



## **PROJECTS**

**TRAFFIC SIGNAL DESIGN,  
OPTIMIZATION and MANAGEMENT**

**PROJECT:** CityWide Traffic Signal Upgrade – Westlake, Ohio

**CONTACT:** Mr. Robert P. Kelly, P.E.  
City of Westlake  
27700 Hilliard Boulevard  
Westlake, Ohio 44145



**DESCRIPTION:** The project consists of the modernization and coordination of traffic signals at 41 locations along the corridors of Center Ridge Road, Columbia Road, Detroit Road, Clague Road, Center Ridge Road, Hilliard Blvd. and other various locations. The project included upgrading signal hardware including vehicular signal heads, mast arm signal supports, pedestrian signals, controllers, detectors, and emergency vehicle detection. The project included traffic responsive computer system with fiber optic communication cable.

The project coordinated the timing of traffic signals in seven sub areas to provide efficient traffic flow, reduce congestion and add improvement in air quality for the region. The computerized signal system measures traffic volumes, congestion and speeds and makes automatic commands to implement signal timing.

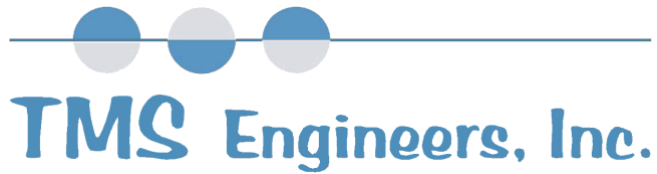
**PROJECT:** City Wide Traffic Signal Project – Brunswick, Ohio

**CONTACT:** Mr. Matt Jones, P.E.  
Chagrin Valley Engineering, Ltd.  
22999 Forbes Road, Suite B  
Cleveland, Ohio 44146



**DESCRIPTION:** The project consists of the modernization and coordination of traffic signals at 25 locations along the corridors of Center Road (SR 303), Pearl Road (US 42) and other various locations. The project included upgrading signal hardware including vehicular signal heads, mast arm signal supports, pedestrian signals, controllers, detectors, and emergency vehicle detection. The project included traffic responsive computer system with fiber optic communication cable.

The project coordinated the timing of traffic signals in four sub areas to provide efficient traffic flow, reduce congestion and add improvement in air quality for the region. The computerized signal system measures traffic volumes, congestion and speeds and makes automatic commands to implement signal timing.



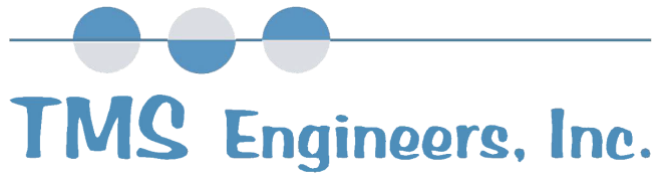
**PROJECT:** CityWide Traffic Signal Upgrade Project - Phase 1  
Dover, Ohio

**CONTACT:** Mr. Dave Douglas  
City of Dover  
110 East Third Street  
Dover, Ohio 44622



**DESCRIPTION:** The project consists of the modernization and coordination of traffic signals at 14 locations along the corridors of Wooster Ave., Iron Ave. and other various locations. The project included upgrading signal hardware including vehicular signal heads, mast arm signal supports, pedestrian signals, controllers, detectors, and emergency vehicle detection. The project included traffic responsive computer system with fiber optic communication cable.

The project coordinated the timing of traffic signals in one sub area to provide efficient traffic flow, reduce congestion and add improvement in air quality for the region. The computerized signal system measures traffic volumes, congestion and speeds and makes automatic commands to implement signal timing.



**PROJECT:** Traffic Signal Design - Avon Chester Road Improvements  
Avon, Ohio

**CONTACT:** Mr. Mike Farmer  
Service Director  
Chagrin Valley Engineering, Ltd.  
22999 Forbes Road, Suite B  
Cleveland, Ohio 44146



**DESCRIPTION:** The project consists of the re-design of the Chester Road and SR 83 East Intersection and the Chester Road and Wal-Mart Drive intersection traffic signals. The project included upgrading signal hardware including vehicular signal heads, mast arm signal supports, pedestrian signals, controllers, detectors, and emergency vehicle detection. The project also included fiber optic communication cable through the project area for the use of a traffic responsive computer system in the near future.

The project coordinated the timing of the traffic signals along Chester Road to provide efficient traffic flow and reduce congestion. Traffic control measures were also included through the use of new pavement markings and signing, as necessary due to the roadway configuration being widened along Chester Road.