

KS Engineers, P.C.

Engineers . Surveyors . Construction Managers

For All Your Engineering Needs



GIS Mapping and Inspection of over 4000 Drainage Outfalls on the Garden State Parkway & NJ Turnpike



Inspection of over 300 Sign Structures in Region 11 & Upstate - NYSDOT (2003 - 2006)



Computerized Bridge Information System - NJ Transit

About Us

Our extensive record of accomplishments and our award - winning projects have earned *KS Engineers, P.C. (KSE)* a reputation for being a top-ranked, highly-regarded, client-responsive professional engineering firm. Founded in 1991, we have gained the respect and confidence of our clients by providing technical excellence and quality services throughout New Jersey, New York, and Pennsylvania. *KSE* is proud to have worked on regionally-significant projects for agencies such as NJDOT, NJ Transit, NJ Turnpike Authority, PANYNJ, NJSCC, NYCDOT, NYSDOT, MTA NYCT, MTA LIRR, MTA MNRR, as well as numerous private clients, contractors, and developers throughout the region. *KSE* is a certified **MBE/SBE/DBE**.

Front Cover:

Biennial Inspection of Bronx-Whitestone Bridge - MTA Bridge and Tunnels

Condition Survey of Bridges Carrying the Hudson-Bergen Light Rail - NJ Transit

Agencies / Owners

Amtrak
City of Newark, NJ
Delaware River Joint Toll Bridge Commission
Delaware River Port Authority
Essex County, NJ
Hudson County, NJ
Maryland Transit Administration
Middlesex County, NJ
MTA Bridges and Tunnels
MTA Long Island Rail Road
MTA Metro North Rail Road
MTA New York City Transit
Morris County, NJ
New Jersey Department of Transportation
New Jersey Transit Corporation
New Jersey Turnpike Authority
New York City Department of Environmental Protection
New York City Department of Transportation
New York State Department of Transportation
New York State Thruway Authority
Port Authority of New York & New Jersey
Palisades Interstate Park Commission

Corporate Headquarters

24 Commerce Street, Newark, NJ 07102
Phone: 973 . 623 . 2999
Fax: 973 . 242 . 2955
www.kseng.com

Recent Awards & Achievements

Dedicated to quality performance, responsiveness, and technical excellence, *KSE* is proud of its contributions to professional engineering and construction services.

Bridge Information System (BIS) - Statewide, NJ

- Owner:** New Jersey Transit Corporation
Development of Database Application for Centralized Tracking for Inventory, Costs, Historic Records, and Inspection of Structures
- 2006 Distinguished Award for Engineering Excellence – ACEC NJ

Route 18 Extension, Section 2A, Piscataway, NJ

- Owner:** New Jersey Department of Transportation
Construction Engineering, Administration and Inspection
- 2006 Platinum Award for Engineering Excellence – ACEC NY
 - 2006 Distinguished Award for Engineering Excellence – ACEC NJ

Grant Avenue Railroad Bridge, Plainfield, NJ

- Owner:** New Jersey Transit Corporation
Rehabilitation Design of Historic Structures
- 2006 Silver Award for Engineering Excellence – ACEC NY
 - 2006 Distinguished Award for Engineering Excellence – ACEC NJ

KS Engineers, P.C.



- NBIS Biennial Inspection
- In-Depth Inspection
- Underwater Inspection
- Fathometer Survey
- Scour Analysis
- Bridge Deck Evaluation
- Bridge Management System
- GIS Based Asset Management System
- Structural Analysis & Load Rating
- Non-Destructive Testing
- Emergency Repairs Design
- Construction Engineering

KSE
New Jersey
New York
Pennsylvania

KSE
Bridge Inspection



While our infrastructure matures at a rapid pace, many of our rural and urban bridges, viaducts, and culverts are in need of significant repair or replacement. KSE is performing much needed condition surveys, NBIS, biennial, and structural integrity inspections, load ratings, and fatigue and scour analyses. In addition, we have developed computerized bridge information systems to extend the life of these valuable assets. Our engineers excel in what they do and KSE provides them with the necessary tools and training to make their challenging work exciting and rewarding. In order to save our clients valuable time and money, we constantly adapt to new technologies. Our field professionals use the latest in tablet PCs to produce more efficient, accurate, and consistent inspection field notes, and use wireless broadband Internet access to stay in touch with clients and our main office at a moment's notice. When you close a lane on a major highway or take a track out of service to perform inspection and discover a serious structural flag, the client needs to be notified immediately. Being able to send and receive electronic files and images right from the inspection van has saved our clients thousands of dollars in extra cost. Clients are able to observe the flagged condition while the inspection equipment and MPT are still in place, allowing them to make critical decisions on the spot. Using our Virtual Private Network (VPN) right from the field, our engineers can access a centralized database in the main office to review documents and drawings, necessary for making time-critical decisions. Our services have ranged from the provision of team leaders and full inspection teams to complete project management on minor and major bridges, viaducts, elevated structures, culverts, and sign structures. We have strong credentials as both a prime and subconsultant on infrastructure inspection projects in this challenging region.



In-Depth Inspection and Structural Load Ratings of over 300 Fixed & 14 Movable Undergrade Railroad Bridges throughout New Jersey - NJ Transit



Comprehensive Assessment of Line Structures on the Bay Ridge & Bushwick Branches - MTA Long Island Rail Road



Inspection of over 600 Cantilever and Overhead Sign Structures - NJDOT - NYSDOT



Bridge Inspection Program, Part B - NJ Turnpike Authority (2001, 2002, 2003, 2005, 2006)



In-Depth Inspection of Bridges and Viaducts carrying Staten Island Rapid Transit - MTA / NYC Transit



*US Route 1 NB Bridge Over Raritan River, NJ
NBIS Inspection of over 1000 Simple & Complex Vehicular Bridges throughout New Jersey - NJDOT*



Biennial Inspection and Design of Miscellaneous Structural Repairs at the Marine Parkway & Cross Bay Bridges - MTA Bridges & Tunnels



2005 Systemwide NBIS Substructure Inspection - Delaware River Joint Toll Bridge Commission



Underwater Inspection of bridge Substructure units - NJTA - NYSDOT - NJDOT - NJ Transit - DRJTBC



In-Depth Inspection & Deck Condition Assessment of the Walt Whitman Bridge Suspension and Anchorage Spans - Delaware River Port Authority

- Vehicular Bridges
- Undergrade Railroad Bridges
- Pedestrian Bridges
- Long Span & Suspension Bridges
- Complex & Major Bridges
- Movable Bridges
- Trestles & Viaducts
- Piers & Bulkheads
- Sign Structures
- High-Mast Light Towers
- Traffic-Signal and Light Poles



Biennial Inspection of Local & Arterial bridges in NY City & Upstate Regions - NYSDOT



NBIS Inspection of over 300 Garden State Parkway Bridges - NJ Turnpike Authority