

City of Somerville
Director of Engineering
Engineering

The Director of Engineering is responsible for managing, maintaining, planning and improving the City's basic infrastructure including roads, sidewalks, sewers, drainage and water systems. Employee is required to perform all similar or related duties.

- Manages and plans infrastructure improvements of roads, sidewalks, water systems, sewerage systems and drainage.
- Prepares designs, specifications, cost and quantity estimates of various improvements. Reviews site plans of new development (public and private) for compliance with City policies, standards, ordinances and sound engineering design.
- Investigates flooding and sewerage backups and assisting Sewer Department in providing solutions to these problems.
- Issues sewer and drain permits to licensed drain-layers to connect to the City's sewer system. Inspects new connections and repairs to the sewer system.
- Prepares required environmental reports for submittal to State and Federal agencies.
- Oversees the Street opening Permit system and investigates roadway failures such as sink holes and poorly constructed trench repairs.
- Maintains all plans, drawings, field notes and records of the City's basic infrastructure and ensures this information is properly filed, secured and protected.
- Reviews major improvements designed by consultants for compliance with City of Somerville standards and sound engineering design.
- Serves as liaison with other governmental agencies such as DEP, EPA, MWRA and Massachusetts Highway Department on a variety of issues of concern to the City.
- Maintains all the plans, drawings, files and records pertaining to the City's infrastructure.
- Attend and speak at public ResiStat meeting and regular Board of Alderman meetings.
- Provides technical and engineering advice to various departments within the City and to the general public.

Qualifications:

Bachelor's degree in an Engineering discipline with seven (7) years of experience in the engineering field, or related work experience; or any equivalent combination of education, training and experience which provides the required knowledge, skills and abilities to perform the essential functions of the job.

Registered Professional Engineer (P.E.) License in accordance with State law.
D-4 Water Operator License preferred.

Knowledge of civil engineering principles and practices such as roadway design and construction techniques, sewer design and construction, drainage design and construction, hydraulics and hydrology; knowledge of roadway, sidewalk, sewer, water and drainage maintenance and repair techniques.

Ability to analyze water system flows and pressures and water main and water service design and construction.

Must possess management and communication skills.

Salary: \$110,000 per year; \$2,115.38 paid weekly at; plus benefits.

If a degree or certification is required for this position, you are encouraged to submit with your resume either a copy of your degree or certification OR official/unofficial transcripts which verify the date and degree obtained. However, proof of this education requirement must be submitted prior to appointment.

Send your resume and cover letter by Sunday, September 18, 2016 to:

City Hall Personnel Office

93 Highland Avenue

Somerville MA 02143

Fax: 617-666-4426

TTY: 1-866-808-4851

Email: employment_opportunities@somervillema.gov

City of Somerville residents are especially encouraged to apply.

The City of Somerville is an affirmative action/equal opportunity employer and does not discriminate on the basis of race, color, sex, religion, age, national origin, disability or any other protected category. Women, minorities, veterans, and persons with disabilities are encouraged to apply. Auxiliary aids and services, written materials in alternative formats, and reasonable modifications in policies and procedures will be provided to qualified individuals with disabilities free of charge, upon request.

Richard E. Raiche, PE, PMP

29 August 2016

City Hall Personnel Office
93 Highland Avenue
Somerville MA 02143

Dear Mr. Kote and members of the hiring committee

Please accept this application for the Director of Engineering position within the City of Somerville.

I am a Massachusetts licensed Professional Engineer and have nearly twenty years experience in the full life cycle of civil engineering projects, including: roadway improvements, water distribution, sewer collection, wastewater treatment, stormwater management, site development, grading, infiltration and inflow elimination, and combined sewer overflow mitigation. The majority of my career has been with consulting civil engineering firms in the Boston area, and I deeply understand not only the infrastructure challenges faced by Somerville, but also how the City must partner with agencies such as DEP, EPA, MWRA, MBTA and MassHighway to develop solutions. Public works projects must serve a wide range of needs for diverse sets of people, and a particular strength of mine is the ability to foster communication and collaboration among stakeholders and technical teams to create better projects that garner wide-ranging support.

Most importantly, perhaps, is the fact that I am a long-time resident with children in the Somerville Public School System, and my family intends to make Somerville its permanent home. I always dedicate myself to work and thus far other communities have benefited from my skills and efforts. The opportunity to apply my knowledge and capabilities to build a better Somerville is very exciting, and I hope to be able to speak to you about the position.

Regards,



Richard E. Raiche, PE, PMP

SOMERVILLE PERSONNEL
DEPARTMENT
SEP 6 PM 2 20

Attachments: Resume, project list, PE license certification, masters degree diploma, Tufts University transcript, bachelors degree diploma

RICHARD E. RAICHE, PE, PMP

SUMMARY

A Massachusetts licensed Professional Engineer and PMI certified Project Management Professional with experience in the planning, permitting, design and construction of municipal infrastructure systems. Fully fluent in all project management processes and capable of facilitating communication and collaboration between stakeholders and technical teams to develop efficient and creative solutions to complex problems. Compelling writer and presenter of technical information to general audiences.

PROFESSIONAL EXPERIENCE

TALENTWAVE, QUINCY, MASSACHUSETTS

2015 - PRESENT

Working as a contract employee through TalentWave to Dell Services Healthcare and dedicated to the Harvard Pilgrim Healthcare account.

Program and Project Management Advisor

Managing a number of information technology and software development projects for Harvard Pilgrim Healthcare using both traditional waterfall and agile management methodologies.

- Managing the software development, quality assurance and user acceptance testing teams that provide ongoing configuration changes to the claims editing and adjudication systems through the utilization of Kanban to align business owner requests with the pathway to production and monthly release management schedule.
- Leading the cross-functional team implementing a major payment policy and claims editing initiative that includes the integration of a third party software-as service system into the claim to payment process.

MWH GLOBAL, (NOW STANTEC) BOSTON, MASSACHUSETTS

2012 - 2015

An 8,000-employee consulting engineering and construction firm with offices worldwide.

Principal Project Manager

Managed a portfolio of combined sewer management and infrastructure improvement projects, totaling over \$4M in annual professional services fees.

- Envisioned and initiated new projects, aligning technical approaches with clients' budgets and expectations, thereby securing additional work with existing municipal clients and winning two large CSO mitigation programs with new clients, effectively doubling local office's backlog.
- Strengthened presentations and briefed subject matter experts to convey a consistent message, relating pieces of a complex project to the overall goals, quickly establishing credibility with new client who credited success of the stakeholder process to the team's expertise, preparation and performance.
- Led cross functional teams during project startup, speculating technical approaches, planning activities, prioritizing tasks, identifying constraints, and developing schedules to cost-effectively satisfy client needs by improving communication between disciplines and creating efficiencies.
- Led cross functional teams during project execution, exploring solutions, adapting approaches, measuring progress, auditing procedures, and determining earned value, consistently achieving project milestones and fulfilling client needs often on extremely compressed schedules.
- Developed the program management plan for the administration of a \$74M sewer separation and roadway improvement construction project.
- Engaged stakeholders not only translating technical results and constraints to manage expectations but also discovering priorities to adapt project plans to better achieve goals and improve value to clients.
- Assembled a SWAT team to review discrepancies between available and initially assumed information, adapted the project approach to maximize the use of existing data and avoid a costly change while also assuring the client that the existing model, while not fit for current purposes, was adequate for the previous uses.
- Prepared presentations and conducted workshops with client's directory board to discuss project analysis and conclusions, ultimately achieving endorsement of the recommended alternative.

RICHARD E. RAICHE, PE, PMP

CAMP, DRESSER & MCKEE INC., (NOW CDM SMITH INC.) CAMBRIDGE, MASSACHUSETTS 2006 - 2010
A 6,000-employee consulting engineering, construction and operations firm with offices worldwide.

Project Manager

Managed civil engineering planning and design projects of various sizes.

- Prepared contracts, tracked budgets, maintained schedules, directed staff and administered quality reviews, thereby contributing to the firm's reputation for delivering excellent engineering solutions and client service.
- Led a team that completed a wastewater management plan, negotiated inter-municipal agreements, and secured permits on an extremely compressed schedule, which facilitated an on-time construction start and salvaged a strained client relationship.
- Discovered the preferences and constraints for each discipline's designs through pointed questioning and active listening, coordinated the efforts of the cross functional teams, and produced an integrated design for utility support to a Department of Defense facility that reduced cost by 30 percent.

S E A CONSULTANTS INC., CAMBRIDGE, MASSACHUSETTS 1997 - 2006
A 120-employee consulting engineering and architecture firm, acquired by The Kleinfelder Group in 2009.

Project Manager (2001 - 2006)

Managed all facets of consulting engineering projects.

- Prepared scopes, budgets, contracts, amendments and workplans; directed staff and subconsultants; tracked progress; avoided scope creep; maintained schedules; prepared invoices; and performed quality reviews to ensure profitability, reduce liability and achieve client satisfaction.
- Mentored and oversaw career development of junior staff, teaching both engineering and project management skills, administering formal reviews, adjusting workload, and helping to align staff and company goals.

Principal Engineer

Rapidly advanced from entry-level to senior-level engineer: planning, permitting, designing, rehabilitating and administering the construction of utility, transportation and environmental projects.

- Developed project approaches, directed multidisciplinary teams and performed technical analyses for the preparation of integrated water resources management plans.
- Integrated the use of computer tools such as AutoCAD, Civil 3D, Excel and ArcGIS into all phases of project execution to improve quality and increase efficiency.

CITY OF HAVERHILL CONSERVATION COMMISSION, HAVERHILL, MASSACHUSETTS 1994 - 1997
Commissioner, Vice Chair (1996-1997), Clerk (1995-1996)

- Reviewed projects for compliance with Massachusetts Wetlands Protection Act.
- Conducted business at public hearings under open meeting law with the goal of providing the Commission with all relevant information while also moving lengthy agendas.

EDUCATION

TUFTS UNIVERSITY, MEDFORD MASSACHUSETTS
Master of Science in Civil & Environmental Engineering, 1997

MERRIMACK COLLEGE, NORTH ANDOVER, MASSACHUSETTS
Bachelor of Science in Civil Engineering, *magna cum laude*, Presidential Scholar, 1993

CERTIFICATIONS AND LICENSES

Project Management Institute (PMI) Project Management Professional (PMP Number 1557077)
Registered Professional Civil Engineer (Massachusetts License Number 45657)

RICHARD E. RAICHE, P.E.

PROJECT LIST

- City of South Bend Combined Sewer Overflow Long Term Control Plan, South Bend, IN.
- Narragansett Bay Commission Combined Sewer Overflow Mitigation Plan, Providence, RI.
 - Hydraulic Modeling Support for Union Square Redevelopment, Somerville, MA.
 - Stormwater Mitigation Feasibility & Prioritization Study, Somerville, MA.
- CAM004 Sewer Separation and Infrastructure Improvements, Cambridge, MA.
 - Western Avenue Sewer Separation and Infrastructure Improvements, Cambridge, MA.
 - NPDES Phase II Stormwater Permit Reporting, Waltham, MA.
 - Upper Hilldale Avenue Utility Extensions, Haverhill, MA.
 - Missile Defense Agency Site Preparation, Central Europe.
 - East Providence Sewer System Rehabilitation, East Providence, RI.
 - Sewer Heat Recovery System Evaluation, Harvard University, Allston, MA.
 - Cured-in-Place Pipe Lining of MWRA Interceptor Sewer, Allston, MA.
- Harvard University Allston Campus Development Sewer System Remediation Design, Allston, MA.
 - Ten Hills Area Infiltration and Inflow Remediation Study, Somerville, MA.
 - Tannery Brook Inflow Reduction Supplementary Study, Somerville, MA.
 - East Pier Mixed Use Redevelopment, East Boston, MA.
 - Inter-Municipal Agreement Development, Dracut, MA.
 - Supplemental Comprehensive Wastewater Management Plan, Dracut, MA.
- Planning Board Subdivision Reviews & Site Inspection Services, Southborough, MA.
 - Maple Street Roadway Improvements, Bellingham, MA.
 - Plymouth Road Stormwater Management Improvement, Bellingham, MA.
 - Comprehensive Water Resources Management Plan/Environmental Impact Report, Wilmington, MA.
 - Infiltration and Inflow Investigation, Bellingham, MA.
 - Main Street Roadway Reconstruction, Southborough, MA.
 - Private Development Utility Design Reviews - Town of Bellingham, MA.
 - Maple Street Area Sewer Extension and Water Main Replacement, Bellingham, MA.
 - Comprehensive Water Resources Management Plan/Environmental Impact Report, Bellingham, MA.
 - Wastewater Collection Systems Design & Construction Administration, Abington, MA.
 - Inter-basin Transfer Permit Application & Permit Conditions Compliance Plan, Town of Canton, MA.
 - Water Resources Evaluation, Brockton, MA.
- Massachusetts Environmental Policy Act Compliance, Environmental Notification Form and Notice of Project Change Preparation - Various Projects and Locations.