations.

152-1.2 CLASSIFICATION.

Delete the second, third and fourth Paragraphs.

Add the following:

“Earthwork cut as required in the Plans may result in excess suitable and unsuitable/unstable material that cannot be incorporated into the work as fill material when constructing the lines and grades shown in the Plan. All excess material shall be loaded and hauled to an off-site location. Contractor shall provide for all materials testing and suitability documentation as required by State law for the disposal of construction debris. Loading, haul and disposal of excess material to the off-site location shall **not** be paid for separately, but shall be included in the Contract unit price for “Unclassified Excavation”.

“Some of the excess material has been identified for use as on-site topsoil. The haul and re-distribution of this material for use shall be included in the Contract unit price for “Unclassified Excavation.”

“Unsuitable/unstable material such as broken pavement or concrete pipe, and produced from excavation or other project work, shall not be used in the Work. Unsuitable/unstable material identified by the Resident Engineer for haul and disposal off-site shall be hauled from the Work and disposed of at an off-site location authorized to accept the material. Contractor shall provide for all materials testing and suitability documentation as required by State law for the disposal of construction debris. Loading, haul, testing and disposal of the excess material to the off-site disposal site shall **not** be paid for separately, but shall be included in the Contract unit price for “Unclassified Excavation”.

Geotextile Fabric for ground stabilization shall meet the requirements of Section 1080.02 of the SSRBC dated January 1,2022 and shall consist of woven yarns or nonwoven filaments of polyolefins or polyesters. Woven fabrics shall be Class 2 and nonwoven fabrics shall be Class 1 according to AASHTO M288.

CONSTRUCTION METHODS

152-2.1 **GENERAL.** Add the following:

“The Contractor will proof-roll the subgrade **when** required by the Resident Engineer, and as directed by the Resident Engineer. The cost for this proofing will not be paid for separately but shall be included in the cost for “Unclassified Excavation”.

Geotextile fabric for ground stabilization shall be installed per the requirements of Article 210.03 of the SSRBC dated January 1, 2022.

152-2.2 **EXCAVATION.** Add the following to the fifth Paragraph:

“Earthwork cut as required in the Plans may result in excess suitable and unsuitable/unstable material that cannot be incorporated into the work as fill material when constructing the lines and grades shown in the Plan. All excess material shall be loaded and hauled to an off-site location. Contractor shall provide for all materials testing and suitability documentation as required by State law for the disposal of construction debris. Loading, haul and disposal of excess material to the off-site location shall **not** be paid for separately, but shall be included in the Contract unit price for “Unclassified Excavation”.

“Unsuitable/unstable material such as broken pavement or concrete pipe, and produced from excavation or other project work, shall not be used in the Work. Unsuitable/unstable material identified by the Resident Engineer for haul and disposal off-site shall be hauled from the Work and disposed of at an off-site location authorized to accept the material. Contractor shall provide for all materials testing and suitability documentation as required by State law for the disposal of construction debris. Loading, haul, testing and disposal of the excess material to the off-site disposal site shall **not** be paid for separately, but shall be included in the Contract unit price for “Unclassified Excavation”.

Add the following:

“Topsoil to be used elsewhere under this project shall be stockpiled within the construction limits, **but located so as not to violate any helistop safety area or object area criteria, or obstruct any FAR Part 77 imaginary surfaces**, until separately placed as topsoil under Item 905. Placement and storage of the topsoil shall **not** be paid for separately, but shall be included in the Contract unit price for “Unclassified Excavation”.

Add the following:

“The Contractor will not be allowed to haul any materials across existing pavements, except for pavement areas shown for removal in the Plans or as shown in the Site Plan and prescribed in the Phasing Plan and the Construction Safety Plan, or to cross any unpaved areas that have been designated by the Airport Owner as used for agriculture, or which have already been seeded under this contract.”

152-2.3 **BORROW EXCAVATION.** Delete this Section.

152-2.9 **TOLERANCES.** Add the following:

“For purposes of verifying these tolerances, the Contractor shall furnish survey elevations for the prepared subgrade to the Project Engineer for review, as specified under Section 50-06 (Responsibility of the Contractor Paragraph G).”

Add:

152-2.15 DUST CONTROL WATERING. This Work shall consist exclusively of the control of dust from construction operations and not for use in the compaction of earth embankment.

Dust shall be controlled by the regular, uniform application of sprinkled water to earth surfaces and shall be applied as directed by the Resident Engineer, in a manner meeting his approval. Dust control watering shall not be paid for separately but shall be considered incidental to this item.”

METHOD OF MEASUREMENT

152-3.2 Delete this Section.

152-3.3 Delete this Section.

Add:

152-3.4 Dust control watering will not be measured for payment, but shall be considered incidental to the Contract items for earthwork.”

152-3.5 Soil Stabilization fabric/geotechnical fabric shall be measured for payment in place and the area computed in square yards.

BASIS OF PAYMENT

152-4.1 Add the following:

“Payment will be made under:

“Item AR152410 Unclassified Excavation - per cubic yard.”

“Item AS152410 Unclassified Excavation - per cubic yard.”

152-4.2 Delete this Section.

152-4.3 Delete this Section.

152-4.4 Delete this Section.

ITEM 152540

SOIL STABILIZATION FABRIC

Revise Item 152540 of the Standard Specifications as follows:

MATERIALS

152540-2.1 GEOTEXTILE FABRIC FOR SOIL STABILIZATION.

Delete this Section and replace with the following:

“152540-2.1 GEOTEXTILE FABRIC FOR FILTRATION, SEPARATION AND SOIL STABILIZATION.

“The fabric shall be a multi-purpose, woven, high-performance polypropylene geotextile providing for filtration, separation and soil reinforcement. The geotextile shall be inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids. The fabric shall contain as a minimum the following specific properties:

“Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Tensile Strength (at Ultimate)	ASTM D4595	lbs/ft	4800 (MD)/4800 (CD)
Tensile Strength (at 2% Strain)	ASTM D4595	lbs/ft	960 (MD)/1320 (CD)
Tensile Strength (at 5% Strain)	ASTM D4595	lbs/ft	2400 (MD)/2700 (CD)
Flow Rate	ASTM D4491	gal/min/ft ²	30
Permittivity	ASTM D4491	sec ⁻¹	.40
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve	30
Pore Size O ₉₅	ASTM D6767	microns	465
Pore Size O ₅₀	ASTM D6767	microns	632
Factory Sewn Seam	ASTM D4884	lbs/ft	3000
UV Resistance (at 500 Hours)	ASTM D4355	% Strength Retained	80

“In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in the USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.”

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

BASIS OF PAYMENT

152540-5.1 Add the following:

“Payment will be made under:

Item AR152540 Soil Stabilization Fabric - per square yard.”

ITEM 154606

GRANULAR DRAINAGE SUBBASE

GENERAL

154606-1.1 This item shall consist of furnishing, placing, shaping and compacting crushed stone for use as a granular subbase course and drainage layer. The material is to be placed to the lines and grades as shown on the Plans and as directed by the Resident Engineer.

MATERIALS

154606-2.1 **COARSE AGGREGATE.** The crushed coarse aggregate shall conform with the requirements of Article 1004.01 of IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2022, and the following specific requirements:

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

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

- (b) Quality. The coarse aggregate shall be Class D Quality or better.
- (c) Gradation. The coarse aggregate base gradation shall be CA-7.

CONSTRUCTION METHODS

154606-3.1 **GENERAL.** All work involved in clearing and stripping of quarries and pits, including the handling of unsuitable material, shall be performed by the Contractor at his own expense. The subbase material shall be obtained from approved sources. The material shall be handled in a manner that shall secure a uniform and satisfactory product.

154606-3.2 **EQUIPMENT.** All equipment necessary for the proper construction of this Work shall be on the Project, in first-class working condition, and approved by the Resident Engineer before construction is permitted to start. Equipment available shall meet the requirements of IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2022 Article 311.03, of Section 311, Granular Subbase.

154606-3.3 **PREPARING UNDERLYING COURSE.** The underlying subgrade shall be checked and accepted by the Resident Engineer before placing and spreading operations are started. The subgrade shall be free of ruts, objects and debris.

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

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

154606-3.4 PLACING AND SPREADING. The depositing and spreading of the material shall commence where designated and shall progress without breaks. The drainage layer shall be constructed in a layer of not less than 3-inches nor more than 6-inches of compacted thickness. The material shall be deposited and spread on the underlying subgrade and separation fabric in lanes of a uniform thickness and gradation, without segregation by size or pockets of fine or coarse materials, and to such loose depth that, when compacted, the layer shall have the required thickness. The aggregate shall be spread by spreader boxes or other approved devices or methods that shall spread the aggregate in the required amount to avoid or minimize the need for re-handling the material and to prevent the rutting of the underlying subgrade. Hauling over the un-compacted material shall not be permitted.

No material shall be placed in snow or on a soft, muddy, or frozen underlying course, unless directed by the Resident Engineer.

When more than one layer is required, the construction procedure described herein shall apply similarly to each layer.

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

154606-3.5 ROLLING AND COMPACTING. After spreading, the crushed aggregate shall be thoroughly compacted by rolling. The rolling shall progress gradually from the sides to the center of the lane under construction, or from one side toward previously placed material by lapping uniformly each preceding rear wheel track by one-half the width of such track. Rolling shall continue until the stone is thoroughly set, the interstices of the material reduced to a minimum, and creeping of the stone ahead of the roller is no longer visible. The base shall be compacted to the satisfaction of the Resident Engineer.

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

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

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

154606-3.6 FINISHING OF SUBBASE. Prior to final shaping, the subbase shall be brought to true shape. After the subbase has been brought to its true shape and correct elevation, the surface shall be wetted and rolled as directed by the Resident Engineer with a three-wheel or tandem roller weighing between 6 and 10 tons and weighing not less than 200 pounds/inch nor more than 325 pounds/inch of width of the roller.

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

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

154606-3.7 TOLERANCE IN THICKNESS. The subbase shall be constructed to the thickness shown on the Plans. Thickness determinations shall be made by depth tests or cores taken at intervals in such a manner that each test shall represent no more than 400 square yards. When the base deficiency is more than 1/2-inch, the Contractor shall correct such areas by scarifying, adding satisfactory base mixture, rolling, sprinkling, reshaping, and finishing in accordance with these Specifications.

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

For purposes of determining suitability for placement of Item 154606, the Contractor shall furnish grade elevations for the granular drainage subbase to the Project Engineer for review, as specified under Section 50-06 (Responsibility of the Contractor Paragraph G).

154606-3.8 PROTECTION. Work on the subbase shall not be accomplished during freezing temperatures nor when the subgrade is wet. When the aggregates contain frozen materials or when the underlying course is frozen, the construction shall be stopped. Hauling equipment may be routed over completed portions of the subbase, provided no damage results and provided that such equipment is routed over the full width of the course to avoid rutting or uneven compaction. However the Resident Engineer shall have the full and specific authority to stop all hauling over completed or partially completed subbase when, in his opinion, such hauling is causing damage. Any damage resulting from routing equipment over the course shall be repaired by the Contractor at his own expense.

154606-3.9 MAINTENANCE. Following the completion of the subbase, the Contractor shall perform all maintenance work necessary to keep the subbase in good condition. The subbase shall be properly drained at all times. If cleaning is necessary, any work or restitution necessary shall be at the expense of the Contractor.

METHOD OF MEASUREMENT

154606-4.1 The Granular Drainage Subbase to be paid for shall be the measured area in square yards for each thickness of subbase course placed, bonded and accepted by the Resident Engineer.

BASIS OF PAYMENT

154606-5.1 Payment will be made at the Contract unit price per square yard, per each thickness indicated on the Plans, for Granular Drainage Subbase. This price shall be full compensation for furnishing all materials and for the preparation, hauling, and placing of these materials, for furnishing certified scales, and for all labor, equipment, tools and incidentals necessary to complete the item to the satisfaction of the Engineer.

Payment will be made under:

Item AR154606 Granular Drainage Subbase - 6" - per square yard

ITEM 156000

EROSION CONTROL

Revise Item 156000 of the Standard Specifications as follows:

MATERIALS

156-2.1 SILT FENCE. Delete the first Paragraph of this Section and replace with the following:

"This fence shall be of either a pre-fabricated type or shall be constructed in the field, and regardless of the fabrication method, shall be of materials meeting the dimensions and material requirements shown in the Plans. **NOTE: The silt fence shall include woven wire fabric backing, as shown in the Plans.**"

156-2.4 TEMPORARY MULCH. Add the following to the first sentence: **"for Heavy Duty Hydraulic Mulch, as specified in Item 908, Mulching, of the Standard Specifications."**

156-2.5 TEMPORARY SEED. Replace this Paragraph with the following:

"Temporary Seed shall be annual ryegrass, applied at a rate of 100 pounds per acre."

156-2.7 INLET AND PIPE PROTECTION. Revise this Paragraph to read as follows:

"Erosion control protection shall be provided for at drainage inlets at the locations shown in the Plans and as detailed in the Plans. The complete inlet fabric and fabric insert assembly shall be furnished, installed and maintained as shown in the Plans, and shall be IPP Flexstorm by Inlet & Pipe Protection, FLEXSTORM CATCH-IT by Advanced Drainage Systems, FloGard Temporary Inlet Filter by Oldcastle, or approved equivalent. The Contractor shall determine the required assembly size to be used at each location based upon manufacturer recommendations. **The manufacturer shall furnish a certification with each assembly stating the number of assemblies furnished and that the material complies with the requirements of this Special Provision and all Contract requirements for materials, including the Buy American Preferences Act (49 U.S.C. § 50101).** The used inlet protection assembly shall be disposed of off-site at a lawful disposal site when instructed by the Resident Engineer."

Add:

156-2.8 EROSION CONTROL BLANKET. Erosion Control Blanket shall be:

Knitted Straw Mat

Straw mat shall be made of a 100% straw-fiber matrix stitched with photodegradable thread between lightweight, photodegradable polypropylene top and bottom nets. Material shall not contain any weed seed or chemical additives. Straw mat shall be North American Green EroNet S150, or American Excelsior Company Curlex II CL, or approved equal. The manufacturer shall furnish a certification with each shipment of blanket stating the number of rolls furnished and that the material complies with the requirements of this Special Provision and all Contract requirements for materials, including the Buy American Preferences Act (49 U.S.C. § 50101).

Stakes for Erosion Blanket

The mat shall be secured with biodegradable stakes acceptable to the Engineer. Metal staples will not be allowed. Separate measurement of the stakes shall not be made, but shall be incidental to the erosion blanket.

CONSTRUCTION METHODS

156-3.2 TEMPORARY EROSION CONTROL. Revise this Section as follows:

Add the following to Sub-paragraph B.:

“The Contractor shall empty the inlet fabric basket when the bag is half-full, or earlier when directed by the Resident Engineer.”

Replace Paragraph C. with the following:

“C. Temporary Erosion Control Seeding. Seed bed preparation will not be required if the soil to be covered is in a loose condition. Light discing shall be furnished if the soil is hard packed or caked. Fertilizer nutrients, lime or sulfur shall not be required.

“Prior to seeding, the area to be covered shall be wetted to the satisfaction of the Resident Engineer to encourage germination of the seed. The required moisture content of the soil may be estimated and judged closely by the hand squeeze test. The soil should readily form a tight cast when squeezed in the hand. The cast should break into two pieces without crumbling and without leaving excess water on the hand after casting.

“After approval for the application is made by the Resident engineer, the annual ryegrass seed shall be spread by hand broadcasting or by mechanical broadcaster to achieve a reasonably uniform coverage of at least 100 pounds per acre. After application, the Contractor shall furnish a watering of the seed bed to encourage germination of the seeds. **After planting, the Contractor shall be required to mow the area covered with temporary seeding before the seed heads mature (the seeds could become a strong wildlife attractant if allowed to mature).**

“Seed shall be re-applied to bare spots every seven days, regardless of weather conditions or progress of work. Re-seeding and maintenance shall not be measured for payment, but shall be incidental to the original quantity of temporary seeding measured and paid. The Resident Engineer may require that critical locations be seeded immediately and the Contractor shall seed these areas within 48 hours of such a directive.”

BASIS OF PAYMENT

156-5.1 Add the following:

“Payment will be made under:

“Item AR156510	Silt Fence - per linear foot.
Item AR156520	Inlet Protection - per each.
Item AR156531	Erosion Control Blanket - per square yard.
Item AR901510	Seeding
Item AS156531	Erosion Control Blanket – per square yard
Item AS901510	Seeding”

FLEXIBLE BASE COURSES

ITEM 208

POROUS GRANULAR EMBANKMENT

Replace this Section.

GENERAL

- 208-1.1 This item shall consist of furnishing, placing, shaping and compacting crushed stone (CA-1), with a CA-6 capping layer over separation fabric, for use in soil stabilization for the existing subgrade. The material is to be placed to the lines and grades as shown on the Plans and as directed by the Resident Engineer. Excavation of the soils replaced by the coarse aggregate shall be paid for at the Contract unit price for Unclassified Excavation.

MATERIALS

208515-2.1 LARGE COARSE AGGREGATE.

The large crushed coarse aggregate shall conform with the requirements of Article 1004.01 of IDOT Standard Specifications for Road and Bridge Construction, adopted April 1, 2016, and the following specific requirements:

- (a) Description. The coarse aggregate shall be pit run gravel, gravel, crushed gravel, novaculite, crushed stone, crushed concrete or crushed sandstone.

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

- (b) Quality. The coarse aggregate shall be Class D Quality or better.
- (c) Gradation. The coarse aggregate gradation shall be CA-1.
- (d) Plasticity. All material shall have a plasticity ratio of 0 to 6 percent. The plasticity index requirement for crushed gravel and crushed stone may be waived if the ratio of the percent passing the No. 200 sieve to that passing the No. 40 sieve is 0.60 or less.

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

- 208515-2.2 CAPPING AGGREGATE. The crushed coarse aggregate for capping shall meet the requirements of IDOT CA-6.

208515-2.3 SEPARATION FABRIC. Separation fabric shall meet the requirements of Item 156513.

CONSTRUCTION METHODS

208515-3.1 GENERAL. All work involved in clearing and stripping of quarries and pits, including the handling of unsuitable material, shall be performed by the Contractor at his own expense. The aggregate material shall be obtained from approved sources. The material shall be handled in a manner that shall secure a uniform and satisfactory product.

208515-3.2 EQUIPMENT. All equipment necessary for the proper construction of this Work shall be on the Project, in first-class working condition, and approved by the Resident Engineer before construction is permitted to start. Equipment available shall meet the requirements of IDOT Standard Specifications for Road and Bridge Construction, adopted April 1, 2016, Article 206.03, of Section 206, Granular Embankment, Special.

208515-3.3 PREPARING UNDERLYING COURSE. The underlying subgrade shall be checked and accepted by the Resident Engineer before placing and spreading operations are started. The subgrade shall be free of ruts, objects and debris.

208515-3.4 PLACING SEPARATION FABRIC. Fabric shall be placed over the accepted subgrade in accordance with Item 156513. The fabric shall be wrapped over all vertical faces of the undercut limits to prevent siltation of the PGE aggregates.

208515-3.5 PLACING AND SPREADING. The depositing and spreading of the material shall commence where designated and shall progress without breaks. The material shall be deposited and spread in lanes in a uniform layer and without segregation of size to such loose depth that, when compacted, the layer shall have the required thickness. The aggregate shall be spread by spreader boxes or other approved devices or methods that shall spread the aggregate in the required amount to avoid or minimize the need for re-handling the material and to prevent the rutting of the underlying subgrade. Hauling over the uncompacted material shall not be permitted.

The coarse aggregate material shall be placed on the underlying subgrade in loose lifts of up to 10-inches, and to the thickness detailed in the Construction Plans. The aggregate, as spread, shall be of uniform gradation with no segregation or pockets of fine or coarse materials. No material shall be placed in snow or on a soft, muddy, or frozen underlying course. When more than one layer is required, the construction procedure described herein shall apply similarly to each layer.

The Contractor shall make tests to determine the relative and maximum density and the proper moisture content of the material, and this information will be available to the Resident Engineer. The material shall have a satisfactory moisture content when rolling is started, and any minor variations prior to or during rolling shall be corrected by sprinkling or aeration, if necessary.

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

208515-3.6 FINISHING AND COMPACTING.

After spreading, the aggregate shall be thoroughly compacted by rolling. The rolling shall progress gradually from the sides to the center of the lane under construction, or from one side toward previously placed material by lapping uniformly each preceding rear wheel

track by one-half the width of such track. Rolling shall continue until the stone is thoroughly set, the interstices of the material reduced to a minimum, and creeping of the stone ahead of the roller is no longer visible. Rolling shall continue until the material has been compacted to not less than 100 percent of the standard laboratory density. Blading and rolling shall be done alternately, as required or directed, to obtain smooth, even and uniformly compacted backfill.

The course shall not be rolled when the underlying course is soft or yielding or when the rolling causes undulation in the aggregate course. In areas inaccessible to rollers, the material shall be tamped thoroughly with mechanical tampers.

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

208515-3.7 CA-6 CAP.

After completion of the CA-1 layer, a cap of IDOT CA-6 crushed aggregate shall be placed over the large aggregate, to the thickness detailed in the Construction Plans. Compaction of the capping layer shall be made to the satisfaction of the Resident Engineer. The capping layer shall be placed to the surface smoothness tolerances and elevation tolerances specified in Item 152.

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

208515-3.8 PROTECTION.

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

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

208515-3.7 MAINTENANCE. The embankment shall be properly drained at all times. If cleaning is necessary, any work or restitution necessary shall be at the expense of the Contractor.

METHOD OF MEASUREMENT

208515-4.1 The Porous Granular Embankment to be paid for shall be measured in place and the volume computed in cubic yards for crushed aggregate material placed and accepted, and shall be determined from the dimensions given on the Plans or dimensions ordered by the Resident Engineer. Separate measurement for separation fabric shall not be made, and the cost for furnishing and installing the fabric shall be incidental to Porous Granular Embankment. Excavation for material placement will be measured for pavement under Item 152.

BASIS OF PAYMENT

208515-5.1 Payment will be made at the Contract unit price per cubic yard for Porous Granular Embankment. This price shall be full compensation for furnishing all materials and for the preparation, hauling, and placing of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

Payment will be made under:

Item AR208515 Porous Granular Embankment - per cubic yard

ITEM 209

CRUSHED AGGREGATE BASE COURSE

Revise Item 209 of the Standard Specifications as follows:

209-1.1 DESCRIPTION. Add the following:

“The Crushed Aggregate Base Course shall be placed upon a prepared subgrade / porous granular embankment (PGE) in lifts of limited thickness as required in the Standard Specifications and to the total uniform compacted thicknesses shown in the Plans. **In accordance with Section 209-3.2, the material used in this item shall be pugmilled with water at a central mixing plant or traveling plant and placed at the material’s optimum moisture content.**”

MATERIALS

209-2.1 GRADATION. Add the following:

"The **Gradation B** column in **Table 1**, Requirements for Gradation of Aggregate, shall be used."

CONSTRUCTION METHODS

209-3.4 FINISHING AND COMPACTING. Add the following after the first Paragraph:

“**For the purpose of compaction control testing, this item is to be constructed for aircraft weighing less than 60,000 pounds (Standard Proctor).**”

209-3.7 SURFACE GRADE ACCURACY. Add the following to this Section:

“**For purposes of this grade check, the Contractor shall furnish grade elevations for the crushed aggregate base course to the Project Engineer for review, as specified under Section 50-06 (Responsibility of the Contractor Paragraph G).**”

METHOD OF MEASUREMENT

209-4.1 Delete this Section. Section 209-4.2 of the Standard Specifications shall be used.

209-4.3 Delete this Section.

BASIS OF PAYMENT

209-5.1 Add the following:

“Payment will be made under:

Item AR209606	Crushed Agg. Base Course - 6" - per square yard.”
Item AS209612	Crushed Agg. Base Course - 6" - per square yard.”

FLEXIBLE SURFACE COURSES

ITEM 401

BITUMINOUS SURFACE COURSE - SUPERPAVE

(Central Plant Hot Mix)

Revise Item 401 (Superpave) of the Standard Specifications as follows:

401-1.1 **DESCRIPTION.** Add the following paragraphs:

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

"For purposes of materials, design and testing criteria, this item is to be constructed for **Aircraft Under 60,000 Pounds, Runway or Taxiway** and for **Method I - Under 2,500 tons/pay** item.

"This item shall also include the requirements prescribed in Illinois Division of Aeronautics Policy Memorandums 87-2, Density Acceptance of Bituminous Pavements; 87-4, Determination of Bulk Specific Density of Compacted Bituminous Mixes; 96-3, Requirements for Quality Assurance on Projects with Bituminous Concrete Paving, and; 2003-1, Requirements for Laboratory, Testing, Quality Control, and Paving of Superpave Bituminous Concrete Mixes for Airports, current issues."

COMPOSITION

401-3.2 **JOB MIX FORMULA.** Add the following:

"This item is to be designed for **Aircraft Under 60,000 Pounds, Runway or Taxiway.**

401-3.4 **TEST SECTION.** Delete this Section (Test Section not required).

CONSTRUCTION METHODS

401-4.4 **HMA PAVERS.** Add the following to the end of this Section:

"Should Plan grade elevations and slopes for the Bituminous Base Course have been achieved, subject to the tolerances permitted for Item AR403613, the Contractor may use a ski-type device of not less than 30 feet in length, or as directed by the Engineer, in conjunction with the HMA paver controls. **Should Plan grade elevations and/or slopes have not been achieved for the Bituminous Base Course, taut stringline (wire) shall be used for grade control.**"

401-4.15 **ACCEPTANCE TESTING OF HMA MIXES FOR DENSITY.** Add the following as the first Paragraph:

"**Acceptance of the surface mix shall be performed in accordance with requirements for Method I: Under 2,500 tons/pay Item.**"

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

401-4.16 SURFACE TESTS. Add the following:

“To verify conformance with Plan final grades, the Contractor shall furnish grade elevations for the final surface lift to the Project Engineer for review, as specified under Section 50-06 (Responsibility of the Contractor Paragraph G).”

401-4.17 SAMPLING PAVEMENT. Add the following to the end of this Section:

“The paving shall be furnished under Method I procedures, and only coring for thickness verification shall be performed.”

BASIS OF PAYMENT

401-6.1 Add the following:

“Payment will be made under:

“Item AR401613 Bit. Surf. Cse. - Method I, Superpave - per ton.”

ITEM 401660

SAW AND SEAL BITUMINOUS JOINTS

DESCRIPTION

401660-1.1 This item shall consist of a resilient and adhesive joint sealing filler capable of effectively sealing joints in bituminous asphalt pavement at the locations shown in the Plans or as directed by the Resident Engineer.

MATERIALS

401660-2.1 The joint sealing materials shall conform to ASTM D6690 - Type II.

CONSTRUCTION METHODS

401660-3.1 The Contractor shall mark true lines for each joint sealant location. Each location shall then be sawed to the depth shown on the Plans and the Saw and Seal Joints detail. The costs for sawing for joint sealant placement shall be included in the Contract unit price for Item AR401660. Prior to filling, the joint shall be thoroughly cleaned of all laitance, protrusions, dirt, dust, and other objectionable material and the faces of the joints shall be dry. The filler may then be placed at the depths shown on the Plans and in accordance with manufacturer's recommendations for this type of installation. At the time of application of the sealing compound, the atmospheric and pavement temperature shall be above 50° F. The weather shall not be rainy or foggy. The temperature requirements may be waived only when so directed by the Engineer in writing. The Contractor shall not install any joint sealer material until the Resident Engineer has inspected and approved the condition of the joints immediately prior to the installation of the sealer.

Before sealing the joints, the Contractor shall be required to demonstrate that the equipment and procedures for preparing, mixing and placing the sealing compound will produce a satisfactory joint seal. During the course of the work, any batches that do not have good consistency for application shall be rejected.

METHOD OF MEASUREMENT

401660-4.1 The joint sealing filler to be paid for shall be the linear feet of filler or sealer as specified, sawed and placed, complete and accepted.

BASIS OF PAYMENT

401660-4.1 Payment will be made at the Contract unit price per linear foot for Saw and Seal Bituminous Joints, which price shall be full compensation for the materials, labor, equipment, tools and incidentals necessary to complete the item as specified and to the satisfaction of the Engineer.

Payment will be made under:

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

ITEM 401665

BITUMINOUS PAVEMENT SAWING

DESCRIPTION

401665-1.1 This item shall consist of a saw cut at the extremity of bituminous pavements that are to be removed by milling or by hand/machine, or as directed by the Resident Engineer. The depth of saw shall be partial depth for milling or full depth for hand/machine removal, as shown in the Plans or as directed by the Resident Engineer.

CONSTRUCTION METHODS

401665-2.1 The existing pavement shall be saw cut at the locations shown in the Plans or as directed by the Resident Engineer. Saw depth shall be as shown in the Plans at milling locations, or full depth at hand removal locations. During sawing and removal, should any of the pavement to remain be damaged due to a saw cut of insufficient depth, the damaged pavement shall be replaced in a manner satisfactory to the Resident Engineer. However, this pavement replacement shall not be measured for payment.

METHOD OF MEASUREMENT

401665-3.1 This item shall be measured in linear feet marked by the Resident Engineer prior to sawing. Saw cutting outside the limits marked by the Resident Engineer will not be measured for payment. Sawing for Item AR401660, Saw & Seal Bit. Joints shall **NOT** be paid under this item (AR401665), but shall be shall be paid under Item AR401660.

BASIS OF PAYMENT

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

Payment will be made under:

Item AR401665 Bituminous Pavement Sawing - per linear foot.

ITEM 401900

REMOVE BITUMINOUS PAVEMENT

Revise Item 401900 of the Standard Specifications as follows:

DESCRIPTION

401900-1.1 Revise the second Paragraph as follows:

“Within the limits shown in the Plans or as directed by the Resident Engineer, the Contractor shall remove all of the existing bituminous concrete pavement. No separate measurements will be made for various HMA thicknesses that may be encountered. Existing Crushed Aggregate Base Course removal that may be required to achieve Plan elevations shall be paid under “Unclassified Excavation”.”

CONSTRUCTION METHODS

401900-2.1 Add the following to the first Paragraph:

“Sawcutting under this item shall be measured and paid under Item AR401665.”

Add the following to the second Paragraph:

“Material removed shall include all of the existing bituminous concrete.”

Add the following as a fifth Paragraph:

“The Contractor may use a power-operated mechanical scarifier, roto-mill, planing machine, grinder or other device to remove the asphalt surface in the area for Remove Pavement. However, this milling and disposal shall not be separately measured for payment, but shall be included in the Contract unit price for Remove Bituminous Pavement.”

BASIS OF PAYMENT

401900-4.1 Add the following:

“Payment will be made under:

“Item AR401900 Remove Bituminous Pavement - per square yard.”

ITEM 403

BITUMINOUS BASE COURSE - SUPERPAVE

(Central Plant Hot Mix)

Revise Item 403 (Superpave) of the Standard Specifications as follows:

403-1.1 DESCRIPTION. Add the following paragraphs:

"The Bituminous Base Course for all new pavements shall be placed upon an aggregate base prepared in accordance with Item 602 Bituminous Prime Coat. **Prime Coat shall NOT be deleted.**

"For Bituminous Base Course constructed in two or more lifts, the second and succeeding lifts shall be placed upon a Bituminous Tack Coat, furnished in accordance with Item 603. Each specified tack coat application **SHALL** be required, regardless of condition of the underlying pavement.

"For purposes of materials, design and testing criteria and test section, this item is to be constructed for **Aircraft Under 60,000 Pounds, Runway or Taxiway** and for **Method I - Under 2,500 tons/pay** item.

"**This item shall also include the requirements prescribed in Illinois Division of Aeronautics Policy Memorandums 87-2, Density Acceptance of Bituminous Pavements; 87-4, Determination of Bulk Specific Density of Compacted Bituminous Mixes; 96-3, Requirements for Quality Assurance on Projects with Bituminous Concrete Paving, and; 2003-1, Requirements for Laboratory, Testing, Quality Control, and Paving of Superpave Bituminous Concrete Mixes for Airports, current issues.**"

COMPOSITION

403-3.2 JOB MIX FORMULA. Add the following:

"This item is to be designed for **Aircraft Under 60,000 Pounds, Runway or Taxiway.**

403-3.4 TEST SECTION. Delete this Section (Test Section not required).

CONSTRUCTION METHODS

403-4.4 HMA PAVERS. Add the following to the end of this Section:

“For the first lift of Bituminous Base Course, taut stringline (wire) shall be used. The grade elevations for the crushed aggregate base course furnished by the Contractor under Section 50-06 (Responsibility of the Contractor Paragraph G) shall first have been reviewed by the Project Engineer. After placement of the first base course lift, the Project Engineer shall then review the grade elevations resulting from the first lift’s placement, as furnished by the Contractor under Section 50-06 (Responsibility of the Contractor Paragraph G). Should Plan grade elevations and slopes for the Bituminous Base Course have been achieved, subject to the tolerances permitted for Item AR403613, subsequent lifts may be constructed by the Contractor using a ski-type device of not less than 30 feet in length, or as directed by the Engineer, in conjunction with the HMA paver controls. Each paving lift shall be reviewed for conformance with Plan elevations and slopes. Should Plan grade elevations and/or slopes have not been achieved for the Bituminous Base Course, taut stringline (wire) shall be used for grade control on each subsequent lift until satisfactory grade elevations and slopes are achieved.”

403-4.13 ACCEPTANCE TESTING OF HMA MIXES FOR DENSITY. Add the following as the first Paragraph:

“Acceptance of the base mix shall be performed in accordance with requirements for Method I: Under 2,500 tons/pay item.”

403-4.14 SURFACE TESTS. Add the following:

“To verify conformance with Plan Base course grades, the Contractor shall furnish grade elevations for the first and final base course lift to the Project Engineer for review, as specified under Section 50-06 (Responsibility of the Contractor Paragraph G). Should grades not be achieved on the first lift, the Contractor shall develop a plan to achieve the required grades prior to paving the next lift, and shall survey each subsequent lift in accordance with Section 50-06 (Responsibility of the Contractor Paragraph G) until the Plan grades are achieved.”

403-4.15 SAMPLING PAVEMENT. Add the following to the end of this Section:

“The paving shall be furnished under Method I procedures, and only coring for thickness verification shall be performed.”

BASIS OF PAYMENT

403-6.1 Add:

“Payment will be made under:

“Item AR403613 Bit. Base Cse. - Method I, Superpave - per ton.”

RIGID PAVEMENT

ITEM 501

PORTLAND CEMENT CONCRETE PAVEMENT(PLAIN AND REINFORCED)

Revise Item 501 of the Standard Specifications as follows:

DESCRIPTION

501-1.1 Add the following:

This item shall consist of constructing the proposed helistop, taxiway and helicopter parking area PCC pavements as well as the Self-Service Fueling System Concrete Pad (Reinforced).

Method 1 paving shall be referenced for all project pavements (quantity less than or equal to 1,500 cubic yards of PCC material).

MATERIALS

501-2.6 STEEL REINFORCEMENT. Add the following:
All reinforcement shall consist of Epoxy Coated Reinforcement Bars.

BASIS OF PAYMENT

501-5.1GENERAL. Add the following:

“Payment will be made under:

Item AR501508	8” PCC Pavement – per square yard.
Item AR501530	PCC Test Batch – per each.
Item AR501604	4 PCC Sidewalk – per square foot.
Item AS801033	Self-Service Fueling System Concrete Pad (Reinforced) – per square yard.

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

ITEM 510510

TIE-DOWN/GROUND ROD

BASIS OF PAYMENT

510-5.1 ADD:

“Payment will be made under:

Item AR510510 Tie Down - per Each

MISCELLANEOUS

ITEM 602

BITUMINOUS PRIME COAT

Revise Item 602 of the Standard Specifications as follows:

DESCRIPTION

602-1.2 QUANTITIES OF BITUMINOUS MATERIAL. Add the following:

“The quantity of prime coat shown in the Plans is based upon the application of 0.30 gallon per square yard of area. **Prime coat application SHALL be required, regardless of weather or the condition of the underlying aggregate base course.**”

MATERIALS

602-2.1 BITUMINOUS MATERIAL. Add the following to this Section:

“PEP may be used as an option to MC-30, as specified in IDOT Standard Specifications for Road and Bridge Construction, adopted April 1, 2016, Section 403 BITUMINOUS SURFACE TREATMENT, Article 403.02 Materials.”

CONSTRUCTION METHODS

Add:

602-3.6 INDEPENDENT WEIGHT CHECKS. Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item.

METHOD OF MEASUREMENT

602-4.1 Add the following paragraph to this Section:

“Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item.”

BASIS OF PAYMENT

602-5.1 Add the following:

**SPECIAL PROVISIONS
TINLEY PARK HELISTOP (TF8)
HELISTOP PAVEMENT IMPROVEMENTS**

**ILLINOIS PROJECT NO. TF8-5050
CONTRACT NO. T1001
ITEM NO. 04A**

“Payment will be made under:

“Item AR602510 Bituminous Prime Coat - per gallon.”

ITEM 603

BITUMINOUS TACK COAT

Revise Item 603 of the Standard Specifications as follows:

DESCRIPTION

603-1.2 **QUANTITIES OF BITUMINOUS MATERIAL.** Add the following:

“The quantity of tack coat shown in the Plans is based upon the application of 0.15 gallon per square yard of area, per lift. **Each specified tack coat application SHALL be required, regardless of condition of the underlying pavement.**”

CONSTRUCTION METHODS

Add:

603-3.6 **INDEPENDENT WEIGHT CHECKS.** Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item.

METHOD OF MEASUREMENT

603-4.1 Add the following paragraph to this Section:

“Although this item is documented for payment in gallons, it is based on a measurement of weight which requires any placement of this material be subject to IDOT, Division of Aeronautics, requirement for independent weight checks for asphalt tonnage items. The Contractor shall cooperate with the Resident Engineer in conducting and furnishing any and all before and after weight checks that are required under these policies. The costs for these weight checks shall not be paid for separately, but shall be included in the Contract unit price for this item.”

BASIS OF PAYMENT

603-5.1 Add the following:

“Payment will be made under:

“Item AR603510 Bituminous Tack Coat - per gallon.”

ITEM 610

STRUCTURAL PORTLAND CEMENT CONCRETE

Revise Item 610 of the Standard Specifications as follows:

DESCRIPTION

610-1.1 Add the following:

“PCC items within the construction plans including foundations, sidewalks, and other miscellaneous concrete outside the helistop and parking pavement (Item 510) shall conform to the concrete specifications within this section.”

“This item shall also include the requirements prescribed in Illinois Division of Aeronautics Policy Memorandums 18-08.1, Acceptance Procedure for Finely Divided Minerals Used in Portland Cement Concrete and Other Applications; 96-1, Item 610, Structural Portland Cement Concrete: Job Mix Formula Approval and Production Testing, and; 2001-1, Requirements for Cold Weather Concreting, current issues.”

CONSTRUCTION METHODS

610-3.16 CURING AND PROTECTION. Add the following:

“All Structural Portland Cement Concrete placed under Item 610 which is exposed to weather shall be cured and protected by the Liquid Membrane Curing Method using an IDOT-approved curing compound, as specified herein, and whose cost shall be incidental to Item 610. The compound shall meet all Contract requirements for materials, including the Buy American Preferences Act (49 U.S.C. § 50101).”

BASIS OF PAYMENT

No direct payment will be made for structural Portland cement concrete. The cost of furnishing and installing structural concrete shall be considered incidental to the Contract unit prices for the respective pay items utilizing the concrete. These prices shall be full compensation for furnishing all materials and for all preparation, delivering and installation of these materials, and for all labor, equipment, tools and incidentals necessary to complete the item.

ITEM 620

PAVEMENT MARKING

Revise Item 620 of the Standard Specifications as follows:

Item 620 Pavement Markings shall refer to the latest edition of Illinois Standard Specifications for Construction of Airports, State of Illinois Department of Transportation, Division of Aeronautics, adopted September 25, 2020 as revised (Standard Specifications).

MATERIALS

620-2.2 **PAINT.** Add the following as the first Paragraph:

“Permanent yellow in waterborne media shall be furnished, as detailed in the Marking Plans. **Yellow paint shall conform to Federal Standard No. 595, color 33538 or 33655. Permanent waterborne paint shall be Type III (thicker, durable coating).**”

CONSTRUCTION METHODS

620-3.3 **PREPARATION OF SURFACE.** Add the following:

“**Surface preparation methods shall also adhere to the recommendations of Chapter 4 of Airfield Marking Handbook, Report IPRF 01-G-002-05-1, Innovative Pavement Research Foundation, September, 2008.**”

620-3.5 **APPLICATION.** Revise the first sentence in the second Paragraph of this Section to read:

“The waterborne paint shall be mixed in accordance with the manufacturer’s instructions and applied to the pavement with a marking machine in two applications, each at the rate(s) shown in TABLE 1. The addition of thinner will not be permitted.”

620-3-7 **PAVEMENT MARKING REMOVAL.** Add the following to this Section:

“Only high-pressure or ultra-high-pressure water blasting shall be used. Sand blasting, shot blasting, or surface grinding shall **NOT** be permitted on pavements that are not to be overlain in this Project. **Removal methods shall also adhere to the recommendations of Chapter 5 of Airfield Marking Handbook, Report IPRF 01-G-002-05-1, Innovative Pavement Research Foundation, September, 2008.**”

BASIS OF PAYMENT

620-5.1 Add the following:

“Payment will be made under:

Item AR620520	Pavement Marking - Waterborne - per square foot.
Item AR620900	Pavement Marking – Black Border – per square foot.
Item AR620900	Pavement Marking Removal – per square foot.

ITEM 801013

PROTECTION BOLLARD

DESCRIPTION

801013-1.1 This item shall consist of the installation of protective concrete bollards around the proposed fuel pad.

MATERIALS

801013-1.2 The protection bollard shall be constructed as detailed in the Construction Plans. Galvanized Regid Steel (GRS) conduit shall meet the requirements of Paragraph 110-2.2. Concrete used to reinforce the conduit in its specified position shall meet the requirements of Item 610. A commercial-grade, manufactured HDPE bollard covering shall be installed over each bollard — color YELLOW.

All materials used for this item shall be made in USA from raw materials manufactured in the USA.

CONSTRUCTION METHODS

801013-1.3 The bollard shall be constructed, as detailed in the Construction Plans. Concrete used for this item shall be furnished and accepted in accordance with Item 610.

METHOD OF MEASUREMENT

801013-1.4 The quantity of Protection Bollard to be paid under this item shall be the number of individual bollards installed, measured in place, completed and accepted. No separate measurements shall be made for any other materials or incidentals required to complete this item, as they are incidental to a completed and accepted bollard installation.

BASIS OF PAYMENT

801013-1.5 Payment will be made at the Contract unit price for each protection bollard completed and accepted. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; for all sawing and pavement removal; for all excavation and backfilling with aggregate backfill, earth backfill, and concrete; and for all labor, coordination, equipment, tools, and incidentals necessary to complete this Item.

Payment will be made under:

Item AS801013 PROTECTION BOLLARD - per EACH

ITEM 801035

CONCRETE WASH OUT

DESCRIPTION

510-5.1 This item shall consist of the installation and removal of a temporary concrete wash out facility and barrier wall as required by Illinois Erosion and Sediment Control Field Guide for Construction inspection. This item shall conform to the materials and details as shown in the plans.

MATERIALS

510-5.2 The materials required for this item shall conform as detailed in the plans.

CONSTRUCTION METHODS

510-5.3 This item shall be installed, maintained, and removed as required by the Illinois Erosion and Sediment Control Field Guide for Construction inspection. Item shall be dimensioned as shown in plan details. The location of the temporary concrete washout facility shall be installed away from any area that may runoff and enter existing storm sewer or waterways, and the location shall be pre-approved by the Resident Engineer or Owner's representative.

METHOD OF MEASUREMENT

510-5.4 Method of measurement shall be made at the contract unit price per lump sum. The price shall be full compensation for furnishing all materials for operations, hauling, and placing these materials, removal of item, disposal of solidified concrete waste, site cleanup, and for all labor, equipment, tools and incidentals to complete the item.

BASIS OF PAYMENT

510-5.1 Payment shall be made at the contract unit price per lump sum. The price shall be full compensation for furnishing all materials for operations, hauling, and placing these materials, removal of item, disposal of solidified concrete waste, site cleanup, and for all labor, equipment, tools and incidentals to complete the item.

Payment will be made under:

Item AR801035 CONCRETE WASH OUT - per L SUM

DIVISION III

FENCING (WIRE FENCES)

ADD

ITEM 163

STEEL ORNAMENTAL FENCE SYSTEM DESCRIPTION

163-1.1 This item shall consist of furnishing and installing new 6' tall Steel Ornamental Fence and Gates at the locations shown on the construction plans. This shall be in accordance with this specification and in accordance with the Illinois Department of Transportation's Standard Specifications for Road and Bridge Construction, latest edition, except as modified by plans or specifications. The fence and gates shall be of the height and configuration as shown on the construction plans and shall match the existing fence on site at the adjacent Tinley Park Police Facility. The fencing shall be Montage Plus Classic by Ameristar / Assa Abloy per the photo on the plans.

All structural fence components (i.e. rails, pickets and posts) shall be warranted within specified limitations, by the manufacturer for a period of 20 years from the date of original purchase. Warranty shall cover any defects in material finish, including cracking, peeling, chipping, blistering, or corroding. Reimbursement for labor necessary to restore or replace components that have been found to be defective under the terms of the manufacturer's warranty shall be guaranteed for five (5) years from the date of original purchase.

The fence shall be the product of a manufacturer who has demonstrated by actual installation of a similar nature that the product is of the type required. The Contractor shall include all supplementary parts necessary or required for a complete and satisfactory installation within the true meaning and intent of the drawings. All runs of the fence shall present the same general appearance and the product of one manufacturer only will be accepted, except for items which do not influence the appearance of the completed fence. No used, rerolled, or open-seam steel shall be permitted in posts, gate frames, rails or braces.

MATERIALS

163-2.1 Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft² (184 g/m²) Coating Designation G-60.

163-2.2 **PICKETS.** Pickets shall be 0.75" sq. x 18 ga (min) black. Standard picket airspace shall be 4".

163-2.3 **RAILS.** Rails shall be 1.4375" x 1.5" x 14ga (min) black.

163-2.4 **POSTS.** Posts shall be 2.5" sq (min) x 16ga (min) black.

163-2.5 **BRACKETS.** All brackets (flat mount and swivel) must be thru-bolted and black in color.

163-2.6 **GATES.** Slide gates shall be cantilever gates conforming to the dimensions and details shown on the plans and be black in color.

163-2.7 **CONCRETE.** Concrete shall be produced and placed in accordance with Item 610.

CONSTRUCTION METHODS

- 163-3.1** **CLEARING AND GRADING FENCE LINE.** The site of the fence shall be sufficiently cleared of obstructions, and surface irregularities shall be graded so the fence will conform to the general contour of the ground. The bottom of the fence shall be placed a uniform distance above the ground, as specified on the plans. This work shall include the handling and disposal of all material cleared, graded, excavated, or removed, regardless of the type, character, composition, or condition of such material encountered.
- 163-3.2** **UTILITY LOCATION AND COORDINATION.** The contractor shall contact or otherwise locate all underground utilities in the vicinity of the proposed fencing and gates prior to any grading or excavation.
- 163-3.3** **INSTALLING POSTS.** All posts shall be spaced as shown on the plans. Terminal (end, corner, etc.) and shall be at least 42 inches in concrete bases as shown on the plans. Gate posts shall be at least 48 inches in concrete bases as shown on the plans. The tops of the concrete bases shall be slightly above ground, trowel finished, and sloped to drain away from the posts. Holes of full depth and size for the concrete bases shall be dug to the size and depth shown on the plans. All post settings shall be done carefully so that all posts shall be vertical and in true alignment and rigidly secured in position. The fence shall not be erected until the concrete encasement around the post has cured 7 days or reached a compressive strength of 2,500 psi. If high-early strength concrete is used, the fence may be erected once the concrete has reached a compressive strength of 2,500 psi. the Contractor will be responsible for concrete testing other than at 7 and 14 days.
- 163-3.4** **ELECTRICAL GROUNDS.** Each run (4 total) of fence shall be grounded. The ground shall be accomplished with a copper clad rod 8 feet long and a minimum of 5/8 inch in diameter driven vertically until the top is 6 inches below the ground surface. A No. 6 solid copper conductor shall be clamped to the rod and to the fence in such a manner that each element of the fence is grounded. Installation of the ground rods and conductors shall not constitute a pay item and shall be considered incidental to fence construction.
- 163-3.5** **CLEANING UP.** The Contractor shall remove from the vicinity of the completed work all tools, equipment, debris, etc., used or generated during construction.

METHOD OF MEASUREMENT

- 163-4.1** Steel ornamental fence shall be measured in place from the outside of end posts or corner posts and shall be the length of fence actually constructed, except the space occupied by gates. Driveway gates shall be measured in units for each gate installed and accepted.
- 163-4.2** Steel ornamental sliding gates shall be measured in units for each gate installed and accepted.

BASIS OF PAYMENT

- 163-5.1** Payment will be made at the contract unit price per linear foot for steel ornamental fence. This price shall be full compensation for furnishing all materials and for all preparation, erection, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

163-5.2 Payment shall be made at the contract unit price per each for driveway or walkway gates. The price shall be full compensation for furnishing all materials, and for all preparation, erection, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AU801013	Ornamental 6' Tall Black Metal Fence – per linear foot.
Item AR801032	Ornamental 6' Tall Black Metal Manual Sliding Gate – 30' – per each.

DIVISION IV

DRAINAGE

ITEM 705

PIPE UNDERDRAINS FOR AIRPORTS

Revise Item 705 of the Standard Specifications as follows:

705-1.1 DESCRIPTION. Add the following:

“The underdrain pipe shall be wrapped with a filter fabric casing. **A second Underdrain Trench Envelope surrounding the trench, with the underdrain pipe and the porous granular material (Porous Material No. 2), shall also be included.**

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

MATERIALS

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

“705-2.12 CORRUGATED POLYETHYLENE (PE) TUBING AND IGS FITTINGS. All underdrain shall be 6-inch perforated corrugated polyethylene (PE) pipe, **double wall** with a smooth inner surface, conforming to the requirements of AASHTO M 252, Type SP, Class 2. The underdrain shall be wrapped with a filter fabric casing, as noted in Section 705-2.13.”

“In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.”

Add:

705-2.15 UNDERDRAIN TRENCH ENVELOPE. The trench for the underdrain pipe and porous material shall be wrapped in a nonwoven filter fabric envelope. The trench fabric shall be Mirafi 160N, by TC Mirafi, US 160NW by US Fabrics, Inc., or equal. Alternate fabrics may be submitted for consideration by the Engineer. The filter fabric shall not be measured separately but shall be included in the Contract unit price for underdrain pipe.

In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.

Add:

705-2.16 **UNDERDRAIN CLEANOUT AND INSPECTION HOLE.** Underdrain cleanout and inspection hole shall be as shown in the details and notes shown on the Plans. Concrete collar may be cast-in-place of concrete meeting Item 610 or pre-cast meeting IDOT Specifications for Class PC concrete. Pre-cast structures shall be from IDOT-approved sources. Frames and lids shall be of the type and size shown in the Plans. Bolts and washers for bolted frame and lid/grate assemblies shall be **stainless steel**. The area between the pipe and the frame opening shall be grouted and sealed with a cement mortar. Separate payment for the frame and grate, cement mortar and other incidentals shall not be made but shall be included in the unit price for cleanout and inspection hole.

In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.

705-2.17 **Aggregates.** Aggregate shall be a granular drainage layer approved by the Engineer..

705-2.22 **RAPID SETTING FLOWABLE MORTAR.** Rapid-setting flowable mortar used in water proofing the pipe connections to the underdrain cleanout and inspection hole shall be Dayton-Superior HD-50, Five Star Highway Patch, or approved equal.

In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.

Add:

705-2.23 **FRAMES AND LIDS.** Frames and lids shall be manufactured in the United States of U.S.-made steel, and of the type and size shown in the Plans. Bolts and washers for bolted frame and lid/grate assemblies shall be **stainless steel**.

In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.

CONSTRUCTION METHODS

705-3.7 CONNECTIONS. Add the following:

“Underdrain pipe connections to the storm sewer system are to be made at manholes or concrete culvert pipe, unless otherwise shown on the Plans. These connections shall be made through smooth, cored holes made at the proper invert elevation. Holes remaining from existing underdrain pipe connections removed in this work shall be patched to the satisfaction of the Resident Engineer. Concrete conforming with Item 610 shall be used. Connections to structures or pipe and patching of existing connections removed shall not be paid for separately but shall be included in the Contract price for underdrain.

Add:

705-3.10 REMOVE UNDERDRAIN. Existing underdrain pipe, granular material and fabric envelop shall be removed at the locations shown on the Plans and as directed by the Resident Engineer. Removed materials shall be disposed of off-site, with any haul and disposal costs incidental to the Contract unit price for Remove Underdrain.

Add:

705-3.11 REMOVE EXISTING INSPECTION HOLE AND CLEANOUT STRUCTURES. Existing inspection hole and cleanout structures shall be removed as shown in the Plans and as directed by the Resident Engineer. The concrete structure shall be disposed off an off-site location, with the disposal cost incidental to Remove Underdrain Inspection Hole or Remove Underdrain Cleanout. The pipe tubing shall be carefully cut to the indicated location and the pipe removed for the distance shown on the Plans or as directed by the Resident Engineer. New couplings shall be furnished for all pipe to be extended or rerouted. All pipe ends to remain that are not to be extended shall be provided with end caps installed in accordance with the manufacturer's recommendations. End caps and couplings used in this Work shall not be paid for separately but shall be included in the Contract unit price for Remove Underdrain Inspection Hole or Remove Underdrain Cleanout.

METHOD OF MEASUREMENT

BASIS OF PAYMENT

705-5.1

Add the following:

“Payment will be made under:

Item AR705506	6" Perforated Underdrain - per linear foot.
Item AS705506	6" Perforated Underdrain – per linear foot.
Item AR705803	Underdrain Cleanout - per each.

ITEM 751

MANHOLES, CATCH BASINS, INLETS AND INSPECTION HOLES

Revise Item 751 of the Standard Specifications as follows:

DESCRIPTION

751-1.1 Add the following to the first paragraph:

“This item shall also meet IDOT Specifications and AASHTO M 199 (ASTM C-478) for pre-cast drainage structures. Fabrication shall also include pre-cast cutouts for underdrain connections, as indicated in the Construction Plans, AND shall include pre-cast, “scored” blockouts for future field tile connections, as indicated in the Construction Plans and details. The Contractor shall submit dimensioned, plant fabrication shop drawings to the Project Engineer for review prior to any fabrication.”

Add the following:

“This item shall also include the adjustment of the height of and the replacement of frames and grates on existing structures at the location shown in the Construction Plans or as directed by the Resident Engineer.”

Add the following:

“Each new and adjusted manhole/inlet shall be furnished with a cast-in-place concrete collar of the size and dimensions, and with steel reinforcement, as shown on the Construction Plans.”

MATERIALS

751-2.6 FRAMES, COVERS AND GRATES. Add the following:

“The new frames and grates for inlets and manholes shall be of the size and type specified, and shall be paid under Item AR801002. Bolts and washers for bolted frame and lid/grate assemblies shall be stainless steel.”

“In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.”

Add:

751-2.9 REPLACEMENT FRAME AND GRATE. The replacement frame and grate shall be as detailed in the Construction Plans. The castings shall be manufactured in the United states of U. S.-made material. **Bolts and washers for the frame/lid assembly shall be stainless steel.**

“In accordance with FAA Buy American Preferences, required under this Project, all materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification attesting to adherence to the Buy American Preferences Act.”

Add:

751-2.10 CONCRETE ADJUSTING RINGS FOR ADJUSTED MANHOLE. If height increases are required under Item AR801002, pre-cast concrete adjusting rings, meeting IDOT approval, shall be furnished.

Add:

751-2.11 CONCRETE FOR COLLAR AREA MANHOLE/INLET FRAME. Concrete for collar shall conform to the requirements of Item 610.

CONSTRUCTION METHODS

Add:

751-3.11 PROVISIONS FOR PROPOSED UNDERDRAIN CONNECTIONS AND FUTURE FIELD TILE CONNECTIONS. New concrete manhole and inlet structures shall include pre-cast cutouts for underdrain connections, as indicated in the Construction Plans, AND shall include pre-cast, “scored” blockouts for future field tile connections, as indicated in the Construction Plans and details. The Contractor shall submit dimensioned, plant fabrication shop drawings to the Project Engineer for review prior to any fabrication. This pre-cast work shall be incidental to the manhole or inlet.

Add:

751-3.12 ADJUST MANHOLE AND REPLACE CASTING. Manhole adjustment shall include the removal of the existing frame and grate, and its disposal off-site at the Contractor’s expense. When the rim elevation is raised, pre-cast adjusting rings, meeting IDOT approval, shall be used to set the new frame and grate at the specified elevation. When lowering the rim elevation, the manhole top shall be removed and the structure walls uniformly sawed to the required elevation. When placing the manhole top, the cut surfaces shall be clean and the top set on the manhole in accordance with Item 751. When setting the new frame, the frame and adjusting rings shall be set in cement mortar, as elsewhere specified for Item 751. The frame shall be set to the pavement slope specified for the manhole location. The unit shall be set firm and secure. The frame and lid shall be tightened firmly. Crushed aggregate meeting the gradation for Item 209 shall be used between the manhole top slab and the pavement. The forms for the concrete collar shall be straight and true.

All work associated with the removal of the existing frame and grate, the installation of adjusting rings to achieve the new final rim elevation, concrete wall sawing, all mortaring and waterproofing, and establishment of the final aggregate base elevation, shall be included in Item AR801002.

Furnishing and setting of the new frame and grate shall be paid under Item AR801002.

Add:

751-3.13 **CONCRETE COLLAR AROUND MANHOLE/INLET.** The concrete collar shall be constructed in accordance with Item 610. The forms for the concrete collar shall be straight and true. The concrete collar shall not be measured for payment but shall be included in the Contract unit price for Item 751.

METHOD OF MEASUREMENT

751-4.1 Add the following:

“The number of manholes adjusted and frame and grates replaced shall be the number of manholes adjusted and frame and grate units installed and accepted as one unit.”

BASIS OF PAYMENT

751-5.1 Add the following:

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

“Payment will be made under:

Item AR751986 Reconstruct Catch Basin – per each

DIVISION V

TURFING

ITEM 901

SEEDING

Revise Item 901 of the Standard Specifications as follows:

MATERIALS

901-2.1 SEED. Delete the seed mixture listed in the table and replace with the following:

<u>"Minimum Amount of Common Name</u>	<u>Pure Live Seed per Acre</u>
Shadow II Chewings Fescue - <i>Festuca commutate</i>	53 Pounds
Quattro Sheep Fescue - <i>Festuca ovina</i>	53 Pounds
Rhino Hard Fescue - <i>Festuca brevipila (F. longifolia)</i>	26 Pounds
Henry Hard Fescue - <i>Festuca brevipila (F. longifolia)</i>	26 Pounds
Sea Fire Slender Creeping Red Fescue - <i>Festuca rubra</i>	26 Pounds
Kent Creeping Red Fescue - <i>Festuca rubra, subsp. rubra</i>	26 Pounds
Gulf Annual Rye Grass - <i>Lolium multiflorum</i>	<u>10 Pounds</u>
Total	220 Pounds per Acre"

Delete the third and fourth Paragraphs.

Add the following:

"Planting times shall be between August 20 and October 20. If fall planting is not possible, the mixture may be planted between April 1 and June 1. Seeding of permanent grass between June 1 and August 20 will not be permitted. If planted in the spring, the Contractor shall furnish additional measures beyond that otherwise required in these Special Provisions to prevent weed growth as recommended by a registered nurseryman at no additional cost to the Contract.

"A sample of selected seed species shall be made available on request to the Resident Engineer for viability testing by the tetrazolium trichloride method, not less than 21 calendar days prior to planting.

"Seed mixtures shall contain the proportion of seed of individual species indicated in the planting design. Changes in seed mixtures must be approved by the Project Engineer.

"All seeds shall be guaranteed by the Contractor to be true to name. All seeds shall have the proper pre-planting treatments, including stratification, scarification and/or inoculation to promote good germination and growth, prior to any seeding.

"All seedings shall be planted at the specified rates, utilizing the specified species unless otherwise authorized by the Project Engineer."

901-2.2 **LIME.** Replace this Section with the following:

"901-2.2 **SOIL MODIFICATION.** Based upon the Project Engineer's testing for the on-site topsoil, the Contractor shall introduce the following new elements into the soil when preparing the topsoil layer furnished in Item 905:

- ① **Elemental Sulfur** shall be added at the rate of thirty (30.0) pounds per 1,000 square feet of topsoiled area.
- ② **Gypsum** shall be added at the rate of fifty (50.0) pounds per 1,000 square feet of topsoiled area.
- ③ **Ammonium Phosphorus 11-52-0** shall be added at the rate of two (2.0) pounds per 1,000 square feet of topsoiled area.
- ④ **Sulfate of Potash 0-0-50** shall be added at the rate of five (5.0) pounds per 1,000 square feet of topsoiled area.

"These elements shall be furnished in standard containers with name, weight, and guaranteed analysis of contents clearly marked thereon. The elements shall be provided in a suitable form, and shall be incorporated to a minimum depth of three (3.0) inches, prior to placement of fertilizer and seed.

"**All granular elements that are applied to an existing turf must be watered-in immediately and thoroughly unless they are applied on a rainy day.** All watering shall be incidental to seeding.

"**All soil modification shall be incidental to seeding.**"

901-2.3 **FERTILIZER.** Delete the last Paragraph and the nutrient ratio table in this Section and replace with the following:

"**The Contractor shall apply a slow-release Nitrogen (N) fertilizer at the following ratio:**

- Slow-release Nitrogen (N) at four (4.0) pounds per 1,000 square feet of topsoiled area.**

"**All granular fertilizers that are applied to an existing turf must be watered-in immediately and thoroughly unless they are applied on a rainy day.** All watering shall be incidental to seeding.

"**All fertilizer shall be incidental to seeding.**"

CONSTRUCTION METHODS

901-3.1 **ADVANCE PREPARATION AND CLEANUP.** Add the following as the first Paragraph:

"**ALL** perennial weeds and spontaneous vegetation shall be eliminated within the seedbed prior to seeding, using mowing/raking and herbicide. Herbicides used for weed removal shall be as recommended by the seed producer. Based upon actual conditions, it may be necessary for this weed removal to begin up to eight weeks before planting. When all vegetation is dead, the soil shall be tilled and otherwise prepared for planting as specified herein. Weed removal prior to acceptance of the lawn shall be incidental to the Contract."

Add the following sentence to the second Paragraph:

"Soil shall be prepared to have clods no more than 1½ inches on any side to ensure adequate seed-soil contact."

Add the following paragraphs:

"Seed shall not be placed on ground that is frozen or in any way in a condition that is detrimental to the seed.

"Areas shall be de-watered if necessary to accomplish any specified plantings. The method of de-watering shall be approved by the Resident Engineer.

"Final grading and site preparation must be inspected and approved by the Resident Engineer prior to any planting.

"Seedbed preparation shall commence as soon as practicable prior to planting. After preparation, these areas shall be protected from erosion.

"The proposed seeding method shall be stated by the Contractor. The seeding method shall result in a uniform distribution and complete coverage of the entire area to be seeded. If seed drilling is proposed, the seeder shall have an adjustable gate opening provided uniform flow and shall drop the seed directly into place on the prepared seed bed. If the broadcast method is used, within eight hours of seeding, all seeded areas should be rolled at right angles to the slope with a roller, cultipacker or hand tamped to compact the seedbed. Any areas broadcasted shall be sufficiently rolled or tamped to assist proper germination. All seeding equipment shall be calibrated to ensure the proper flow of seeds to deliver the specified quantities. The Contractor shall use only seeding equipment that is designed to plant grasses.

"All seeding shall be provided within the planting seasons stated in Section 901-2.1, unless season mixes are prior approved by the Project Engineer and conditions are acceptable for seeding as noted in Section 901-2.1.

"Measures to protect planted materials from grazing damage by wildlife shall be recommended and provided by the Contractor.

"Installation and maintenance of erosion control measures pertinent to seeding shall be the responsibility of the Contractor. Erosion control measures which may be damaged and/or removed by the Contractor during planting and related work shall be replaced by the Contractor.

"If on-site conditions change or are otherwise altered due to circumstances beyond the control of the Contractor, the Owner, and/or the Project Engineer, such that the Specifications and/or drawings are no longer valid, the Contractor shall notify the Resident Engineer so that remedial measures may be undertaken."

901-3.4 MAINTENANCE OF SEEDED AREAS. Add the following:

“It is essential that the seeds planted herein are watered for one to two months after planting to increase germination rates and seedling survival. The Contractor shall regularly water the seedlings to promote proper germination. It is the Contractor’s responsibility to regularly inspect the growth and furnish watering when required. All inspection and watering shall be incidental to seeding.”

BASIS OF PAYMENT

901-5.1 Add the following:

“Payment will be made under:

- | | |
|-----------------------|-----------------------------|
| “Item AR901510 | Seeding - per acre.” |
| “Item AS901510 | Seeding - per acre.” |

ITEM 905

TOPSOILING

Revise Item 905 of the Standard Specifications as follows:

DESCRIPTION

905-1.1 Add the following:

“Topsoil shall be from on-site and created by stripping of topsoil from within the grading limits shown in the Plans and placed in its final position or stockpiled for re-distribution at locations designated by the Contractor and approved by the Resident Engineer. Stripping of the topsoil and placing in-place and/or in temporary stockpiles shall be paid under Item AR152410, Unclassified Excavation. **Any loading and haul or re-distribution of topsoil material within the overall Project, will not be measured for payment, but shall be incidental to the Contract unit prices for Unclassified Excavation.**”

MATERIALS

905-2.1 TOPSOIL. Replace the last sentence of the first Paragraph with the following:

“At least 90 percent of the material shall pass the No. 10 sieve.”

CONSTRUCTION REQUIREMENTS

905-3.4 PLACING TOPSOIL. Delete the first sentence of the first Paragraph and replace with the following:

“The topsoil shall be spread on the prepared areas to receive seeding. The resulting topsoil layer shall be at least four (4) inches in depth; at the outer limits the 4-inch depth can include the existing topsoil layer not disturbed by the construction.”

METHOD OF MEASUREMENT

905-4.1 Revise this section.

Topsoiling shall not be measured for payment but shall be incidental to the Contract.

905-4.2 Delete this Section.

BASIS OF PAYMENT

905-5.1 Replace this Paragraph with the following:

“Topsoiling shall not be measured for payment but shall be included in the price of Unclassified Excavation.”

DIVISION VI

LIGHTING INSTALLATION

ITEM 101

AIRPORT ROTATING BEACONS

ADD

ITEM 801015 / 801029

REPLACE LIGHT FIXTURES

DESCRIPTION

RLF-1.1

This item shall consist of removing existing (outdated/worn out) wall-mounted and pole-mounted light fixtures and furnishing and installing new light fixtures and associated cabling at the same locations of the existing fixtures. The systems shall be installed at the location and in accordance with the dimensions, design, and details shown on the plans. This item shall include the furnishing of all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the Engineer.

EQUIPMENT AND MATERIALS

RLF-2.1 GENERAL.

The lighting fixtures and cabling to be furnished and installed are detailed on the project plans (type, manufacturer, catalog number, etc.) or equal. All lighting fixture construction shall include removal and disposal of existing fixtures off site, and all items necessary to construct and complete the units including, but not restricted to, photocells, conduit, connectors, and fixtures.

The Contractor shall ascertain that all lighting fixture components furnished by him/her are compatible in all respects with each other and the remainder of the existing systems. Any noncompatible components furnished by the Contractor shall be replaced by him/her at no additional cost with a similar unit, approved by the Engineer (different model or different manufacturer) that is compatible with the remainder of the site's lighting systems.

CONSTRUCTION METHODS

RLF-3.1 REPLACING LIGHT FIXTURES.

The replacement light fixtures shall be installed at the locations indicated on the plans. The Contractor shall exercise caution in the installation of all light units. Any units or existing equipment to remain that is damaged by the Contractor's operations shall be repaired or replaced to the satisfaction of the Engineer at no additional cost to the contract.

METHOD OF MEASUREMENT

RLF-4.1 The quantity of light fixture replacements to be paid for under this item shall be the number of each type installed as completed units in place, ready for operation, and accepted by the Engineer.

BASIS OF PAYMENT

RLF-5.1 Payment will be made at the contract unit price for each replacement light fixture installed in place by the Contractor and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item. This price shall also include the removal and disposal of the existing light fixtures and associated cabling to facilitate the installation of the new fixtures. The main electrical cabling for the replacement wall-mounted fixtures shall be paid for separately under other bid items.

Payment will be made under:

Item AT801015 Replace Wall Mounted Light Fixture – per each.
Item AT801029 Replace Area Lighting (Cobra Head) Light Fixtures – per each.

ITEM 107 INSTALLATION OF AIRPORT 8-FOOT AND 12-FOOT WIND CONES

Revise Item 107 of the Standard Specifications as follows:

DESCRIPTION

107-1.1

Add the following:

“This item shall consist of removing the existing lighted wind cone and mounting pole from the roof of the adjacent 4-story Fire Training Tower and installing a new 8-foot internally lighted wind cone with L-810 red obstruction light at the same location.

Delete the following:

“All references to a concrete foundation. The new wind cone shall be mounted to the existing concrete roof/roof structure similar to the existing wind cone.”

EQUIPMENT AND MATERIALS

107-2.3

WIRE. Add the following:

For ratings up to 600 volts, moisture and heat resistant thermoplastic wire conforming to Commercial Item Description A-A-59544A Type THWN-2 shall be used.

CONSTRUCTION METHODS

107-3.1

INSTALLATION. Delete the first sentence. Add the following:

The 8-foot wind cone shall be mounted on a steel pole. The steel pole shall be securely fastened to the 4-story Fire Training Tower roof/roof structure.

107-3.2

COUNTERWEIGHT. Delete this section.

METHOD OF MEASUREMENT

107-4.2

Add the following:

The quantity of existing wind cones to be removed shall be the number of wind cone systems (wind cone, pole, mounting hardware, wiring, etc.) removed and completed.

BASIS OF PAYMENT

107-5.1“

Payment will be made under:

“Item AR107508 L-806 WC -8’ Internally Lit – per each.
Item AR107900 Remove Wind Cone – per each.”

ITEM 108

INSTALLATION OF UNDERGROUND CABLE FOR AIRPORTS

Revise Item 108 of the Standard Specifications as follows:

DESCRIPTION

108-1.1 Add the following to this Section:

“This item of work shall consist of the installation of cable for the following: helistop in-pavement lights, internally lit wind cone, helistop beacon, obstruction lights, and light fixture replacements. as shown on the Plans and in accordance with these Specifications and Special Provisions.

“When crossing existing circuits, the Contractor will be required to hand dig the trenches for the proposed cable.”

Add:

108-1.2 DOMESTIC STEEL REQUIREMENTS. All steel used on this project shall also meet the requirements of (30 ILCS 565/) Illinois Steel Products Procurement Act, and the Contractor shall furnish a certification of source with each request for materials approval.

Add:

108-1.3 SHOP DRAWINGS. The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Each shop drawing submittal shall be grouped by pay item, and shall include information on cables, wires, unit duct, line warning tape, concrete markers, labeling and other incidentals as specified.

Shop drawings shall include wire/conductor/cable cut sheets with type, size, specifications, Intertek Testing Services verification/ETL listing or UL listing, manufacturer, and catalog or part number. Shop drawings for cable in unit duct items shall include cut sheets with type, size, specifications, Intertek Testing Services verification/ETL listing or UL listing, manufacturer, and catalog or part number for the respective unit duct. Where cable is required to have color coded insulation, provide information on the color coding for the respective conductors.

EQUIPMENT AND MATERIALS

108-2.1 GENERAL. Add the following:

“All cable shall be UL-listed as suitable for installed application. All conductors shall be copper.”

108-2.2 CABLE. Revise this Section to read as follows:

“Cables shall be as shown in the plans.

“XLP-USE Wire. Cable shall comply with UL Standard 44, UL Standard 854, and Federal Specification A-A-59544. Conductor shall be concentric-strand, soft copper, conforming to ASTM B8 and Underwriters' Laboratories Standard UL44 for Rubber Insulated Wires. Insulation shall be rated for 600-Volt. Insulation shall be cross-linked polyethylene conforming to Underwriter's Laboratories Requirements for Type USE-2 insulation. Cable shall be UL-listed and marked USE-2. Cable shall be manufactured in the United States of

America to comply with the Buy American Preferences Act.

Provide colored marking tape or colored insulation for phase and neutral conductors for No. 3 AWG and larger. Contractor shall provide color-phasing to match the existing lighting circuit cables. Insulated ground conductors shall have green colored insulation for all conductor sizes (AWG and/or KCMIL) to comply with NEC 250.119. Neutral conductors shall have white colored insulation for No. 6 AWG and smaller to meet the requirements of NEC 200.6.

108-2.4 CABLE CONNECTIONS. Add the following to this Section:

“The Contractor will use a cable stripper/penciller whenever cable connections are made.

“No cable splices will be permitted.

“The unit duct shall be connected at the pole foundation using Unit Duct to GRS adapters at the foundation conduit to form a weather tight connection of the unit duct. All breaks in the unit duct shall be sealed by shrink kits.”

108-2.4 CONCRETE. Revise this Section to read as follows:

“**108-2.4 CONCRETE CABLE MARKERS.** Concrete cable markers shall be furnished for all runs of cable in unit duct. The Contractor shall furnish a proposed Concrete Marker Plan based upon the Plan details for approval by the Resident engineer prior to their fabrication. Concrete shall conform to Standard Specification for Item 610, Structural Portland Cement Concrete.

108-2.12 LINE MARKING TAPE. Line marking tape shall be furnished as specified in Item 108 of the Standard Specifications.

CONSTRUCTION METHODS

108-3.1 GENERAL. Add the following to this Section:

“The cable quantities as shown on the Construction plans are based on straight-line measurement, and no cable installed vertically will be measured. All other cable lengths, such as slack or waste, will not be measured for payment.

“If the Contractor wishes to lay cable on a line other than that shown on the Plans, he shall obtain approval of the Project Engineer before doing so and coordinate with the Resident Engineer. Any additional cable needed because of such change will be at the Contractor's expense.

“Only cable in unit duct may be plowed or directional-bored.

“The Contractor shall identify all existing underground utilities, including airfield cabling, located within the area where the proposed cables are being installed, and will take all precautions to protect these utilities from damage. Care shall be taken so as not to damage any existing circuits. Any existing circuits damaged shall be immediately repaired to the satisfaction of the Engineer and/or the respective utility or owner where applicable. Any underground utility damaged will be repaired or replaced at the Contractor's own expense. Any repairs of existing cables will be considered incidental to the Contract, and no additional compensation will be allowed. The cost for locating existing airfield cabling

and existing electrical ducts under pavement to be used or impacted in the work shall be incidental to Underground Cable Installation.

“Contractor shall coordinate work and any power outages with the Village or respective Owner’s Representative. Any shutdown of existing systems shall be scheduled with and approved by the Village prior to shutdown. Once shut down, the circuits shall be labeled as such to prevent accidental energizing of the respective circuits. All personnel shall follow U.S. Department of Labor Occupational Safety & Health Administration (OSHA) 29 CFR Part 1910 Occupational Safety and Health Standards for electrical safety and lockout/tagout procedures, including, but not limited to, 29 CFR Section 1910.147 The Control of Hazardous Energy (lockout/tagout).

“Contractor shall comply with the applicable requirements of NFPA 70E - Standard for Electrical Safety in the Workplace.

“All temporary installations shall comply with National Electrical Code Article 590 - "Temporary Installations.

“All cables installed by the Contractor shall be properly labeled and tagged at all points of access (handholes, manholes, splice cans, terminal panels, control panels, and the respective wireway in the vault or new junction box).

“All changes to the roadway lighting system shall be documented by the Contractor and provided to the Resident Engineer.”

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

“The unit duct shall be run continuous through all ducts and conduits.

“Where cable in unit duct enters a handhole that is part of a continuous duct bank system to the termination point (such as from handhole through plastic or rigid conduit to the vault or another handhole), the unit duct will not be required for the respective cable.”

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

“F. Cable installed at a minimum depth of 24 inches below grade. Cable located in cultivated fields shall be installed a minimum of 42 inches below grade.

“G. Any and all trenches will be backfilled to a smooth grade to the satisfaction of the Engineer. All trench settlement shall be corrected for a period of one year. Restoration, grading, and seeding of areas disturbed during the installation of the proposed cable will be incidental to the respective Pay Item.”

108-3.5 SPLICING. Add the following:

“There shall be no splices between roadway light poles unless otherwise detailed in the Plans. In the event that a roadway lighting circuit cable is cut between poles, the entire length of cable between these locations shall be replaced at the Contractor’s own expense.

“The Contractor shall use a cable stripper/penciller whenever cable connections are made.

“All splices and connections will be considered incidental to the respective cable.

“Provide adequate slack cable required to perform cable splices outside of the respective splice cans, handholes, manholes, or other junction structures. Provide adequate slack cable to accommodate the ability to perform future cable splices outside of the respective splice cans, handholes, manholes, or other junction structure.”

Add:

108-3.12 LOCATING OF EXISTING UNDERGROUND UTILITIES AND CABLES. The location, size, and type of material of existing underground and/or aboveground utilities indicated on the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction. It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. Prior to construction, the Contractor shall notify the utility companies of his operational plans, and shall obtain, from the respective utility companies, detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required. In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately notify the utility company of jurisdiction. The Owner's Representative and/or the Resident Engineer shall also be immediately notified. Any damage to such mains and services shall be restored to service at once and paid for by the Contractor at no additional cost to the Contract.

All utility cables and lines shall be located by the respective utility. Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123. Contact the FAA (Federal Aviation Administration) for assistance in locating FAA cables and utilities. Location of FAA power, control, and communication cables shall be coordinated with and/or located by the FAA. Also, contact Airport Manager and Airport Personnel for assistance in locating underground Airport cables and/or utilities. Also, coordinate work with all aboveground utilities.

Payment for locating and marking underground utilities, underground electrical ducts, and cables, including existing roadway cabling and existing electrical ducts under pavement to be used or impacted in the work, will not be paid for separately, but shall be considered incidental to the plowing/trenching/boring of cable and cable in unit duct.

Add:

108-3.13 SEPARATION OF HIGH-VOLTAGE AND LOW-VOLTAGE WIRING. High-voltage circuit wiring (airfield lighting 5000 Volt series circuits and/or other circuits rated above 600 Volts) and low-voltage circuit wiring (rated 600 Volts and below) shall maintain separation from each other. High-voltage wiring and low-voltage wiring shall not be installed in the same wireway, conduit, duct, raceway, handhole, or junction box. Where necessary provide split flexible duct around low voltage cables located in a handhole with high voltage cables, to isolate the cables from possible contact with each other.

Add:

108-3.14 IDENTIFICATION OF CABLES. At electrical handholes and manholes, identify and label each cable installed. Provide identification tags rated suitable for the respective locations with

permanent markings.

METHOD OF MEASUREMENT

108-4.1 Add the following:

“The footage of cable and/or cable in unit duct installed in duct, conduit, or raceway to be paid for shall be the number of linear feet of cable installed in duct, conduit, or raceway measured in place by direct measurement, completed, ready for operation and accepted as satisfactory with no allowance being made for overrun due to slack, turns, splices, etc. Vertical cable runs and slack cable required to perform cable splices outside of the respective splice cans, handholes, or manholes, shall be incidental to the respective cable pay item and no additional measurement for payment will be made. Coring and interface to handholes, manholes, or other structures shall be incidental to the respective cable pay item and no additional measurement for payment will be made. The cable quantities shown on the Plans are based on straight-line horizontal measurements and do not consider any vertical distances. Cable will be measured for payment from the respective termination or splice point in the field up to the respective termination point. Conduit and/or raceway necessary to interface cable or cable in unit duct to a respective power source will be considered incidental to the respective cable pay item and no additional compensation will be made.”

108-4.2 Delete this Section.

Add:

108-4.4 Cable markers shall not be measured separately for payment but shall be incidental to the Contract unit price for cable. The footage of line marking tape installed shall be considered incidental to the work and shall not be measured separately.

BASIS OF PAYMENT

108-5.1 Add the following:

“Payment will be made at the Contract unit price per linear feet of cable completed and accepted by the Engineer. This price shall be full compensation for furnishing all materials, and for all preparation, assembly, and installation of these materials; for all splices and connections; for all plowing, trenching, directional-boring, coring of manholes or handholes, installation in ducts, raceways, conduits, splice cans, handholes, or manholes, and for all excavation and backfilling; for all site restoration (topsoiling, grading, seeding, mulching), for all line marking tape and cable markers, and pavement restoration; and for all labor, equipment, tools, and incidentals necessary to complete this Item.

Payment will be made under:

- Item AR108082 1/C #2 XLP-USE - per linear foot.
- Item AR108406 1/C #6 600 V UG CABLE – per linear foot
- Item AR108410 1/C #10 600 V UG Cable – per linear foot
- Item AR108758 1/C #8 GROUND – per linear foot
- Item AR108762 1/C #12 GROUND – per linear foot

ITEM 119

AIRPORT OBSTRUCTION LIGHTS

DESCRIPTION

119-1.1 ADD

This item shall consist of furnishing and installing obstruction lights as shown in the Plans.

119-5.1 BASIS OF PAYMENT
ADD

“Payment will be made under:

“Item AR119510 Airport Obstruction Light- per each

ITEM 110

INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT

Revise Item 110 of the Standard Specifications as follows:

DESCRIPTION

110-1.1 Add the following:

This item shall consist of the construction of new PVC Schedule 40 and Schedule 80 conduit, direct bury, concrete encased duct banks and electrical handholes.

Trenching and backfilling under the proposed pavement for the concrete encased duct shall not be paid for separately, but shall be considered incidental to the associated duct item. Contractor shall provide pull wire for each conduit and cap the unused conduits for future use.. **Ducts to be extended have existing cabling therein, and split duct conduit shall be required for the duct extensions."**

Add:

110-1.2 **BUY AMERICAN PREFERENCES ACT AND DOMESTIC STEEL REQUIREMENTS.** All materials used for this item shall be made in USA from raw materials manufactured in the USA. The Contractor shall furnish a certification with the shop drawing attesting to adherence to the Buy American Preferences Act. All steel used on this project meet the requirements of (30 ILCS 565/) Illinois Steel Products Procurement Act, and the Contractor shall furnish a certification of source with each request for materials approval.

Add:

110-1.3 **SHOP DRAWINGS.** The Contractor shall furnish shop drawings for approval before ordering equipment and/or materials. Each shop drawing submittal shall grouped components by pay item, and shall include information, on conduits and ducts, Item 610 concrete, steel reinforcement, etc.

EQUIPMENT AND MATERIALS

110-2.1 **GENERAL.** Add the following:

"All materials for these items shall be in accordance with the FAA Standard Specification 110 Equipment and Materials, as detailed on the Plans, and as specified herein.

"A. Conduit for concrete encased duct shall be Schedule 40 (minimum) Polyvinyl Chloride (PVC) or Schedule 40 (minimum) High-Density Polyethylene (HDPE), sized as detailed on the Plans, and suitable for concrete encasement.

"B. The duct to be directional-bored shall be Schedule 40 PVC Conduit, Schedule 80 PVC Conduit or High-Density Polyethylene (HDPE) duct, (Schedule 40, Schedule 80, SDR 11, or SDR 13.5), and suitable for directional boring installation."

110-2.2 **STEEL CONDUIT.** Replace this Section with the following:

“Rigid Steel Conduit and fittings shall be hot-dipped, galvanized, UL-listed, and produced in accordance with UL Standard 6 - Rigid Metal Conduit and ANSI C80.1 - Rigid Steel Conduit, Zinc Coated. Couplings, connectors, and fittings for rigid steel conduit shall be threaded, galvanized steel or galvanized, malleable iron, specifically designed and manufactured for the purpose. Fittings shall conform to ANSI C80.4 - Fittings Rigid Metal Conduit and EMT and UL 514B - Conduit, Tubing, and Cable Fittings. Set screw type fittings are not acceptable.

“Miscellaneous Fittings. Fittings shall be suitable for use with conduits and ducts supplied. All fittings for use with rigid metal conduit shall be threaded. Set screw-type fittings are not acceptable. All conduit bodies, fittings, and boxes installed in classified hazardous locations (Class I, Division 1 or 2, Group D) shall be suitable for use in Class I, Division 1, and Group D locations. Fittings shall be as manufactured by Appleton, Crouse-Hinds, Hubbell-Killark, O-Z/Gedney, or approved equal.”

110-2.3 PLASTIC CONDUIT. Add to this Section:

“Conduits shall be suitable for underground applications encased in concrete or direct burial, and suitable for exposed applications aboveground.

- A. Conduits under pavement conditions including direct bury or in concrete encasement, conduits shall be Schedule 80 PVC conduit, UL-listed or ETL listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651 and suitable for directional boring installation, Schedule 40 HDPE or Schedule 80 HDPE conduit, UL-listed, conforming to NEMA Standard TC-7 and UL 651B and suitable for directional boring installation, or Wall Type SDR 9, SDR 11, or SDR 13.5 HDPE conduit manufactured in accordance with ASTM D-3350 (Specification of Polyethylene Plastics Pipe and Fittings Materials) and ASTM F2160 (Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter), and suitable for directional boring installation. **Per NEC 300.5 (K), raceways installed using directional boring equipment shall be approved for the purpose.**
- B. Conduits for direct burial in earth shall be PVC Schedule 40 (minimum wall thickness), UL-listed or ETL listed, rated for 90°C cable-conforming to NEMA Standard TC-2 and UL 651, listed suitable for direct burial in earth, or HDPE Schedule 40 (minimum wall thickness), conforming to NEMA Standard TC-7 and UL 651B, or HDPE SDR 13.5 (minimum wall thickness) manufactured in accordance with ASTM D-3350 (Specification of Polyethylene Plastics Pipe and Fittings Materials) and ASTM F2160 (Standard Specification for Solid Wall, High-Density Polyethylene Conduit Based on Controlled Outside Diameter). Conduits shall be suitable for direct burial in earth and/or concrete encasement.”

110-2.4 **SPLIT CONDUIT.** Add the following to this Section:

“NON-METALLIC SPLIT DUCT. Non-metallic split duct shall be used to extend existing duct that contains cables and/or for protection of existing cables, as shown on the Construction Plans. Non-metallic split duct shall be Schedule 40 PVC designed for use with power and control cable applications. Non-metallic split duct shall be suitable for direct burial in earth and concrete encasement and exhibit superior impact strength. Joints shall be sealed with corrosion-resistant tape and heavy-duty plastic straps as recommended by the split duct manufacturer for the application. Split duct sleeve couplings, duct sweeps, fittings, and accessories shall be by the same manufacturer to assure system integrity. Non-metallic split duct shall be manufactured by Prime Conduit, Inc., Carlon Electrical Products, Cantex Inc., or approved equal. 4-in. Schedule 40 split ducts shall be Carlon Part Number 49015SD, Cantex Part Number A52EAZS, or approved equal. Install split duct as detailed on the Plans and in conformance with manufacturer's recommendations for the respective application. Provide adapters, couplings, and fittings to accommodate interface to existing duct or conduit. Where split duct is to be concrete-encased, confirm it is suitable for the respective application with the manufacturer.

“Split duct shall be concrete-encased in accordance with Item 610 after installation.”

110-2.5 **CONDUIT SPACERS.** Add the following to this Section:

“Spacers shall be designed to provide 3-inches of separation of conduits.”

ADD

110-2.11 **ELECTRICAL HANDHOLES”**

“The Contractor shall install handholes at locations specified and as detailed in the plans.”

CONSTRUCTION METHODS

110-3.1 **GENERAL.** Add to this Section:

“The proposed conduits and ducts shall be constructed at the locations and in accordance with the details shown on the Construction Plans. Ducts shall be installed at the depths detailed in the Plans or as directed by the Resident Engineer. Where detailed on the Plans or where required to avoid underdrain pipe or obstructions, ducts shall be buried deeper than the underdrain pipe or other obstruction.

“Proposed concrete-encased duct shall be constructed at the locations and in accordance with the details shown on the Construction Plans. **The duct terminations shall include bell ends or couplings to accommodate interface to future duct bank extensions.**

“The Contractor will determine if there is a conflict between the installation of the proposed electrical ducts and any existing utilities. He will make all necessary adjustments in depth of installation to avoid any and all proposed underground improvements.”

110-3.7 **RESTORATION.** Add the following to this Section:

“Any and all trenches and disturbed areas will be backfilled and restored to a smooth grade and seeded to the satisfaction of the Engineer. All trench settlement shall be corrected for a period of one year. Restoration, grading, and seeding of areas disturbed during the installation of the proposed ducts and handholes will be incidental to the respective pay item for which the duct or handhole is installed. The seeding will be completed in accordance

with Items 901 and 908, but will be incidental to the respective pay item for which the duct or handhole is installed.”

Add:

110-3.8 **LOCATING EXISTING UNDERGROUND UTILITIES AND CABLES.** The location, size, and type of material of existing underground and/or aboveground utilities indicated on the Plans are not represented as being accurate, sufficient, or complete. Neither the Owner nor the Engineer assumes any responsibility whatever in respect to the accuracy, completeness, or sufficiency of the information. There is no guarantee, either expressed or implied, that the locations, size, and type of material of existing underground utilities indicated are representative of those to be encountered in the construction.

It shall be the Contractor's responsibility to determine the actual location of all such facilities, including service connections to underground utilities. The Contractor shall notify the utility companies of his operational plans, and shall obtain from the respective utility companies detailed information and assistance relative to the location of their facilities and the working schedule of the companies for removal or adjustment, where required. **{Contact JULIE (Joint Utility Location Information for Excavators) for utility information, phone: 1-800-892-0123.}**

The general location of cables owned by the Airport Owner are shown in the Plans. This utilities shall be located by the Contractor using his own or private utility locate services, with all costs for this location to be paid by the Contractor, with this cost included in the Contract unit price for Electrical Duct.

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

Payment for locating and marking underground utilities and cables will not be made separately, but shall be considered incidental to the respective duct installation.

In the event an unexpected utility interference is encountered during construction, the Contractor shall immediately make all notices and correct any interruptions in accordance with the provisions of the Standard Specifications.

METHOD OF MEASUREMENT

110-4.1 Add the following:

“The quantity of conduit to be paid for shall be the number of linear feet of duct whether for individual or multiple ducts (individual lengths shall not be added; only the longest duct length shall be measured for payment), installed, and measured in-place, complete, and accepted by the Resident Engineer. Electrical handholes shall be measured per each unit constructed and accepted by the Resident Engineer.”

110-4.2 Delete this Section.

BASIS OF PAYMENT

110-5.1 Revise this Section to read as follows:

“Payment will be made at the Contract unit price per each duct extension location, completed and accepted. No additional payment will be made for individual pipe in multi-way duct. These prices shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials; for all sawing and pavement removal; for all duct interface work; for all excavation and backfilling with aggregate backfill, earth backfill, and concrete; and for all labor, coordination, equipment, tools, and incidentals necessary to complete this Item. Payment for electrical handholes shall be paid at the contract unit price per each completed and accepted.

“Payment will be made under:

Item AR110202	2” PVC Duct, Direct Bury – per linear foot
Item AR110204	4” PVC Duct, Direct Bury – per linear foot
Item AR110504	4-Way Concrete Encased Duct – per linear foot
Item AR110610	Electrical Handhole – per each
Item AR801020	3/4” GRSC Duct – per linear foot
Item AR801021	1” GRSC Duct – per linear foot
Item AR801022	2” PVC Duct, Direct Bury – Sched 80 – per linear foot
Item AR801023	4-Way, 2” PVC Duct, Direct Bury -Sched 40 – per linear foot

ITEM 801014 / 801024

L-852H IN-PAVEMENT MEDIUM INTENSITY LIGHT

DESCRIPTION

125-1.1 This item shall consist of heliport in-pavement lighting systems furnished and installed in accordance with this specification, the referenced specification, and the latest revision of the applicable FAA Advisory Circulars. The systems shall be installed at the location and in accordance with the dimensions, design, and details shown on the plans. This item shall include furnishing all equipment, materials, services, and incidentals necessary to place the systems in operation as completed units to the satisfaction of the Engineer

EQUIPMENT AND MATERIALS

125-2.1 GENERAL. Add the following:

D. The in-pavement lights shall be FAA L-852H In-Pavement LED Medium Intensity Heliport Perimeter Lights.

125-2.8 LIGHT CANS. Add the following:

Light cans for the new base mounted in-pavement heliport perimeter lights shall be FAA L-858, Class B, Size B (12").

125-2.9 LIGHT LENS. Add the following:

Lens for the heliport perimeter lights shall be green.

METHOD OF MEASUREMENT

125-4.1 The quantity of lights to be paid for under this item shall be the number of each type installed as completed units in place, ready for operation, and accepted by the Engineer. In-Pavement Light Base (Empty) shall be paid by the number of in-pavement light cans installed.

BASIS OF PAYMENT

125-5.1 Payment will be made at the contract unit price for each completed light installed in place by the Contractor and accepted by the Engineer. Payment will be made at the contract unit price for empty in-pavement light base cans installed and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR801014 – IN-PAVEMENT LIGHT BASE (EMPTY) – per each
Item AR801024 – L825H IN-PAVEMENT MEDIUM INTENSITY LIGHT – per each

ITEM 801025

RADIO CONTROL (LIGHTING)

DESCRIPTION

801025-1.1 This item consists of furnishing and installing a FAA L-854 Air-To-Ground Radio Controller to allow pilot control of the new in-pavement heliport perimeter lighting system. The radio controller shall be installed on the new Power Distribution Panel/Control Equipment Rack and wired per the project plans.

EQUIPMENT AND MATERIALS

801025-2.1 GENERAL. Add the following:

- A. Airport lighting equipment and materials covered by FAA specifications shall have prior approval of the Federal Aviation Administration, Airport Service, Washington, D.C. 20591, and shall be certified and listed in the latest Advisory Circular 150/5345-53, Approved Airport Lighting Equipment.

The Contractor shall ascertain that all lighting system components furnished by him/her (including FAA approved equipment) are compatible in all respects with each other and the remainder of the new systems. Any incompatible components furnished by the Contractor shall be replaced by him/her at no additional cost to the sponsor with a similar unit, approved by the Engineer (different model or different manufacturer) that is compatible with the remainder of the heliport lighting systems.

Equipment and materials shall be specified in the Contract Special Provisions and as shown on the plans.

All equipment and materials and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months from the final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced at the Owner's discretion, with no additional cost to the Owner.

- B. All other equipment and materials covered by other referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when requested by the Engineer.

801025-2.2 RADIO CONTROL EQUIPMENT.

The L-854 Radio Control Equipment shall conform to the requirements of FAA Advisory Circular 150/5345-49D (latest edition).

801025-2.3 OTHER ELECTRICAL EQUIPMENT.

Distribution transformers, switches, relays, terminal blocks, circuit breakers, and all other regularly used commercial items of electrical equipment shall conform to the applicable rulings and standards of the Institute of Electrical and Electronic Engineers or the National Electrical Manufacturers Association (NEMA). In all cases, equipment shall be new and a first-grade product.

801025-2.4 WIRE.

The wires shall be of the type, size, number of conductors, and voltage shown on the plans or in the proposal.

- A. **Control Circuits.** Wire shall not be less than #12 AWG and shall be insulated for 600 volts. If telephone control cable is specified, No. 19 AWG telephone cable conforming to ICEA S-85-625-1966 specifications shall be used.
- B. **Power Circuits.** 600 volts maximum—Wire shall be No. 6 AWG or larger and shall be insulated for at least 600 volts.

CONSTRUCTION METHODS

801025-3.1 GENERAL. Add the following:

The Contractor shall furnish, install, and connect all equipment, equipment accessories, conduit, cables, wires, buses, grounds, and support necessary to insure a complete and operable radio control system for the heliport lighting as specified herein and as shown on the plans. The equipment installation and mounting shall comply with the requirements of the National Electrical Code and local code agency having jurisdiction.

801025-3.2 DUCT AND CONDUIT. Add the following:

The Contractor shall supply and install conduit at the dimensions and nominal diameters shown in the plans.

801025-3.3 WIRING AND CONNECTORS. Add the following:

The Contractor shall make all necessary electrical connections in accordance with the wiring diagrams furnished and as directed by the Resident Engineer. In wiring to the terminal blocks, the Contractor shall leave sufficient extra length on each control lead by running each control lead the longest way around the box to the proper terminal. Leads shall be neatly laced in place.

All wiring shall be in compliance with all local and state codes and the “National Electrical Code,” latest edition.

801025-3.4 MARKING AND LABELING. Add the following:

All equipment, control wires, terminal blocks, etc., shall be tagged, marked, or labeled by long-term, durable means and performance.

801025-3.5 TESTING. Add the following:

The installation shall be tested in operation as a completed unit prior to acceptance. Tests shall include resistance, voltage, and current readings, as required by the Project Engineer. Testing equipment shall be furnished by the Contractor. Tests shall be conducted as directed by the Project Engineer and shall be to his/her satisfaction. The Contractor shall be responsible for all equipment and conduit in place. Any equipment or materials found to be defective or damaged shall be replaced by the Contractor at his/her own expense.

METHOD OF MEASUREMENT

801025-4.1 The quantity of radio control equipment to be paid for under this item shall consist of all equipment installed, connected, and accepted as a complete unit ready for operation.

BASIS OF PAYMENT

801025-5.1 Payment will be made at the contract lump sum price for each completed and accepted radio control equipment installation. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AR801025 Radio Control (Lighting) – per lump sum.

ITEM 801026

POWER DISTRIBUTION PANEL AND CONTROL EQUIPMENT WITH RACK AND FOUNDATION

DESCRIPTION

801026-1.1 This item shall consist of furnishing and installing a power and control equipment rack and foundation complete with power panel, utility base and meter, FAA L-854 Air-To-Ground Radio Controller and all conduit, ground rods, miscellaneous power and control wiring as required for its operation. The systems shall be installed at the location and shall conform to the design and dimensions shown on the plans. This work shall include the clearing of the site, erection of the rack and foundations, installation of ground rods and conduits, marking and labeling of equipment, the labeling and tagging of wires, testing of the installation, and the furnishing of all incidentals necessary to place it in operating condition as a completed unit to the satisfaction of the Engineer.

EQUIPMENT AND MATERIALS

801026-2.1 GENERAL.

The equipment, rack, materials, and foundations to be furnished and installed are detailed on the project plans.

All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for a period of at least twelve (12) months from final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.

801026-2.2 CONCRETE.

The concrete for the rack foundations and any potential conduit encasement shall be proportioned, placed, and cured in accordance with Item 610, Structural Portland Cement Concrete, using ¾-inch maximum size coarse aggregate.

801026-2.3 REINFORCING STEEL.

Reinforcing steel bars shall be intermediate or structural grade deformed-type bars and shall meet the requirements of ASTM A 706 and shall be 100 percent domestic origin.

801026-2.4 RIGID STEEL CONDUIT.

Rigid steel conduit and fittings shall be in accordance with Underwriters Laboratories Standard 6 and 514.

801026-2.5 GROUND RODS.

Ground rods shall be copper or copper-clad of the length and diameter specified in the plans.

801026-2.6 OTHER ELECTRICAL EQUIPMENT.

Switches, cutouts, relays, terminal blocks, circuit breakers, and all other regularly used commercial items of electrical equipment not covered by FAA equipment specifications shall conform to the applicable rulings and standards of the Institute of Electrical and Electronic Engineers or the National Electrical Manufacturers Association (NEMA). In all cases, equipment shall be new and a first-grade product.

801026-2.7 WIRE.

The wire shall be of the type, size, number of conductors, and voltage shown on the plans or in the proposal.

- A. **Control Circuits.** Wire shall not be less than #12 AWG and shall be insulated for 600 volts. If telephone control cable is specified, No. 19 AWG telephone cable conforming to ICEA S-85-625-1966 specifications shall be used.
- B. **Power Circuits.** 600 volts maximum – Wire shall be No. 6 AWG or larger and shall be insulated for at least 600 volts.

CONSTRUCTION METHODS

801026-3.1 GENERAL.

The Contractor shall furnish, install, and connect all equipment, equipment accessories, conduits, cables, wires, buses, grounds, and support necessary to insure a complete and operable electrical distribution center for the heliport lighting system as specified herein and shown on the plans. The equipment installation and mounting shall comply with the requirements of the National Electrical Code and local code agency having jurisdiction.

801026-3.2 CONDUIT.

All incoming conduit shall be closed with a pipe plug to prevent the entrance of foreign material during construction. Spare conduit entrances shall be left closed. The Contractor shall supply and install conduit and duct at the dimensions and nominal diameters shown on the plans.

801026-3.3 MARKING AND LABELING.

All equipment, power cables, control wires, terminal blocks, etc. shall be tagged, marked, or labeled by long-term, durable means and performance.

801026-3.4 TESTING.

The installation shall be tested in operation as a completed unit prior to acceptance. Tests shall include resistance, voltage, and current readings, as required by the Project Engineer. Testing equipment shall be furnished by the Contractor. Tests shall be conducted as directed by the Project Engineer and shall be to his/her satisfaction. The Contractor shall be responsible for all equipment and conduit in place which will be connected to the new equipment. Any equipment or materials found to be defective or damaged shall be replaced by the Contractor at his/her own expense.

METHOD OF MEASUREMENT

801026-4.1 The quantity of power distribution and control equipment racks to be paid for under this item shall consist of the number of power distribution and control equipment racks constructed in place and accepted as a complete unit.

BASIS OF PAYMENT

801026-5.1 Payment will be made at the contract lump sum price for each completed and accepted power distribution and control equipment rack installation. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item. The FAA L-854 radio controller shall be paid for under a separate bid item.

Payment will be made under:

Item AR801026 Power Distribution Panel and Control Equipment Rack and Foundation
– per lump sum.

DIVISION VII

TESTING

ITEM 611

COMPACTION CONTROL TESTS

The Work shall be provided in accordance with Item 611 of the Standard Specifications.

ITEM 801027

HELIPORT BEACON

DESCRIPTION

- 101-1.1** This item shall consist of furnishing and installing a new heliport rotating beacon, including mounting platform on top of the existing 4-story Fire Training Tower adjacent to the heliport site.

EQUIPMENT AND MATERIALS

- 101-2.2** **BEACON.** Add the following:
The heliport rotating beacon shall conform to FAA Advisory Circular 150/5345-12F (latest edition), specifically for L-801H Medium Intensity Heliport Beacon, Class 2, with alternating green-white-yellow signal light.

- 101-2.9** **MOUNTING PLATFORM.** Add the following:
The Contractor shall furnish and install an all-weather, durable mounting platform with a flat top measuring at least 12 inches by 24 inches to serve as a location to mount the beacon. The mounting platform shall be securely fastened to the 4-Story Fire Training Tower's concrete sloped roof. The mounting platform shall have sufficient opening and GRS conduits to facilitate the installation of the beacon cabling. The flat top of the mounting platform shall be at least five (5) feet above the peak of the existing roof.

BASIS OF PAYMENT

- 101-5.1** Add the following:
"Payment will be made under:
"Item AR801027 Heliport Beacon – per each."

DIVISION VII

MISCELLANEOUS

ITEM 801028/801030

INSTALL NEW/MODIFY EXISTING SECURITY CAMERA SYSTEMS

DESCRIPTION

SC-1.1

This item shall consist of furnishing and installing new security camera systems (cameras, electronic signal transmission equipment, cabling, etc.) on existing lighting and security camera poles adjacent to the heliport site.

This item shall also include lowering an existing security camera system on an existing non-tapered steel pole and removing the top 11.1' of that existing pole. The existing equipment is currently attached to the pole with stainless steel bands. The associated existing photocall and red obstruction light shall also be lowered 11.1'.

EQUIPMENT AND MATERIALS

SC-2.1 GENERAL.

The new security camera systems to be furnished and installed on existing metal light poles are detailed on the project plans (type, manufacturer, catalog number, etc.) or equal. The security camera system construction shall include all items necessary to construct a complete unit including, but not restricted to, cameras, electronic transmitters, cabling, conduit, connectors, etc.

The Contractor shall ascertain that all security camera system components furnished by him are compatible in all respects with each other and the remainder of the new/existing systems. Any noncompatible components furnished by the Contractor shall be replaced by him at no additional cost with a similar unit, approved by the Engineer (different model or different manufacturer) that is compatible with the remainder of the site security systems.

CONSTRUCTION METHODS

SC-3.1 PLACING CAMERA SYSTEMS.

The security camera systems shall be installed at the locations shown on the plans. The exact location and camera aiming shall be as directed by the Village and the Village's Security System Consultant/Vendor. The Contractor shall exercise caution in the installation of all security camera systems. Any units, equipment or existing facilities damaged by the Contractor's operations shall be repaired or replaced to the satisfaction of the Engineer at no additional cost to the contract.

SC-3.2 MAINTENANCE OF EXISTING SECURITY CAMERA SYSTEMS.

The Contractor shall operationally maintain the existing security camera system on the east side of the site during the various phases of work. The Village would prefer that the existing security camera system remain operational during the lowering of the

equipment. The Contractor shall be responsible for all temporary connections in the field necessary for operation of the existing security camera system during construction.

METHOD OF MEASUREMENT

SC-4.1 The quantity of new security camera systems to be paid for under this item shall be the number of each type installed as completed units in place, ready for operation, and accepted by the Engineer.

SC-4.2 The quantity of existing security camera systems to be lowered in place shall be the number of each type of system lowered in place, ready for operation, and accepted by the Engineer.

BAIS OF PAYMENT

SC-5.1 Payment will be made at the contract unit price for each complete security camera system installed in place by the Contractor and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, assembly, and the installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

SC-5.2 Payment will be made at the contract unit price for each existing security camera system relocated vertically in place by the Contractor and accepted by the Engineer. This price shall be full compensation for furnishing all materials and for all preparation, disassembly/re-assembly, re-installation of existing equipment and installation of new cabling/connectors (if needed). It shall also include payment for the removal of the top 11.1' of the existing steel pole and capping/rust-proofing of the sawed pole top, and for all labor, equipment, tools, and incidentals necessary to complete this item.

Payment will be made under:

Item AT801028 Fixed Security Camera Systems on Existing Pole – per each.

Item AT801030 Lower Existing Pole and Existing Security Camera System – per each.

ITEM 801034

INTERLOCKING CONCRETE BLOCK RETAINING WALL

DESCRIPTION

801034-1.1 This work shall consist of furnishing materials and construction of an interlocking modular concrete block retaining wall (maximum height 3.5' above finished grade) with a metal pedestrian railing in accordance with these specifications and the details shown on the project plans. The wall shall be designed and constructed according to the lines, grades, and dimensions shown on the plans and approved shop drawings.

The modular block wall shall consist of a compacted aggregate leveling pad/base and concrete modular block wall units. If the wall manufacturer needs additional information to complete the design, the Contractor shall be responsible for obtaining such information. The top of the modular block wall shall be designed to prevent the removal of the top course of blocks. The top of the modular block wall shall have a "cap" to help prevent water intrusion and help serve as a base for the railing. All blocks shall have alignment / connection devices such as shear keys, leading/trailing lips or pins. The block set back or face batter shall be limited to 20 degrees from vertical.

A durable, low maintenance railing (3'-6" minimum height) shall be installed along the top of the wall per OSHA requirements. The railing should terminate when the OSHA drop-off requirements are satisfied.

MATERIALS

801034-2.1 MODULAR WALL UNITS.

Wall units shall be produced by a licensed manufacturer. Wall units shall have a minimum 28 day compressive strength of 3000 psi in accordance with ASTM C1372. The concrete units shall have adequate freeze-thaw protection with an average absorption rate (in accordance with ASTM C1372) of 7.5 lbs./cubic foot. Exterior block dimensions shall be uniform and consistent. Maximum dimensional deviations on the height of any two units shall be 0.125 inches. Wall units shall provide a minimum of 110 lbs. total weight per square foot of wall face area. Hollow cores to be filled with wall rock and compacted using a plate compactor on top of the wall units. Exterior face shall be textured. Color to be selected by Owner.

801034-2.2 WALL ROCK.

Material must be well graded compactable aggregate, 0.25 in. to 1.5 in. with no more than 10% passing the #200 sieve.

801034-2.3 BASE / BACKFILL MATERIAL.

The base / backfill material shall be the same as the Wall Rock material or similar granular material to allow ground water to reach the footing / edge drains. The base and backfill material shall be compacted to 95% of the maximum density as determined by AASHTO T99.

801034-2.4 RAILING.

A durable, low-maintenance metal railing (3'-6" min. ht.) shall be installed on top of the modular wall/cap. The limits shall meet OSHA drop off requirements. The metal railing shall meet the requirements of Section 509 of the IDOT Standard Specifications for Road and Bridge Construction (latest edition).

CONSTRUCTION METHODS

801034-3.1 GENERAL.

Install wall units in accordance with manufacturer's instructions and recommendations. Modular block wall units shall be placed in successive horizontal lifts along with backfill placement and compaction. Backfill placement shall closely follow erection of each course of modular block wall units. Backfill shall be placed to avoid damage or disturbance to the wall materials or misalignment of the modular block wall units. Wall materials which become damaged or disturbed during backfill placement shall be either removed and replaced or corrected as directed. All misalignment or distortion of the modular block wall units due to placement of backfill outside the limits described herein shall be corrected as directed.

METHOD OF MEASUREMENT

801034-4.1 Segmental concrete block retaining walls with metal railing shall be measured for payment in linear feet recognizing that the wall height (above grade) varies from zero to 1' to approximately 3.5' in height.

BASIS OF PAYMENT

801034-5.1 Modular block wall units and wall erection will be paid for at the contract unit price per linear foot of erected wall. Capping units, metal railing, bedding and backfill are all incidental to the cost of the wall.

Payment will be made under:

Item AS801034 - Interlocking Concrete Block Retaining Wall – per linear foot.

(END OF SPECIAL PROVISIONS)

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