

HIGHWAY PHOTOGRAMMETRIC TECHNICIAN I

DESCRIPTION: Under immediate supervision performs photogrammetric tasks as assigned using Computer Aided Design (CAD) technology and stereoscopic instruments on various roadway survey projects; performs related work as required.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Selects and drills pass point locations on diapositives; marks and annotates pass point locations on (photo) prints.

Writes up and inputs ground control points to computer file for use in aerial triangulation.

Creates CAD design files; inputs ground control points and alignment P.I.'s.

Inputs utility locations and annotation to CAD design file, using state plane coordinate data from supplemental field survey.

Calculates station, offset and azimuth for control points from traverse output in preparation for project data sheets.

Creates control point ties, control point/curve data and bench mark data sheets, in the CAD design file, for the project.

Inputs additional survey planimetrics to the CAD design file by station or length and offset from field pick-up survey.

Measures station plus and offset to utilities; enters plus and distance annotation in the CAD design file.

Converts numeric data from English to Metric values.

Reduces level notes for drainage structure elevations.

FULL PERFORMANCE KNOWLEDGE, ABILITIES AND SKILLS REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

Knowledge of: stereo photography; coordinate listings; survey notes; azimuths; centerline stationing; plan sheet formats; planimetric mapping.

Ability to: see stereoscopically; operate personal computer; place cells and text; read and understand alignment listings; use basic four-function math; operate an engineering calculator; measure distances and set right angles within a file; and reduce level notes.

HIGHWAY PHOTOGRAMMETRIC TECHNICIAN I (continued)

ENTRY KNOWLEDGE, ABILITIES, AND SKILLS REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: basic principles and theory of photogrammetry; surveying; topographic drafting; computer aided drafting; English and metric units used for measurement; basic math functions.

Ability to: see in stereoscopic vision.

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training and/or experience.)

Any combination of training and/or experience that will enable the incumbent to possess the required knowledge, abilities and skills. A general qualification guideline for positions in this class is high school education or equivalent AND education or experience in surveying, photogrammetry, drafting and or operation of microstation.