
TRANSPORTATION ENGINEERING SERVICES

Traffic Access and Impact Studies

STE offers full services in preparation of Traffic Access and Impact Studies for retail centers, residential and commercial subdivisions, schools and any other proposed developments. STE also provides support services to other consultants by conducting the traffic study portion of any Environmental Impact Study.

Traffic Operation Analysis and Improvement Studies

STE offers traffic analysis and improvement studies including determination of level of service, signal timing and intersection optimization, identification of capacity and safety deficiencies and forecast of traffic volumes based on future development and zoning information.

Level of Service & Capacity Analysis

As part of its ongoing traffic engineering services, STE routinely conducts LOS and capacity analysis for intersections and roadways. STE is equipped with state-of-practice software that are based on Highway Capacity Manual (HCM) to conduct these analysis.

Traffic Modeling and Planning

STE offers traffic modeling and planning services. STE develops sophisticated models based on “real” traffic that has been collected recently or from traffic based on zoning and future infrastructure. STE takes into account “supply side” and “demand side” of transportation. Supply side transportation consists of the available transportation infrastructure. The demand side consists of models that determine the demand for travel based on items such as socio-economic characteristics of a particular area or origin to destination characteristics. STE then develops transportation plans that describe policies, strategies, facilities, changes to existing facilities and proposed facilities.

Corridor Studies

STE is well versed in all aspects of traffic engineering required to conduct a proper corridor study including data collection & review, understanding of land use categories and planned future development, accident information, LOS analysis, traffic volume and turning movement projections, and corridor capacity analysis. STE uses the state-of-practice software to assist in various steps of a corridor study.

Traffic Calming Studies

STE offers traffic calming treatments by developing specific traffic calming plans for individual streets to slow traffic and/or reduce traffic volumes. STE has pioneered new Guidelines for Traffic Calming for a local agency and has applied the guidelines to a number of local studies.

Parking Assessment and Demand Analysis

STE offers site specific analysis of parking demands and requirements for various land uses. Parking assessment and demand analysis include overall parking demand/supply analysis and general traffic access and circulation requirements for the street system serving a parking facility.

Traffic Signal Timing and Coordination

STE offers traffic analysis and improvement studies including determination of Level of Service (LOS), signal timing and intersection optimization, identification of capacity and safety deficiencies, and forecast of traffic volumes based on future development and zoning data.