

Beverley J. Evans

Geographer / Cartographer / GIS/CADD Technician / Landscape Designer

Years Experience: 23

Education: The Pennsylvania State University—M.S., Geography
Slippery Rock University of Pennsylvania—B.S., Geography
Temple University—A.S., Landscape Design

Experience & Qualifications:

Ms. Evans has a wide range of experience with civil engineering, landscape design and geographic projects. She is experienced with a variety of drafting and design programs. She has been a project designer for map production and maintenance of databases for civil projects; has used GIS in mapping projects involving community development and community service databases; and has designed green landscapes for residential and commercial properties.

Representative Projects:

Drafting—MicroStation and AutoCAD:

- **Pennsylvania DEP:** Property acquisition projects involve: deed research, drafting deed descriptions and merging properties to create a seamless mosaic. These water improvement projects involve as many as one hundred properties per project. Delivered product includes indexed right-of-way drawings for the project and plats for each property involved, depicting permanent and temporary easements with tabled acreages (*AutoCAD*).
- **Pennsylvania DOT:** Drafted proposed Right-of-way and Easement drawings for New York Avenue, Rochester, Pennsylvania project to client's CAD standards (*MicroStation*).
- **Pennsylvania DCNR:** Draft bridge planimetrics, and cross sections and profiles of involved streams and roads for a variety of bridge surveys to client's CAD standards (*AutoCAD*).
- **Wilbur Smith Associates:** Draft street and sidewalk improvement surveys for the City of Pittsburgh and other municipalities, to client's CAD standards (*MicroStation*).
- **PennDOT and WVDOT:** Draft surveyed topographic features for highway relocation projects in both Pennsylvania and West Virginia to PennDOT and WVDOT CAD standards (*MicroStation*).
- **Pittsburgh International Airport:** Draft existing conditions and design proposals to client's CAD standards (*MicroStation*). Projects include:
 - Regulated clean waste landfill;
 - Removal of potentially hazardous waste;
 - Pavement surveys
 - Delineated survey of utility locations for proposed glycol recovery system.
 - "As-built" surveys to be incorporated into an existing GIS.
- **Surveys:** Draft and prepare surveyed data, producing legal documents for mortgage, property, construction, as-built and ALTA surveys (*MicroStation* and *AutoCAD*). Clients include:
 - PA Department of Natural Resources (DCNR)
 - PA Department of Environmental Protection (DEP)
 - Pittsburgh International Airport (PIA)
 - Allegheny International Airport (AIA)
 - Cities of: Pittsburgh, Sharon, Farrell, Butler
 - Commercial properties
 - Residential properties
- **Subdivision Plans:** Draft and prepare subdivision plans from surveyed data to municipality and county standards throughout Western Pennsylvania (*AutoCAD*).
- **Supervisor:** of CAD operators, including project set-up, distribution, quality checks, and submittal to client.

Community Development:

- Contributed to Comprehensive Plans for Clarion and Huntingdon Counties of Pennsylvania:
 - Collected landuse data for analysis and mapping.
 - Used GIS/mapping to facilitate:
 - Location of resources and areas of concern,
 - Analysis of statistical and mapable data
 - Production of maps and graphics to simplify communication of both the challenges and the solutions.
- Held discussions with municipalities involving planning and zoning issues.
- Assisted with community meetings at preliminary stage of comprehensive plans.
- Produced graphics for use in various municipalities' zoning regulations.

Cartography / Geographic Information Systems (GIS):

Masters Thesis

Researched various means of displaying cartographic reliability data in an animated environment, incorporating classification of remotely sensed imagery, animated mapping, and testing of subjects, resulting in publication.

Municipal GIS: Middlesex Township, Butler County, Pennsylvania

Produced municipal GIS using *ArcView*; creating and attributing parcel layer from tax maps using digital planimetric mapping as a base.

Allegheny County Sanitary Authority, Pennsylvania

Assisted in collection and reduction of GPS data of 500 plus manholes for sewer investigation and mapping project.

Digitize Federal Emergency Management Agency FIRMS

Digitize and attribute flood data, and other base data, from FEMA's FIRMS using *MicroStation* and *ARCInfo* for GIS.

Slippery Rock Township, Butler County, Pennsylvania

Produced and periodically updated zoning map using *ArcView* GIS technology.

Map Production for Planning Firm

Responsible for all areas of map production for planning firm: data compilation, digitalization and attribution, choice and placement of symbology and typography.

Mercer County, Pennsylvania

Updated and prepared photo-ready masters of county road map. Maintained address and road databases within GIS and assigned 911 addresses of residents.

Landscape Design:

Designer of sustainable gardens, incorporating native plants and natural materials as hardscape; creating streams and ponds, decking, patios, and other outdoor structures to produce natural environments. Clients range from small single-family homes to massive commercial sites.

Lectures and Publications:

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| April 1998 | <i>The Working World of GIS</i> , Guest lecturer, Department of Geography, Slippery Rock University of Pennsylvania. |
| May 1997 | <i>Dynamic Display of Spatial Data-Reliability: Does it Benefit the Map User?</i> <u><i>Computers and Geosciences</i></u> , Vol. 23 No. 4 Pergamon, Elsevier Science Ltd., 409-422. |
| March 1995 | <i>Cartographic Display of Spatial Data-Reliability: Does it Benefit the Map User?</i> Paper presented at the annual meeting of the <i>Association of American Geographers</i> , Chicago. |