

Client

Lake County Department of Transportation

Location

Lake County, Illinois

Services

- ITS Program Management
- ATMS system design and deployment
- Systems integration
- ITS field PS&E
- ITS Field deployment oversight
- TMC layout design
- Signal system integration

Date

Jan 2004 – Present

Key Personnel

Joseph Brahm, P.E.

Barbara Sanders

Contract Value

\$2,308,000

Lake County ATMS Final Design and Integration

Scope of Services

Delcan was selected to provide ITS program management, design, and integration services to support Lake County's ITS implementation plan. Additional services provided by Delcan included developing a detailed communications design, the Collection of survey and utility information, and the development of project plans, specifications and estimates for all Phase 1 work. In addition, Delcan provide support for Phase 1 integration testing in coordination with the field contractors and LCDOT.



Project Description

Faced with increasing traffic demand and limited construction funds, the Lake County Department of Transportation (LCDOT) has embarked on an aggressive traffic management program. After helping Lake County design their ITS program, Delcan was selected to design and deploy the Counties Advanced Traffic Management System (ATMS). The Lake County ATMS architecture provides for a state of the art arterial and freeway based event and congestion management system. The system includes automated congestion management, automated event management, integration of County maintenance activities and integration of several ITS elements, including: DMS, CCTV, arterial traffic signal system across jurisdictional boundaries, Public Safety CAD, HAR, HAT, WEB and ISP providers. The communications architecture is based on a Gigabit Ethernet mesh topology that interconnects fiber segments owned by several regional agencies.

Results

The Lake County ATMS deployment includes many innovative firsts in arterial management. Within the region, agencies are looking at the system as a model for other counties. Shortly after the role out of the initial ATMS in early 2006, LCDOT was awarded the ITS Midwest Project of the Year.