

REQUEST FOR QUOTATION

SOLICITATION NUMBER: USDA-FS-11-09

AERIAL PHOTOGRAPHY SERVICES

For Wallowa Valley Ranger District,

Wallowa-Whitman NF, Oregon

Issue Date: July 9, 2009

Quotation Due Date: July 23, 2009



U.S. DEPARTMENT OF AGRICULTURE
FARM SERVICE AGENCY
AERIAL PHOTOGRAPHY FIELD OFFICE

NOTICE TO OFFEROR

Any proposal submitted for this RFQ must be identified with the following information labeled on the outside of the mailing package:

SOL.NO: USDA-FS-11-09

DUE DATE: 23-JUL-2009, 4:30 PM

RECEIVING OFFICE: CONTRACTING

Mail To: AERIAL PHOTOGRAPHY FIELD OFFICE
CONTRACTING OFFICER
2222 WEST 2300 SOUTH
SALT LAKE CITY UTAH 84119-2020

NOTICE TO PROSPECTIVE OFFERORS :

OFFERORS ARE CAUTIONED TO NOTE THE FOLLOWING SPECIAL CONTRACT REQUIREMENTS:

The following information must be submitted with any price quotation: Aircraft and camera(s) proposed for use, incomplete contracts, technical capability statement, and past performance. See Section A (Page 3).

This solicitation requires Color Negative acquisition with an 8.25 inch lens (210 mm), See Section B-1.4, Page 4.

This RFQ is subject to the Availability of Funds Clause (FAR 52.232-18) See Section B-3.8, Page 8.

The complete text of any or all clauses referenced herein may be obtained by submitting a request, identifying this solicitation number, to the Contracting Officer, USDA, FSA, Aerial Photography Field Office, 2222 West 2300 South, Salt Lake City, Utah 84119-2020. Complete copies of the FAR in loose-leaf or CFR form may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington D.C. 20402.

REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)		THIS RFQ <input type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE OF PAGES
1. REQUEST NO.	2. DATE ISSUED	3. REQUISITION/PURCHASE REQUEST NO.	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
5a. ISSUED BY			6. DELIVER BY (Date)	
5b. FOR INFORMATION CALL (NO COLLECT CALLS)			7. DELIVERY	
NAME		TELEPHONE NUMBER		<input type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)
		AREA CODE	NUMBER	9. DESTINATION
8. TO:			a. NAME OF CONSIGNEE	
a. NAME		b. COMPANY		b. STREET ADDRESS
c. STREET ADDRESS				c. CITY
d. CITY		e. STATE	f. ZIP CODE	d. STATE e. ZIP CODE
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date)		IMPORTANT: This is a request for information, and quotations furnished are not officers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter.		

11. SCHEDULE (Include applicable Federal, State and local taxes)

ITEM NO.	SUPPLIES/ SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(a)	(b)	(c)	(d)	(e)	(f)

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS	
				NUMBER	PERCENTAGE

NOTE: Additional provisions and representations are are not attached.

13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER						
b. STREET ADDRESS						
c. COUNTY			16. SIGNER			
d. CITY			a. NAME (Type or print)		b. TELEPHONE	
					AREA CODE	
e. STATE		f. ZIP CODE	c. TITLE (Type or print)		NUMBER	

CLAUSES AND PROVISIONS

The following clauses and provisions are incorporated by reference with the same force and effect as if they were given in full text. Full text is available at www.arnet.gov. If any clause and provision referenced below has been superseded, or changed as a result of an authorized deviation, its replacement or the text of the deviation will be shown in an attachment. Otherwise, the clause and provision text shall be as it appears in the referenced regulation for the date shown. The derivation of these clauses and provisions are the Federal Acquisition Regulation (48 CFR Chapter 1) and the Agriculture Acquisition Regulation (48 CFR Chapter 4). Some of the following clauses are limited in their applicability to the order by the conditions shown in a parenthetical remark after the clause date. This list of clause may be supplemented by the contracting officer.

GENERAL -	The following clauses apply to all purchase orders.	52.222-35	Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (SEP 2006)(Orders of \$10,000 or more.)
52.202-1	Definitions (JUL 2004)		
52.203-5	Covenant Against Contingent Fees (APR 1984)	52.222-36	Affirmative Action for Workers with Disabilities (JUN 1998)(Applicable to orders over \$10,000.)
52.203-6	Restrictions on Subcontractor Sales to Govt. (SEP 2006)	52.222-37	Employment Reports on Disabled Veterans and Veterans of the Vietnam Era (SEP 2006)(Orders of \$10,000 or more.)
52.203-7	Anti-Kickback Procedures (JUL 1995)		
52.204-3	Taxpayer identification (OCT 1998)		
52.204-7	Central Contractor Registration (JUL 2006)	52.223-6	Drug-Free Workplace (MAY 2001)(Applicable to orders awarded to individuals.)
52.211-6	Brand Name or Equal (AUG 1999)		
52.219-6	Notice of Total Small Business Set Aside (Jun 2003)	52.224-2	Privacy Act (APR 1984)
52.219-21	Small Business Size Representation for Targeted Industry Categories under the Small Business Competitiveness Demonstration Program (MAY 1999)	52.227-19	Commercial Computer Software-Restricted Rights (JUN 1987)(Applicable to orders for software.)
		52.232.23	Assignment of Claims (JAN 1986)(May be applicable to orders over \$10,000.) (JUL 1995)
52.222-3	Convict labor (JUN 2003)(Unless precluded by FAR 22.2)		
52.232-1	Payments (APR1984)(NA to personal services.)	EQUIPMENT & SUPPLIES	Additional clauses applicable to the purchase of equipment and supplies:
52.232-8	Discounts for Prompt Payment (FEB 2002)		
52.232-11	Extras (APR 1984)	52.222-20	Walsh-Healey Public Contracts Act (DEC 1996)(Applicable to orders over \$10,000 unless except by statute or regulation.)
52.232-18	Availability of Funds (APR 1984)		
52.232-25	Prompt payment (OCT 2008)	52.225-3	Buy American Act – North American Free Trade Agreement – Israeli Trade Act - Balance of Payment Program (NOV 2006)
52.232-33	Payments by Electronic Funds Transfer –Central Contractor Registration (OCT 2003)		
52.232-34	Payments by Electronic Funds Transfer Other Than Central Contractor Registration (MAY 1999)	52.243-1	Changes – Fixed Price (AUG 1987)
52.233-1	Disputes (JUL 2002)	52.247-34	F.O.B. Destination (NOV 1991)
52.233-3	Protest After Award (AUG 1996)	52.247-35	F.O.B. Destination within Consignee’s Premises (APR 1984)(Applicable if “inside delivery” is specified.)
52.233-4	Applicable Law for Breach (JUL 2006)		
52.242-15	Stop Work Order (AUG 1989)	52.247-65	F.O.B. Origin, Prepaid Freight, Small Package Shipments (JAN 1991)
52.245-1	Government Property (JUN 2007)		
52.246-1	Contractor Inspection Requirements (APR 1984)	52.249-1	Termination for Convenience of the Government (Fixed Price)(Short Form) (APR 1984)
52.246-4	Inspection of Services – Fixed Price (AUG 1996)		
52.249-4	Termination for Convenience (short form) (APR 1984)	52.212-1	Instructions to Offerors – Commercial Items (SEP 2006)
52.249-8	Default (fixed price supply and services (APR 1984)		
52.252-1	Solicitation Provision Incorporated by Reference (FEB 1998)	SERVICES -	Additional clauses applicable to purchase of services:
52.252-2	Clause Incorporated by Reference (FEB 1998)	52.222-41	Service Contract Act of 1965 (NOV 2007)
		52.222-42	Statement of Equivalent Rates for Federal Hires (MAY 1989)(If applicable, rates shown in text on order.)
Additional clauses that apply when applicable:			
52.212-1	Instructions to Offerors – Commercial Items (SEP 2006)	52.222-44	Fair Labor Standards Act and Service Contract Act-Price Adjustment (FEB 2002)
52.212-4	Contract Terms and Conditions – Commercial Items (FEB 2007)	52.243-1	Changes-Fixed Price (AUG 1987), Alternate 1 (APR 1984)
52.213-2	Invoices (APR 1984)(Applicable when advance payments are authorized for subscriptions and other publications.)	52.249-4	Termination for Convenience of the Government (Services)(Short Form)(APR 1984)
52.213-4	Terms and Conditions – Simplified Acquisition (Other than Commercial Item)(MAR 2007)	52.249-5	Termination for Convenience of the Government (SEP 1996)(For Educational and Other Non-Profit Institutions.)
52.219-8	Utilization of Small Business Concerns (MAY 2004)		
52.222-4	Contract Work Hours and Safety Standards Act – Overtime Compensation (JUL 2005)(Applicable to orders over \$2,500 unless precluded by FAR 22.3)		
52.222-26	Equal Opportunity (MAR 2007)(Applicable if an order, or aggregate orders in a year, exceeds \$10,000.)		

NOTE: THIS SECTION MUST ACCOMPANY ANY QUOTATION SUBMITTED.

SECTION A

REQUIRED STATEMENTS OF OFFERORS

A-1 AIRCRAFT TO BE USED IN COMPLETION OF ITEM(S) IN THIS CONTRACT:			
Make/Model	Registration Number	Operating Ceiling	Offeror Owned (check appropriate block)
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
*If the aircraft is/are not offeror owned, a written statement of availability from the owner of the aircraft must be enclosed. See Section C-2.			

A-2 CAMERA(S) TO BE USED IN COMPLETION OF ITEM(S) IN THIS CONTRACT			
Make/Model	Lens Number	Magazine Number	Offeror Owned (check appropriate box)
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
Current calibration report(s) must be enclosed or on file at the Aerial Photography Field Office. *If the camera(s) is/are not offeror owned, a written statement of availability from the owner(s) of the camera(s) must be enclosed. See Section C-2.			

A-3 INCOMPLETE CONTRACTS AS OF DATE OF OFFER:		
Remaining Linear Miles	Summer	Winter
U.S. Government Contracts:		
All Other Contracts:		
Total:		

A-4 TECHNICAL CAPABILITY STATEMENT

A brief statement describing the offeror’s technical capability to successfully perform this contract must be submitted with the offer. This statement should include: planned technical approach to job, project scheduling and site basing of aircraft, camera and crew availability, company’s quality control system, personnel qualifications, and incomplete contracts.

A-5 PAST PERFORMANCE REFERENCES

If no previous contracts have been held by the offeror with the USDA Aerial Photography Field Office, list at least two (2) references, with which the offeror has held similar contracts. References should include: name of reference and contact, address, telephone number, email, and the specific work performed, any problems or difficulties and how they were handled, and contractor performance in compliance, completion of project on schedule, and quality of product/service. If possible, one reference should be within the Federal government. List company or agency name, address, name of person to contact, telephone number, and email.

SECTION B

PROJECT SERVICES AND REQUIREMENTS

The Contractor shall furnish aerial photographic services and related supplies in accordance with the requirements, specifications, terms, and conditions specified herein.

B-1: PROJECT ITEM 1: WALLOWA VALLEY RANGER DISTRICT, WALLOWA-WHITMAN NATIONAL FOREST, OREGON		
LINE ITEM	PROJECT CODE	LINEAR MILES
Wallowa Valley Ranger District, Wallowa-Whitman National Forest, Oregon	616162B	629

1.1 Intended Use of Photography

The purpose for this aerial photography includes photo interpretation, inventory of all natural resources, support of multiple resource management and inventory activities, and stereo photogrammetric aerotriangulation and measurements.

1.2 Materials To Be Delivered

Original Color Negative Aerial Film
 One (1) set of Color Balance Samples
 One (1) set of Color Inspection Prints
 One (1) CD containing Photo-Center File and Metadata File

1.3 Delivery Schedule

- (a) Color Balance Samples: Color Balance Samples shall be delivered prior to the delivery of the color inspection prints. The Contractor may submit the color balance samples when the ground cover samples specified in Section C-7.1, Color Balance Samples, have been acquired, but no later than two weeks prior to the end of the photographic season. See Section C-7.1, Color Balance Samples, for instructions.
- (b) Original Materials – Delivery Schedule: Film, prints, photo-center file, and metadata file are due thirty (30) calendar days after the photographic season end date or any authorized extension thereof. **Required Delivery Due Date is on or before October 3, 2009.**
- (c) Corrected Materials - Delivery Schedule: Remake materials required by APFO shall be shipped as soon as possible after correction is made, but no later than (15) fifteen days from the date corrections are requested by APFO, or after receipt of the materials or data in the

Contractor's facility, if required to make the corrections. Only materials specifically requested by USDA to be corrected shall be submitted for inspection. Signed delivery receipts will be required to verify date of receipt of such data or materials by the Contractor.

1.4 Project Requirements

- (a) Nominal Photographic Scale: 1:12,000
- (b) Approximate Photographic Period: Date of Award through September 3, 2009.
- (c) Minimum Sun Angle: 50 Degrees
- (d) Aerial Camera: Lens Focal Length: 8.25 inch (210 mm) and Antivignetting Filter. See Section C-2, Equipment Requirements.
- (e) Aerial Film: Color Negative Film. Kodak Aerocolor Negative Film 2444, Agfa Aviphot X100, or equal. See Section C-5, Aerial Film.
- (f) Film Titling: Every exposure shall be titled in accordance with the format and instructions specified herein. See Section C-6, Titling of Aerial Film for instructions, titling format, agency designator and project identification code(s).
- (g) Inspection Prints: Inspection prints shall be full-sized color contact prints prepared according to instructions specified in Section C-7, Inspection Prints.
- (h) Digital Photo-Center File and Metadata File: A digital photo-center data file and metadata file shall be prepared accordance with the specifications in Section C-8, Digital Photo-Center Data File.
- (i) Project Map: See Exhibit 1.

1.5 Photographic Operations

- (a) Air Space Clearance: This project item may contain areas of controlled or restricted airspace. It is the responsibility of the Contractor to obtain all approvals necessary to assure that specified altitudes are achieved.
- (b) Terrain Conditions: The type of ground cover for this project is "Forest" ground cover. Photography must be acquired when neither snow nor flooding obscures the ground. See Section C-4.1, Photographic Conditions.
- (c) Progress Reports: A Progress Report is required for each day progress is made in acquiring project photography. Reports shall be transmitted by e-mail following each day of progress. An e-mail address will be provided to the contractor at contract award. See Exhibit 3, Progress Report Format for data syntax and format.

1.6 Project Flight Plan Description

The Contractor shall obtain stereo coverage of successive and adjacent overlap of photographs as indicated in Section B-1.4, Project Requirements.

- (a) Photographic Scale: The project flight plan has been designated to achieve a nominal photographic scale of 1:12,000. Deviations from nominal scale due to terrain changes may range between scales of 1:9,100 to 1:14,700.
- (b) Flight Altitudes: Deviation from specified flight altitudes shall not exceed 2% low or 3% high of the flight height above mean ground elevation.
 - (1) Nominal Flying Height: 2,515 meters (8,250 feet) above mean ground elevation.
 - (2) Highest Altitude Specified: 4,633 meters (15,200 feet) above mean sea level.
 - (3) Allowable Deviation From Specified Flight Altitudes: 50 meters low (165 feet) or 76 meters high (248 feet).
- (c) Flight Lines: Flight lines are quarter quadrangle oriented. Deviation from the plotted position of the flight line in excess of six (6) percent of a full print may cause rejection of any or all of the flight line.
 - (1) Number of Flight Lines: 51 lines
 - (2) Number of Datum Breaks: 4 breaks
 - (3) Total Number of Line Segments: 55 segments
 - (4) Direction: North-South
 - (5) Allowable Deviation from Flight Line at Nominal Scale: 165 meters (540 feet)
 - (6) In-Line Exposure Spacing: 960 meters (3,150 feet) at nominal flying height.
 - (7) Flight Line Spacing: 1,643 meters (5,389 feet), at 45 degrees north latitude (1.25 minutes longitude).

1.7 Government Furnished Materials:

- (a) Digital Raster Graphic (DRG): Base map for the project area.
- (b) Flight Line Terminal Point Data (FLN): Latitude/Longitude coordinates in degrees, minutes, seconds, and decimal seconds.
- (c) Flight Altitude Data (OPT): Flight segments with altitudes above sea level and flight line breaks in UTM NAD 83.
- (d) Project Boundary File Shapefile: Digital project boundary lines.

1.8 Image Quality

Any imagery submitted to the Government that does not meet the minimum quality requirements may be subject to a price reduction based on the potential diminished use of the product.

B-2 EVALUATION OF OFFERS

Offers will be evaluated according to the following criteria including all supporting information furnished by the offeror with their quotation. The following evaluation criteria are listed in descending order of importance.

- (1) Price: Completed SF-18. In the event of a mathematical error, the unit price takes precedence over the extended price.
- (2) Technical Capability: Completed Section A and brief statements describing the planned technical approach to job, project scheduling and site basing of aircraft, camera and crew availability, company's quality control system, personnel qualifications, and incomplete contracts.
- (3) Past Performance: Past performance record of similar projects or references.

The combined score for technical capability and past performance is more important when compared to the price score.

The Government reserves the right to make an award to other than the lowest priced offeror, or other than the highest technically rated offeror, when the perceived benefits and tradeoffs provide the Government the greatest value.

The Government will award a contract resulting from this solicitation to that responsive and responsible offeror whose offer represents the greatest value and is determined to be in the best interest and the most advantageous to the Government, price and other factors considered.

B-3 ADMINISTRATIVE REQUIREMENTS

IT IS THE EXPRESSED INTENT OF THE GOVERNMENT TO HAVE ALL PHOTOGRAPHY REQUIRED UNDER THIS CONTRACT COMPLETED WITHIN THE PHOTOGRAPHIC PERIOD SPECIFIED IN SECTION B-1.4(b).

3.1 Contract Extensions

- (a) Photographic Season Extension: The Government reserves the right to extend the photographic season of this contract beyond the approximate photographic period indicated in Section B-1.4(b), Approximate Photographic Period. A lower minimum sun angle requirement may be necessary to allow the season extension. The Government may extend the season of this contract, at no increase in price, by written notice to the contractor at any time prior to the end of the photographic season.
- (b) Extension of the Term of the Contract: However, the Government reserves the right to extend the term of the contract if all photography under the contract has not been secured within the photographic period, through no fault of the Contractor. The Government may

extend the term of this contract, at no increase in price, by written notice to the Contractor within six (6) months after the photographic season has ended. The Contracting Officer may exercise this option twice. FAR 52.217-9, Option to Extend the Term of the Contract.

3.2 Ownership of Photographic Materials

All original photographic materials will become the property of the Government upon formal acceptance. No reproductions shall be made prior to inspection by the Government unless specified in the contract or authorized by the Contracting Officer.

3.3 Wage Determination

The Wage Determination applicable to any contract resulting from this solicitation is determined by the location of the Contractor's establishment. Wage Determination Number 1995-0222, Revision 27, Dated February 6, 2009, will be applicable for contractors nationwide (See Exhibit 4).

3.4 Industry Small Business Standard

The small business industry size standard for the type of services covered by this procurement, under NAICS code 541922, is the average annual receipts of the concern and its affiliates for the preceding three (3) years not in excess of \$7 million.

3.5 Invoices

The contractor shall submit invoice(s) in original form to the designated Contracting Officer for this contract. Upon approval by the Contracting Officer or his/her representative, the contractor has the option of submitting an electronic copy of their invoice, so long as the original is mailed and post marked the same day of the electronic submission to the designated party. To constitute a proper invoice, the invoice must include the following information and/or attached documentation:

- (1) Name of the business and Tax Identification Number (TIN).
- (2) Invoice Number and Date.
- (3) Contract order number, or other authorization for delivery of property or services.
- (4) Description, price, and quantity of services actually delivered or rendered.
- (5) Shipping and payment terms.
- (6) Name, title, phone number, and complete mailing address of responsible official to whom payment is to be sent.

Within 7 days of receipt of an invoice, notice of an apparent error, defect, or impropriety in an invoice will be properly documented and given to the Contractor for correction and resubmission.

3.6 Partial Payments

For a partially completed project item or a partially completed area within a project item, listed as a line item in Section B, acceptance and payment will be made on a unit price basis at the rate of 90 percent of the amount due. Any payment thus made is a partial payment of the contract. Upon completion and acceptance of the complete project item or area within the project item, the remaining payment will be made, totaling the full payment due for the project item or line item. Partial payments must be approved by the Contracting Officer under the conditions stated in FAR 52.232-1, Payments.

3.7 Payment Due Date

The required payment date will be 30 calendar days after the date of the actual receipt of a proper invoice by the office designated to receive the invoice, or the date contract deliverables are accepted, whichever is later. The date of the payment by electronic funds transfer shall be considered to be the date payment is made.

3.8 Availability of Funds (FAR 52.232-18, APR 1984)

Funds are not presently available for this contract. The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer.

3.9 Non-Discrimination Statement

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

SECTION C

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C-1 SCOPE OF CONTRACT

The general scope of this contract is to procure precise vertical aerial photography for one or more of the following purposes; natural resource inventory, stereomodel compilation, analytical aerotriangulation, orthophotography, and/or the extraction of data by means of photogrammetric measurements. See Section B-1.1, Intended Use of Photography for the specific intended use of photography and project requirements.

1.1 Introduction

The Contractor is responsible for furnishing aerial photographic services and related supplies and materials in accordance with requirements, specifications, terms and conditions specified herein.

- (a) Technical Requirements and Specifications: The technical requirements and specifications of this contract specified in Section B and in this section define the essential elements in securing high quality aerial photography. Any deviation from the specifications stated herein may cause increased time and effort in using the photography as intended.
- (b) Delivery and Performance: All contract materials shall be shipped within the time limits and to the place of delivery specified on the resulting delivery/purchase order. Performance of the contract shall be authorized and monitored by the Contracting Officer and/or the Contracting Officer's Representative.
- (c) Quality Control: Quality control shall be exercised by the Contractor continuously throughout the performance of the contract. Procedures shall be established to ensure that all aerial photographic materials are delivered in accordance with the delivery schedule and at the required level of accuracy and quality. The Contractor shall acquire immediate reflights of any photography where coverage or film quality fails to meet minimum requirements of the contract specifications.
- (d) Contract Material Inspection: All materials specified in Section B-1.2, Materials to be Delivered, will be inspected to determine conformance to all contract requirements and specifications. Inspection shall be performed at the APFO facility in Salt Lake City, Utah. The Government will make every effort to inspect all material specified within 30 calendar days after all materials are received at the APFO facility. Should the inspection procedure be delayed longer than 30 days, the Contractor will be notified on the reason(s) for delay and given the estimated completion date. Contract materials will be inspected in the order of their receipt, unless otherwise prioritized by the Government.
 - (1) Marginal Deficiencies: If the inspection materials reveal marginal deficiencies, a review by the user agency may be performed to determine if deficiencies may cause increased time and effort in using the photography as intended.

- (2) Nonconformance with Contract Requirements: If any of the services do not conform to the contract requirements, the Government may require the Contractor to perform the services again in conformity with the contract requirements, at no increase in contract amount. When the defects in services cannot be corrected by re-performance, the Government may:
- (i) Require the Contractor to take necessary action to ensure that future performance conforms to contract requirements, and
 - (ii) May reduce the contract price to reflect the reduced value of services performed.

1.2 Labor and Materials

The Contractor shall furnish all materials, equipment, transportation, superintendence, and labor as required herein. The Contractor shall execute and finish the aerial photographic services for the project specified and shall deliver to the USDA all materials called for in Section B-1.2, Materials to be Delivered.

C-2 EQUIPMENT REQUIREMENTS

Any equipment (aircraft and cameras, in addition to those submitted at the time of offer) proposed for use by the Contractor must be approved by the Contracting Officer prior to use. If the aircraft and camera proposed for use are not owned by the Contractor, a written statement of availability from the owner of the equipment shall be furnished to the Contracting Officer.

2.1 Aerial Camera and Filter

- (a) Tested and calibrated precision aerial cameras for taking aerial photographs are required and must meet USDA Aerial Camera Specifications (see Attachment A, USDA Aerial Camera Specifications). Camera systems must be compatible with precision stereoscopic mapping instruments and with analytical mensuration procedures used in photogrammetric surveys and in preparing accurate topographic maps.
- (b) Only camera systems which meet the requirements of these specifications, as determined by a current USGS "Report of Calibration" test report, shall be used. Focal length and filter area specified in Section B-1.4(d), Aerial Camera. A camera system "Report of Calibration" will not be acceptable if more than three (3) years old at the scheduled date of receipt of offers. See Attachment A, Revision 8/10/99, for USDA Aerial Camera Specifications.
- (c) Proposed camera systems will be evaluated to determine if they meet the contract specifications, based on a current USGS camera calibration test report. The Contracting Officer will have the right to require the removal of a camera from use when deficiencies in photographic imagery attributable to the camera are found to exist. Any camera removed from use by the Contracting Officer shall not be returned to use on USDA projects until the cause of the malfunction is corrected to the satisfaction of USDA. That determination will be based on acceptable samples and/or an additional test by the Optical Science Laboratory of the USGS, if directed by the Contracting Officer.

- (d) The camera and its mount shall be checked for proper installation prior to each mission. Particular attention shall be given to electrical circuits which control fiducial and camera data box lights and to the vacuum supply. In conformance with conventional photogrammetric practice, it is the preference of the Government that the Contractor use camera configurations, that when installed in the aircraft, advance film parallel to the line of flight. An automatic exposure control device is permitted, but a manual override capability is required for some types of terrain to achieve proper exposure.

2.2 Aircraft

- (a) All aircraft used in the performance of the work under this contract shall be maintained and operated in accordance with all regulations required by the U.S. Department of Transportation, Federal Aviation Administration (FAA). Aircraft operated in the acquisition of aerial photography under this contract shall be FAA certified to a service ceiling with operating load (crew, camera, film, oxygen, and other required equipment) of not less than the highest altitude specified in Section C-4, Acquisition Requirements.
- (b) When the flight plan and location of any item in the proposed coverage falls within positive-control airspace, the aircraft must contain the appropriate equipment to operate in such positive-control areas within the purview of the Federal Aviation Regulations.
- (c) The design of the aircraft shall be such that when the camera is mounted with all its parts within the outer structure, an unobstructed field of view is obtained. The field of view shall be shielded from the exhaust gases, oil, effluence, and air turbulence. Glass, plastic, or other window material shall not be interposed between the camera and the ground to be photographed unless authorized by the Contracting Officer.

2.3 Laboratory

The Contractor's laboratory shall be adequately equipped and staffed to facilitate the production of the specified photographic materials and other required products, or the Contractor shall have access to such facilities.

C-3 FLIGHT PLAN REQUIREMENTS

3.1 Project Area to be Photographed

The boundaries and exact coverage of any specified area described in Section B-1.7, Government Furnished Materials, are determined by the Official Flight Plan Data. For a general representation of project area(s) coverage and flight plan see Exhibit 1, Project Map.

3.2 Flight Plan Data

The Contractor will be furnished the Official Flight Plan Data as indicated in Section B-1.7, Government Furnished Materials. The Official Flight Plan Data will determine project location, flight direction, datum breaks, and the flight altitude of each line above mean sea level.

The Contractor will be furnished the latitude and longitude coordinates, expressed in degrees, minutes, seconds, and decimal seconds, of all beginning and ending terminal points of project flight lines. Data shall be in ASCII text format and provided on CD-ROM or electronically.

C-4 ACQUISITION REQUIREMENTS

4.1 Photographic Conditions

Photography shall be undertaken when skies are clear, free from smoke, clouds, cloud shadows, excessive haze, and well-defined images can be resolved. The ground shall be free from snow below timberline, standing water (other than natural or man-made ponds and lakes), flood waters from streams which have overflowed their banks, and wet ground that obscure field, soil or crop lines.

4.2 Photographic Periods

Photography shall be undertaken only during that portion of the day when the sun angle exceeds the minimum specified in Section B-1.4(c), Minimum Sun Angle. Photographic operations shall be limited to the dates specified in Section B-1.4(b), Approximate Photographic Period or as otherwise authorized in writing by the Contracting Officer.

Project sun angle charts will be provided by the Government, as a convenience to the contractor. However, the contractor is ultimately responsible that imagery acquired meets or exceeds the specified sun angle.

4.3 Coverage Requirements

Stereo coverage of successive and adjacent overlaps of photographs shall be obtained by the Contractor in accordance with the requirements below.

- (a) Project Area Coverage: The beginning and ending photo centers of each flight line must be exposed on, or outside of, each terminal mark. When the flight line runs parallel to the project boundary, the coverage required at the boundary line is the same as the minimum sidelap requirement for an adjacent flight.
- (b) Flight Breaks: Uninterrupted stereoscopic coverage is required at all flight breaks. Where a break in the flight line occurs, planned or unplanned, the terminal exposure of any new flight segment shall begin and end one exposure beyond the center point of the original flight segment terminal exposure.

- (c) Overlaps: Endlap (overlap in the line of flight) and sidelap (overlap between adjacent flights) shall be expressed in percentages of total print area as stated below. (Percentages specify minimum, optimum, and maximum values for this spacing.)

	Optimum	Minimum	Maximum
Endlap	65%	60%	70%
Sidelap	40%	20%	n/a

- (d) Crab: Any series of two or more photographs crabbed in excess of five degrees (5°) as measured between photographs in line and between adjoining lines may cause rejection of any or all of that flight line.
- (e) Tilt: Exposure made with optical axis of the camera in a vertical position is desired. Tilt (departure from the vertical of any exposure) exceeding four degrees (4°) or relative tilt between any two successive exposures exceeding six degrees (6°) may be cause for rejection of any or all of the flight line.

4.4 Reflight Photography

Reflights for aerial photography shall be centered over the plotted flight line with no less than the one exposure overlap specified above for flight breaks. All flight segments shall consist of no less than three (3) exposures in length.

4.5 Priorities for Photographing Project Areas

The Contracting Officer may direct by written order certain projects or areas listed under an item to be photographed in a priority order, weather and ground conditions permitting. All reasonable efforts will be directed toward providing a schedule of operations favorable to both the Government and Contractor.

C-5 AERIAL FILM

All aerial film used on a project shall be purchased by the Contractor from a single manufacturer and from the same emulsion batch. Extreme care shall be exercised to insure proper exposure and processing of film to minimize vignetting due to differential exposure. This differential shall not exceed that which would result from a basic $\frac{1}{4}$ stop difference in exposure. All pertinent exposure information shall be supplied to the processing laboratory. The film shall be processed as soon as possible after exposure to avoid undesirable changes in the latent image.

5.1 Salient Film Characteristics

Only unexpired, medium or fine grained, polyester base film of the type specified in Section B-1.4(e), Aerial Film shall be used. The film base shall have a nominal thickness of 4 mils and be 24.1cm (9.5 inches) wide. Color and B&W panchromatic emulsions shall be sensitive to the

entire visible spectrum plus an extended red sensitivity to approximately 720 to 750 nanometers. Color infrared and black and white infrared shall be sensitive to the visible and near infrared spectrum from 400 to 900 nanometers.

5.2 Processing

All aerial film shall be processed under controlled sensitometric conditions, to achieve consistent and even development. Processing development gamma shall not vary more than 0.10 density units throughout the roll. All film shall be processed according to manufacturer's instructions.

Prior to processing, a 21-step sensitometric wedge (in 0.15 density increments) shall be exposed on one end of each roll of film and shall remain in the roll when delivered to USDA. A leader of at least two (2) meters (6 feet) shall be retained on each end of the roll.

5.3 Film Densities – Color Films

All color negative film shall be exposed and processed to the manufacturer's recommended specifications. Modified or non-standard processing is not permitted on this contract. Density measurements will be taken on negatives using a transmission densitometer with a 2mm probe for scales 1:36,000 and larger and with a 1mm probe for scale 1:36,000 and smaller. Readings shall be made no closer than 38mm (1.50 inches) from the image edge.

- (a) All minimum (D-min) and maximum (D-max) densities as measured on the original aerial film negatives, using status M filters, shall be no lower nor higher than the values provided below. All density values include the Base + Stain value.

<u>Max Base and Fog</u>	<u>D Min</u>	<u>D Max</u>
Red .25	.60 +/- .15	1.60
Green .15	.50 +/- .15	1.45
Blue .35	.50 +/- .15	1.35

5.4 Storage and Handling

- (a) Aerial Film: Storage, exposure, and handling of all photographic materials shall be in accordance with the manufacturer's recommendation. The film shall not be rolled tightly on spools or in any way stretched, buckled, distorted, or exposed to excessive heat.
- (1) Color and color infrared film shall be kept refrigerated in a waterproof container until one day before being exposed and returned to cold storage after exposure until processed.
 - (2) Cold storage temperature shall not be higher than 40 degrees Fahrenheit (4 degrees Celsius). The film shall be processed as quickly as possible after exposure.

- (b) Film Containers: All rolls of aerial film shall be contained in Contractor furnished 5-3/4 inch diameter sturdy, cylindrical plastic cans.
- (c) Film Can Labels: Film can labels shall be securely affixed to the side of each can and positioned so that the label can be read when the film can is standing with the lid end up. Labels will be furnished by the Government upon contract award. The Contractor shall type or neatly letter each film can label with the required information according to the format example. See Exhibit 2, Figure 1, Film Can Label.

5.5 Dimensional Stability

The dimensional change in any direction across a 23cm (9 inch) distance shall not exceed 0.13mm (-0.005 inch) at 18-24° Celsius (65-75° Fahrenheit) and 45-55% relative humidity.

5.6 Physical Quality

All aerial film shall be free from editing transfer, chemicals, stains, tears, scratches, abrasions, water marks, finger marks, lint, dirt, and other physical defects. The imagery shall be clear and sharp in detail and uniform in density. It shall be free from light streaks, static marks, and other defects that would interfere with the intended purpose.

All film shall be thoroughly fixed and washed to insure its chemical free and of archival quality. Film or prints found to contain an excess of residual chemicals, by testing in accordance with manufacturer's procedures, may be rejected or returned to the Contractor for refixing and rewashing.

5.7 Composition of Film Roll

All aerial film on any one roll shall have the same roll number and shall consist only of exposures made with the same camera system (lens, cone, and magazine). Every exposure within a roll of film shall be titled and include the data strip with clock (date/time) appearing between each frame, regardless if it is rejected or unused for coverage. See Section C-6, Titling of Aerial Film.

Two (2) meters (6 feet) of blank or unused film shall be left beyond the first and last used exposure on each roll or segment to serve as leader and trailer. Some unexposed film must be retained at the beginning or end of a roll for the step wedge which is required for controlled processing.

Film spools having a flange diameter of approximately 13.2cm (5-3/16 inches) shall be used, and only that length of film which can be wound on a spool without strain, leaving at least 3.2mm (1/8 inch) of flange exposed, shall be placed on each spool.

A minimum of four (4) run-off exposures shall be made before the first useable exposure on a mission and at the beginning of each new roll. A minimum of four run-off exposures between useable exposures is required if a mission is interrupted by more than thirty minutes and/or if splicing is necessary.

5.8 Splicing Film

Splicing shall be accomplished with 19mm (3/4 inch) pressure sensitive polyester base tape. The splices shall be of the butt-joint type with tape laced on both sides of the splice. Particular care shall be given to the alignment of the film when splicing, and trimming of all excess finding tape in order that the film will be perfectly straight after splicing. A splice shall not be closer than 13cm (5 inches) from the image edge of any acceptable frame.

C-6 TITLING OF AERIAL FILM

Every exposure within a roll shall be titled regardless if acceptable or unacceptable, used or unused, accepted or by the Contractor's quality control check or the Government's inspection.

6.1 Required Titling

Each exposure shall be clearly titled in accordance with the following format example sketch and include required project data:

+	MM-DD-YY	12:00	USDA-FS	+	12	616162B	209-222	+
---	----------	-------	---------	---	----	---------	---------	---

Date: Month-Day-Year in standard numeric notation (MM-DD-YY).

Time: The local standard time of exposure shall be titled only on the first and last used exposure in each strip and at each break in the flight line, including breaks due to reflights.

Agency Designator: Government agency acronym for this project is USDA-FS

Scale: Nominal photographic scale represented by two digits to nearest thousand.

Code: Project identification code for this project is: 616162B

Roll Number: Number in series, followed by the contract fiscal year designation: 109, 209, 309, etc.

Exposure Number: Per roll, number in unbroken series beginning with 1, not 001 or 01.

6.2 Type and Size of Characters and Application

The characters used in titling shall be standard block lettering 6.35mm (1/4 inch) high. They shall be sharp, legible, and uniformly applied with non-flaking black ink. The titling shall be placed on the non-emulsion side of the film and may be applied by use of an ink drawing pen or

stamp. No smears or transfer of marking ink to other parts of the film roll shall be permitted. Heat transfer lettering devices may only be used if prior consent is obtained from the Contracting Officer.

6.3 Location of Titling Characters

Identifying data shall be placed in line along the most northerly inflight (endlapped) edge of the aerial exposures of north-south flights and shall be placed along the western edge of the exposures in east-west flights. Titling shall be positioned so that the characters are 2.5mm (1/10 inch) from the image edge and 2.5mm (1/10 inch) from the corner fiducials.

6.4 Assigning Roll Numbers

- (a) Original Photography: All rolls of film submitted shall be numbered consecutively beginning with the first number of those assigned in Section C-6.1, Required Titling.
- (b) Reflight Photography: Rolls of film used in the photography of reflights ordered by the USDA shall also be numbered consecutively starting with the next highest roll number than previously assigned. The original contract fiscal year shall be retained in all roll numbering.

6.5 Rejected or Not Used Exposures

No exposure shall be removed from the roll unless authorized by the Contracting Officer or his/her representative.

C-7 INSPECTION PRINTS

Color inspection prints shall be made from the original aerial film and furnished for inspection. Inspection prints shall be of such quality to bring out all the details of the film image and to clearly indicate the acceptability of the coverage and technical requirements.

7.1 Color Balance Samples

Prior to printing the color contact prints, the contractor must furnish samples of prints for a selection of the contrast and/or color balance. The contractor must furnish a minimum of three (3) sets of color contact prints produced from the original film for a selection of contrast and/or color balance. One set shall represent the type of ground cover specified in Section B-1.5(b), another set of the non-typical ground cover, and the final set shall represent both typical and non-typical ground cover. Each three-print set shall be made from the same exposure on a roll of film with two (2) of the contact prints within the set shifted 2.5 to 5 cc filtration in each direction warm and cool from the normal central color balanced print.

7.2 Inspection Print Titling

All inspection prints shall be properly titled in accordance with Section C-6, Titling of Aerial Film, above.

7.3 Inspection Print Preparation – Color Contacts

Full-size (9"x9", 23cm x 23cm) color contact prints shall be grouped and stacked by flight line number. The prints in each flight shall be arranged in sequence from north to south for N-S flights, west to east for E-W flights. Each flight shall be bound with a sturdy paper band and identify the flight line number, roll number, and exposure number range.

7.4 Materials to be Used

Photographic papers of proper contrast must be used in making suitable inspection prints to bring out all the details of the film image. Prints must be properly developed and thoroughly fixed and washed. They must be clean and free from stains, blemishes, uneven spots, air bells, fog, and finger marks.

C-8 DIGITAL PHOTO-CENTER DATA FILE

8.1 Photo-Center Data File Description

Contractor shall prepare a digital photo-center data file for all aerial photography acquired under this solicitation. The file(s) shall be provided in ASCII comma delimited text format. A comma delimited header line shall precede the data in each file as shown in the example below.

The latitude/longitude coordinates shall be expressed in decimal degrees with five (5) decimal places of precision (41.21936, -122.41498) formatted to NAD83 datum and accurate within 30 meters (100 feet) of the true photo center location. Longitude must be expressed as negative space for western hemisphere. Higher accuracies obtain through use of GPS technology are desirable but not required. The photo-center data shall include the following attributes:

DESCRIPTION	MAXIMUM NUMBER OF CHARACTERS IN FIELD	HEADER NAME
Project Identification Code	7	ProjID
Flight Line Number*	2	FltLn
Film Roll Number	3	RollNum
Exposure Number	4	ExpNum
Date of Exposure (YYYYMMDD)	8	ExpDate
Camera Lens Serial Number **	10	Lens
Calibrated Focal Length in millimeters(mm)	7	Cfl
Latitude (DD.DDDDDD)	9	Lat
Longitude (-DDD.DDDDD (Negative))	10	Lon
Flight Altitude in meters at camera (MMMMM.MM; MSL)	8	FltAlt

*Flight line number should be padded with leading zeros as necessary.

Example:

```
code,fltn,rollnum,expnum,expdate,lens,cfl,lat,lon,fltalt  
616162B,05,109,101,20090820,12345678,210.002,41.71936,-122.414980,1048.63  
616162B,15,209,1201,20090822,12345678,210.002,41.71936,-122.414980,1048.63
```

8.2 Metadata File Description

Contractor shall include a metadata file containing, at a minimum, the following data:

Project Name (Name as appears in Section B-1, Project Item 1)
Nominal Photo Scale
Nominal Lens Focal Length
Film Type (CN)
Number of Film Rolls
Coordinate System Datum
Coordinate Data Collection Method (GPS, Digitizing, etc.)
Estimated Accuracy of Coordinates (Within Meters or Feet)
Date ASCII Exposure Data File was created

Example: Wallowa Valley RD, Wallowa-Whitman NF, OR 1:12,000 210mm CN 9
NAD83 GPS 30m 08162009

8.3 Media Requirement

The project photo-center data file and metadata shall be provided on a CD-ROM. All compact disks (CDs) shall be delivered on archival media, 700 Megabytes (80-minute) per disk CD-R, ISO 9660 Mode 1 format using level 2 interchange. The contractor must insure that each and every copy session has been properly closed. No multi-session enabled CDs shall be acceptable. The CD media shall have a label attached identifying the contents of the CD in accordance with Exhibit 5 (thermal printed CD are acceptable). All CD media shall be packaged in standard single CD jewel cases (5-5/8" x 4-15/16" x 3/8") with a clear front cover. The CD label should be readable without opening the case or removing the CD from the case. "Slim" or other non-standard sized jewel cases will not be accepted.

LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

<u>Exhibit</u>	<u>Description</u>	<u>Page</u>
Exhibit 1	Project Map	21
Exhibit 2	Labeling Requirements (2 page)	22-23
Exhibit 3	Progress Report (1 pages)	24
Exhibit 4	Wage Determination (3 pages)	25-27
Exhibit 5	Glossary and Definitions (1 page)	28

Attachment A USDA Aerial Camera Specifications (9 pages)

EXHIBIT 1
PROJECT MAP

U.S. DEPARTMENT OF AGRICULTURE
AERIAL SURVEY
SOLICITATION NO: USDA-FS-11-09
ITEM 1: Wallowa Valley (Wallowa-Whitman
National Forest), OREGON
SCALE: 1:12,000
LENS: 8 1/4" (210mm)
FILM: Color Negative
PROJECT IDENTIFICATION CODE: 616162B

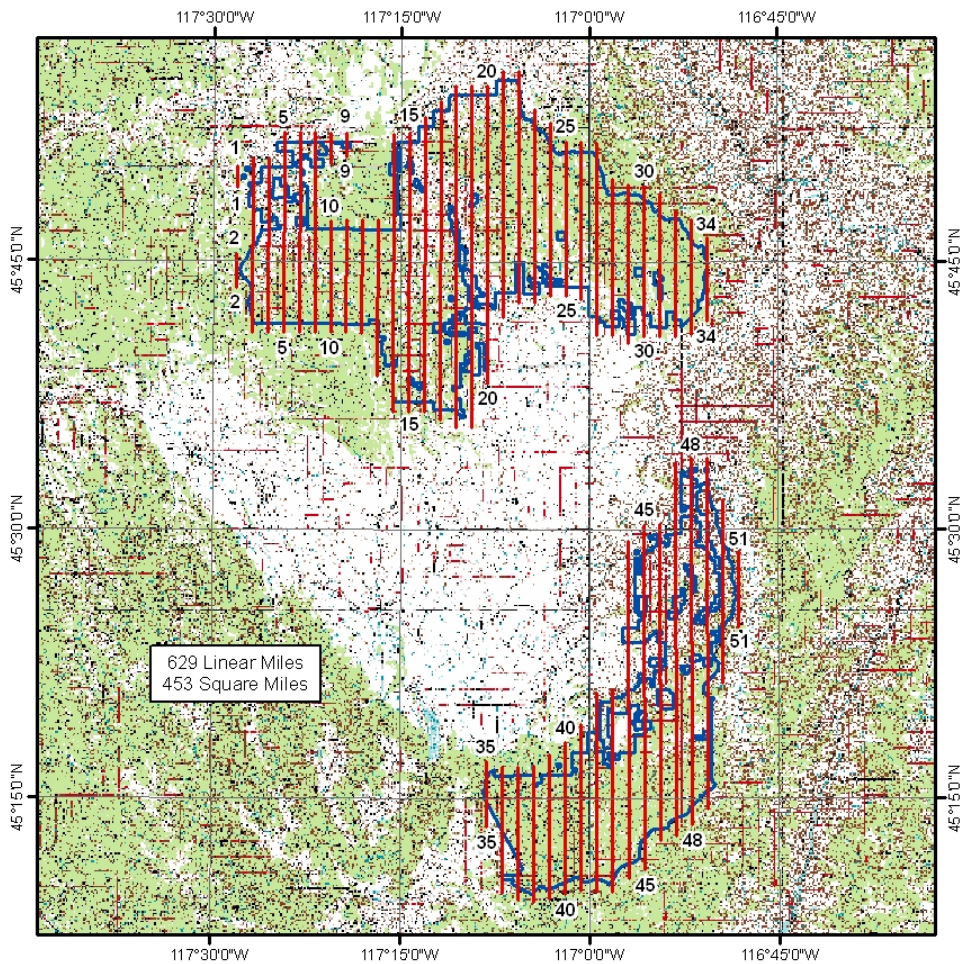


EXHIBIT 2

LABELING REQUIREMENTS

Figure 1

Film Can Label

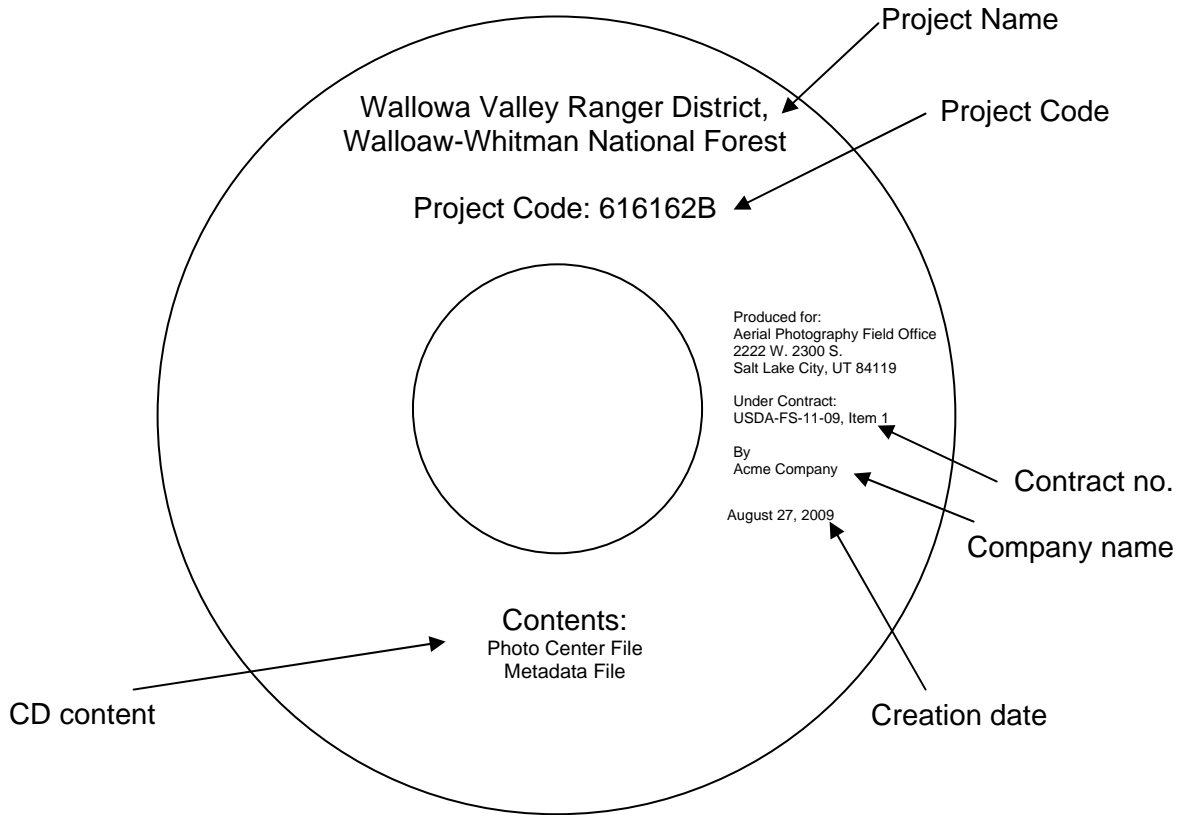
FILM CAN LABEL			
SOLICITATION NO. AND PROJECT ITEM NO. USDA-FS-11-09, Item 1			ROLL NO. 209
STATE OREGON	NOMINAL SCALE 1:12,000	FILM TYPE CN	
LENS NO. #####	CAMERA NO. #####	CAMERA MAKE Zeiss	
CALIBRATED FOCAL LENGTH 210.000	USGS REPORT NO. OSL/#####	USGS REPORT DATE 30-MAY-07	
PROJECT NAME	CODE	EXPOSURE NOS.	DATE EXPOSED
CONTRACTOR: USDA-FSA-AERIAL PHOTOGRAPHY FIELD OFFICE APFO-55 (2000)			

INSTRUCTIONS: PLEASE COMPLETE ALL BOXES THAT ARE APPLICABLE.

EXHIBIT 2
 LABELING REQUIREMENTS

Figure 2

CD-ROM Labeling Requirements



ELEMENT	EXAMPLE
CD content	Photo Center File and Metadata File
Company name & logo	Acme Company
Contract number	USDA-FS-11-09, Item 1
Creation date	August 27, 2009
Project Name & code	Wallowa Valley Ranger District, Wallowa-Whitman NF, OR Project Code: 616162B

EXHIBIT 3

PROGRESS REPORT FORMAT

Syntax:

HEADER ITEMS: field-name “:”[field-body][CRFL]

BODY ITEMS: body item [CRFL]

Header Items:

All four header items are required to be submitted in each and every submittal.

<u>DESCRIPTION</u>	<u>KEYWORD</u>	<u>FORMAT</u>
Contractor Name	CONTRACTOR	Alphanumeric
Contract Award Number	CONTRACT	Numeric (N-YY)
Award Item	ITEM	Numeric (N)
Date Flown	DATE	Date (YYYYMMDD)

Body Items:

All data elements are required for each line of data submitted. Data elements are to be separated by 5 ASCII decimal 32 (white space). Acquisition and rejected exposure stations can be submitted as separate reports or as a combined report.

<u>DESCRIPTION</u>	<u>KEYWORD</u>	<u>FORMAT</u>
Latitude	N/A	DD.DDDDD
Longitude	N/A	-DDD.DDDDD
Status	N/A	Char(1)*

* Status Field:

A - Indicates the Exposure Station has been collected

R – Indicates the contractor has rejected a previously acquired Exposure Station

When an exposure station is rejected the exposure station will appear in a later report marked with an “R”. Each report submitted should include only one status indicator for a particular exposure station.

Sample:

```

CONTRACTOR: Acme Photography
CONTRACT: 11-09
ITEM: 1
DATE: 09/30/2009

```

```

42.99972,-106.33611,A
42.99972,-106.34167,A
42.99972,-106.34722,A

```

Notes:

- 1) Text is case insensitive.
- 2) Header fields are not required to occur in any particular order.
- 3) Body items must occur after the headers.
- 4) Each header item must be on a single line (no “folding”).
- 5) Keywords may not contain spaces and must be followed immediately by a colon.
- 6) The header items and body items may be separated by a NULL line (a blank line with a carriage-return/line-feed (CRFL)(ASCII 13 and 10).
- 7) Body items can only contain one x,y data pair per line and must be terminated by a carriage-return/line-feed.
- 8) Contract number must be transmitted without the prefix (i.e., USDA-FS-11-09 should be sent as 11-09).
- 9) Date must be transmitted as MM/DD/YYYY.
- 10) Latitude and longitude must be expressed in decimal degrees and separated by a comma.
- 11) No e-mail attachments.

EXHIBIT 4

WAGE DETERMINATION

Wage Determination: 1995-0222, 27

Page 1 of 3

REGISTER OF WAGE DETERMINATIONS UNDER THE
SERVICE CONTRACT ACT
By direction of the Secretary of Labor

Shirley F. Ebbesen Director Division of Wage
Determinations

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON, D.C. 20210

Wage Determination No.: 1995-0222
Revision No.: 27
Date of Last Revision: 02/06/2009

Nationwide: Applicable in the continental U.S. Alaska, Puerto Rico, Hawaii and Virgin Islands.

****Fringe Benefits Required Follow the Occupational Listing****

Employed on U.S. Government contracts for aerial photographer, aerial seeding, aerial spraying, transportation of personnel and cargo, fire reconnaissance, administrative flying, fire detection, air taxi mail service, and other flying services.

OCCUPATION CODE - TITLE	MINIMUM WAGE RATE
31010 - Airplane Pilot	24 .36
(not set) - First Officer (Co-Pilot)	22 .18
(not set) - Aerial Photographer	12 .17

EXCEPT SCHEDULED AIRLINE TRANSPORTATION AND LARGE MULTI-ENGINE AIRCRAFT SUCH AS THE B-727, DC-8, AND THE DC-9.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$3.24 per hour or \$129.60 per week or \$561.60 per month

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

VACATION (Hawaii): 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 10 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HEALTH & WELFARE (Hawaii): \$1.37 per hour, or \$54.80 per week, or \$237.47 per month hour for all employees on whose behalf the contractor provides health care benefits pursuant to the Hawaii prepaid Health Care Act. For those employees who are not receiving health care benefits mandated by the Hawaii prepaid Health Care Act, the new health and welfare benefit rate will be \$3.24 per hour.

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordinance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close

EXHIBIT 4

WAGE DETERMINATION, CONT.

Wage Determination: 1995-0222, 27

Page 2 of 3

proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**** UNIFORM ALLOWANCE ****

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at <http://www.dol.gov/esa/whd/> or through the Wage Determinations On-Line (WDOL) Web site at <http://wdol.gov/>.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}**Conformance Process:**

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour decision to the contractor.
- 6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

<https://cslxwep1.dol-esa.gov/SF98/getwd.jsp?wdid=40198>

2/9/2009

EXHIBIT 4

WAGE DETERMINATION, CONT.

Wage Determination: 1995-0222, 27

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When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

**** OCCUPATIONS NOT INCLUDED IN THE SCA DIRECTORY OF OCCUPATIONS ****

Aerial Photographer

The aerial photographer must be skilled in reading flight maps, capable of assisting the pilot to adhere to flight lines, be able to level and operate a cartographic camera and its auxiliary equipment mounted in the aircraft so that the photographs that are taken will have the required forward lap and side lap for use in photogrammetric mapping equipment, and possess a working knowledge of aerial films and camera filters to insure proper exposure of the films.

First Officer (Co-Pilot)

Is second in command of commercial airplane and its crew while transporting passengers, mail, or other cargo on scheduled or nonscheduled flights. Assists or relieves an airline captain in operating the controls of an airplane; monitoring flight and engine instruments; and maintaining air-to-ground communications.

EXHIBIT 6

GLOSSARY AND DEFINITIONS

Camera System: The combination of lens, cone, magazine(s), and camera filter(s) which have been calibrated as an integral unit.

Contracting Officer's Technical Representative (COTR): A person assigned to a contract who has the responsibility of providing technical information such as site ground and weather conditions.

Contracting Officer's Representative (COR): A person assigned to a contract who is responsible for specific technical and administrative duties related to that contract.

Exposure Stations: Pre-determined locations, annotated by USDA on the flight map, where photo centers of individual frames are to be exposed.

Film Titling: Information annotated on the original aerial film pertaining to project and exposure identification.

Line Item: A separable area or unit within a project item that has separate linear miles. All line items within a project item shall be awarded to only one offeror.

Original Photography: All aerial photography, as secured by the Contractor, prior to its inspection by the USDA, including any reflights made at the discretion of the Contractor.

Project Item: An area or areas described in the Schedule for which award shall be made to one offeror.

Reflight Photography: Photography reflown to replace original photography rejected by USDA.

Remake Materials: Any contract materials, other than the original aerial film, ordered remade by USDA.

Stereomodel: The area covered by the conjugate images of three successive overlapping exposures.

APFO: Aerial Photography Field Office.

FSA: Farm Service Agency.

FS: Forest Service.

NRCS: Natural Resource Conservation Service.

USDA: United States Department of Agriculture.

USGS: United States Geological Survey.

REQUEST FOR PROPOSAL

SOLICITATION NUMBER: USDA-FS-4-09

AERIAL PHOTOGRAPHY SERVICES

For Kaibab National Forest, Arizona, and

Lincoln National Forest, New Mexico

Solicitation Issue Date: April 1, 2009

Proposal Due Date: May 1, 2009



U.S. DEPARTMENT OF AGRICULTURE
FARM SERVICE AGENCY
AERIAL PHOTOGRAPHY FIELD OFFICE

NOTICE TO OFFEROR

Any proposal submitted for this RFP must be identified with the following information labeled on the outside of the mailing package:

SOL.NO: USDA-FS-4-09

DUE DATE: 01-MAY-2009, 4:30 PM

RECEIVING OFFICE: CONTRACTING

Mail To: AERIAL PHOTOGRAPHY FIELD OFFICE
CONTRACTING OFFICER
2222 WEST 2300 SOUTH
SALT LAKE CITY UTAH 84119

NOTICE TO PROSPECTIVE OFFERORS :

OFFERORS ARE CAUTIONED TO NOTE THE FOLLOWING SPECIAL CONTRACT REQUIREMENTS:

Section L for proposal preparation instructions. Any proposal submitted in response to this solicitation must be presented in two parts, a pricing proposal and a technical proposal.

Section B, Paragraph 1.2(e) & 2.2(e), 6" Focal Length Aerial Mapping Camera required.

Section B, Paragraph 1.2(h) & 2.2(h), Full-size color contact inspection prints required.

Options include: (1) ABGPS & IMU, See Section B-3 and (2) scanning of aerial imagery, See Section B-4.

This RFP is subject to the Availability of Funds Clause (FAR 52.232-18). See Section B-5.2, Page 8.

This solicitation is totally set-aside for small business concerns. See FAR Clause 52.219-06, Notice of Total Small Business Set-Aside (July 1996).

The complete text of any or all clauses referenced herein may be obtained by submitting a request, identifying this solicitation number, to the Contracting Officer, USDA, FSA, Aerial Photography Field Office, 2222 West 2300 South, Salt Lake City, Utah 84119. Complete copies of the FAR in loose-leaf or CFR form may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington D.C. 20402.

ATTACHMENT A

USDA AERIAL CAMERA SPECIFICATIONS

1. PRECISION AERIAL MAPPING CAMERA

Tested and calibrated aerial cameras for taking aerial photographs are required. Camera systems must be compatible with precision stereoscopic mapping instruments and with analytical mensuration procedures used in photogrammetric surveys and in preparing accurate topographic maps.

1.1 Camera System "Report of Calibration"

One copy of the "Report of Calibration" from the U.S. Geological Survey, for any camera system to be used, is required to be either on file at the USDA, or submitted with the contractor's offer. A camera system "Report of Calibration" will not be acceptable if more than three (3) years old at the scheduled date for receipt of offers.

1.2 Calibration Tests

Tests to determine compliance with these specifications will be performed by the Optical Science Laboratory of the U.S. Geological Survey. The fee for the tests and the arrangements to have the tests performed are the responsibility of the contractor. Delays encountered in having camera systems tested by the USGS Optical Science Laboratory will not be considered reason for the USDA to accept offers lacking such reports. Each camera system submitted for calibration shall be accompanied by all magazines and filters that might be used with the camera. Controls and camera mounts should not be submitted unless requested by the calibrating laboratory. Instructions for operation of the camera, including directions for holding the shutter open for laboratory tests, shall accompany each camera unless ascertained to be on file with the calibrating laboratory.

1.21 Interval Between Tests

The interval between tests for camera system calibrations shall not exceed three (3) years, unless otherwise approved by the Contracting Officer. However, when there is any reason to believe that the dimensional relationship of the lens, fiducial marks, and film plane have been disturbed by partial disassembly or unusual mechanical shock, the camera must be submitted for recalibration at contractor expense.

1.22 Contact for Calibration Tests

U.S. Geological Survey
National Mapping Division
560 National Center
Reston, Virginia 20192
Attention: Chief, Optical Science Laboratory
Phone: (703) 648-4692

1.23 Shipping Address for Calibration Tests

U.S. Geological Survey
12201 Sunrise Valley Drive
Reston, Virginia 20192
Attention: Frank MacCue (703) 648-4692

1.3 Constructional Design Necessary to Permit Testing

To permit testing for determination of calibrated focal length, distortion, resolving power, fiducial mark locations, and stereomodel flatness, the constructional design of the camera shall be as follows:

1.31 Focal Plane

The focal plane shall be accessible from the rear so that a telescope placed behind the camera may view objects in front of the lens, limited only by the size of the focal plane opening. It shall be possible to place the surface of an optical flat having a thickness of 31 mm (1 1/4 in.) on the focal plane of the camera.

1.32 Focal Plane Frame

The focal plane frame shall be so constructed as to permit placement of a glass photographic plate on its surface so that the emulsion surface of the glass photographic plate lies in the true focal plane of the camera. The size of the frame image shall be 23 x 23 cm (9 x 9 inches).

1.4 Camera Components Required for Testing

1.41 Lens Cone Assembly

The lens cone assembly must be so constructed that the lens and fiducial marks comprise an integral unit. The design of the lens cone shall be such that it maintains the required precise relationship between the lens,

fiducial marks, and focal plane on which the film platen shall be positioned. Construction shall be such as to maintain the dimensional relationship of these components under normal conditions of transportation, handling, and use, which can include considerable mechanical and thermal shock. The structure holding these components shall be supported in use in such a manner that stresses likely to change the required dimensional relationships cannot be transmitted to it from the supporting body or mount. The lens cone assembly shall be so designed and manufactured that all parts will return precisely to their original positions, should it be necessary for any reason to disassemble it. However, any disassembly of the lens cone assembly shall require recalibration at contractor's expense before further use.

1.42 **Film Platen**

Cameras shall be equipped with an approved means of flattening the film at the instant of exposure. The platen against which the film is held shall not depart by more than ± 0.013 mm from a true plane, when the camera/magazine vacuum is applied.

1.43 **Shutter**

The camera shall be equipped with a between-the-lens shutter of the variable-speed type. The range of speed settings shall be such that, for all anticipated combinations of flight heights, aircraft speeds, film speeds, and light conditions, the camera will produce high-resolution photographs. The effective exposure time and efficiency of the shutter as mounted in the camera will be measured at a maximum aperture and shall have a minimum efficiency of 70 percent at a speed of 1/200 second. This test shall be made in accordance with the "American National Standard Shutter Tests for Still-Picture Cameras," Method I, approved January 12, 1972, American national Standards Institute (PH3.48-1972) (R1978). The shutter shall have a speed of 1/400 second and slower for exposing film negatives during calibration.

1.44 **Fiducial Marks**

Either four or eight fiducial marks are required. If the four fiducial marks are in the corners of the format area, there must be a set of marks (V-notches or equivalent) in the frame at the midsides for use in centering diapositives in a stereoplotter. If there are eight fiducial marks, the corner fiducial marks shall form a quadrilateral whose sides are equal within ± 0.500 mm. The midside fiducial marks shall be equidistant within ± 0.500 mm from the adjacent corner fiducial marks. All fiducial marks and other

marks intended for precise measuring shall be clear and well-defined on the aerial film and shall be of such a form and contrast that the standard deviation of repeated reading of the coordinates of each made on a precision comparator shall not exceed 0.002 mm. For cameras with projection type fiducial marks the projected images of all marks must be in sharp focus on the emulsion surface. Drawings in figure 1 show acceptable fiducial marks and their arrangements. Fiducials without a center point mark or intersecting lines will not be acceptable. Glass or plastic mounts for fiducial marks will not be acceptable.

- 1.441 The lines joining opposite pairs of fiducial markers shall intersect at an angle within one minute of 90 degrees. (See figure 2.)
- 1.442 The intersection of lines between fiducials--the indicated principal point--shall not be further than 0.030 mm from the point of autocollimation. (See figure 2.)

1.45 **Filter**

Only glass filters with metallic antivignetting coating shall be used to reduce the illumination for uniform distribution of light over the focal plane format. A microdensitometer trace will be made from the antivignetting coating side of the filter to determine if any deterioration is present that would affect the uniformity of illumination in the focal plane. Deteriorations in excess of 50% of the height of the nominal curve for a lease type will be reason for rejection of a filter. The surface with the antivignetting coating shall be toward the camera lens. The filter shall have surfaces parallel within 10 seconds of arc, and its optical quality shall be such that its addition to the camera shall enhance the uniformity of focal plane illumination and not cause a reduction in image resolution. Glass filter combinations which may be required will be specified in Section B.

1.5 **Lens and Platen/Magazine Identification**

The camera or lens number, and the most recent calibrated focal length shall be recorded clearly on the film for each frame either on the inside of the focal plane frame or on a data strip between frames. An alpha numeric mark (or symbol) contained in the platen/magazine which identifies the platen/magazine may also be recorded if available on each frame of film. Data markers located on the inside of the focal plane frame shall not exceed 6.35 mm (0.25 inch) in height and 25.4 mm (1.0 inch) in length and shall not obscure any part of the fiducial marks.

1.6 **Optical Requirements**

Cameras will be given both a static and an operational type test made after final assembly of all parts of the camera system with the light filter in place on the lens. All tests of the lens cone assembly for determination of the calibration constants, calibrated focal length, distortion and resolution will be made using high contrast targets and Eastman Kodak Spectroscopic emulsion Type 157-01 on Kodak Aerial Calibration Plates. Cameras will be operationally tested for stereomodel flatness and resolution by exposing Eastman Kodak Double-X Aerographic film 2405 in the camera while mounted on a multicollimator camera calibrator. (The optical requirements for distortion, model flatness, and resolution for various focal length cameras are defined and tabulated in table 1.) The camera focal length stated in Section B must meet the minimum requirements for that focal length as shown in table 1.

1.61 **Distortion**

1.611 **Radial**

The distortion in image position as measured along radial lines from the principal point of symmetry. The value of the average radial distortion referred to the calibrated focal length shall not exceed the amount shown in table 1.

1.612 **Decentering**

The distortion in image position as measured perpendicular to radial lines from the principal point of symmetry. The value of the decentering distortion shall not exceed the amount shown in table 1. This value shall be evaluated for 153 mm cameras only.

1.62 **Point of Symmetry**

The calibrated principal point — the point of symmetry — shall not be further than 0.020 mm from the point of autocollimation for 153 mm focal length lenses and no further than 0.040 mm for all other focal length lenses. (See figure 2 / table 1.)

1.63 **Resolution**

Radial and tangential resolving power, in line pairs per millimeter, shall be no less than the value listed in table 1 for each focal length lens.

1.64 **Test Aperture**

All camera-lens calibration tests shall be made at the maximum aperture specified by the manufacturer for that lens.

1.65 **Model Flatness**

The model flatness test will be performed only for 153 mm and 88 mm cameras. Diapositives will be printed from two film exposures of the collimator targets on micro flat glass plates. Two stereomodels will be analytically formed from these using different halves of the exposures for each model. Each model thus formed will consist of a small fixed number of symmetrically arranged points. The allowable deviation from flatness, taken as the range between the maximum negative and the maximum positive value shall be no greater than $\pm 1/8000$ of the focal length of a nominal 6-inch (153-mm) camera, or $\pm 1/5000$ of the focal length of a nominal 3 1/2-inch (85-88 mm) camera. If elevation discrepancies exceed this value, the camera will not be acceptable. (See table 1.)

Figure 1
EXAMPLES OF ACCEPTABLE FORMS OF FIDUCIAL MARKS

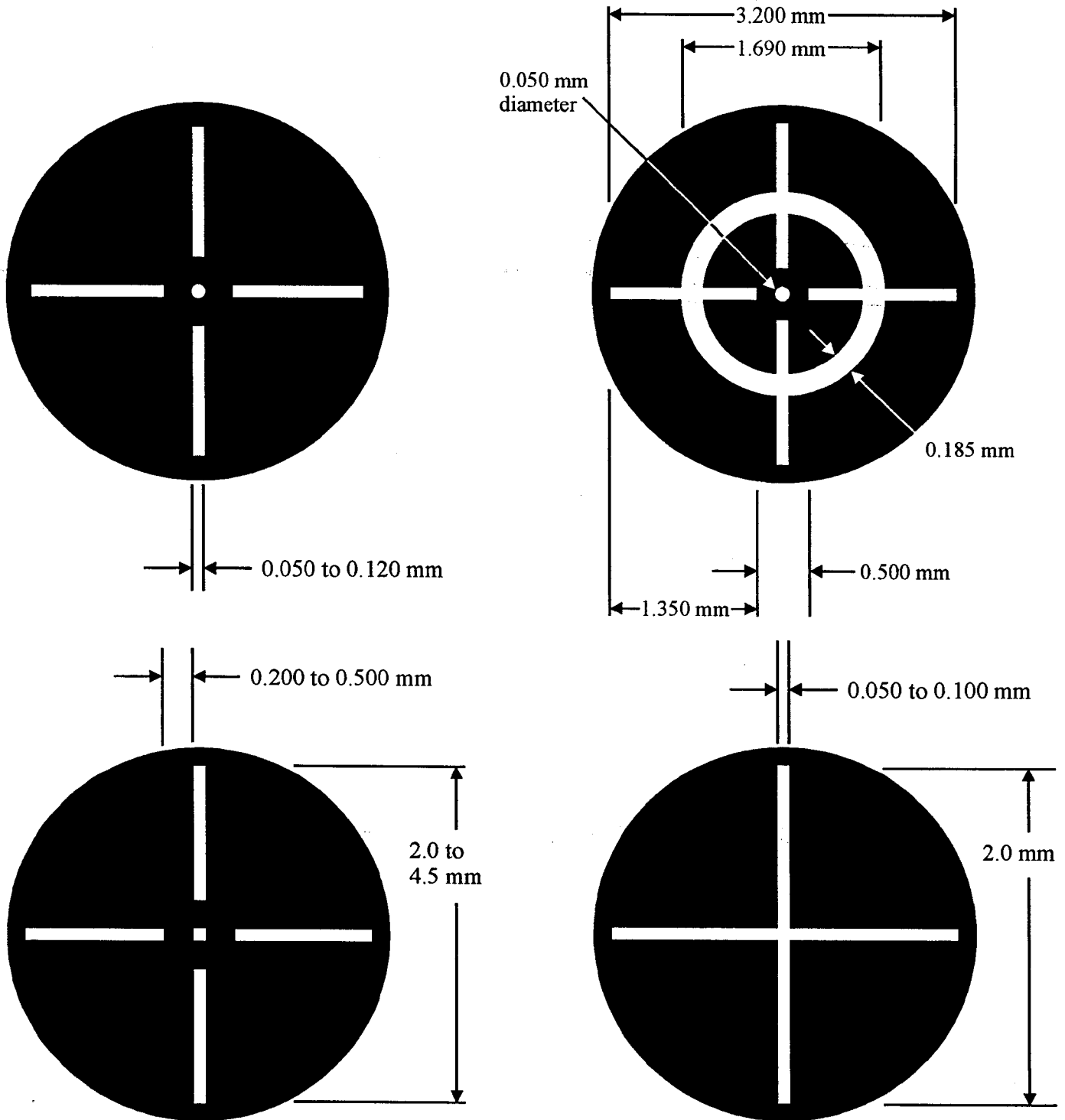
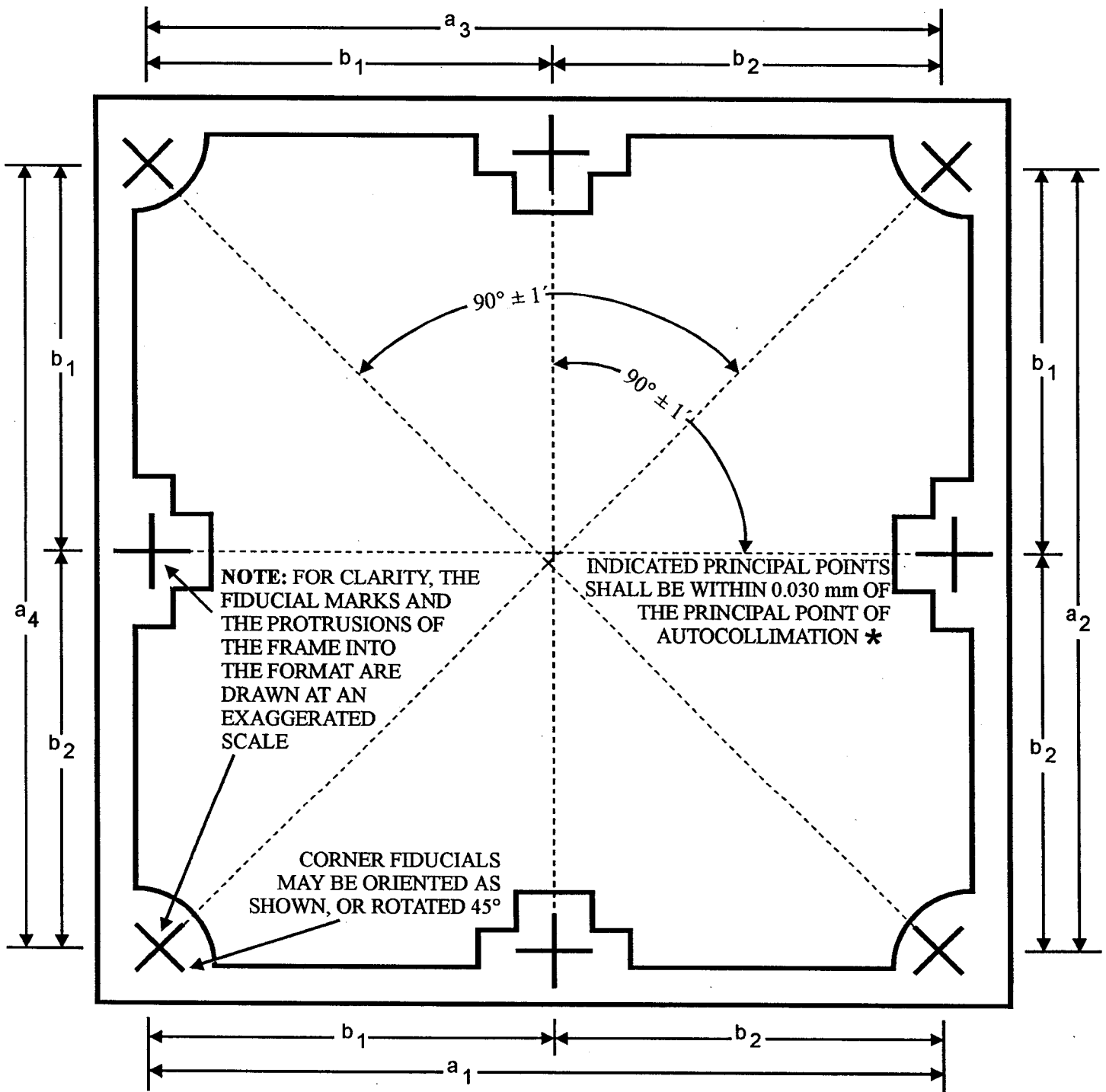


Figure 2 ARRANGEMENT OF FIDUCIAL MARKS



$a_1 = a_2 = a_3 = a_4$ (within 0.500 mm)

$b_1 = b_2$ (± 0.500 mm)

*** THE CALIBRATED PRINCIPAL POINT - THE POINT OF SYMMETRY - SHALL BE WITHIN 0.015 mm OF THE PRINCIPAL POINT OF AUTOCOLLIMATION FOR 153 mm FOCAL LENGTH LENSES AND 0.030 mm FOR ALL OTHER FOCAL LENGTH LENSES.**

USDA OPTICAL REQUIREMENTS

Table 1

TABULATION OF OPTICAL REQUIREMENTS

Focal Length	88mm	153mm	210mm	305mm
Focal Length Within	± 4mm	± 3mm	± 4mm	± 5mm
Useable Angular Field	120°	90°	70°	50°
Field Angle-From Axis out to:	54.5°	40°	30°	22.7°
DISTORTION - At Maximum Aperture				
Radial Distortion - Tolerance (um)	± 15	± 10	± 20	± 20
Decentering Distortion - Tolerance (um)	-	≤ 8	-	-
MODEL FLATNESS - (um) Total Difference	± 17	± 19	-	-

INDICATED PRINCIPAL POINTS (Fiducial Centers)

The indicated principal points - fiducial centers - shall fall within a 0.040mm radius circle around the principal point of autocollimation.

CALIBRATED PRINCIPAL POINT (Point of Symmetry)

The calibrated principal point - point of symmetry - shall fall within a 0.020mm radius circle around the principal point of autocollimation for 153mm focal length lenses and 0.040mm for all others.

RESOLUTION

Measured on Spectroscopic Plate at Maximum Aperture

Minimum Radial & Tangential Resolution in Line Pairs per mm
LENS HALF ANGLE

Lens	0°	7.5°	15°	22.7°	30°	35°	40°	45°	50°	54.5°
86mm Wild Super Aviogon II Zeiss S-Pleogon A or equivalent	59	59	49	42	35	30	17	14	12	12
153mm Wild U. Aviogon Zeiss Pleogon A Jena Lamegon Pl or equivalent	57	57	48	48	40	34	14			
210mm Wild N-Aviogon II Zeiss Topargon or equivalent	49	49	42	35	29					
305mm Wild N. Aviotar Zeiss Topar or equivalent	48	48	28	24						