

Traffic Engineering Solutions, P.C.
Bruce A. Hillson, P.E.

T R A F F I C E N G I N E E R I N G S O L U T I O N S , P . C .

Traffic Engineering Solutions was established to provide Traffic Engineering services to Municipalities, Consulting Engineering companies, Architects, and Developers in Southern New England. Our services include preparation of traffic impact studies, State Traffic Commission Applications, design of traffic signals and traffic signal systems, preparation of pavement marking and signing plans, and maintenance and protection of traffic plans.

P R O F E S S I O N A L E X P E R I E N C E

Mr. Hillson's experience includes preparation of Traffic Impact studies and State Traffic Commission (STC) applications for a variety of developments throughout the State. For many of these projects, presentations were made at Public Hearings before local Planning and Zoning Commission. Mr. Hillson has presented expert testimony in appeals court on behalf of developers. Among the development projects for which he has prepared traffic studies and/or STC applications (as Principal for Traffic Engineering Solutions and while working with other Consultants) are:

- 25,000 S. F. Manchester Church of Christ with seating for 450 people on Tolland Turnpike in Manchester, CT
- Wal*Mart Stores in Hamden and Guilford, Connecticut.
- 80,000 Square Foot Retail Plaza in New Milford, Connecticut
- 29,000 Square Foot Expansion for Ellington High School on Maple Street in Ellington, Connecticut
- Expansion to Korn, Ward and Coginchaug Schools in Region School District 13 – Durham, CT
- 800 Student Suffield High School located on Sheldon Street in Suffield, Connecticut
- 1.2 million square foot Aetna Office Building in Middletown, Connecticut
- Windswept Ridge and Otis Property subdivisions in Essex, Connecticut
- Big Y Grocery Store in Rocky Hill Connecticut
- Fifth and Sixth Grade School located on Wasserman Way in Newtown, Connecticut
- First Baptist Church of Manchester expansion from 180 seats to 868 people - located on Hillstown Road Manchester
- 10,950 S.F. Bridgeport Church of God with seating for 500 on Fairfield Avenue in Bridgeport
- Insurance Claims Center for The Hartford, located on Farm Springs Road in Farmington
- Armory Street and Balliet Elementary Schools in Springfield, Massachusetts
- 465,000 square foot Goodwin Square in Hartford, Connecticut
- Edward's Grocery Store in Glastonbury Connecticut
- 52 acre industrial park in Newington, Connecticut

- Congregate Living Facilities in Hartford, West Hartford and Newington, Connecticut
- 299,000 square foot 100 Pearl Street in Hartford, Connecticut
- 1.8 million square foot office and 375 room hotel in Mahwah, New Jersey
- Stop & Shop Plazas in Ansonia, Torrington, Southington, and Newington, Connecticut
- 55 Farmington Avenue Office Building in Hartford, Connecticut
- 750,000 square foot Hamden Mall in Hamden, Connecticut
- Toys R Us and Kids R Us in Waterford and Danbury, CT
- Manufacturing and Warehouse facility for Accessory Controls and Equipment, Windsor, CT

Signal Projects - Mr. Hillson's experience with traffic signal and signal system design is comprehensive and covers a broad range of projects. He has designed traffic signals for more than 350 intersections in southern New England including 175 signalized intersections incorporated into nine Distributed Closed Loop Signal Systems. His most recent accomplishments include:

East and West Columbus Avenues Signal System, Springfield, Massachusetts

Mr. Hillson is providing traffic signal and signal system design for nine signalized locations along the I-91 corridor in Springfield. The work is being done in conjunction with a weave improvements project along I-91 to promote access to the new Basketball Hall of Fame.

Closed Loop Signal System, Route 68 - Wallingford, CT: State Project 148-175 will reconstruct the Route 58 and I-91 interchange in Wallingford. Mr. Hillson is preparing traffic signal plans for the five intersections included in this project. The work includes local intersection design and design of a Closed Loop System to be operated by ConnDOT.

Closed Loop Signal System - Wallingford, CT: Mr. Hillson assisted Milone & MacBroom with the Semi-Final and Final Design plans for six signalized intersections along Quinnipiac Street and Hall Avenue in the Town of Wallingford. He was able to help meet the needs of the City and ConnDOT and plans were submitted on schedule. The project has been advertised, bids have been received and construction is expected to begin early in 1998.

Municipal Projects – Mr. Hillson has provided services to several municipalities throughout Connecticut to review traffic studies by others, complete parking and traffic circulation studies and prepare concept plans to increase parking and improve circulation, and prepare traffic signal plans to revise existing signalization or provide new signalization.

Parking and Traffic Circulation Studies – Town of Manchester – Mr. Hillson reviewed the existing parking and traffic circulation conditions at the Cheney Library and Manchester Senior Center and made recommendations to increase the number of parking spaces provided at each site and developed concept plans to show the added parking and revisions to traffic circulation on the site.

Peer Review of Major Traffic Generators in the Town of Wallingford: Mr. Hillson provided a peer review for Home Depot and Lowe's, two large home

improvements facilities proposed for North Colony Road (Route 5) in Wallingford. During the process we reviewed the reports and analyses prepared by the Applicants' Engineers, met with Town Staff and the Applicants to discuss the findings and attended Planning Commission Meetings to discuss the findings of the peer review and answer Commission questions. Mr. Hillson has also reviewed on behalf of the Town several phases of development proposed by Bristol Meyers Squibb which is located on Research Parkway in Wallingford.

On Call Services – Manchester, CT: Traffic Engineering Solutions was selected to provide On Call services for the Town of Manchester. Mr. Hillson reviewed several Traffic Impact Studies submitted for proposed developments in the vicinity of the Buckland Mall including Lowe's Home Improvements Center, a 100,000 square foot retail facility adjacent to TGI Fridays and the Raymour and Flanigan Furniture Store.

Mr. Hillson has conducted parking studies to assess the present parking needs of large medical institutions (Berkshire Medical Center in Pittsfield , Massachusetts and Eastern Maine Medical Center in Bangor, Maine) and determined whether the present parking facilities met the parking demand. He also assessed the future needs of these institutions and determined the additional parking required to meet their growth needs. A unique feature to medical facilities is the brief but heavy employee parking demand created during the afternoon shift change and the challenges to provide convenient parking for employees working both shifts.

A major element for the success of traffic improvement projects is public acceptance and support for the changes. Mr. Hillson has made presentations to neighborhood groups to hear their concerns relating to project issues and to work with them to identify reasonable solutions.

P R O F E S S I O N A L R E G I S T R A T I O N

Connecticut

Massachusetts

Maine

E D U C A T I O N

MSCE - Purdue University, 1979

BSCE - Worcester Polytechnic Institute, 1971

P R O F E S S I O N A L O R G A N I Z A T I O N S A N D A C T I V I T I E S

Institute of Transportation Engineers - Fellow

- Director, Secretary/Treasurer, and President of the New England ITE
- Secretary/Treasurer, Vice Chairman, and Chairman of District 1
- Chaired NEITE Technical Committee and District 1 Annual Meeting
- Received NEITE Distinguished Service award and CT Chapter Transportation Achievement Award
- Co-authored ITE Journal Article entitled "Time Based Coordination - A Timely Advancement"