



ENGINEERING SUCCESS TOGETHER

December 9, 2014

Mr Mani Poola PE
City of Stamford
888 Washington Blvd
Stamford, Ct 06901

Re: **Proposal for Professional Services**
Traffic Impact Analysis
Magnet School
Strawberry Hill Avenue at Fifth Street

Dear Mr Poola:

As you requested we are pleased to submit this proposal to conduct a Traffic Impact Analysis (TIA) for a proposed Magnet School to be located at the intersection of Strawberry Hill Avenue and Fifth Street in Stamford, CT.

We understand this school will accommodate approximately 800 students with 100 staff and serve as a magnet facility attracting students from communities other than Stamford. You have indicated this may account for as much as 25% of the school population.

BETA will prepare the TIA in accordance with the following scope.

Task 1: Data Collection

It is understood that your office will provide traffic data including turning movements at the following intersections. This data shall be provided for the AM arrival period (7:00 to 8:30AM) and PM School discharge period (2:00 to 3:30 PM). Turning movements shall be for 15-minute periods and totaled for each hour.

- a. Hope Street at Wenzel Terrace
- b. Hope Street at Rock Spring Road
- c. Strawberry Hill Avenue at Grove and Hoyt Streets
- d. Strawberry Hill Avenue at Rock Spring Road
- e. Strawberry Hill Avenue at Fifth Street
- f. Strawberry Hill Avenue at Colonial Road
- g. Bedford Street at Hoyt Street
- h. Bedford Street at Third Street
- i. Bedford Street at Fifth Street

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In addition, your office will provide Automatic Traffic Recorder Counts for 9 locations as noted below.

- a. Bedford Street, 3 locations, between 1st and 2nd Streets, 3rd and 4th Streets, 5th and 6th Streets
- b. Strawberry Hill Avenue, 3 locations, between Hoyt and Holcomb, Rock Spring and 5th, 5th and Colonial
- c. Strawberry Hill Court, 1 location
- d. Colonial Road, 1 location, between Strawberry Hill Avenue and Hope Street
- e. Rock Spring Road, 1 location, between Strawberry Hill Avenue and Hope Street
- f. Hillandale Avenue, 1 location, between Strawberry Hill Avenue and Wenzel Terrace

BETA will request Crash Data from the Connecticut DOT for the vicinity of the proposed school site.

Your office will provide BETA with Traffic Signal Plans for the area including those locations noted above.

Task 2: Determine Baseline Traffic Conditions

BETA will develop a SYNCHRO model and analyze the AM and School Discharge PM Period. This analysis will provide level of service, and other relevant operations data for the study area

Task 3: Traffic Generation Estimate

BETA will develop an estimate of traffic generation for the proposed facility. This will be done using Institute of Transportation Engineers Trip Generation data for schools and modifying this data based on transportation discussions with your office and the project proponent. Trip generation shall be developed for daily and peak school hours periods.

Task 4: Trip Assignment

Based on area population and an understanding of school enrolment criteria BETA will assign both arrival and discharge traffic to the road way network.

Task 5: No-Build and Build Analysis

BETA will develop the No-Build traffic by escalating the baseline traffic by a growth factor developed based on historical data for Stamford. Site generated traffic will be added to the No-Build baseline traffic to develop Build conditions of traffic following completion and occupancy of the proposed school, expanded school, and for a development conforming with zoning regulations (provided by the City). Each of these traffic profiles will be input to the SYNCHRO model for the area network and levels of service, queuing and other operations analyzed

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Task 6: Report

BETA will develop a TIA report which will present the findings of our work. This report will present the analysis prepared and results of that analysis. Where appropriate, BETA will recommend mitigation measures to resolve noted deficiencies in traffic operations.

BETA will complete this work within four weeks of our notice to proceed and the furnishing of all data which is to be given to us by the City.

Our professional fee for this project will be the lump sum of \$9,800.

We appreciate the opportunity to provide this service to the City of Stamford. Please do not hesitate to contact me or Jim Ford in my office if you have any questions.

Very truly yours,
BETA Group, Inc.



Najib O. Habesch
Senior Vice President

NOH-JWF/ab