



# MUNICIPALITIES

Cities built without limits.



guernsey



***Urban communities have changed significantly since we began working with them in 1928.*** Quaint downtowns have given way to mass retailers and reverted to being quaint again, traffic is diverse and more complicated, and business hours are now 24/7 — but our longstanding relationships with municipalities of all sizes have remained constant.

Over the years we've covered every facet of municipal planning, design, development and infrastructure — from comprehensive planning, to transportation and water infrastructure, to community spaces and financial forecasting to public-private partnerships. Our staff is aligned to provide comprehensive services to communities that will create opportunities for a better quality of life.

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### ***Civil Engineering***

This is truly the foundation of **Guernsey**. Our civil engineering roots reflect on our very first days in 1928. Though technology and processes are very different today than they were then, one thing that hasn't changed is the value of a team that knows the intricacies of successful projects at every level.

### ***Infrastructure***

Population growth, increased urbanization, and new business opportunities are things every city wants — but with those benefits come the need for improved infrastructure. We have a strong history of providing governmental and private entities with public works and facility infrastructure improvements including dams and reservoirs, flood control, roadways, drainage structures, water and wastewater systems, electric power systems, resource preservation, and environmental surveys and investigations. Clients have trusted us with improvements to every facet of their infrastructure.

### ***Land Development***

The variety of specialty services we offer in land development is as far and wide as some of the stretches of land we've developed. Services we offer include site/master planning, zoning, site assessment, hydraulic and hydrologic studies, and site design. The end result is detailed, effective design documents.

### ***Transportation Engineering***

As our nation's transportation system ages, it is imperative that emphasis be placed on repairing and replacing our existing networks. Not just the roads, rails, and skies that take us places, but also everything it takes to build these systems: grading, drainage, pavement and structural design, bridges, traffic signals, signage, striping layouts, and more. We've been an integral partner to counties, cities, departments of transportation, turnpike authorities, airports, and private facilities nationwide.













### ***Water Resources***

For any state or community to grow, prosper, and be sustainable, they must have an executable plan for sustaining water supply and protecting their surrounding water resources. We understand the dynamics required to identify and develop sustainable water supplies. Drought conditions in the last decade have created cause for concern throughout the nation. Water has become a very valuable and precious resource — we cannot live without it. Areas of expertise include:

- Watershed and Water Supply Planning
- Municipal Water System Planning
- Water Quality Studies
- Water Resources Analysis
- Source Protection
- Pollutant Discharge Elimination System Permitting
- Groundwater Investigations
- Water Supply Feasibility Studies
- Storm Water Planning and Permitting
- Hydrologic and Hydraulic Analyses
- Drainage Studies
- Water Treatment/Water System Design
- Wastewater Treatment/Wastewater System Design
- Privatization of Water Systems
- Geographic Information System Applications

### ***Environmental Compliance***

**Guernsey** provides the knowledge and tools needed to meet regulatory compliance requirements. Our services include environmental audits, National Environmental Policy Act (NEPA) planning, Phase I/II/III due diligence for property transactions, hazardous materials surveys, soil and groundwater investigations, biological/ threatened & endangered species assessments, storm water pollution prevention plans, and spill prevention control and countermeasure plans. We also assist with clearances, responses, and coordination required with regulatory agencies related to permitting, consent orders, and notices of violation.



### ***Environmental Engineering***

Our daily challenge is to create sustainable, real-world engineered solutions for processing operations, infrastructure design, power-delivery systems, and environmental regulatory issues. We assist in planning, evaluating, diagnosing and mitigating engineering, and environmental issues regardless of project scale. Our goal is to optimize operating efficiencies and environmental compliance.

### ***Urban Planning***

Urban planning and design are crucial to the future of place — quality of life depends on people and where and how they live. A plan is not just a document filed at city hall, but an investment in the future — providing context for decisions that will fulfill a long-term vision. We offer services in comprehensive community planning, urban design, transportation planning, and placemaking so that residents can take pride in the rejuvenation of their city by spending quality time in great new areas or enjoying public spaces that provide the greatest benefit to the wider community.

### ***Master Planning***

Our team addresses the functional and efficient land use of property on projects of all sizes, planning for the future of the property and potential new or additional activities that might affect it. We evaluate developed sites for existing land use and characteristics, environmental factors, utility systems, facilities, and pedestrian/vehicle flow. The intended outcome is to complete the cost/benefit evaluation and determine the more efficient use: reuse/renovate or demolish/rebuild. We evaluate underdeveloped sites to determine the best use of the land and available resources and the most efficient layout of site amenities. These evaluations are instrumental in establishing architectural aesthetics, traffic and pedestrian flow, and major utility corridors.















### ***Vertical Construction***

All municipalities share a common need for facilities that vary in size, shape, and function. We help with everything from the creation of new campuses to the renovation of existing facilities. We solve operational and functional issues through creative design. Our teams work with municipal leadership and project managers to develop the appropriate design solutions for not only the owner's needs but also the needs of the facility users while meeting schedule and budget requirements.

We understand the needs of municipalities and the facilities required not only for effective operations but also enhancing the general public's life. Your campuses and facilities should be a reflection of your community's specific needs. We are dedicated to a collaborative design process to ensure the resulting renovations or new facilities serve your community efficiently and effectively. During the facility design process we focus on your identified priorities from operations and adjacencies to aesthetics and cost. With all services in-house, our design team is integrated and provides your project everything from civil site design to high-efficiency mechanical designs.

### ***Security Design***

Municipalities now face a broader array of security risks and we mitigate those risks. From the development of programmatic elements of a security program to the design of enterprise-level security management systems and crisis management exercises, our team of experts can provide you with the requisite support to develop, implement, and manage a best-in-class program.

### ***Construction Management***

Using sound judgment and reason to interpret contract documents, our team can help ensure contractors' adherence to plans and schedules. We keep communication channels open between all parties, allowing for minor design changes to enhance quality and affordability while mitigating propagation of minor issues. We offer services in cost validation, schedule oversight, document control, submittal review, quality assurance and control, construction management staffing, and site observations.

### ***Program Management/Owner's Engineer***

We can oversee the progression of your project from concept through construction. We assign a program manager to a project to sustain project status, provide decision-making skills, and develop a program perspective as required. This may also include identifying and managing cross-project dependencies, risks, issues, requirements, designs, and solutions. Program managers are not necessarily discipline-specific. They can include planners, engineers, architects, scientists, or other experts who demonstrate exceptional organization, discipline, control, and who possess the skill to communicate across levels.

### ***Cyber Security***

A solid security strategy takes more than a software package and an occasional checkup. You need a team of good guys who are trained to think like the bad guys. That's where our cyber security professionals come in. We have nationally-accredited information security experts whose sole focus is to help our clients meet their risk management goals and compliance obligations with risk management; regulatory support including NERC CIP, PCI-DSS, and HIPAA; security and vulnerability reviews; security monitoring; training and awareness; program audits; and incident response planning.













### ***Utility Analysis***

We've developed thousands of cost-of-service studies, rates, and financial models since the 1960s and have nearly 80 years of water, electric cooperative, and public power experience. It's this well-rounded package of experience and understanding that gives municipalities the utmost trust in our ability to insightfully analyze situations and make recommendations that get results. We provide management and regulatory support as well as cost of service, rates, and financial analysis to help you make the best decisions moving forward.

### ***Utility Optimization***

The growing momentum for sustainable and renewable energy projects has driven aggressive action by private sector companies courting public commitment to qualifying projects. Many are presented as self-sustaining, but it's not quite that simple. The economic viability of a project is typically based upon many interrelated assumptions that should be validated and tested for resiliency to changes in assumption. We provide independent assessment and validation to public sector clients that may be interested in pursuing these projects where cost is a consideration.

### ***Public-Private Partnerships (P3)***

We specialize in identifying, analyzing, and executing transactions that work. Transactions may present strategic opportunities to reallocate scarce resources to more important functions; however, not all arrangements result in technical performance at an economical price. Our professionals will team with you to understand your unique situation and determine whether a public-private partnership is right for your long-term best interests.



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