GAS NETWORK CREATION

A Case Study

CHALLENGES:

- Identification of Location of the Gas Map is the major concern with reference to inputs provided for the Gas Distribution Mains and Service lines provided to us. Also maintaining the actual length of the Gas mains (Maintaining the Gas main dimensions) and best fit to Orthophoto is the other concern where we had drafted the Gas mains with reference to the dimensions and matching to the Ortho-photo in order to meet the Client requirement.

INTRODUCTION:

St. Lawrence Gas has engaged us to create a GIS database representing Gas distribution system. The ESRI ArcGIS database was created by converting the company's archive of distribution strips maps depicting the relative position of their mains and related features.

KEY ASPECTS:

- Scrubbing of Gas Mainlines, Service lines & Accessories.
- Drafting of Gas main-lines with reference to the actual Dimensions shown on the maps.
- Best-fit to the Orthophoto & Landbase Data provided by Client.
- Placement of Dimensions in ESRI ArcGIS database.

METHODOLOGY:

- Preprocessing:- Check for the completeness and clarity of the Inputs in order to initiate the production task.
- Drafting the Gas Distribution Mains and Service lines as per the dimensions & best fit to the Orthophoto.
- Incorporating the digitized Gas Network (respective feature classes) to client provided PGDB template.
- Placement of the Gas Distribution Features such as Gas Valve, Reducer, Coupling, Fittings, End caps etc., in the respective feature classes.
- Placement of dimensions according to the placement rule.
- Attribution of Gas network and Accessories such as Gas Main, Service lines, Gas Valve, Reducer, Coupling, Fittings, End caps etc., with reference to the information available on existing Distribution Maps and Valve cards provided by Client.
- Topology and Net-work creation.
- QC/QA- A QC checklist was prepared to assess the Gas Network quality. A random QA was performed to make sure the data was as per the acceptance criteria set by Client.

TECHNOLOGY:

- AutoCAD Map 2004
- AutoCAD In-house customized tools.
- ArcGIS 9.2

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Vision Through Mapping

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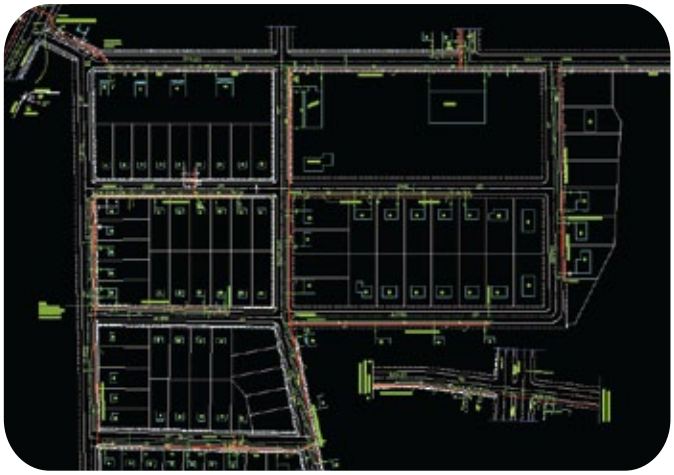
TESTIMONIALS:

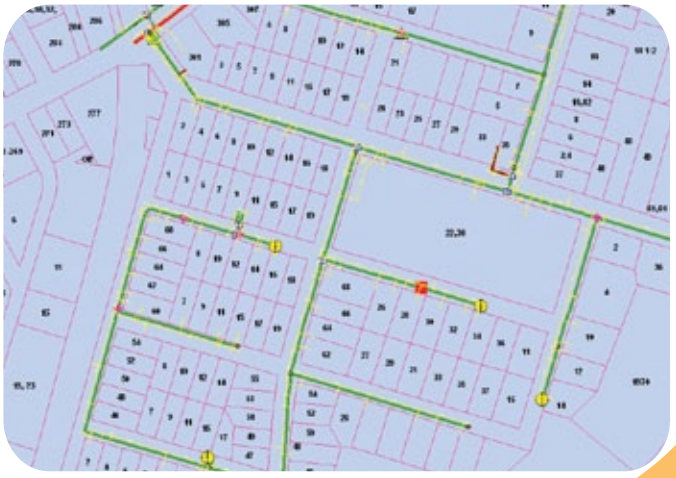
I've been doing work with Layer Informatics for over 4 years, and their pricing, service, and quality of work is top notch.

APPLICATION:

- The GIS based database of GAS Network systems shall be used in each city or municipality's GAS distribution department / system.
- The integrated GAS data model is a powerful tool for routine planning and emergency response.
- It gives emergency managers real time information for estimating the risks to public GAS supplies and population at risk.
- The GAS supply department can calculate, locate, and map the population at risk from the introduction of contaminants to the public GAS supply.

SCREEN SHOTS:





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