

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Providence maintains a full in-house service for advanced mapping, drafting, imaging, and geographical information system (GIS) capabilities. The GIS/Drafting group utilizes the industry leaders in GIS/Drafting modeling and mapping software. Our GIS professionals have an extensive knowledge base in integrating spatial data from various sources such as Trimble Global Positioning Systems (GPS), ESRI arcGIS, AutoCAD Civil 3D, AutoCAD Land Development, ERDAS Imagine, and Global Mapper; designing and managing relational database; database querying and statistical analysis; web-site hosting using Interactive Mapping Systems (IMS) for delivering dynamic maps and GIS data and services via the World Wide Web and topographic, aerial and satellite imagery interpretation and geo-referencing.

Professional Services

Our data management services include:

- Aerial photography acquisitions
- Aerial photogrammetry and mapping
- Geographic referencing of photography, base maps, etc.
- Image classification and analysis (remote sensing)
- Global Positioning System (GPS) data collection
- Graphical modeling
- Environmental Data Management Systems (EDMS) development and implementation
- Mapping (from nationwide to site specific)
- Web-Based mapping
- Data manipulation and conversion
- Access to extensive spatial and raster data library

Professional Services

Providence can provide turn-key service for a variety of data management needs:

- Geographic Information Systems
- Global Positioning System
- Database programming
- Remote sensing
- Mapping
- CAD

