



## GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Ulteig's Geographic Information Systems (GIS) practice helps both our clients and our own professionals attain wide-ranging goals, gaining a comprehensive understanding of their informational needs and opportunities. Ulteig provides GIS and IT services to Federal and state agencies, municipalities, airports, energy and other utilities and varied organizations. We help our clients draw knowledge from data about their business processes; ultimately creating implementation plans, spatial GIS data and applications.

### MULTI-DISCIPLINARY APPROACH

- Experienced professionals that understand the municipal government industry
- Expertise in every facet of implementing GIS from start to finish
- Innovative use of geospatial technology as it relates to your municipal business needs

### GIS SERVICES

- Planning
  - Needs assessments
  - Master plans
  - GIS CIP
- Enterprise Database Design and Development
  - Basemap generation and maintenance
  - Parcels
  - Addresses
  - Roads/streets
  - Utility infrastructure
  - Data conversion/data migration
- Applications
  - Web GIS/internet/intranet
  - Mobile GIS
  - Desktop GIS

### Utility Infrastructure Inventory and Management

- Water distribution systems
- Sanitary sewer systems
- Street lighting and sign systems
- Record drawing management

### Data and System Integration

- Tax databases
- Document/image records
- Permitting records

### Aerial Photography

- Ground control survey
- Digital aerial photo acquisition
- Image processing

### Spatial Analysis

- 3D modeling
- Corridor analysis
- Site selection
- Route optimization
- Suitability modeling



GPS new underground secondary line



Utility mapping



Access to data in the field