

Umesh Avadhani, P.E. – Project Manager-Traffic



New Stapleton Infrastructure, Staten Island, New York. Client: NYCEDC

Supervise design of traffic plans – MPT plans, signal design, pedestrian flows, and bicycle routes. Prepare and direct pavement marking and signal design. Coordinate with various agencies for signals and signs. Develop MPT and construction staging plans. Design bicycle lanes as per NYCDOT requirements.

Hunters Point South Infrastructure, NY. Client: NYCEDC/NYCDOT.

Responsible for all traffic related issues and coordination of MPT plans and construction staging. Supervise traffic analyses, develop alternatives and design conceptual plans. The plans included safety improvements, pavement marking plans, signing plans, preliminary signal plans and bikeways. Responsible for the supervision of the traffic study for the parcels within the study area. Currently providing construction inspection services, respond to RFI's and coordinate all traffic design elements including the signal system, and MPT. All traffic design elements were developed in accordance with the NYCDOT design guidelines.

NYCDOT Traffic Count Program, All Boroughs of New York City

Client: NYCDOT. Supervised and directed the traffic surveys including turning movement counts, pedestrian counts, spot speed, bicycle counts, and classification counts. Organized various counts within the 5 boroughs of New York City. Coordinated ATR counts with the manual counts.

Traffic Engineering Call-In Contract, NY & NJ. Client PANYNJ.

Directed, supervised and managed several task orders under the Call-In Contract for several years with PANYNJ. The tasks included traffic studies, traffic counts, ATR counts, speed runs, MPT plans, roadway contract plans, Guide sign design, specifications, construction cost estimate and construction inspection. Responsible for several task orders that at the various facilities including JFK International Airport, LGA Airport, Newark Liberty International Airport, Holland and Lincoln Tunnels, GWB, OBX and Goethals Bridge.

Rehabilitation of Bridges L1 and L2, LaGuardia Airport, New York.

Client: PANYNJ. Developed construction contract plans (PS&E) – Roadway plans, alignment plans, MPT, Pavement markings, Guide signs, etc. Conducted a traffic impact study to determine the impact of the Bridge closures. Made presentations to the PA Facilities and Operations. Developed several options to evaluate the closure of the Bridges L1 and L2. Responsible for the traffic management and construction staging during construction and rehabilitation of the bridges.

Mr. Avadhani has over 25 years of extensive experience and educational background in the fields of Planning, Engineering and Construction Inspection – Civil, Traffic and Transportation. He has managed, supervised and directed several PS&E contract plans, highway/roadway design projects, transportation planning projects, traffic counts, street & guide sign design, traffic signal system design, construction staging and MPT, traffic impact studies, safety studies, design and roadway contracts for several agencies. He has excellent oral and written skills.

Firm:

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Education:

MS, Civil-Traffic Engineering,
Virginia Tech, Blacksburg, VA,
1985

BS, Civil-Traffic Engineering,
Bangalore University, India,
1984

Registration:

Professional Engineer – NY /
1998
Professional Engineer – NJ /
2006
Professional Engineer – CT /
2000



Port Authority Bus Terminal, ADA Compliance, NY. Client: PANYNJ.

Developed detailed bus plans to make the all the existing bus gates ADA compliance. Tasks involved roadway plans, sidewalk/curb design, standards details, construction cost estimates, specifications, MPT plans, final pavement marking plans, signs, auto-turn analyses, coordinate with bus operators and PA facility and operations. Detailed permanent pavement marking plans were developed including sidewalk studies, signs, etc. Coordinated construction activities for the bus gates to minimize impacts to the patrons and bus operations.

Red Garage, JFK International Airport, Queens. Client: PANYNJ.

Designed and developed the garage traffic plans PS&E contract plans. As project manager, directed the contract plans which included roadway plans, alignment plans, cross-sections, utilities relocation and drainage plans. Responsible for several concepts for the garage layout, performed capacity analyses, elevator analyses and preliminary cost estimates. Directed the entire contract for traffic drawings including MPT plans, guide rail design, pavement marking plans, guide sign plans, details, review shop

Fulton Street Transit Center, New York. Client: MTA/NYCTA. Senior Traffic Engineer for the proposed Transit Center which will connect several transit hubs including the NYC Subway System and PATH systems. Responsible for the construction inspection and resident engineering services related to traffic management and construction staging. Designed and developed alignment plans, roadway plan, several MPT plans, signing plans, pavement marking plans, traffic studies, wrote traffic reports, coordinated with other agencies, presented snap shots of construction areas for a period of 5 years, etc. Responsible for coordinating the construction activities.

Yankee Stadium Street Works, New York. Client: NYCEDC.

Responsible for all the construction projects (traffic management) around the new Yankee Stadium Project. Responsibilities include coordination of MPT plans, traffic counts, signal design, parking garage construction, traffic analyses and preparing scope of work and construction cost estimates. Additionally, coordinated with the Deputy Mayors office to review the construction activities and develop snap shots of the construction stages during various activities. Coordinate all construction and design activities within the area and the vicinity of the new Yankee Stadium. All traffic design elements were developed in accordance with the NYCDOT design guidelines. Coordinated with several NYC agencies, including DOT, Parks and DEP.

Professional Associations:

Institute if Transportation Engineers, ITE

Years of Experience:

25+

ASCE Grade:

A-V