

Project: *City of Cuyahoga Falls, ITS Signal Project
SUM - Portage Trail (PID 13064)*

Owner: City of Cuyahoga Falls, Ohio

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Construction Value: \$2.3 million

Description: The upgrade of 23 signals on two arterial streets, Portage Trail & Broad Boulevard, into a state-of-the-art Integrated Traffic System (ITS). Features of the system include video detection, incident detection and management, fiber optic communications, central office monitor with distributed PC application and automated updating of timing plans.

The intersections along Portage Trail were designed as a traditional closed loop system using inductive loop detectors for local intersection detection and system operation. The seven intersections along Broad Boulevard were designed to utilize video imaging technology for detection, surveillance and control.

A 96 fiber backbone was specified with both single and multi-mode fibers to provide communication between: Central Office & Master Controllers, Master & Local Controllers, Central & Video Detection Units (VDU's) and Central & Police Remote Access Computer; as well as providing and to provide for the future needs of the City.

This construction project was an efficiency project funded with a Federal grant under the CMAQ (Congestion Mitigation, Air Quality) program at a cost of \$2.3 million.

This system is planned for expansion to include all of the arterial signal systems which will coordinate the timing of traffic signals to provide efficient traffic flows, reduce congestion and add to the improvement in air quality for the region.