

City of Jackson, Michigan

Project Title

Property & Water System Geodatabase Conversion Projects



Project Description

For many years, the City of Jackson has maintained its property mapping and water system mapping in AutoCad format. They have had a great desire to modernize the mapping into GIS format and make it compatible with the GIS data and systems being developed at Jackson County. By doing this they mean to move towards a more robust and central information system within the City government and realize the advantages of GIS for themselves and in their operations. Consequently, they have decided to utilize ESRI's geodatabase and the ArcGIS system for the mapping and analysis portion of their enterprise system.

InfoGeographics has been contracted to design and transform the existing CADD property and water system data into this modern format as well as provide training to maintain and utilize the data.

Project Responsibilities

InfoGeographics followed a structured methodology to accomplish the project goals. These entail the following steps and methods:

Water System Geodatabase Design

- UML design using Visio Enterprise
- Ensuring compatibility with GIS mapping already existing for the City of Jackson and Jackson County
- Ensuring compatibility with the ArcGIS Water Utility Geodatabase Model
- Ensuring that the design can accommodate easy maintenance of the system
- Ensuring that the design can accommodate the desired network routing components and connections to other database systems
- Integration of a attribute-rich Access database to load the geodatabase with system information.

Conversion of the Existing Property and Water System CADD Mapping

- CADD grooming to prepare source data for loading into the geodatabase models.
- The property data in AutoCad format was converted into the Jackson County Property Geodatabase Design model.
- The water system data in AutoCad format and the Access database was converted into the Jackson County Property Geodatabase Design model.
- Extensive quality control techniques were applied to the conversion effort

Training & Miscellaneous Support

- Training of City of Jackson staff to maintain and improve the Property and Water System Geodatabases
- Other ad hoc tasks as assigned have been performed, such as combining and reconstituting orthophotography images in MrSid format.

Contact

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