

**YEARS OF EXPERIENCE**

29

**EDUCATION**

MS, Civil Engineering  
Moscow University, Moscow, Russia

**PROFESSIONAL REGISTRATIONS**

Professional Engineer: Civil  
Engineering, MA

**PROFESSIONAL AFFILIATIONS**

- Institute of Transportation Engineers (ITE)
- American Society of Civil Engineers (ASCE)
- Boston Society of Civil Engineers (BSCE)

*"Transportation Action Plan"*

*"two I-95 interchanges"*

*"I-95/Route 20 rotary interchange"*

*"closed loop traffic signal system  
on Route 109"*

**HIGHLIGHTS OF EXPERIENCE**

Mr. Leonid Velichansky serves as Principal at Traffic Solutions. Lenny has over 29 years of experience in transportation engineering, serving both public and private sector clients. His public sector clients include municipalities, DOTs, Turnpike and Transit Authorities. His private sector experience includes universities, developers and contractors. The services Lenny provides range from project planning and design to peer reviews.

Prior to joining Traffic Solutions, Mr. Velichansky managed transportation department in a major engineering corporation in Boston, where he was responsible for leading multidisciplinary teams and overseeing technical performance of transportation planning and design projects. Lenny was involved in projects that used both conventional design-bid-build and design-build delivery methods. Many of these projects demanded extremely aggressive schedules.

**PROJECT EXPERIENCE**

**Dudley Square, Boston, MA** Managing preparation of the Transportation Action Plan, a component of the master planning effort to revitalize this Boston neighborhood. Project elements include developing short term and long term traffic improvements, recommending on-street and off-street parking strategies, and improving transit service, all within a context of enhancing pedestrian and urban environment.

**Westwood Station, Westwood, MA** Overseeing transportation analysis and concept development for the DEIR/FEIR and final design of roadway infrastructure modifications, including two I-95 interchanges, a mile-long Dedham St. corridor and a number of local streets.

**Route 117 Connector and Green Street Redevelopment, Waltham, MA** Responsible for traffic impact analysis and design of improvements to the I-95/ Route 20 rotary interchange, including a new bridge over I-95, modifications to local roadways, and a number of new traffic signals.

**Closed Loop Signal System, Medfield, MA** Conducted a feasibility study for system implementation. Identified operational and safety improvements. Prepared a justification report and final design of a closed loop traffic signal system on Route 109, including emergency vehicle preemption and railroad preemption.

*"engineering for I-90, Rte 1A,  
and Logan Airport roadways"*

*"transportation network analysis"*

*"Route 6 Relocation"*

*"traffic signal design and .....  
traffic management plans"*

*"roadway, interchange and bridge  
design"*

**Route 138, Raynham, MA** Responsible for the design of roadway improvements along Route 138. Work included widening of approximately 2000 feet of Route 138, traffic signal warrant analysis and preparation of MassHighway application for Permit to Access State Highway.

**Central Artery/Tunnel C08A1, East Boston, MA** Directed roadway, bridge, and underpass design, guide sign design, traffic management plans and value engineering for I-90, Route 1A, and Logan Airport roadways.

**Allston Landing South, Boston, MA** Responsible for the transportation network analysis adjacent to the multimodal Beacon Park facility at Allston Landing South. Specific considerations included reconfiguration and operation of the Massachusetts Turnpike Interchange, transportation characteristics of local streets and site access.

**American Parkway, Allentown, PA** Directed design team responsible for feasibility studies and preliminary design of four miles of a new major urban arterial, two interchanges and a number of bridges and local streets.

**Brightman Street Bridge Replacement, Fall River/Somerset, MA** Responsible for transportation analyses, traffic signal and guide sign design, and traffic management plans for the replacement of the Brightman Street Bridge and the Route 6 Relocation.

**Central Artery/Tunnel C15A1 (North Street to New Chardon Street), Boston, MA** Managed design of temporary roadways, traffic signals, construction traffic management plans, overhead sign structures and workzone layouts.

**Massachusetts Turnpike Authority, Weston/Newton/Allston, MA** Prepared mainline and interchange improvement feasibility studies for various Turnpike projects.

**Central Street, Millville, MA** Responsible for transportation aspects of replacing Central St. Bridge over the P&W Railroad and several bridges over waterways. Work included redesigning Central and Main Streets, traffic signal design and the development of construction staging and traffic management plans.

**Broken Arrow South Loop, Tulsa, OK** Managed final design of a new section of the Oklahoma Turnpike, including fast-track design of a 6-mile mainline section, five interchanges, fifteen bridges, and a number of local streets.

*"travel demand forecasting"*

**Route 146 Relocation, Worcester/Millbury, MA** Responsible for travel demand forecasting, transportation analysis, corridor and interchange studies, EIS/EIR preparation and preliminary design for the new Route 146 corridor and I-90 Interchange.

*"landside roadway and parking  
concept development"*

**Bates Bridge, Groveland/Haverhill, MA** Oversaw traffic signal design, guide sign design and preparation of traffic management plans for the reconstruction of Bates Bridge over the Merrimack River.

*"Environmental Impact Report,  
miscellaneous permits and  
all site engineering"*

**T.F. Green Airport, Warwick, RI** Responsible for landside roadway and parking concept development, circulation and traffic operation analysis, traffic signal design, and construction sequencing plan.

*"pedestrian safety analysis"*

**Plymouth County Correctional Facility, Plymouth, MA** Led the engineering team on this privately financed fast-track design-build project. Responsible for the preparation of the Environmental Impact Report, miscellaneous permits and all site engineering, including wetland impact minimization, grading of a 20-acre parcel of land, retaining walls, over 5,000 feet of access and perimeter roadways, a 300-car parking lot, two separate drainage systems incorporating Best Management Practices, a sewer pump station and off-site roadway improvements.

*"Integrated Traffic Management System"*

**UMass Amherst, Amherst, MA** Developed on-campus parking and intersection modifications. Responsible for traffic signal design, pedestrian safety analysis and study of pedestrian control strategies.

*"multi-modal transportation facility"*

**I-93 Integrated Traffic Management System Operational Test Evaluation, Boston, MA** Managed the development and implementation of an evaluation plan for the Operational Test associated with the Integrated Traffic Management System on I-93 and parallel roadways.

*"cable-stayed Leonard Zakim Bridge"*

**Riverside Station, Newton, MA** Responsible for alternatives development and final design for the multi-modal transportation facility incorporating a 2000-car parking lot, light rail Green Line, inter-city buses, taxi, limousine, local shuttle bus services and pedestrian and bicycle access.

**Central Artery/Tunnel D019D (Bunker Hill Leonard Zakim Bridge)** Responsible for the development of construction staging, contractor access, laydown areas and traffic management plans for the cable-stayed Leonard Zakim Bridge and the Storrow Drive Connector Bridge.

*"privately financed/operated  
design-build project"*

**US Marshals Service Detention Facility, Central Falls, RI** Directed the engineering team on this privately financed/operated design-build project. Responsible for all aspects of site engineering, including permitting, civil and structural design and landscaping.

*"development and assessment of a  
dozen interchange concepts"*

**Central Artery/Tunnel D017A (Congress St. to North St.), Boston, MA** Oversaw traffic analysis, preparation of final traffic signal design and construction staging and traffic management plans.

*"light rail trolley preemption"*

**New Jersey Turnpike Interchange 12, Carteret, NJ** Oversaw conceptual design for reconstruction of Exit 12 along the New Jersey Turnpike, including development and assessment of a dozen interchange concepts.

**Sampson Connector, Lowell, MA** Prepared traffic signal design for the reconstruction of Dutton St., Fletcher St., Thorndike St., Broadway, Market St. and Merrimack St., including provision of light rail trolley preemption.

**East Cambridge Urban Revitalization, Cambridge, MA** Prepared traffic signal, sign and pavement marking design for reconstruction of a number of urban arterials and local streets.