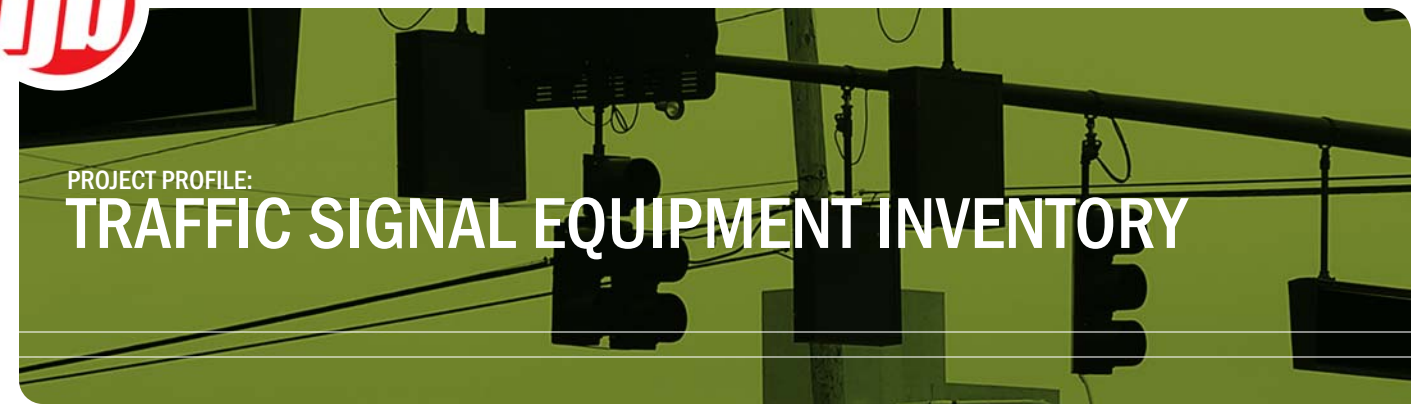
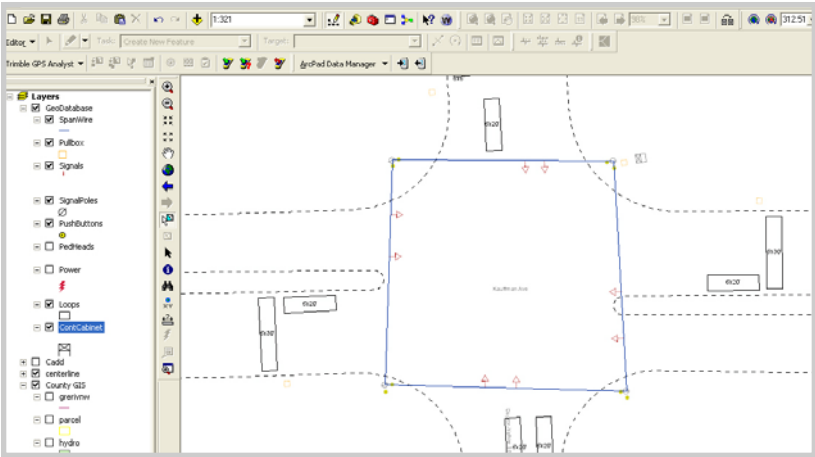
Innovative Facility and Infrastructure Design™



PROJECT PROFILE:

TRAFFIC SIGNAL EQUIPMENT INVENTORY

Summary: LJB completed an inventory of signal equipment using GPS technology. The information was stored in a GIS database to allow easy manipulation, reporting and maintenance.



PROJECT STATS

LOCATION: Fairborn, OH

CLIENT: City of Fairborn

CLIENT CONTACT: Doug Boney
(937) 754-3055

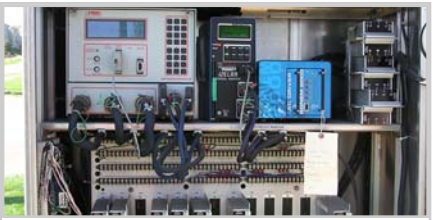
COMPLETION DATE: December 2008

FEATURES: Detailed inventory
Customized database
GIS symbol library
Maintain data equipment

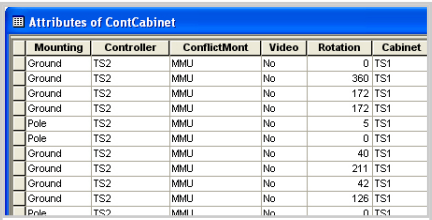
In this project, LJB completed an inventory of existing signal equipment on two closed-loop traffic signal systems in the city. The signal systems on Dayton-Yellow Springs Road and Colonel Glenn Highway include 16 signals.

LJB used GPS units to collect field data including signal poles, controllers, signal heads, detectors, pullboxes and power service locations.

The data was imported into a custom GIS database to allow the city to use the data for signal equipment maintenance. LJB collected data such as equipment type, manufacturer and condition for each item. The inventory led to a redesign of the two signal systems. The comprehensive signal system design included analysis of existing equipment, traffic signal design, improved signal system timing, interconnect design and coordination with ODOT District 8. Both Windows-based systems will be controlled by Econolite's Aries closed-loop software.



Data collection for signal cabinets and detectors help identify equipment upgrade needs.



Attributes of ContCabinet

Mounting	Controller	ConflictMont	Video	Rotation	Cabinet
Ground	TS2	MMU	No	0	TS1
Ground	TS2	MMU	No	360	TS1
Ground	TS2	MMU	No	172	TS1
Ground	TS2	MMU	No	172	TS1
Pole	TS2	MMU	No	5	TS1
Pole	TS2	MMU	No	0	TS1
Ground	TS2	MMU	No	40	TS1
Ground	TS2	MMU	No	211	TS1
Ground	TS2	MMU	No	42	TS1
Ground	TS2	MMU	No	126	TS1
Pole	TS2	MMU	No	0	TS1

Equipment attribute tables make it easy for the city to view existing equipment details.