

Work Type Definition: Photogrammetric/Remote Sensing Mapping



I. **Minimum requirements:**

The work to be directly supervised by a Certified Photogrammetrist.

II. **Description**

Photogrammetric/Remote Sensing mapping is the creation of 2 or 3 dimensional maps through the use of aerial images or other remote sensing methods to produce planimetric and/or topographic maps or other mapping related products to a specific set of accuracy standards. This work type may include the following services:

- A. Evaluation of project control to ensure adequate control is present to produce mapping within the specified accuracy standards.
- B. Production of an aero-triangulation solution that bridges the ground survey and provides control for photogrammetric mapping.
- C. Collection of certain planimetric (visible) features.
- D. Production of a Digital Terrain Model (DTM) that will support the generation of contour mapping at the contour interval specified in the RFP.
- E. If requested in the RFP, production of digital orthophotos (as defined: seamless orthorectified digital raster mosaics) conforming to a specific accuracy standard.

III. **Standards and specifications**

Standards and specifications required for a project under this work type may include the following:

- A. All work completed must be in accordance with the Performance Based Specifications and Procedural Based Specifications identified in the contract for a specific project. In lieu of a stated standard National Map Accuracy Standard will apply.
- B. Approved planimetric and topographic map files shall be delivered in Micro-station Design File format. Production and delivery of 100% clean, edited digital data in Micro-station Design File format is required. See Hennepin County CADD Standards:
- C. Approved terrain model files in Microstation .DGN Graphics File format. Production and delivery of 100% clean, edited digital data in Microstation .DGN Graphics File format is required.

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IV. Provided by Hennepin County

Example of information that may be supplied by Hennepin County for a project:

- A. Project designation, location, limits and any match file requirements.
- B. Project coordinate system/Project horizontal and vertical datum including required adjustment/Mapping Projection/Resolution for digital orthophotos
- C. Access to existing project related maps and other documentation

V. Provided by consultant

Deliverables to be supplied by the consultant for a project may include the following:

- A. Planimetric and/or topographic maps per specific project specifications.
- B. Orthophoto production per specific project specification
- C. Photo Index with all control points used marked.
- D. Project report.