

JULY 1, 2001

**MINNESOTA DEPARTMENT OF TRANSPORTATION
OFFICE OF LAND MANAGEMENT
SURVEYING AND MAPPING SECTION
PHOTOGRAMMETRY UNIT**



SPECIAL PROVISIONS FOR:

**GROUP 4: DIGITAL PHOTOGRAMMETRIC PRODUCTS
AND SERVICES**

PHOTOGRAMMETRIC SCANNING

INTRODUCTION

This Specification is established to provide the Minnesota Department of Transportation (MN/DOT) with “Photogrammetry Products and Services” from Private Photogrammetric Partners (Contractor).

SCOPE OF WORK

These Specifications set forth the minimum standards to be met and general procedures to be followed in the development of digital images from film products.

Specific photogrammetry services authorized by this specification include the following:

- Photogrammetric Scanning.

ITEMS PROVIDED AND/OR COMPLETED BY MN/DOT

Specific information to be supplied for each project includes the following:

- Work Order Contracts. Each Work Order Contract will include the following information:
 - Project designation.
 - Item number.
 - Specific Project Deliverables (including list of images to be scanned).
 - Deliverables Schedule/Evaluation.
 - Scanning resolution.
 - File Format.
 - Media Format.
 - Electronic File Naming Convention (if required).
 - Start date.
 - Special Requirements.
 - Completion date.
 - Invoice, Incentive/Disincentive Schedule.
 - Total project cost payable to Contractor.
- Project Film Negatives or Diapositives.

Please be advised: it is the Contractor’s responsibility to provide safe storage and prompt return for all items supplied by MN/DOT. The Contractor is liable for lost or damaged items.

DELIVERABLES BY CONTRACTOR

Specific deliverables authorized by this specification include the following:

- Digital Images of Aerial Photographs.

PERFORMANCE BASED SPECIFICATIONS

All products and services authorized under this specification will be completed in accordance with the MN/DOT MANUAL OF SURVEYING AND MAPPING, Chapter Four (current edition), the MANUAL of PHOTOGRAMMETRY (Fourth Edition), DIGITAL PHOTOGRAMMETRY, An Addendum to the MANUAL of PHOTOGRAMMETRY, and the following performance specifications.

EQUIPMENT

Equipment shall be capable of providing:

- Resolution – 600 dpi to 2600 dpi
- Spatial Accuracy - 2 microns (min.)
- Dodging (uniform spectral intensity)

FILE FORMATS

The images may be submitted in TIFF, JPEG or ViTECH format, as specified in the Work Order Contract, delivered on CD's, Zip Disks or approved Tape media.

PROCEDURAL BASED SPECIFICATIONS

All products and services authorized under this specification will be completed in accordance with the following procedural specification and as directed by the Photogrammetric Engineer.

GENERAL

Where the Work Order Contract, contract documents and these specifications describe portions of the work in general terms, but not in complete detail, it is understood that only "Best Industry Practices" are to prevail.