

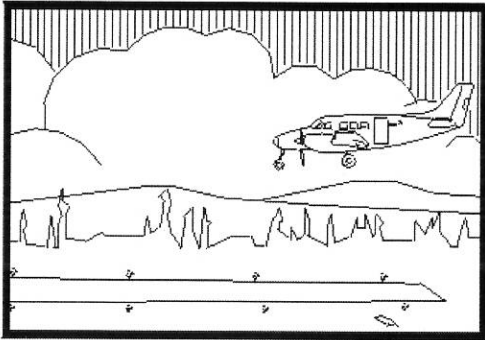
INVITATION TO BID

MAINTENANCE & OPERATIONS

SPECIFICATIONS & BID DOCUMENTS

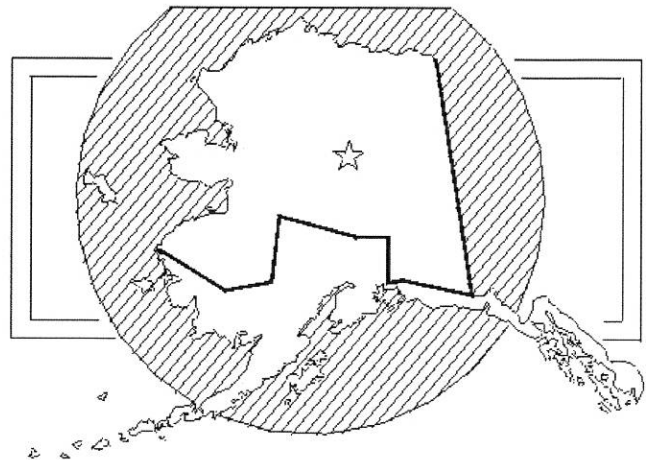
PROJECT: Rural Airport Maintenance Contract – Birch Creek Airport, Alaska

PROJECT NO. 2516N033



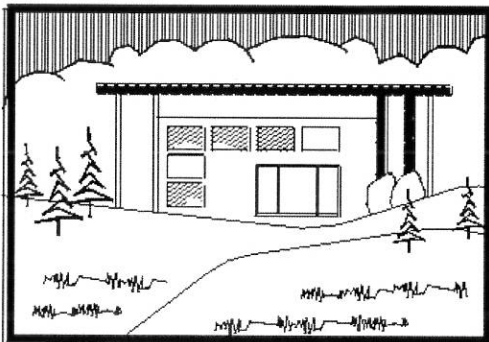
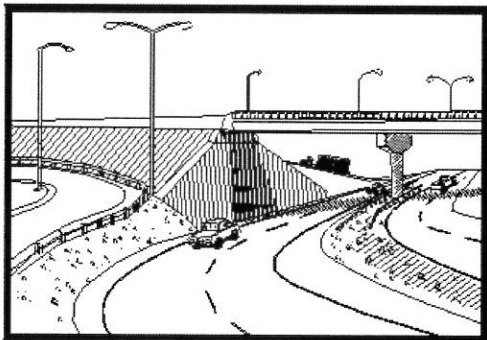
STATE OF ALASKA

Department of Transportation
And Public Facilities



Northern Region

DATE: June 14, 2016



INVITATION FOR BIDS**Reference Project No:** 2516N033**Date:** June 14, 2016

Name and Location of Project:

Rural Airport Maintenance
Birch Creek Airport
Birch Creek, Alaska

Department or Agency:

State of Alaska
Department of Transportation and Public Facilities
Procurement

Procurement Officer: Leisha Ray, Northern Region**Issuing Office:** DOT&PF, 2301 Peger Road, Fairbanks Alaska 99709

Description of Work: The work shall consist of routine summer and winter maintenance of all runways, taxi-ways, aprons. State-owned equipment and State-owned buildings located on the airport facility, in accordance with the contract specifications.

Contract Period: From date of award through June 31, 2017, with the option to renew for five (5) additional (1) one-year periods, at the sole discretion of the State.

Sealed bids, in single copy for performing all work required for the above project are hereby invited. ***Bids will be opened publicly at 10:00 AM local time, at 2301 Peger Road, Fairbanks, Alaska, on July 6, 2016.***

SUBMISSION OF BIDS

ALL BIDS INCLUDING ANY AMENDMENTS OR WITHDRAWALS MUST BE RECEIVED PRIOR TO BID OPENING. BIDS SHALL BE SUBMITTED ON THE FORMS FURNISHED AND MUST BE IN A SEALED ENVELOPE MARKED AS FOLLOWS:

YOUR ADDRESS & PHONE NUMBER**Project Name & Number:**

Rural Airport Maintenance Services
Birch Creek, Alaska
ITB Number: 2516N033

State of Alaska
Department of Transportation
& Public Facilities
2301 Peger Road
Fairbanks, Alaska 99709-5399

Bids, amendments or withdrawals may be submitted by fax, hand delivered, or mailed in a sealed envelope. Confidentiality can only be assured for sealed quotes. Bids transmitted by mail must be received at the above-specified address no later than the scheduled time of bid opening. Hand delivered or faxed bids, amendments or withdrawals must be received by the Procurement Officer listed on this ITB, prior to the scheduled time of bid opening. Facsimile communications must be addressed to **Leisha Ray** Fax No. (907) 451-5238.

The Department hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this Invitation, Disadvantaged Business Enterprises (DBEs) will be afforded full opportunity to submit bids and will not be discriminated against on the grounds of race, color, national origin or sex in consideration for an award.

NOTICE TO BIDDERS

Bidders are hereby notified that data to assist in preparing bids is available as follows:

The Contractor is hereby notified that all records pertaining to the development of this project are available for inspection at the Department of Transportation and Public Facilities, Supplies and Services, 2301 Peger Road, Fairbanks, AK 99709.

Plans and Specifications may be obtained upon request from:

Department of Transportation & Public Facilities

Leisha Ray

2301 Peger Road

Supply & Services Section

Fairbanks, Alaska 99709-5399

leisha.ray@alaska.gov

Phone: (907) 451-5236

All questions concerning bidding procedures should be directed to the Procurement Officer.

Bidders requesting assistance, either in viewing the project or obtaining pre-bid information, must make arrangements at least 48 hours in advance with the Project Manager:

Tom Williams

Northern Region Denali District Superintendent

Department of Transportation & Public Facilities

2301 Peger Road

Fairbanks, AK 99709

Phone: (907) 451-2226

REQUIRED FOR BID

Bids may not be considered if the following documents are not completely filled out and submitted at the time of bid opening:

1. Proposal Form
2. Contractor's Questionnaire
3. Contract Technical Specifications— ***Each page of the Contract Technical Specifications MUST be initialed by the Contractor showing that they have read, understand and will comply with the terms of the contract. If this document is not fully initialed your bid may be deemed non-responsive and rejected.***

CONTRACTOR'S QUESTIONNAIRE

PROJECT NAME: Rural Airport Maintenance Contract, Birch Creek Alaska

PROJECT NUMBER: 2516N033

Contractor shall provide complete and adequate information to the questions set forth below, to facilitate a determination of responsiveness and responsibility.

Contractors are to use supplemental pages if needed, to provide complete responses to the questions asked. General statements such as "As Required" or "As Needed" are NOT considered complete or adequate responses.

All information is considered essential, and failure to provide a response will be justification for rejection of the bid.

1. Name of Firm: _____

Mailing Address: _____

Location Address: _____

Business Telephone Number: _____

Type of Business: (Check One)

	<u>TITLE</u>	<u>NAME</u>
_____ Sole Owner	_____	_____
_____ Partnership	_____	_____
_____ Joint Venture	_____	_____
_____ Corporation (Membership Organization)	_____	_____

NOTE: FAILURE TO COMPLETE ALL ITEMS IS JUSTIFICATION TO REJECT BID.

CONTRACTOR'S QUESTIONNAIRE (Continued)

2. List all principals in the company and their work experience in the performance of Airport Maintenance Services:

3. Is Airport Maintenance Services a Full Time _____ or a Part Time _____ business of the Bidder? (Check One)

4. Airport Maintenance Contracts presently being performed by the Bidder:

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

All other Contracts performed by the Bidder during the past two years:

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

Contract Description _____

Reference Contact _____ (Required); Telephone No. _____ (Optional)

NOTE: FAILURE TO COMPLETE ALL ITEMS IS JUSTIFICATION TO REJECT BID.

5. List of Equipment owned and to be dedicated to this Contract:
(Contractor-Furnished Contracts Only)

<u>Item</u>	<u>Age</u>	<u>Condition</u>	<u>Number Required</u>
(Example: JD 450 Crawler Tr.	3 yrs.	Good, Reconditioned, 6 mo ago	1 each)

NOTE: CONTRACTORS MUST LIST ALL EQUIPMENT NEEDED TO PERFORM THIS CONTRACTUAL REQUIREMENT, TO INCLUDE, BUT NOT LIMITED TO, THE 2-WAY AIR-TO-GROUND RADIO AND A 35 MM CAMERA.

6. Supplies/Material Date: (List all items to be furnished, which were considered a cost item in the bid preparation.)

NOTE: FAILURE TO COMPLETE ALL ITEMS IS JUSTIFICATION TO REJECT BID.

SITE VISIT AFFIDAVIT

I Certify that the following named individual(s) conducted a pre-bid visit of the Airport as required in Paragraph 1. C., Special Information, of the Instructions To Bidders Section (Page 1).

Signature

Date

Printed or Typed Name and Title

Date(s) and individual(s) that visited site:

Name: _____ Date: _____

Name: _____ Date: _____

Name: _____ Date: _____

Name: _____ Date: _____

NOTE: FAILURE TO COMPLETE ALL ITEMS IS JUSTIFICATION TO REJECT BID.

MAINTENANCE CONTRACT (See instructions on reverse)	CONTRACT NO. 2516N033
	DATE OF CONTRACT
NAME AND ADDRESS OF CONTRACTOR	CHECK APPROPRIATE BOX ☐ Individual ☐ Partnership ☐ Incorporated in the State of ☐ Joint Venture
DEPARTMENT OR AGENCY: State of Alaska, Department of Transportation and Public Facilities	
CONTRACT FOR (Work to be performed): The routine summer and winter maintenance of all runways, taxiways, aprons, State-owned equipment and State-owned buildings located on the airport facility, in accordance with the Contract Specifications.	
LOCATION: Birch Creek, Alaska	
AMOUNT OF CONTRACT (Express in figures):	
ADMINISTRATION DATA (optional) Federal Tax ID Number: N/A	
THIS CONTRACT, entered into this date by the State of Alaska, hereinafter called the State, represented by the Procurement Officer executing this contract, and the individual, partnership, or corporation named above, hereinafter called the Contractor, witness that the parties hereto do mutually agree as follows: STATEMENT OF WORK: The Contractor shall furnish all labor, and if required, equipment and materials, and perform the work above described for the amount stated above in strict accordance with the specifications and conditions all of which are made a part hereof and designated as follows: CONTRACT PERIOD: Date of Award through June 31, 2017, with the option to renew under the same Terms and Conditions. Renewals to be exercised solely at the State's discretion. PROJECT MANAGER: Tom Williams PHONE: (907) 451-2226 FAX: (907) EMAIL: frederick.williams@alaska.gov	
CONTRACT EFFECTIVE DATE: Date of Award	CONTRACT EXPIRATION DATE: June 31, 2017

In witness whereof, the parties hereto have executed this contract as of the date entered on the first page hereof.

STATE OF ALASKA

CONTRACTOR

By: _____
 (Signature)

 (Typed or Printed Name)

 NR Procurement Officer
 (Title)

 (Date)

By: _____
 (Signature)

 (Typed or Printed Name)

 (Title)

 (Date)

INSTRUCTIONS

1. This form shall be used, as required by State regulations, for contracts for the construction, alteration, or repair of public buildings or works.
2. The full name and business address of the Contractor must be inserted in the space provided on the face of the form. The Contractor shall sign in the space provided above with his usual signature and typewrite or print name under all signatures to the contract and bonds.
3. An officer of a corporation, a member of a partnership, or an agent signing for the Contractor shall place his signature, typed or printed name, and title after the word "By" under the name of the Contractor. A contract executed by an attorney or agent on behalf of the Contractor shall be accompanied by two authenticated copies of his power of attorney, or other evidence of his authority to act on behalf of the Contractor.

**NORTHERN REGION MAINTENANCE & OPERATIONS
AIRPORT MAINTENANCE
CONTRACT TECHNICAL SPECIFICATIONS**

(I) INTENT OF CONTRACT

The intent of the contract is to provide all duties necessary to maintain the **Birch Creek Airport** during the term of this contract. Work shall consist of routine summer and winter maintenance as specified in the scope of this contract by a Department of Transportation Representative which includes but not limited to airport area maintenance, preventative maintenance on State owned equipment, building structures, roadways and bridges located on airport property unless otherwise designated.

During the course of this agreement and in accord with the terms of this contract, the Contractor will coordinate with and take direction from the State Representative or his/her designee for the area identified within this contract. This is an integrated contract between the State and the Contractor. This contract may only be amended by a change order solely initiated by the State of Alaska. This contract is severable, if one provision of this contract is found to be unenforceable; it shall not relieve the Contractor from performing all other provisions of this Contract.

(II) CONTRACTOR CONFORMITY

Each page of the Contract Technical Specifications must be initialed by the Contractor showing that they have read, understand and will comply with the terms of the contract. Any page that is not initialed shall be addressed with the Contractor for verification that an error was not made. If the contractor refuses to initial any page of these specifications this may be cause for the state to reject the bid.

(III) ALTERATION OF WORK AND QUANTITIES

AKDOT reserves the right to make alterations of work and quantities as necessary or desirable to complete the work originally intended in an acceptable manner. Alterations of work and quantities that are within the original scope of the contract shall be covered by "Change Orders".

Should the alteration of work not be part of the original scope of work, such excess altered work shall be covered by a Contract Change Order. The Contractor and the State Representative shall agree on a cost for the excess altered work. If the Contractor and the State are unable to agree on a unit adjustment, the AKDOT reserves the right to make other arrangements for its completion.

(IV) EXTRA WORK

Should the contract require the Contractor to perform an item of work for which no basis of payment has been provided in the original contract, previously issued change orders or supplemental agreements, the same shall be called Extra Work. Extra Work that is within the general scope of the contract shall be covered by written change order. Change orders for such extra work shall contain agreed unit prices for performing the change order work in accordance with the requirements specified in the order.

Extra work that is necessary for acceptable completion of a project, but is not within the original scope of work shall be covered by a Contract Change Order. Any claim for payment of extra work that is not covered by a change order or a supplemental agreement shall be rejected by AKDOT.

(V). **Contract Work Area:**

All runways, state access roads, bridges, parking aprons, taxiways, lighting systems, wind cones and State Buildings within the airport boundaries.

(VI). **Contract Terms and Conditions:**

The Contractor will provide the services required under the terms of this Maintenance Contract from **Date of Award through June 31, 2017, with the option to renew for five (5) additional one-year renewal options solely at the discretion of the State.**

(VII). **Work Period:**

It is the intent of this Contract that the Contractor perform all duties necessary to maintain and operate the **Birch Creek Airport** during the term of this Contract. The airport shall be kept accessible **7 days a week, 365 days per year**, unless an emergency or routine maintenance prevents the airport from being open. To the greatest extent practical, the Contractor is to provide that level of performance, which will insure the safe and convenient use of the airport by the public.

(VIII) **CONTRACTOR AND EMPLOYEE QUALIFICATION**

The Contractor, subcontractors, and all employees shall be capable and experienced in operation of heavy equipment and preferably have some type of aviation background. This experience can either be work experience at an airport and/or a pilot's license. The Contractor shall submit a list of qualified personnel who will be operating equipment. The State reserves the option to conduct an equipment operation test of any person operating the State equipment in order to determine competency. The State reserves the right to require the removal of any worker from the work area whom it deems incompetent, insubordinate, or otherwise objectionable.

(IX) **REPRESENTATIVE**

The Contractor or a competent representative will be available to the job site at all times during the period of the contract. A competent representative must be empowered to act for the Contractor and must be fluent in both written and spoken English to adequately perform the contracted services. The Contractor shall furnish and update, as appropriate, a telephone number and answering machine or a reliable message phone number by which the Contractor or his authorized representative can be contacted in order to respond to an unusual condition or accident at the airport. If the Contractor has a representative to perform daily maintenance, the Contractor (principal officer) must personally perform one on-site inspection every two- (2) weeks from **October 1 through April 30** and monthly inspections for the remainder of the year with a record of the inspections submitted to the Airport Manager. Failure to do so may result in the termination of the contract. When the Contractor absents himself from his normal place of business, the Contractor shall, prior to absencing himself, provide the State Representative with the business and/or personal telephone numbers of a competent person who has full authority to act for the Contractor in the conduct of this contract. **The Contractor shall make a reasonable attempt to contact the Airport Manager or his designee at least once per week to report current conditions and status. This may be done via email, telephone or fax.**

(X) **AUTHORITY OF STATE REPRESENTATIVE**

The State Representative or his/her designees shall address any and all questions which may arise as to the quality and acceptability of work performed. The State Representative shall decide on all questions, which may arise as to the interpretation of the specifications or plans relating to the work, and the fulfillment of the contract on the part of the Contractor.

(XI) INSPECTION OF WORK

All materials and each part or detail of work shall be subject to inspection by the State Representative or his/her designee. The State Representative shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection.

(XII) DEFECTIVE WORK (DAMAGE AND PROTECTION)

Deficiencies in the work observed during inspection of the facility by the State Representative or his/her designee will be brought to the Contractor's attention by written departmental notification. If, in the discretion of the Department, the Contractor has presented a hazardous situation that could result in injury to the public and/or Departmental Employee, the Department reserves the right to immediately correct the deficiency, using the most expedient method available (Department employee or private contractor), and deduct the costs incurred from monies owed the Contractor. Should the Department be forced to hire outside forces all costs will be deducted from the Contractor payments. The Contractor shall, at his own expense, remedy and correct any defect in his work or in articles which he provides in connection with the defect as it is brought to his attention. He shall, without additional cost to the Department, make good and be fully responsible for all injury or damage to persons or property, which may result from his fault or negligence or that of his employees. This includes damages resulting from the use of materials and equipment or from workmanship which is inferior, defective, or not in accordance with the terms and conditions of this contract. If the Contractor fails to meet the above requirements and fails to correct such deficiency within the time set forth by the State Representative, the Department may terminate the contract and/or obtain the contract services from other sources and hold the original Contractor responsible for any excess costs and deduct these costs from any payments due the Contractor.

(XIII) CONTRACTOR RESPONSIBILITIES

A. Work Outline:

The Contractor will be responsible for the services described below unless the State's Representative modifies the scope of work through a change order or a supplemental agreement.

B. Daily Inspection Services:

The Contractor shall conduct daily inspections of the airport by using a State provided Daily Inspection Checklist. This completed checklist shall be kept on record for 12 months. The checklist shall note items that need repair, cleaning or replacement. The list will be used for reference when the Contractor performs maintenance in accordance with the terms of this contract. It should also be used as a reference when the Contractor notifies the State's Representative of problems or conditions beyond the Contractor's capability. The Contractor shall conduct daily inspections of the airport and roadway(s) and note the following on a written list:

1. Operation of lighting systems and/or reflective cones, broken or burned out or missing equipment. If four lights in a row or eight lights total are inoperative and cannot be repaired and/or replaced, the contractor will issue a Notice to Airman (NOTAM) to the appropriate Automated Flight Service Station (AFSS) or contact the State Representative in order to enable the representative to issue an appropriate Notice to Airman (NOTAM) placing the airport lighting system out of service.

2. General conditions of the runway surface, parking apron, taxiway, roads, windsock(s), threshold panels and drainage. During the inspection particular emphasis should be given to potholes, icy or slippery conditions, the windsock(s) and the debris on or near these areas and/or structures. All deficiencies shall be repaired and/or removed as required.
3. Contractor must be familiar with the location of all usable aircraft tie downs provided by the State. This will allow the Contractor to make these tie downs available for a reasonably coordinated request.
4. The contractor shall report discrepancies requiring state maintenance support to the State Representative as soon as possible.

C. **Trash Removal:**

The Contractor shall provide, as needed, trash removal at the airport. Trash/debris shall be collected and removed from the airport and roadway property. Trash shall be disposed of at the nearest local sanitary landfill approved for disposal of garbage. The Contractor shall not allow trash to accumulate on State Property.

D. **Tools and Miscellaneous Supplies:**

The Contractor shall be responsible for furnishing and maintaining all minor hand tools and related safety equipment necessary for performance of this contract. The Contractor shall also furnish the following supplies: hand cleaner, paper towel, plastic liners for trash and any other minor supply items necessary for day to day compliance with this contract. The State shall furnish supply items such as fuel, oil, lubricants, antifreeze and associated filters for use on all State supplied equipment. Cutting edges and fasteners will also be provided for state equipment. All items that are the responsibility of the contractor must be included in the overall contract cost.

E. **Supply and Equipment Storage:**

State-owned storage space may be available for storage of State-owned equipment, materials, and supplies used in the performance of this contract only. Items other than those owned by the State shall not be stored State Building without **written** consent of the State Representative. The Contractor shall maintain all building spaces in a neat and orderly manner at all times.

Prior to parking inside the Snow Removal Equipment Building (SREB), all equipment shall be cleared of excess snow and debris

If the airport has a heated equipment storage building, the State may fill the fuel storage tanks as required with heating fuel. This will normally be accomplished at the beginning of each contract year unless otherwise specified by the Airport Manager. Thermostat settings shall be kept between 40 degrees and 50 degrees to keep the equipment at operating condition level. The Contractor shall maintain the storage space in a neat and orderly manner at all times. If equipment is not in use for extended periods, heaters should be turned off to conserve fuel.

The Contractor shall not use the electrical equipment room for storage. Storage of equipment, supplies, tools, etc. inside the electrical equipment room is prohibited.

F. **Notice To and Relations with the Public:**

The Contractor shall post in a readily visible and conspicuous location, outside of the airport maintenance facility or at the local Post Office, the name of the individual representing the Contractor. (**See Attachment D**)

This notice shall include telephone number(s), and/or physical location(s) where the representative may be contacted for the reporting of complaints or requests for information. This notice shall be maintained during the term of the contract.

During contract related communications with the public, the Contractor will assure that all its representatives promote courtesy. During discussions and meetings, the Contractor will assure all involved are aware that the primary function of the airport is to provide a safe and usable transportation base for the public.

G. **Maintenance Functions:**

1. The Contractor will provide assistance to State employees dispatched to the airport for maintenance and/or repairs. The support will include but is not limited to:
 - a) assist with troubleshooting problems prior to and upon arrival.
 - b) assist state employees with local arrangements and equipment as necessary to perform repair and maintenance work.
2. The Contractor will perform minor building maintenance as necessary to ensure the safety of the building and State property. The minor maintenance may include but is not limited to:
 1. Temporary corrective action for roof leaks;
 2. Overhead door adjustments;
 3. Personnel door repair/adjustment;
 4. Furnace filter replacement;
 5. Minor Carpentry;
 6. Component Replacement;
 7. Change light bulbs;
 8. Replacement of door weather-stripping;
 9. Window repairs;
 10. Fuel system inspections including tank sticking and water detecting.

H. **FALL AND WINTER MAINTENANCE**

(A.) **Airport:**

- (1.) The Contractor shall begin snow control efforts at a time no later than when two (2) inches of snow or slush has accumulated on runway or taxiway surfaces. In all cases, the contractor shall begin snow removal efforts with sufficient time to allow completion of normal snow removal on the runway, taxiway and apron surfaces before the first scheduled air carrier flight departure or arrival. Snowdrifts and berms will not be allowed to develop on the airport's aircraft movement areas (inside the edge lights or cones) unless the storm is so severe that reasonable efforts to remove snow are unsuccessful. In these conditions, the Contractor may cease

snow removal operations until the storm subsides to the point where snow removal efforts are effective. If such a condition develops the contractor will issue a Notice to Airman (NOTAM) to the appropriate Automated Flight Service Station (AFSS) or contact the State representative in order to enable the representative to issue an appropriate Notice to Airman (NOTAM) describing the condition.

Note: *The State Representative may require the Contractor to issue NOTAMS directly to the FAA's Flight Service Station (FSS), under certain circumstances.*

- (2.) Runway(s) and taxiway(s) shall be plowed free of loose snow full width and length. Snow shall be placed off aircraft movement areas so as not to create any hazardous conditions, future drifting and maintenance problems.
- (3.) Apron(s) will be plowed free of loose snow. Snow control on apron(s) will begin after the runway(s) and taxiway(s) have been plowed.
- (4.) Loose snow must be removed from the threshold markers, runway lights and/or reflectors using caution to avoid damaging or destroying these fixtures. Snow/frost will be cleaned from VASI lights and threshold panels daily as necessary.
- (5.) After snow control efforts are completed all equipment will be returned to the SREB.
- (6.) When present, slush shall be removed from the runway unless the surface is soft enough for the equipment to cause rutting. During spring break up or periods of heavy rain; runway, taxiway and apron shoulders and adjacent ditches will be cleared to assist drainage.
- (7.) A copy of the October 28, 1986, "Airport Marking Standards for Unpaved Airports" is included as Attachment "A" to this contract. The Contractor will assure all cone markers or visibility enhancers and marker panels are positioned on the airport in accordance with these standards.

(B.) **Roadways:**

- (1.) Snow plowing operations will begin on roads only after airport snow control efforts have been completed.

Snow control on roads need not begin until four (4) inches of loose snow has accumulated on the surface. Once roadway snow control has begun, snow and ice will be removed to the greatest extent reasonably possible.
- (2.) During spring break up and periods of heavy rain, road shoulders and ditches will be graded and any debris removed to assist drainage.
- (3.) If provided by the State, culvert thaw wires will be activated by the Contractor when surface ice appears in drainage ditches and

be de-activated by the Contractor when spring thaw has begun. The Contractor will notify the State Representative **BEFORE** activating any thaw wires.

(C.) (1.) **Signs, Lights, Markers, & Reflectors:**

The State is responsible for the initial placement of windsocks, threshold markers, runway lights, reflectors, and signs. The Contractor will be responsible for replacing any damaged, missing, or burnt out items of this type in accordance with the attached Airport Marking Standards for Unpaved Airports. Light lens **MUST** be replaced with the same color and style as the original.

Runway and taxiway lighting repairs by the contractor will be limited to those items on the lights above ground level unless there is direct coordination with the State Representative and consultation with an electrician.

The Contractor will request from the State representative any materials necessary to repair or replace these items. The State will provide these materials unless the damage is due to negligence on part of the Contractor. In the event these items are damaged by the Contractor negligence, the Contractor will replace these items at no additional cost to the State.

During the Contractor's routine inspections, any of these items needing repair will be marked on the inspection checklist.

(D.) **Runway Conditions and Closure Procedures:**

- (1.) Before beginning snow removal the Contractor shall contact the Automated Flight Service Station (AFSS) or the State Airport Representative to issue a Notice to Airman (NOTAM) stating "Personnel and Equipment on the Runway". When the work is completed the NOTAM shall be canceled by contacting the AFSS or State Airport Representative.
- (2.) Before entering the runway, the Contractor shall make a "blind" radio transmission on the appropriate Common Traffic Advisory Frequency (CTAF) to announce his/her intentions. *For example: "Birch Creek Traffic, State Maintenance Grader is on the runway removing snow."* After completing his/her work operation on the runway he will make a subsequent "blind" notice of his/her departure.
- (3.) If at any time the Contractor determines that the runway is unsafe for use by aircraft, he shall contact the State Airport Representative or Automated Flight Service Station (AFSS) by the quickest means possible to inform them of the unsafe condition(s) and/or runway closures.
- (4.) If it is necessary to close the runway due to unsafe conditions, climatic conditions, or work in progress the State Airport Representative shall be notified immediately.

I. **SPRING AND SUMMER MAINTENANCE**

(A.) **Airport:**

- (1.) All areas on the airport where aircraft operate, except private leasehold property, will be maintained clear of rocks two (2) inches or more in diameter and any foreign objects. These areas will be maintained free of holes or depressions that exceed 3 inches in depth which may affect directional control of an aircraft. Should potholes, ruts, etc. develop, they will be smoothed out as soon as possible.
- (2.) Once each summer, all brush and weeds will be cut around the runway, ramps, taxiways, runway and taxiway lighting and threshold markers and the SREB. The Contractor shall conduct minor brush cutting one hundred (100) feet beyond the edges of the runway and one thousand (1,000) feet beyond the thresholds/ends, unless these dimensions encroach upon other than airport property, in which case, cutting will terminate at the property line. All major brush cutting will be at the discretion of the State and will be directed either by a Supplemental Agreement or new bid process.
- (3.) Once during the spring and once during the fall, the contractor will assist the State Representative with full length and width grading of gravel surfaces. This shall be done to maintain smooth and consistently level surfaces in aircraft maneuvering areas.
- (4.) Should potholes, ruts, or similar surface features develop, they shall be back filled and compacted with approved runway surface material.

(B.) **Drainage Ditches - Culverts:**

All drainage ditches and culverts will be cleared of any debris that might obstruct drainage. The Contractor will notify the State Representative if during routine inspection, a collapsed, blocked or otherwise obstructed culvert is discovered which is beyond the Contractor's ability to repair.

(C.) **Roads:**

- (1.) The Contractor will assist a State Representative to maintain roadways in a smooth graded state over the entire width of the existing road surface. Roadways shall be crowned and sloped to allow proper drainage.
- (2.) The roadway surface will be kept free of rocks three (3) inches or more in diameter.
- (3.) All brush or trees must be maintained cut to ground level for a minimum distance of eight (8) feet from the edge of the traveled roadway surface.
- (4.) Equipment will not be driven outside the limits above for clearing purposes without proper coordination with the State Representative for permitting purposes.

(D.) **Bridge Maintenance:**

After spring breakup, the Contractor shall perform a thorough inspection of any bridges and associated apparatuses including approaches and decking. The Contractor will perform minor maintenance on any State bridges that are on roadways covered by the terms of this contract. This maintenance will involve washed-out approaches, replacing deck planks or guardrail sections. If bridge repair is necessary, the State will provide all materials for the Contractor to use when repairing bridge(s). If during routine inspection the Contractor notes major damage to bridge(s), the Contractor will immediately notify the State Representative.

(E.) **Signs, Lights, Markers, & Reflectors:**

The State is responsible for the initial placement of windsocks, threshold markers, runway lights, reflectors, and signs. The Contractor will be responsible for replacing any damaged, missing, or burnt out items of this type in accordance with the attached Airport Marking Standards for Unpaved Airports. Light lens **MUST** be replaced with the same color and style as the original.

Runway and taxiway lighting repairs by the contractor will be limited to those items on the lights above ground level unless there is direct coordination with the State Representative and consultation with an electrician.

The Contractor will request from the State representative any materials necessary to repair or replace these items. The State will provide these materials unless the damage is due to negligence on part of the Contractor. In the event these items are damaged by the Contractor negligence, the State of Alaska will supply replacements with the cost to be deducted from monies owed to the Contractor and the Contractor will physically replace these items at no additional cost to the State.

During the Contractor's routine inspections, any of these items needing repair will be marked on the inspection checklist.

(F.) **Runway Conditions and Closure Procedures:**

(1.) Before beginning any work on the runway the Contractor shall contact the Automated Flight Service Station (AFSS) or the State Airport Representative to issue a Notice to Airman (NOTAM) stating "Personnel and Equipment on the Runway". When the work is completed the NOTAM shall be canceled by contacting the AFSS or State Airport Representative.

(2.) Before entering the runway, the Contractor shall make a "blind" radio transmission on the appropriate Common Traffic Advisory Frequency (CTAF) to announce his/her intentions. *For example: "Birch Creek Traffic, State Maintenance Grader is on the runway grading the surface."* After completing his/her work operation on the runway he will make a subsequent "blind" notice of his/her departure.

(3.) If at any time the Contractor determines that the runway is

unsafe for use by aircraft, he shall contact the State Airport Representative or Automated Flight Service Station (AFSS) by the quickest means possible to inform them of the unsafe condition(s) and/or runway closures.

- (5.) If it is necessary to close the runway due to unsafe conditions, climatic conditions, or work in progress the State Airport Representative shall be notified immediately.

J. General Year Round Issues

(A.) Aircraft Accident at the Airport:

(1.) If there is an aircraft accident or incident on the airport, the State Representative must be notified as soon as possible.

(a.) In the event a major accident occurs where serious injuries, or fatalities are involved, the Contractor will attempt to rope off the immediate area of the accident in an effort to keep unauthorized persons away. The Contractor will attempt to prevent persons from entering the accident area, except for law enforcement officers, local rescue and medical personnel, National Transportation and Safety Board (NTSB) representatives, State Division of Risk Management, and DOT/PF representatives.

(b.) The Contractor shall provide as much information as possible to the State Representative concerning the accident. It is imperative that the weather and runway conditions be noted at the time of the accident. Photographs shall be taken of the accident aircraft, the surrounding area and any scattered pieces of wreckage. Pictures shall be taken from four (4) different directions, to provide a perspective of the accident from all viewpoints.

(c.) The State Representative will assist the Contractor in completing a DOT/PF furnished aircraft accident report form.

(B.) Storing and Ordering Supplies:

The Contractor is responsible for assuring all supplies and parts are stored properly labeled and stocked in a safe and practical manner. This includes new and used fuels, oils and lubricants, and replacement parts. The Contractor shall notify the State Representative when parts and supplies are required, in a manner to assure timely procurement and delivery. The Contractor shall not order fuel from any source other than the State Representative. If fuel is ordered other than through a State Representative the Contractor shall be financially responsible and no reimbursement shall be made.

(I.) Vandalism:

The Contractor will, to the best of its ability, protect all airport property from damage or vandalism and promptly inform the State Representative and local law enforcement of any such occurrence.

(J.) **Traffic Flow:**

The Contractor will perform the required services to assure a minimum amount of interference with aircraft or vehicle operations. The Contractor must clear the runway and move all equipment outside the lights when advised or aware that an aircraft needs to land or depart. In the event there is a safety reason for not complying, the contractor shall immediately notify the landing aircraft of the situation.

(C.) **Inventory of Station Materials:**

The Contractor will be responsible for the sensible use of State supplied materials, supplies, and parts shipped to the station. The Contractor will also maintain an inventory list of these items. The Contractor will note on the list whenever new items are received and added to the inventory, and when an item has been used.

(D.) **Employment:**

The Contractor, if an individual, shall report other employment on the attached Notification of Employment Statement. This Statement must be forwarded to the Contracting Officer listed on this contract.

(E.) **Taxes:**

The Contractor shall pay any federal, state, or local taxes incurred by it during performance of this contract.

(F.) **Assignment of Contract Responsibilities:**

The Contractor shall not assign this contract without the prior written consent of the State. Any assignment will be considered void without the State's consent.

(G.) **Other Equipment Used or Leased by Contractor:**

Unless authorized by the State, if the Contractor leases any equipment from third parties for the performance of this contract, the Contractor will be solely responsible for reimbursement of any expense or liability associated with the rental agreement.

(H.) **Training**

The Contractor and any subcontractor may be required to attend Airport related training. The State will notify the Contractor of the required training and will make all travel arrangements. All costs incurred will be the responsibility of the State. Refusal to participate in State of Alaska provided training may result in termination of the contract. Contractors who fail to provide timely notification of cancellation of training attendance may be held financially responsible for the cost of the training.

(I.) **Pre-existing Damage Inspection**

The Contractor shall perform an initial inspection of all State buildings, lighting systems, tanks and equipment associated with this contract for pre-existing damage. The Contractor shall document identified damage and submit the list to the State Representative within one (1) week of contract activation.

(A.) **Maintenance of State Equipment:**

Only persons authorized by the State representative shall operate State furnished equipment. The Contractor shall assure that State furnished equipment is used only for airport and road maintenance associated with this contract. The Contractor will comply with the following:

- (1.) Check coolant, hydraulic system, battery, air filter gauge and oil levels before starting equipment to be certain that all are in the recommended operating range.
- (2.) The equipment will be greased a minimum of once per week when being used. Transmission and final drives must be checked at this time. Check and/or replace oil and oil filters at factory recommended intervals. Used oil and oil filters shall be stored in suitable leak-proof containers within the equipment storage building. Check air filter gauges and inspect cutting edges and bolts as necessary. No material shall be dumped within or outside the building. The State will be responsible for disposal of these materials.
- (3.) Hour meter readings for each piece of equipment shall be recorded on the attached Daily Checklist.
- (4.) Prior to parking inside the Snow Removal Equipment Building (SREB), all equipment shall be cleared of excess snow and debris.
- (5.) Cutting edges will be changed whenever they are worn to within 1/4 inch of the moldboard.
- (6.) The fan belt and alternator belt shall be tight for proper cooling and battery charging. Should batteries become discharged they will be protected from freezing.
- (7.) Before freeze up begins, the State Equipment Fleet will fill equipment with an antifreeze mixture that assures protection to at least minus 50 degrees Fahrenheit. At this time, a check of the radiator and all hoses for leaks and loose hose clamps shall be made. Used antifreeze shall be collected and stored in suitable leak-proof containers. No waste material shall be dumped within or outside the building. Inspect and test cranking and charging systems and all accessory heaters.
- (8.) Air cleaners must be checked and cleaned after or during each operation if conditions are severe. Otherwise, on heavy equipment, check every sixteen- (16) hours of use.
- (9.) All vertical exhaust pipes (stacks) shall be protected with rain caps or otherwise protected when the equipment is not being operated.
- (10.) If there are any problems with equipment that the Contractor is unable to repair, the Contractor will advise the State Representative immediately. For example: If the cutting edges of a blade are worn, after notification, replacement edges will be sent to the Contractor who will replace the worn edges. If the

Contractor is unable, for any reason, to perform work of this type the State representative shall be notified.

- (11.) The Contractor shall provide his own tools for performing routine equipment maintenance on State supplied equipment. During non-routine maintenance such as an engine replacement, State crews with appropriate tools will be sent to the site to accomplish the work.
- (12.) During the term of this contract, the State may add, delete or substitute items of equipment. However, all such changes will be reasonable and not add to the Contractor's maintenance burden.
- (13.) The State shall furnish all necessary fuel, oil, other lubricants, antifreeze and associated filters for use on all State supplied equipment. The Contractor is responsible for these items when Contractor furnished equipment is required and/or used in accordance with the terms of this contract.
- (14.) In the event the Contractor or Contractor's Representative causes a spill of fuel or other contaminate, the contractor is responsible for reporting, containing, and cleanup of the spill. All costs associated with the cleanup of the spill, and any remediation that results from the spill shall be at no additional cost to the State.

(IX) STATE'S RESPONSIBILITIES

A. State Representative:

The State has assigned **Tom Williams, (907)451-2226** as the State Representative who will be available, during reasonable time periods, in order to provide coordination and direction to the Contractor concerning matters related to the terms and conditions of this contract.

B. NOTAMs:

Notice to Airmen (NOTAMs), are advisory messages distributed to airport users by the FAA regarding airport conditions that may be hazardous. NOTAMs are required to be issued by the airport operator/contractor any time conditions at the airport exist that are non-standard or there are issues that can affect the safety of landing and departing aircraft. When advised by the Contractor of hazardous conditions the State representative will issue a NOTAM describing the condition. However, due to the remote nature of the Airport, lack of continual monitoring and unreliable communication facilities, it is often difficult to assure that NOTAMs are published for all conditions. Therefore, the State will assure that a notice is continually published within the "Supplement Alaska" which advises pilots to use caution when operating into the Airport due to the frequent lack of surveillance for airport hazards. Pilots will also be advised to provide their own airport condition inspections before operating at the airport.

NOTE: The contractor is responsible for issuance of NOTAMS for the airport. If unable, the contractor shall contact the State Representative for assistance with the NOTAMS. The State representative may require the Contractor to issue NOTAMS directly to the FAA's light Service Station (FSS), under certain circumstances.

(X) EXCLUSION

- A. Work stipulated in this contract is not required on State land, which is leased to another party. When such areas are under the control of a lessee, the lessee is responsible for maintaining all aircraft maneuvering surfaces on the leased property.
- B. No work is required for the repair of radio operated electrical devices, with the exception of fuse replacement, circuit breaker resetting, and bulb replacement.

(XI) INDEMNIFICATION

The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

(XII) INSURANCE REQUIREMENT

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a 30-day prior notice of cancellation, nonrenewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$1,000,000, combined single limit per occurrence.

Personal Automobile Liability Insurance: The Contractor shall provide a copy of personal automobile liability with minimum coverage limits of \$300,000 combined single limit per occurrence. If the Contractor will not utilize personal automobiles or travels to and from work on a snow mobile, ATV, bicycle or walks, then the contractor shall provide a written statement as such.

(XIII) BUSINESS LICENSE REQUIREMENT

Prior to award of the contract the low bidder must show evidence of holding a valid Alaska business license and any necessary applicable professional licenses required by Alaska Statute. Bids must be submitted under the name as appearing on the person's current Alaska business license in order to be considered responsive. Offerors should contact the Department of Commerce, Community and Economic Development, Division of Corporations, Business, and Professional Licensing, P. O. Box 110806, Juneau, Alaska 99811-0806, for information on these licenses. Acceptable evidence of an Alaska Business License is:

- a canceled check for the business license fee;
- a copy of the business license application with a receipt date stamp from the State's business license office;
- a receipt from the State's business license office for the license fee;
- a copy of the bidder's valid business license;
- a sworn notarized affidavit that the bidder has applied and paid for a business license;

(XIV) TERMINATION

- A. The State may terminate the contract by giving seven (7) days' notice to the Contractor if:
- (1.) The Contractor fails to comply with the terms of this contract. In this event, the Contractor shall forfeit the performance bond, if required.
 - (2.) The Contractor fails to begin work under this contract within the time specified in the contract documents.
 - (3.) The Contractor fails to conduct and record the on-site inspections as defined in this contract.
 - (4.) The Contractor performs this work in an unsuitable manner or discontinues the prosecution of said work as defined in this contract.
 - (5.) The Contractor performs this work in an unsafe manner placing any parties involved in this contract at risk.
 - (6.) The Contractor makes an assignment for the benefit of creditors without the consent of the Contracting Officer.
 - (7.) The Contractor fails to attend training courses as directed by the Department unless specifically excused by the State Airport Representative.
 - (8.) The Contractor disregards Regulatory Requirement of any public body having jurisdiction at Airport location.
 - (9.) The Contractor allows any assessed final judgment to stand unsatisfied for a period of 60 days.
- B. The State may terminate this contract in writing by providing seven (7) days' notice, at any given time, if funding for the contract, as allocated by the Alaska Legislature, is insufficient for continuation of the contract.
- C. The Contractor may terminate the contract in writing by giving seven (7) days written notice to the State's representative, with no penalty or forfeiture of performance bond, if one is required.

(XVI) PRICE INCREASE

An increase of 2% will be granted each year of the contract. Vendor must request this in writing at least 30 days prior to the renewal.

(XVII) DEFINITIONS

As used in this contract the following terms are defined as follows:

AKDOT. Alaska Department of Transportation & Public Facilities.

ADDENDA. Clarifications, corrections, or changes to the plans, specifications or other contract documents issued graphically or in writing by the Department after the advertisement but prior to the opening of proposals.

ADVERTISEMENT. The public announcement, as required by law, inviting bids for work to be performed or materials to be furnished.

AIRCRAFT MOVEMENT AREA. Runways, taxiways, and other areas of an airport that are used for taxiing, takeoff, and landing of aircraft, exclusive of loading ramps and aircraft parking areas.

AWARD. The acceptance, by the Department, of the successful bid. The award is effective upon execution of the contract by the Contracting Officer.

BIDDER. An individual, firm, corporation or any acceptable combination thereof, or joint venture submitting a bid for the advertised work.

CHANGE ORDER. A written order by the Department covering changes to the contract, within its general scope, and establishing the basis of payment and time adjustment, if any, for the work affected.

CONTRACT. The written agreement between the Department and the Contractor setting forth the obligations of the parties for the performance of the work.

The contract includes the Invitation For Bids, Instructions to Bidders, Proposal, Maintenance Contract Form, Technical Specifications, and any Special Provisions, Drawings, Plans, Addenda, any change orders, directives or supplemental agreements that are required to complete the work in an acceptable manner, all of which constitute one instrument.

CONTRACTING OFFICER. The person authorized by the Commissioner to enter into and administer the contract on behalf of the Department. He has authority to make findings, determinations and decisions with respect to the contract and, when necessary, to modify or terminate the contract.

CONTRACTOR. The individual, partnership, firm, corporation, or any acceptable combination thereof, contracting with the Department for performance of prescribed work.

DEPARTMENT. The Alaska Department of Transportation and Public Facilities and its agents, officers, and employees.

EXTRA WORK. An item of work not provided for in the contract as awarded but found essential by the Contracting Officer for the satisfactory completion of the contract within its intended scope.

FSS. Federal Aviation Administration Flight Service Station

INVITATION FOR BIDS. The advertisement for proposals for all work or materials on which bids are required.

NOTAM. Notice to Airmen

NOTICE OF INTENT TO AWARD. The written notice by the Department announcing the apparent successful Bidder and establishing the Department's intent to award the Contract when all required conditions are met.

NOTICE TO PROCEED. A written notice to the Contractor to begin the work and establishing the date on which Contract time begins.

PROPOSAL. The offer of a bidder, on the prescribed forms, to perform the work at the price quoted.

SREB. Snow Removal Equipment Building

SPECIFICATIONS. A general term applied to all directions, provisions and requirements pertaining to performance of the work.

STATE. The State of Alaska acting through its authorized representatives, agents, officers, and employees.

SUBCONTRACTOR. An individual, partnership, firm, corporation or any acceptable combination thereof to which the Contractor sublets part of the contract.

SUBLET. The act of the Contractor entering into a contract with a subcontractor for the purpose of having the subcontractor perform the work or a portion of the work.

WORK. Work is the act of, and the result of, performing services, furnishing labor, furnishing equipment, furnishing supplies, and incorporating materials into the runway as required by the contract, and performing all other duties and obligations required by the contract.

- (1) Attachment A - "Airport Marking Standards for Unpaved Airports"
- (2) Attachment B – Daily Checklist
- (3) Attachment C – Lighting/Visual Aids
- (4) Attachment D – Airport Public Notice of Representation
- (5) Attachment E – Notification of other Employment

AIRPORT MARKING STANDARDS FOR UNPAVED AIRPORTS

(Supersedes Design Memo No.1)

The following standards for runway markers will be used by Department of Transportation and Public Facilities (DOT&PF) staff in the design, construction, and maintenance of unpaved airports. These standards will be implemented when designing new airport improvement projects and maintaining all existing DOT&PF unpaved airports, AS ADEQUATE FUNDING ALLOWS. Ultimately, all DOT&PF unpaved airports will be marked according to standards described below and shown in Figures 1 through 5. These standards have been reviewed and found acceptable by the FAA and supersede previous standards described in Aviation Design Memo.1. The standards begin with definitions of runway and runway safety area because the placement of markers depends on the designation of the boundaries of these areas.

Runway: A defined rectangular maneuvering area on an airport prepared and maintained for the landing or takeoff operations of aircraft. The runway is the only portion of an airport that should be used for aircraft landing and takeoffs. The runway is distinct and should be distinguished from other surfaces such as taxiways or safety areas and maintained accordingly. The dimensions of a runway are defined on the Airport Layout Plan (ALP) or, where an ALP does not exist, is outdated or is incorrect, the dimensions should be determined after consultation with the FAA. After the runway's length or width is established, these dimensions must be published in the Airports Facility Directory (Alaska Supplement) and the Airport Master Record (Form 5010). Subsequent changes to the runway length or width also must be promptly noted in these publications. Guidelines criteria used for determining runway dimensions on the different classes of airports may be found in FAA Advisory Circulars No. 150/5300-12 and 150/5300-4B.

Runway Safety Area: A rectangular area, centered on the runway centerline, which includes the runway (and stop way, in present) and runway shoulders. Safety areas are not intended for normal aircraft operations but enhance the safety for airplanes which undershoot, overrun, or veer off the runway and it provides accessibility for fire fighting and rescue equipment during such incidents. The safety area is cleared, drained, graded, and may be turfed, and must not have any potentially hazardous ruts, depressions, humps, or other surface variations. Safety areas are designed and maintained to support the movement of any aircraft allowed to use the airport without causing substantial damage. If a safety area cannot be maintained to this standard, the unusual and hazardous condition must be noted or the dimensions of the safety area must be reduced to include only the area that can be maintained free of conditions that might cause substantial damage to an aircraft. On airports which provide snow removal services the FAA regulations and advisory circulars required that snow be removed from safety areas only to the extent that aircraft on the runway do not make contact with snow banks. However, it is advisable to maintain the safety areas off the thresholds clear of significantly large snow banks and assure that all lights and markers are visible.

Guideline criteria used for determining safety area dimensions on the different classes of airports may be found in the FAA Advisory Circulars No. 150-5300-12 and 150-5300-4B. As is often the case in Alaska, it sometimes is impractical to construct an airport in accordance with these particular standards. In those instances, the FAA will work with airport operations on a case-by-case basis in order to establish alternative dimensions.

Threshold Marker Panels: Thresholds shall be marked with panels 2' high by 8' long. The panels shall consist of a white reflectorized background with orange reflectorized chevrons as illustrated in Figure 4. The panels shall be placed perpendicular to the runway centerline and in line with the runway threshold cone markers. If the runway has no lights/cone markers in place, threshold marker panels should be installed so that they will not have to be relocated whenever cone markers are added.

The inside edge of the panel shall be 15" from the extended designated edge of the runway. As illustrated in figures 1 and 2, at most airports the inside edge of the panels will normally be 5' outside of the outermost threshold light/ or cone marker. More than 5' distance should separate the inside edge of the panel and the outermost threshold light/cones if these lights/cones are placed closer than 10' to the designated runway edge.

On runways with narrow safety areas, it may be necessary to position the panel on supports or wing ramps outside of the safety area in order to maintain a 15' clearance from the runway edge (Figures 1 and 2).

Threshold cone markers shall be placed "outboard" only when the threshold is displaced or a taxiway exits the threshold (see "Threshold Cone Markers"). In these instances the marker panels may be placed more than 15' from the extended edge of the runway. Figure 3 illustrates where marker panels should be placed if threshold or cones are "outboarded".

If marker panels are mounted in a manner that allows for removal while maintenance upon the runway is being performed, care should be taken to assure that other fixed points of reference are available to guide crews relocating the panels and/or cone markers. The permanent fixed mounting of markers panels produces an additional benefit for maintenance crews by providing them with easily recognizable reference points which they can use to locate the designated boundaries of the usable runway and reference when relocating cone markers.

Runway Edge Cone Markers: Runway edges are delineated by orange cone markers with white reflective bands. Cone markers are a visual substitute for or in addition to lights and are positioned as if they are lights. The cone markers shall not be less than 14" nor exceed 36" in height, be frangible, and the reflective band shall be high intensity sheeting of sufficient width to meet FAA specifications for reflective markers (AC 150/5345-39B). The commonly used 36" high cone marker which has weighted (usually sand filled) breakaway base is ideal for this purpose.

Each longitudinal row of edge cone markers shall be parallel to the centerline and from 0' to 10' outside the edge of the designated runway. The area between the edge of the designated runway and the cone markers must support the aircraft's weight without causing substantial damage to the aircraft. If the area between the cone markers and the edge of the designated runway cannot support an aircraft, markers should be positioned the same as lights, AC 150/5340-24 can be used as further reference when making these installations.

Taxiway Edge Cone Markers: Taxiway edges shall be delineated by using orange cone markers with blue reflective bands. The cones shall be placed not more than 10' from the edge of the designated taxiway surface and spaced longitudinally not more than 200' apart, the same as taxiway lights. The longitudinal spacing of the cone markers is influenced by the physical layout of taxiways. AC 150/5340-24 should be consulted if an airport has a confusing mixture of taxiways and aprons.

Runway Threshold Cone Markers: In order to further enhance threshold recognition for pilots and to supplement the presence of the threshold markers panels, cone markers shall be used to identify the runway threshold. Threshold cone markers shall be positioned the same as threshold lights in accord with AC 150/5340-24. Threshold cone markers shall use green and red reflective bands. Only the red color shall be visible from the runway side while only green shall be visible from the approach path.

On a runway exclusively used for visual operations, a total of 6 cone markers on each end shall be used; on an instrumented runway, 8 cones shall be used. It is advisable to use 8 threshold cone lights whenever there is any likelihood that a navigation aid and commissioned approach may be placed in service at the airport.

The cone markers shall be placed in a line perpendicular to the extended runway centerline and 2' – 10' off the designated ends of the runway. The outermost runway threshold cone markers shall be placed in line with the runway edge cone markers and the remaining runway threshold cone markers shall be spaced evenly at 10' intervals from the outermost cone marker toward the runway centerline (See figures 1 and 2). In all cases the two innermost runway threshold cone markers shall be separated at least 20' to allow for the passage of airport maintenance equipment.

On very narrow runway if the 10' spacing between runway threshold cone markers does not allow a 20' wide separation between innermost cone markers all of the runway threshold cone markers shall be spaced less than 10' apart in order to maintain the 20' separation in the center. If less than 10' spacing is used, it is important to assure that equal distance separates all cone markers. Marker spacing shall be as close to 10' apart as possible and in these particular instances the center area shall be exactly 20' wide.

Positioning threshold cone markers in outboard locations in order to achieve a wide center gap at the runway end shall not occur unless it is necessary to displace a threshold or establish a taxiway which exists in the threshold area. In these cases additional cone markers shall be placed along the edges of the displaced area or taxiway. When thresholds are displaced or relocated all cone markers shall be positioned in accord with the applicable standards outlined within AC 150-5340-24 (See Figure 3). Due to the complexities involved with this type of marking the FAA's Airport Division should be consulted.

Combined Cone Marker and Light Installations: Where runway lights are in place on unpaved airports, cone markers shall also be used to increase the daylight visibility of the thresholds and edges therefore minimizing the potential of pilots misidentifying runway alignment or runway ends. It should be noted that these standards allow installation of cones without lights but require cone whenever an airport has lights in place. When lights and cones are in place on unpaved runways the cone markers may be:

- (1) Preferable, cone markers with tips removed can be placed over the light so that the light protrudes through the top of the cone and is readily visible to pilots (see Figure 5), or (2) placed in line with and immediately outboard (away from centerline) of each light. (Note: In the case when the cone is adjacent to and outboard of the light the cone could be slightly more than ten feet from the designated runway edge.) Since the heights of light fixtures vary (light heights vary from 14" to 30") it will not be practical to cut the top off the 36" high cones with weighted bases. In this case it is advisable to remove the tops from less expensive shorter ones.

Cone markers placed over the lights are intended for daylight operations only; the lights are used for after dark guidance. Hence, while reflective banks may be used, they are not required in these instances. Banks on the cones will correspond to the color of the respective light's lens.

Deviations: These standards deviate from the FAA Advisory Circulars in the following areas:

- (1) These standards allow for less than 10' spacing between threshold lights/cone markers on narrow runways. This condition is not addressed in the AC 150/5340-24.
- (2) AC 150-5340-24 recommends that a maximum height of light fixtures to be no greater than 14" when the fixture is placed 5' closer to the runway edge. Two inches (2") may be added to the light's height for every _____ light is moved outward from the runway edge until the 10' maximum distance is reached. However, at the 10' position a light 30" high is allowed.

AC 150/5345-39B which deals with retro-reflective markers calls for minimum and maximum heights of 14" and 30" but does not stipulate which positions the different height markers should occupy.

These standards allow cones 36" in height to be placed at any approved edge/threshold marker position, regardless of the distance from the runway, since it is improbable that the material they are constructed from would cause significant damage to an aircraft.

- (3) AC 150-50B suggests that on unpaved airports panel type markers be placed on the edge of the designed runway. These standards place the panel markers at least 15' further away from the actual operating surface of the runway in order to reduce the likelihood that an aircraft will strike panels.

Daily Inspection ChecklistDate: _____
Inspector: _____Time: _____
Weather: _____

Airport: _____

	INSPECTION			NOTAMS		CONDITIONS or CORRECTIVE ACTION
	ITEMS	S	U	ISSUE DATE	XLED DATE	
Facilities	1.) State Buildings general condition					
	2.) Doors					
	3.) Heaters					
	4.) Lighting					
	5.) Electrical					
	6.) Floors					
	7.) Cleanliness					
Surface Condition	1.) Ruts/Humps/depressions					
	2.) surface cracking					
	3.) Safety area free of obstructions					
	4.) Threshold markings					
	5.) Loose Rocks					
	6.) Compaction					
	7.) Ponding on surfaces					
Lighting	1.) Missing lights					
	2.) Inoperative lights					
	3.) Wind sock lights					
	4.) Rotating Beacon					
	5.) Obstruction Lights					
Indicator Aids	1.) Wind Sock operational					
	2.) Wind Sock condition					
	3.) REILs/VASIs/PAPIs					
	4.) Edge Cones/bands					
	5.) Segmented Circle					
Snow and Ice Control	1.) Runway Surface					
	2.) Snow berm setback/height					
	3.) Taxiway/apron surface					
	4.) Lighting & Signs Obscured					
Brush Control	1.) Safety areas					
	2.) Around lighting					
	3.) Segmented Circle					
Equipment	1.) Small equipment					
	2.) Snow Removal equipment					

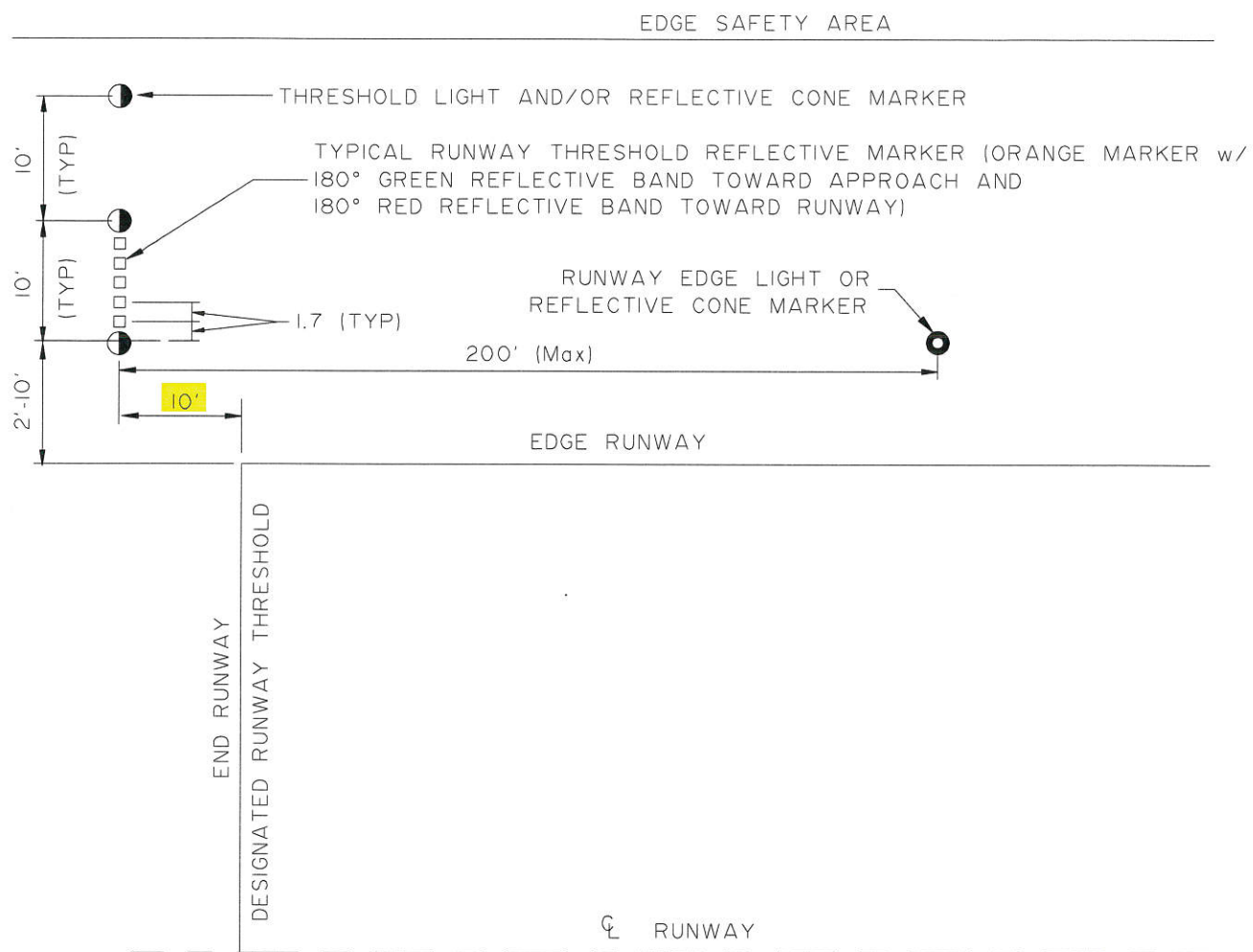


Figure 660-1
Typical Threshold Detail
No Scale

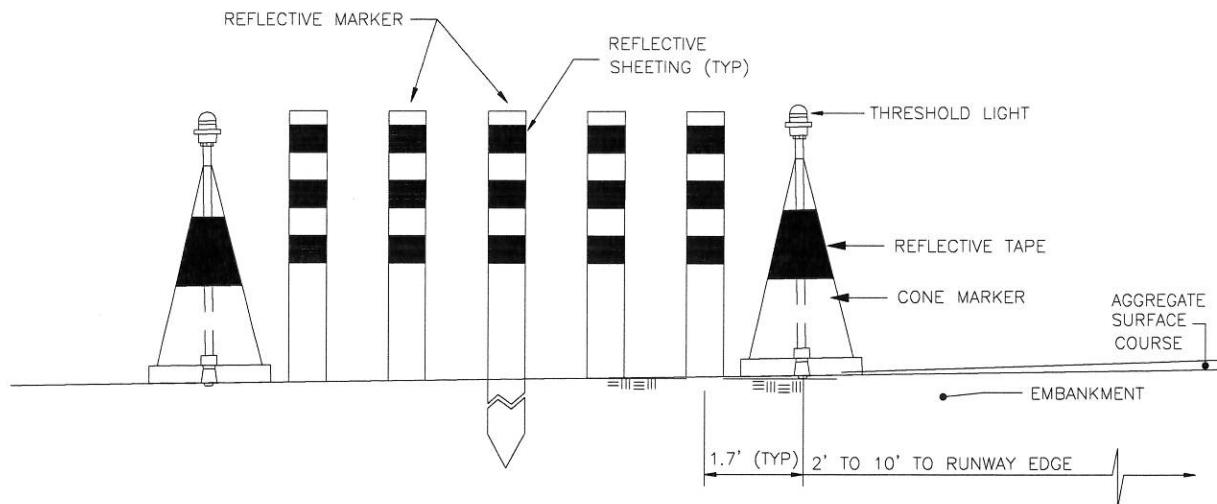


Figure 660-2
Threshold Reflective Marker Details
No Scale

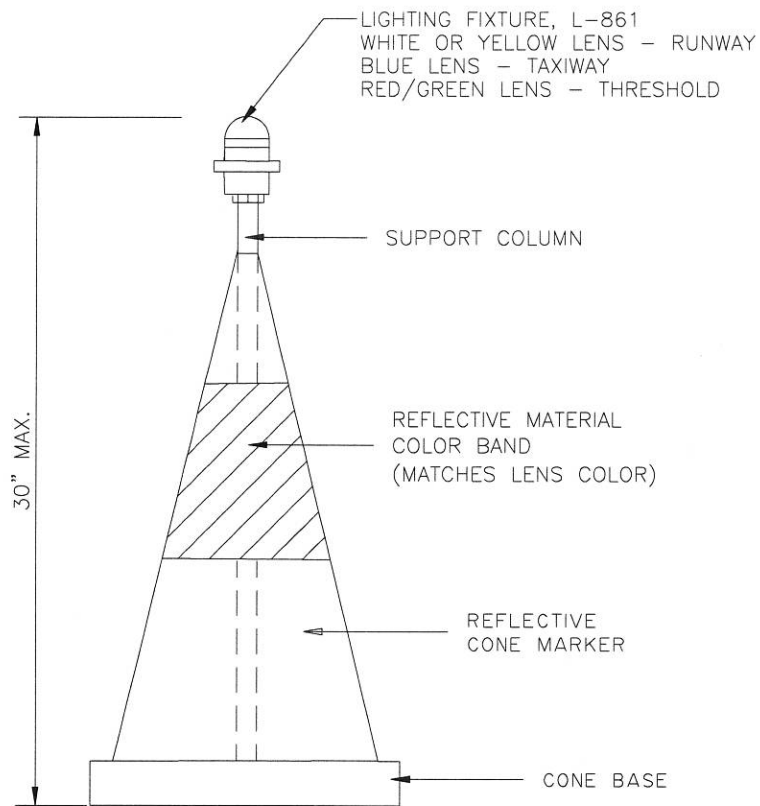


Figure 660-3
Reflective Cone Marker with Light
No Scale

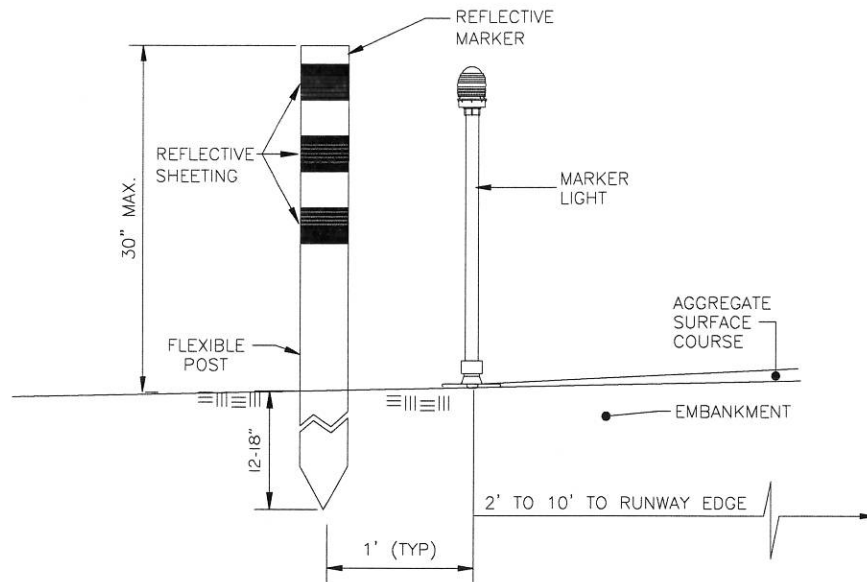


Figure 660-4
Example Detail for Runway/Taxiway Edge Reflective Marker
No Scale

BIRCH CREEK AIRPORT PUBLIC NOTICE OF REPRESENTATION

Please call the below named Airport Contractor for the reporting of concerns or information on the above named contract.

Contractor: _____
Name (printed)

Phone: _____

Location where Contractor can be contacted: _____

If you are unable to contact the Contractor, please call the Airport Manager

_____ at _____.
(Name) (Phone #)

Contractor is required per terms and conditions of the contract to post this notice in a readily visible and conspicuous location, outside of the Airport Maintenance Facility or at the local Post Office.

Notification of Employment Statement

Mail or Fax to:

Department of Transportation & Public Facilities

Attn: Leisha Ray

2301 Peger Road

Fairbanks, AK 99709

(907) 451-5236 (voice) - (907) 451-5238 (fax)

In accordance with Contract Number _____, I am providing notice of employment for compensation outside the scope of this contract. (Note: You are not required to disclose volunteer work unless it is a potential conflict with your State duties or you receive any type of compensation, including travel or meals.)

This employment or service consists of the following (describe in detail, attach separate sheet as needed):

Hours and days of the week _____

If you work as an independent contractor or a consultant, please attach a list of your clients.

Note: If your outside job duties are the same or similar to your State service, or if you will be dealing with people or entities with whom you deal or may deal as part of your official duties, you must explain why no potential conflict exists between your outside employment and your official duties. If a potential conflict exists, you must refrain from taking any action until it is approved by your designated ethics supervisor. (See AS 39.52.210.)

I certify that I will not use or allow the use of any State owned/operated facilities, supplies, equipment, vehicles, or personnel time and effort for any employment outside State service, and that my outside duties will not affect my usual State duties or duty hours in this Department. I certify to the best of my knowledge that my statement is true, correct, and complete. In addition to any other penalty or punishment that may apply, the submission of a false statement is punishable under AS 11.56.200 - AS 11.56.240.

(Signature)

(Date)

(Printed Name)

DOT&PF

Contractor: Please note that any change in your outside service or employment must be reported when it occurs and forwarded to the Regional Procurement Officer listed on the Contract.