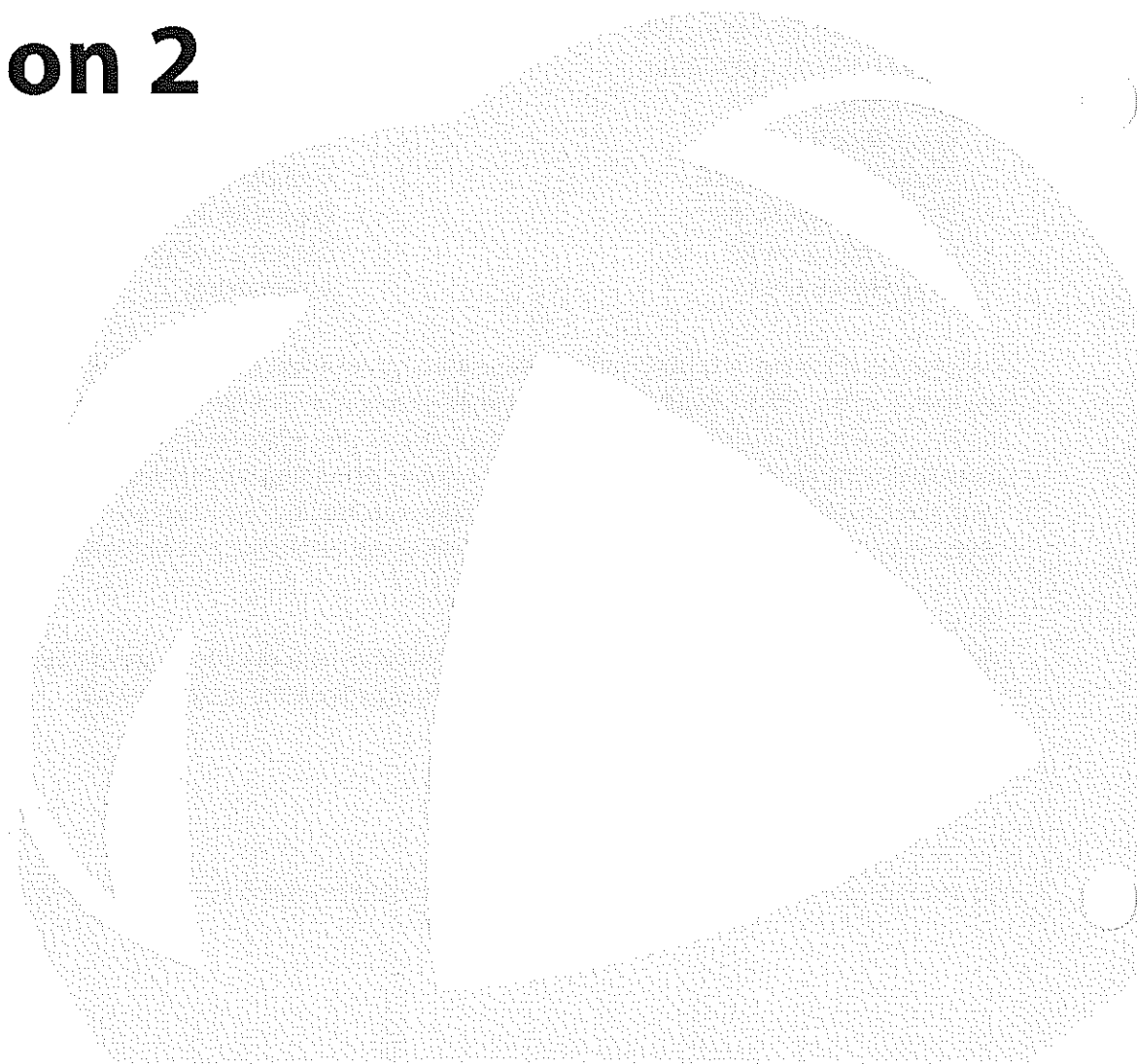


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## Section 2



# Executive Summary

## UNDERSTANDING OF ON-CALL ENGINEERING SERVICES

SLR has extensive experience providing consulting services directly to local communities and their various departments and commissions, as well as state agencies on an on-call, prequalified, or "as needed" basis since the firm's inception. Our current and recent on-call clients include:

- Town of Beacon Falls, CT
- Town of Enfield, CT
- Town of Goshen, CT
- Town of Greenwich, CT
- Town of Hamden, CT
- Town of Madison, CT
- Town of Morris, CT
- Town of New Milford, CT
- Town of Redding, CT (since 1984)
- Town of Ridgefield, CT
- Town of Southbury, CT (since 1985)
- Town of South Windsor, CT
- Town of West Springfield, MA
- City of Derby, CT (1994-2013)
- City of Meriden, CT
- City of New Britain, CT
- City of New London, CT
- City of Springfield, MA
- City of Torrington, CT
- City of Waterbury, CT
- City of Groton, CT
- Borough of Naugatuck, CT
- City of Westfield, MA
- Town of Shandaken, NY
- Androscoggin Transportation Resource Center (ME)
- Portland Area Comprehensive Transportation System (ME)
- CT Dept. of Construction Services
- CT Dept. of Transportation
- Greater New Haven WPCA
- MA Dept. of Conservation & Development
- MA Dept. of Ecological Restoration
- MA Dept. of Transportation
- ME Dept. of Transportation
- NYC Dept. of Environmental Protection
- University of Connecticut
- Vermont Dept. of Natural Resources
- Capitol Region Council of Governments
- Connecticut Metropolitan Council of Governments

Our practice spanning the public and private sectors, we are adept at providing engineering services based on our clients' needs. We are highly experienced in the preparation of project bid packages and knowledgeable in the Connecticut Department of Transportation policies, procedures and design standards, as well as municipality standards. SLR is also very familiar with the permitting requirements and procedures at the local, state and federal levels. Our understanding and approach, leading to success on our on-call contracts, are centered on the following principles all of which will be applied to this on call contract:

### Streamlined Approach

We recognize that municipal employees are often pulled in many directions, and we believe that as on-call engineers, we must be prepared to ease, rather than exacerbate, the burden of staff.

### Transitioning from the Existing Town Engineer / Engineering Services

SLR understands the importance of a seamless transition and continuous engagement on all of our assignments. This contract will involve a hands-on approach as it relates to learning and absorbing the existing projects the Town currently has underway and all they plan to pursue in the near future. We realize the most important part of the transition process is to rapidly familiarize ourselves with Town staff and protocols, and work with the Town to highlight the "priority" projects. SLR will work with Town staff to identify immediate focuses and develop a management plan to initiate and/or advance the priority projects/tasks, as well as long-term goals. Given our recent work history with the Town, including the Engineering Department, we understand the Town's internal operational structure and are eager to provide our services and support on an as-needed basis.

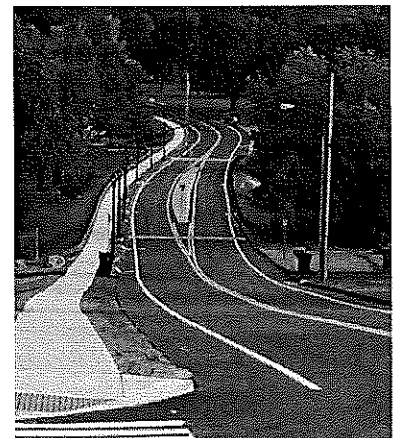


### Adaptiveness to Community Needs

With the extensive on-call consulting services we have provided to other municipalities, SLR fully understands the needs of communities such as yours. Communication and responsiveness are integral to the success of all projects/services, but especially in small close-knit communities. It is SLR's premier objective to engage the public early and often, and solicit their input to understand what is happening directly in front of their home or business as part of the initial steps of any project. It is imperative that we include the residents and property owners as we advance projects through final design in order to make construction as effective and non-intrusive as possible. Our main priority is to ensure that Town residents and workers are minimally impacted by the services we provide, but also feel they're properly informed of and involved with improvements and enhancements occurring in their community.

### Responsiveness

Through this contract, the Town may request that the selected consultant provide a fee proposal for specific projects. Upon receipt of such request, SLR is prepared to define a project team and begin work within 3 days. Assignments may also include emergency or urgent work items. In developing a fee proposal, SLR will define specific tasks and assemble a strategy for meeting the Town's needs, developing project fees based on the fee schedule included in this submittal. The fundamental element here is that the Town's operations should not suffer, but be enhanced through the use of on-call engineering. Therefore, timely development of a scope and execution of the work tasks is critical. Responsiveness begins at the first phone call the client places to the primary contact and will continue until the assignment is complete.



### Accessibility

Hand-in-hand with responsiveness is accessibility. To successfully execute the duties required for on-call engineering services, we believe that the Program Manager, Principal-in-Charge, as well as other technical

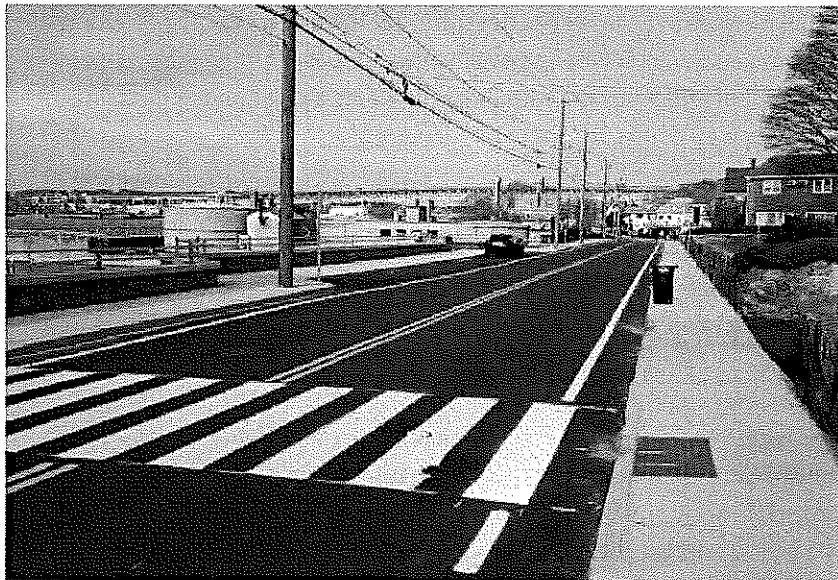
staff, must be accessible to Town staff at all times. This means being available to look at emergency or urgent assignments that require short turnaround, as well as being available to answer questions from Town staff as they arise.

#### Communication

The success of this contract will depend on effective communication protocols. This will include ongoing coordination with Town staff on all aspects of the project(s). During the course of the contract, the point of contact could provide, at a minimum, monthly status reports to the Town documenting the current status of each project and pending work efforts to be completed over the next month. In some instances, monthly communication may not be adequate and more frequent updates will be necessary. At times, it may also be necessary for the point of contact to assist in communicating project information to neighborhood groups, land use commissions, residents, or other Town staff. We have the capacity and ability to develop simple written status reports as well as renderings and graphics that can be used at presentations to assist the public in understanding the project. We are also prepared to attend meetings and present project elements, as necessary.

#### Cost Effective Solutions

In each community where we provide on-call services, similar concerns are echoed regarding financial constraints. It is important in the role of municipal on-call engineer that creative solutions are sought that can protect public health and safety while balancing the inevitable financial constraints of the community. SLR will work with Town staff to evaluate each project as it arises and understand the Town's needs and objectives.



## ON-CALL ENGINEERING APPROACH

### Management & Service Plan

SLR proposes **Paul DeStefano, PE**, as the main point of contact for design services under this on-call. Mr. DeStefano has been identified for this key role for a number of reasons. He has more than 14 years of experience at SLR. The majority of his work at the firm has involved project engineering and/or project management for locally funded, state and federally funded municipal projects. He has designed or managed a number of projects under the Surface Transportation Program (STP) Urban, Local Transportation Capital Improvement Program (LOTICIP), Local Bridge, Small Town Economic Assistance Program (STEAP), Traffic Administration (TA) and other state and/or federal programs including numerous projects throughout the region. Overall, he has extensive experience in project and client management, and managing on-call contracts with various municipalities. Mr. DeStefano has a tremendous amount of field experience and has developed a thorough understanding of constructability issues and resolutions. This is critical in terms of achieving quality control throughout design development.

Given his extensive experience, Mr. DeStefano understands and manages all aspects of such projects, including:

- Survey, mapping and data collection
- Technical design details and the waiver process
- Local, Connecticut Department of Transportation (CTDOT), Federal Highway Administration (FHWA), American Association of State Highway and Transportation Officials (AASHTO), and other policies and procedures
- Rights-of-way impacts, easement/property acquisitions, and mapping
- Environmental impacts, related state/local/federal permitting, and mitigation strategies
- Utility relocations and coordination
- Public outreach and stakeholder involvement
- Context-sensitive design features for impact mitigation
- Constructability and temporary traffic control

Design implementation involves a process which can generally be outlined as follows:

- Grant application and/or funding review
- Selection of qualified Project Manager
- Preliminary scope definition
- Assignment of design team
- Scope refinement and professional fees
- Project execution

More specifically, the above implementation steps are further explained as follows:

**1. Grant application and funding review**

When selected for a project, our first order of business will be to review the financial constraints and any prior concept work to develop an understanding of the project. Desktop research followed by a meeting with Town staff at the site would then be important to fully ascertain the details of the project. It will be critical to understand the purpose of the project so that the resulting scope of services can be tailored in an effort to generate a design which accomplishes the intended goals.

**2. Selection of a qualified Project Manager**

With consideration given to the type and nature of a particular assignment, Mr. DeStefano and Mr. Brown (Principal-in-Charge) will propose a Project Manager. A full resume of experience and reference will be shared with the Town for approval of the Project Manager prior to proceeding. If desired, a face-to-face meeting will be arranged. While serving as the point of contact for this contract, Mr. DeStefano may also be identified as the best Project Manager for a specific project. In any case, determination as to the Project Manager will be based on specific experience and availability. At times the selection may be based on previous working experience of an individual. Once identified, the Project Manager will work with Mr. DeStefano and Mr. Brown to further develop the scope and fees for the work.

**3. Preliminary scope definition**

SLR will prepare a draft scope of services based on the early project understanding. The scope shall be comprehensive and shall serve to cover all the bases with respect to survey, design, rights-of-way, permitting, utilities, constructability, etc.

**4. Assignment of design team**

Once a preliminary scope is defined, personnel will be assigned so that the design team may be fully developed. A team organization chart will be prepared and shared with the Town, as requested. The chart will indicate specific roles, responsibilities, and credentials. Once again, if resumes are desired, such information will be furnished. Identifying the team is an important aspect of project start-up, as there is great value to be gained by engaging those who will actually be doing the work.

**5. Scope refinement and professional fees**

Assignment of the design team is key to refining the scope and developing person-hour projections and fees for the work. Mr. DeStefano will organize the proposal process similar to managing the actual project. Each person involved will be responsible for refining the scope in his or her area of expertise. For example, our Soil Scientist and Biologists will work closely with our environmental engineering staff to develop the scope of services relating to permitting and mitigation. Similarly, using another example, our assigned highway design engineer will work closely with the project traffic engineer to ascertain the full scope of work relating to safe pedestrian mobility for a roadway project. Once all aspects of the scope have been fully detailed, the team will develop an estimate of personnel hours and time for completion of the work. From this information, we will be in a position to deliver a fee proposal and schedule to review. By providing all of our backup information up front, we are able to expedite the process. Mr. Brown will work in parallel to this process to manage the task-order development phase concurrently.

6. Project execution

With task order in hand, SLR will begin work on the project. Effective project management is key to delivery of a successful project. Success is achieved when:

- The design results in a quality set of construction documents
- Public consensus is achieved
- Schedule expectations are satisfied
- The construction cost opinion falls within budget
- Creativity leads to cost savings
- Context sensitivity in design truly minimizes impacts
- Aesthetics provide for overall enhancement of the finished product
- Impacts are identified early and effectively mitigated

Project execution can be described in more detail as follows:

a. Effective project management

SLR will develop a Project Management Plan (PMP) for the effective organization and management of every design project. Such plans require our Project Managers to effectively plan for the successful organization and implementation of every assignment. Quality Management is critical to the success of every project, so the development of a PMP includes the development of a Quality Control Plan and Communication Plan for each and every assignment. All such plans are tailored specific to each project and are designed to be shared with the city. The firm's Principals and management team meet regularly to discuss project work load, budgets, technical needs, etc. so that, working together, we are able to ensure that each and every project is assigned the proper resources so that schedules can be satisfied and the work is being performed by the proper and qualified individuals.

b. Thorough assessment of alternatives

The alternatives assessment phase requires we think outside the box, but also that we not overlook the obvious. Certainly we may find that alternatives were vetted during the grant application phase, so the need for and extent of effort under this step should be carefully considered during the scoping phase. When comparing alternatives, it will be important for us to consider: temporary and long-term right-of-way, visual, environmental, and utility impacts; initial construction costs and continuing maintenance requirements; public support; and the extent to which each alternative truly satisfies the original purpose and need for the project. Within each alternative, SLR will apply its niche expertise in Value Engineering to ask the right questions – and to question the obvious – in an effort to arrive at the most economical approach.

c. Early identification of impacts and mitigation strategies

Preliminary design is really the most important stage in design development. A preliminary design submission is a quality submission only if it clearly identifies impacts to rights-of-way,

utilities, natural resources, and viewsheds. It is not only good enough to identify the impacts; the preliminary design must identify with some level of detail the intended measures for mitigating the various project impacts. This is important because the mitigation strategies can actually drive the cost of a project or cause delays in permitting and stakeholder acceptance. Essentially, it is simply critical that we “put all our cards on the table” early in design so that we can effectively engage the project stakeholders. We find that by “engaging” stakeholders, we actually make them a critical part of the design process and that will typically accelerate the project, whereas creating an atmosphere of adversity only tends to slow projects down.

d. **Early vetting of constructability**

As designers, we need to ask ourselves the question of “how are we going to build this project?” It is important to ask this question during the preliminary design phase, as putting the necessary provisions into place for successful construction oftentimes requires specific items with associated costs. Such items may affect right-of-way acquisitions, permitting, and utility relocations. We ask the question early so that we have ample time to obtain necessary rights-of-entry; we have clear direction as to how to handle traffic during construction; we clearly understand the sequencing and timing of utility relocations; and we clearly represent temporary conditions (such as temporary access routes) on environmental permit applications, etc. As we consider the question of constructability, we also begin to wrap our arms around the true cost of a project as well.

e. **Accurately projecting construction costs**

SLR does not rely solely on CTDOT’s published unit price data for estimating project costs. We also rely on experience bidding projects in various Connecticut municipalities, as well as your local bidding history. We routinely track industry trends in terms of materials and labor price fluctuation, and fully understand the recent effects of the COVID-19 pandemic on material costs and availability. Cost estimating is as much an art form as it is a science. We understand how to apply proper contingencies appropriate to the design level and do not forget to account for inflation out to the construction year. It is important that as the design evolves and decisions are made, we advise our clients as to how such changes or decisions affect the project’s cost – either up, or down.

f. **Quality management through the design process**

In conjunction with effective project management, as described under paragraph a. above, a Quality Control Plan will be developed for each project or assignment. We will share with the Town our specific approach to quality management on every assignment. Quality control involves not only oversight and reviews by senior personnel, but also tedious reviews of calculations, etc. by technical staff. Essentially nothing leaves our office without a “second set of eyes.” Plan submissions are not made without internal QA/QC and constructability reviews. Where complex issues are present on a project, an outside third- party peer review may be necessary. Quality control does not have to be complicated. While technical excellence is critical, in our experience most problems during construction can be traced back to some failure to coordinate effectively during the design phase. We will aim for both technical excellence and careful coordination. Our staff are trained to document all aspects of our work and we pride ourselves in the level of stakeholder coordination that contributes to our success on projects.

g. Consistency between construction documents

Claims during construction typically result in cost overruns. Most claims can be avoided by proper design. While we do encounter unforeseen conditions from time to time, we will work with the Town to properly scope the data collection and mapping phase for all projects. While we can never truly eliminate the potential for unforeseen conditions, claims brought about by inconsistencies between plans, specifications, and/or pay items can be avoided. As part of our quality control process, we will ensure consistency between all project documents in an effort to eliminate loopholes for contractors to take advantage of alternative interpretations.

7. Timetable

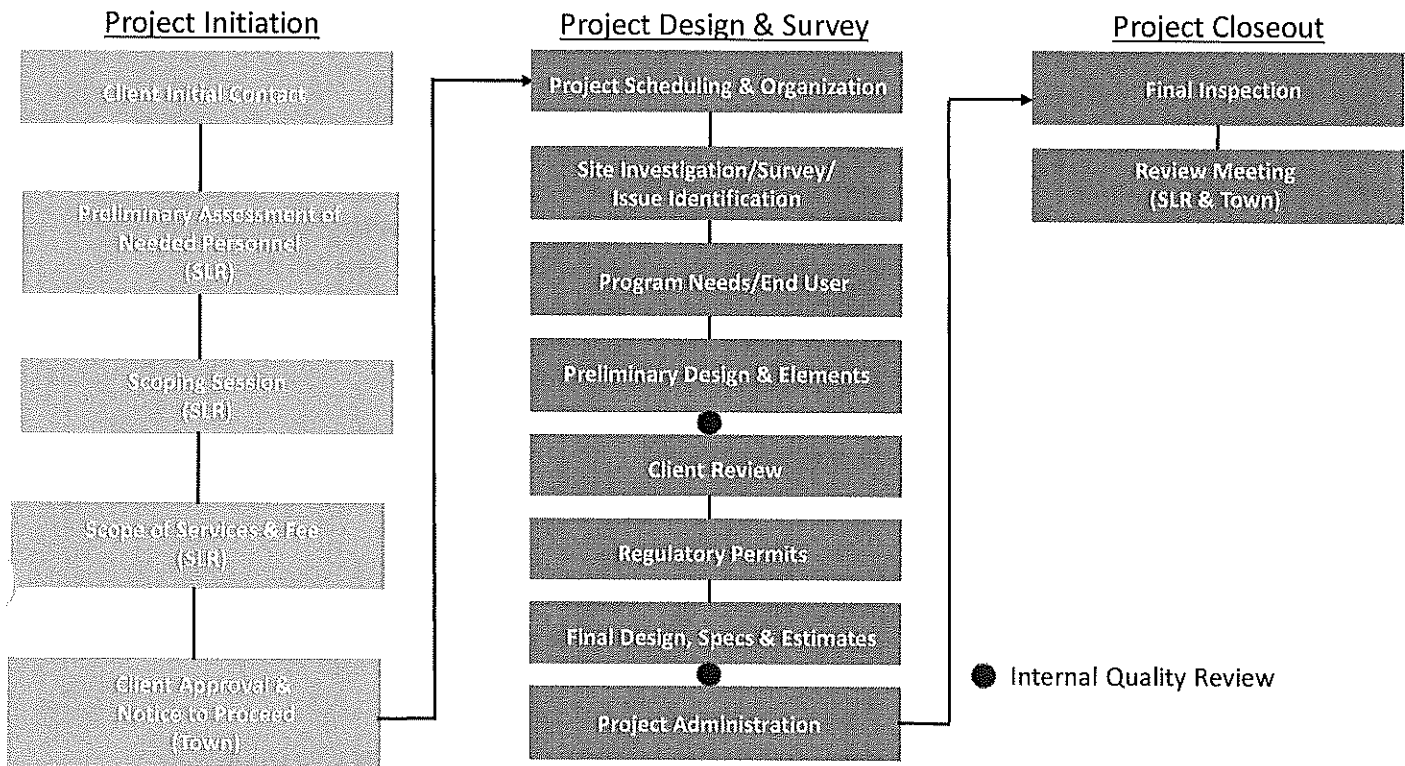
The schedule for each project or assignment will obviously be dependent on the scope and complexity of a particular project. The designer essentially maintains control over the timetable for actual design activities, and in a perfect world should be in a position to staff up or apply additional resources on an as-needed basis to meet schedule expectations. Given SLR's size, with more than 140 staff in its Connecticut offices, we are accustomed to organizing our workflow and staff allocations effectively to ensure schedules are met for concurrent design projects. There are, however, a number of project elements that can and often do affect the overall schedule for projects, such as:

- Permitting, particularly at the state and federal levels
- Rights-of-way acquisitions
- Seasonal weather conditions
- Design reviews

While we can claim to have little or no control over the above, we can certainly influence relative timetables.

For instance, a solid permit application will move quicker than one which is deemed incomplete or lacks required detail. With regard to permits, it is imperative we get it right the first time. SLR maintains a favorable working relationship and rapport with state and federal regulatory agency staff and that does tend to aid in moving permits along. SLR also has the experience to assist with property owner meetings, appraisals, negotiations and preparation and filing of right-of-way maps, so that municipalities can take control of the acquisition process at the local level. Finally, we will work with you to accelerate project schedules when necessary. We can work to structure work scopes to consolidate tasks, when appropriate, and would offer design presentations with on-board type reviews to expedite the process.

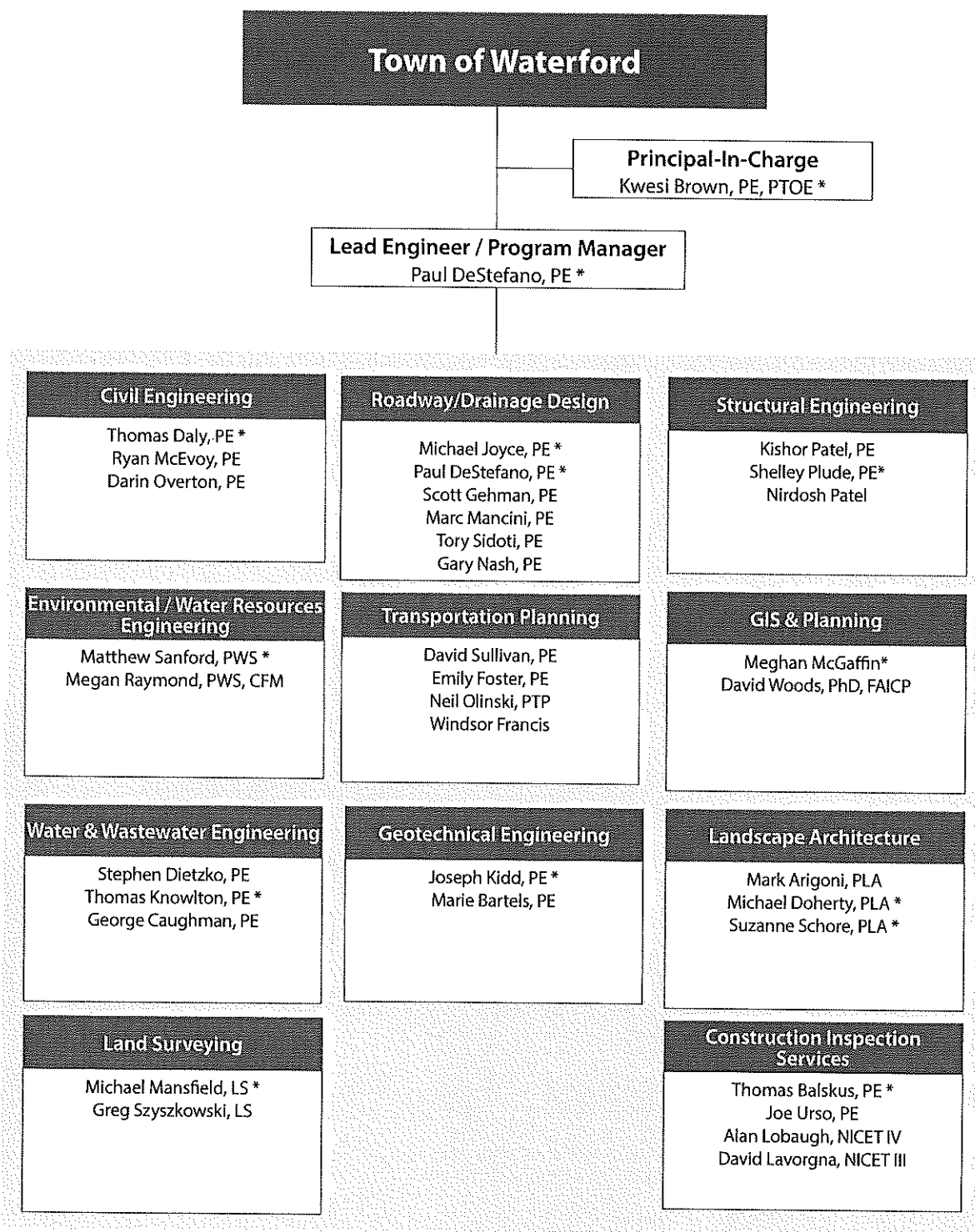
# On-Call Process



## **Section 3**



# Organization Chart



\* Resumes of Key Personnel Included

## KWESI BROWN, PE, PTOE

### US Manager of Transportation Engineering



#### YEARS OF EXPERIENCE

- 9 With This Firm
- 10 With Other Firms

#### EDUCATION

- MS, Civil Engineering  
University of Connecticut
- BS, Civil Engineering  
University of Science &  
Technology

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- Professional Traffic Operations  
Engineer (PTOE)

#### AFFILIATIONS

- Connecticut Institute of  
Transportation Engineers (ITE) -  
Past President
- Intelligent Transportation Society  
of Connecticut (ITS-CT)

Mr. Brown manages the Transportation Engineering group within SLR. He has almost 20 years of experience in traffic engineering industry and has managed several of the company's high-profile transportation projects. His expertise ranges from highway design, traffic signal and communication systems, traffic impact and safety studies, access management, corridor planning, interchange and ramp studies, transit and multimodal transportation planning and design. He has worked extensively with federal, regional, state, local and private sector clients, and is highly experienced in the use of several industry programs and software.

#### SELECTED PROJECT EXPERIENCE

- **CMAQ Day Hill Road Adaptive Signals (State Project No. 164-240) | Windsor, CT**  
Project Manager for \$1.3 million adaptive signal project which involves adaptive signal upgrades at 11 intersections on a 3-mile stretch of Day Hill Road. The project includes the installation of new adaptive controllers, system optimization, video detection and fiber optic communications interconnection upgrades. The design phase of the project has been completed and approved by CTDOT. The project is currently in the bidding phase with construction slated to begin in late 2021.
- **On-Call Signal Design Consultant: Traffic Signal Design at Fifth Avenue at Osborne Street | Danbury, CT**  
Lead Traffic Signal Designer as part of on-call engineering services to the city. Provided signal designs of new mast arms, video detection, a 2070 controller, installation of an overhead fiber optic communication, as well as construction administration and inspection services.
- **CMAQ Glenville Road Corridor Improvement Project (State Project No. 056-315) | Greenwich, CT**  
Project Manager for this \$2.2 million CMAQ funded corridor improvement project on the segment of Glenville Road from Glenville Street to Weaver Street in Greenwich, Connecticut. The project includes traffic optimization, installation of four new traffic signals, bicycle and pedestrian upgrades as well as signing and pavement marking improvements at the signalized intersections of Glenville Road at Glenville Street, Riversville Road, and Weaver Street. Additionally, geometric improvements are being implemented at three intersections to alleviate queuing, improve overall traffic operations, and increase pedestrian safety. The project is currently in final design.

- **Route 1 at West Avenue Intersection Improvements (LOTICIP Project No. L135-002) | Stamford, CT**  
Project Engineer for the design of traffic signal and safety improvements at the intersection of West Main Street (Route 1) and West Avenue. Issues addressed include traffic congestion, substandard roadway geometrics, sightline obstructions and substandard pedestrian facilities. Improvements include upgrade of the existing traffic signal, signal timing revisions, turn lanes, improved roadway geometry, sidewalks and crosswalks, landscaping, and illumination.
- **CT Route 4, S.R. 508 & Local Roads – Multi-modal Transportation Upgrades | Farmington, CT**  
Project Manager for the design of over \$6 million of on- and off-site roadway and traffic improvements associated with the more than 1,000,000 square foot expansion at the UConn Health Center campus. Collaborated with the firm's Landscape Architecture staff for the development and implementation of a campus-wide bicycle and pedestrian master plan. Other improvements included widening for the S.R. 508/Interstate 84 connector, upgrade of multiple traffic signals within the state's CT Route 4 closed loop system, and a new roundabout on campus. The firm's involvement in the project began with the development of an Environmental Impact Evaluation, for which Mr. Brown conducted the traffic impact assessment and developed mitigation strategies. The firm's plans are presented by OSTA on CTDOT's website as example documents for other consultants to follow.
- **Intersection Improvements on Route 177 at New Britain Avenue, Mill Street, & CT Route 4 (State Project No. 051-269) | Farmington, CT**  
Project Manager for the \$2.8 million signalization and roadway improvement project on Route 177 in Farmington, CT. The project involves the upgrade of three traffic signals and roadway improvements at the intersections of South Main Street (Route 177) at New Britain Avenue, Mill Street and Route 4, as well as the formalization of a mid-block crossing at the intersection of Route 177 at the Farmington River Trail with the installation of a Rectangular Rapid Flashing Beacon. Other tasks that will be undertaken include the preparation of construction drawings and specifications, bid assistance, and construction administration services. This project involves extensive coordination with the Town and the Connecticut Department of Transportation.
- **City of Meriden Roadway Evaluation Study (Former 300 acre NRG Site) | Meriden, CT**  
Project Manager for this roadway evaluation study for the City of Meriden to assess existing conditions and provide transportation recommendations to address traffic and safety impacts that could result from the potential redevelopment of a 300-acre site. The study included an analysis of mixed-use site development scenarios; future buildout traffic conditions; and recommendations for vehicles, pedestrians, and bicyclists. Study issues included access from and impacts to CT Route 71 – Chamberlain Highway and the adjacent Interstate 691 Interchanges 5 & 6. The work also involved study of the CT Transit bus routing for this area and working with the agency to coordinate potential future service to the site.
- **Reconstruction of Prospect Hill Road (State Project No. 164-233) | Windsor, CT**  
Project Engineer on the design of traffic and safety improvements at the intersection of Poquonock Avenue (State Route 75) and Prospect Hill Road. Proposed improvements included the installation of a traffic signal, provision of turn lanes, sidewalks and crosswalks, landscaping, an improved bus stop area, and lighting.
- **Route 67 Corridor Improvements (State Project No. 124-165) | Seymour, CT**  
Lead Traffic Engineer to improve traffic operations and safety within a one-mile stretch of the Route 67 corridor in Seymour. Responsible for traffic analysis and the development of corridor recommendations, traffic signal upgrades and coordination, intersection realignment and widening, and pedestrian improvements. VISSIM was utilized as part of the project to model the corridor under existing conditions and under future conditions with recommendations in place.

## PAUL DESTEFANO, PE

### Senior Transportation Engineer



#### YEARS OF EXPERIENCE

- 14 With This Firm
- 1 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
(Magna Cum Laude)  
Wentworth Institute of Technology

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

Mr. DeStefano is a Senior Transportation Engineer specializing in roadway layout, design and constructability, including roadway reconstruction and streetscape improvements. A considerable amount of his work is dedicated to geometric and safety improvement, implementation of ADA-accessible corridor, construction staging, maintenance and protection of traffic, storm water analysis and design, signing and pavement marking design, cost estimating, specification writing, preparation of project manuals and construction documents, and project and client management. He offers a background in surveying and has performed numerous field investigations and construction inspection.

#### SELECTED PROJECT EXPERIENCE

- **On-Call Town Engineer | Beacon Falls, CT**

Currently represents SLR as the First Selectman-appointed Town Engineer as part of an on-call contract with the Town of Beacon Falls for a minimum of three years. Mr. DeStefano has been responsible for providing technical support for various agencies within the Town, including the Office of the First Selectman, Finance Department, Inland Wetlands and Watercourses Agency, Planning and Zoning Commission, Public Works Department, and the Building Department.

- **Beacon Valley Road Rehabilitation (STEAP Project No. 0006-0125) | Beacon Falls, CT**

Project Manager for the reconstruction of 2,700 linear feet of Beacon Valley Road between Cotton Hollow Road and Beacon Hill Common Drive. The project will utilize construction funding administered by the Connecticut Department of Transportation (CTDOT) under the state's Small Town Economic Assistance Program (STEAP). The project includes full-depth reclamation of the existing pavement, regrading/reshaping of the existing roadway and crown, installation of 4" of new pavement and bituminous concrete lip curbing, spot guiderail replacements, storm drainage modifications, new driveway aprons, signage and pavement markings. Paul was responsible for managing all elements of the project, specification writing, project manual compilation, public/permit meeting participation and continued communication with the town throughout the design process.

- **Prospect Street Rehabilitation and Improvements (LOTICIP Project No. L143-0002) | Torrington, CT**

Project Manager for the reconstruction of 3,420 linear feet of Prospect Street between Mason Street and North Elm Street. Construction funding will be administered by the Northwest Hills Council of Governments (NHCOG) under the state's Local Transportation Capital Improvement Program (LOTICIP). The project includes full-depth replacement of the existing pavement, construction of new sidewalks on both sides of the road, installation of granite curbing and concrete



curbing, implementation of bike lanes, minor storm drainage modifications, new driveway aprons, signage and pavement markings. Paul was responsible for managing all elements of the project, public/permit meeting participation, and continued communication with the city throughout the design process.

- **Reconstruction of Cross Street (State Project No. 87-145) | Naugatuck, CT**  
Project Engineer responsible for assisting with the design efforts associated with the full-depth reconstruction, widening and intersection improvements along Cross Street, which is an approximately 4,000-linear-foot, two-lane collector road near the municipal boundary with Beacon Falls between Route 8 (exit 25) and New Haven Avenue (Route 63). The project is being funded under the STP Urban Program.
- **Reconstruction of North Main Street (LOTICIP Project No. 087-002) | Naugatuck, CT**  
Project Manager for the reconstruction of 2,400 linear feet of North Main Street between Calvin Street and Union Street, which also represent the off ramp intersections for exits 27 and 28 along Route 8 north. The project will utilize construction funding administered by the Naugatuck Valley Council of Governments (CROG) under the state's Local Transportation Capital Improvement Program (LOTICIP). The project includes full-depth replacement of the existing pavement, construction of approximately 3,000 linear feet of new sidewalks, and a new enclosed storm drainage system. Responsible for managing all elements of the project, utility coordination, estimating, specification writing, project manual compilation and continued communication with the town throughout the design process.
- **Rehabilitation of Selected Roads | North Branford, CT**  
Project Engineer for the reconstruction of approximately 2 miles of neighborhood roadways in Northford, CT, including Hummingbird Drive, Snowbird Lane, Skylark Drive, Blue Jay Drive, Hillside View Road, and Meadowlark Lane. The project utilized local bonded funding for design and construction. The project included full-depth reclamation of the existing pavement, regrading/reshaping of the existing roadway and crown, installation of new pavement and bituminous concrete lip curbing, spot guiderail replacements, storm drainage modifications, new driveway aprons, signage and pavement markings. Paul was responsible for designing and overseeing all elements of the project, specification writing, project manual compilation, public/permit meeting participation and continued communication with the town throughout the design process. He also provided inspection services for a portion of the construction, and facilitated/coordinated construction administration and inspection for the full duration of the project.
- **East Main Street, Bank Street, South Main Street and North Main Street (LOTICIP Project No. L151-0002), Waterbury, CT**  
Project Manager for roadway reconstruction and streetscape/complete streets improvements to East Main Street, Bank Street, South Main Street and North Main Street. The project involves improvements to 1,100 linear feet of East Main Street (North Main Street to North Elm Street), 700 linear feet of South Main Street (East Main Street to Scovill Street), 1,300 linear feet of Bank Street (Exchange Place to the I-84 overpass), and 680 linear feet of North Main Street (Exchange Place to Phoenix Avenue). The project will utilize construction funding administered by NVCOG under the state's LOTICIP, which is broken out in two phases (Phase 1 – East Main Street; Phase 2 – Bank Street, South Main Street and North Main Street). The project includes rehabilitation of roadway surfaces including partial-depth reconstruction, storm drainage modifications, reconstruction of sidewalks and curbs, and a new traffic signal at Phoenix Avenue and Brook Street. Streetscape design elements include paver amenity strips along the back of the curbs, new decorative crosswalks and ADA compliant sidewalk ramps, rectangular rapid flashing beacons, signage upgrades, special pavement treatments to delineate on-street parking, new decorative period-style pedestrian level illumination, landscaping, a new bus shelter, and street furniture. Paul was responsible for managing all elements of the project, cost estimating, specification writing, project manual compilation, and continued communication with the city, Waterbury Development Corporation (WDC) and NVCOG throughout the design process.

# ALAN S. LOBAUGH, NICET IV

## Chief Inspector



### YEARS OF EXPERIENCE

- 23 With This Firm
- 14 With Other Firms

### EDUCATION

- BS, Geography  
University of Connecticut

### TECHNICAL REGISTRATIONS

- NICET IV - Transportation  
Engineering Technician - Highway  
Construction
- NICET III - Civil Engineering  
Technology
- NETTCP - Concrete Inspector, Hot  
Mix Asphalt Paving Inspector
- ACI Concrete Field Testing  
Technician - Grade I
- American Traffic Safety Services  
Association (ATSSA) Traffic Control  
Supervisor

### HEALTH & SAFETY

- 40-Hour HAZWOPER Training
- 8-hour HAZWOPER Refresher
- AHA Heartsaver First Aid Program
- 10-Hour OSHA Construction  
Safety & Health

Mr. Lobaugh has 34 years of diversified construction experience, including bridges, roadways, and underground utility work in both rehabilitative and new construction. As a Chief Inspector and Inspector, he has been involved in fieldwork and administrative duties on several CTDOT and municipal assignments. His background also includes senior-level work with a materials testing consultant, which encompassed various elements of roadway and building construction.

### SELECTED PROJECT EXPERIENCE

- **Rehabilitation of the Putnam Bridge over the Connecticut River (Route 3) Value Engineering Workshop (CTDOT Project No. 53-175) | Glastonbury / Wethersfield, CT**  
Team member conducting a value engineering study on the design for the Rehabilitation of the Putnam Bridge over the CT River (Route 3) in Glastonbury and Wethersfield, Connecticut. The purpose of the project is to correct active leakage that is occurring particularly at the deck joints over the pier locations, behind copolymers panels along the inside face of the original concrete parapets, and at the median gutter lines beneath the precast concrete median barrier, which is causing the superstructure to deteriorate at a rapid pace. The proposed improvements include new parapets, median barrier, partial deck replacement, deck joint replacement, fascia stringer replacement, scuppers and drainage repairs to resolve the leakage issues, replacement and rehabilitation of the bearings, and structural steel and catwalk repairs. All proposed improvements are an effort to address the bridge's major deficiencies, restore its load-carrying capacity, and remove the bridge from the structurally deficient list.
- **Route 2 Resurfacing, Bridge, and Safety Improvements Value Engineering Workshop (CTDOT Project No. 53-177) | Glastonbury / Marlborough, CT**  
Team member providing expertise in constructability, maintenance and protection of traffic, and cost estimating for this value engineering study that evaluated the upgrade to the deteriorated pavement and the necessary repairs to 11 bridge decks and parapets as well as other safety improvements, such as guard rail replacement and/or resetting, headwall repairs, and curbing replacement. The entire project is approximately 8.3 miles. The value engineering team focused on three issues: (1) the very restrictive work constraints for rubblization, limiting work to the hours of 11:30 p.m. and 6:00 a.m.; (2) the general reluctance to discard a rigid pavement in good condition; and (3) the need to totally strip the bridges of asphalt and water proofing if the decks are still in good condition.

- **Interstate 95 Resurfacing and Safety Improvements Value Engineering Workshop (CTDOT Project No. 44-151) | East Lyme, Waterford, & New London, CT**

Team member who participated in a value engineering study for the design of Interstate 95 Resurfacing and Safety Improvements. Provided expertise in constructability, maintenance and protection of traffic, and cost estimating. The entire project is approximately 8.67 miles. The proposed improvements include upgrade to the deteriorated pavement and critical safety upgrades made by installing new recast concrete barrier curb, replacement of existing guiderail, additions and improvements to existing drainage, new 4-inch bituminous concrete park curb, barrier walls at rock cuts, improvements to nine bridges, and barrier wall protection. The value engineering team focused on three issues: (1) the high cost of the flexible temporary barrier, non-flexible temporary barrier, and the real need for those items with the availability of a 10-foot shoulder as a second lane during off-peak operations; (2) the impact on MPT if the new concrete barrier was placed at the center line of the median; and (3) the suitability of substituting metal beam guide rail in-lieu-of the concrete barrier curb.

- **Route 25 Resurfacing, Bridge & Safety Improvements Value Engineering Workshop (CTDOT Project No. 144-179) | Trumbull, CT**

Team member providing expertise in constructability, maintenance and protection of traffic, and cost estimating for this project, the purpose of which was to refurbish the existing concrete pavement, to resurface deteriorated flexible pavements, and to make necessary repairs to 23 bridge decks, as well as other safety improvements such as guide rail replacement, catch basin modifications, and curbing removal. The entire project is approximately 5.2 miles. This project focused on five issues: (1) the quantity and unit pricing of partial-depth bridge deck patching; (2) the possibility that an overlay of the existing concrete pavements might be more economical; (3) a concern about closing ramps even for night operations; (4) the economy of narrowing up the climbing lanes that are to be converted to shoulders vs. repaving them repeatedly in the future; and (5) an alternate solution to haunch removal.

- **Mullen Road Reconstruction Project (Project #16-1) | Enfield, CT**

Chief Inspector for the full depth reconstruction of over 7200 linear feet of roadway, drainage installation, guiderail installation, driveway repairs, concrete sidewalk and pavers, and local wetlands and ACOE permits requirements.

- **Pleasantview Drive Bridge Replacement (CTDOT Project No. 146-200) | Vernon, CT**

Construction administration and inspection services for the replacement of Bridge No. 04576, Pleasantview Drive Bridge, which includes removal of the four existing culverts carrying the Hockanum River under Pleasantview Drive and replacement with a precast substructure and precast deck units. The project was funded under the Federal Local Bridge Program using the Pilot Program for 100% Design Funding.

- **Pavement Preservation Construction Inspection Services (CTDOT Projects Nos. 42-312 & 145-103) | East Hartford / Manchester, Berlin / Newington / New Britain, & Union, CT**

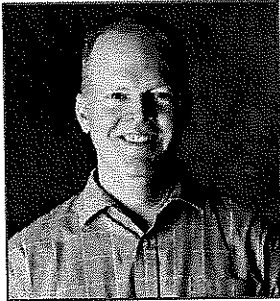
Chief Inspector overseeing construction inspection services for two separate highway projects including milling and overlay of pavement in I-84 in East Hartford and Manchester, milling and overlay of pavement on Route 9 in Berlin, Newington, and New Britain, and pavement preservation on I-84 in Union. Inspection work included oversight of milling and paving operations, maintenance and protection of traffic, bridge joint replacement, loop detector and piezo replacement, tracking material quantities, materials testing, record keeping, construction orders, and development of pay estimates. These projects utilize the SiteManager Software. All record keeping was completed in accordance with CTDOT protocols.

- **Buckland Street Pavement Rehabilitation (CTDOT Project No. 76-213) | Manchester, CT**

Chief Inspector for the rehabilitation of existing pavement on Buckland Street between Tolland Turnpike and the South Windsor town line. The project included milling and paving, roadway widening, and incidental work such as resetting structures and loop detectors, paving markings, and maintenance and protection of traffic.

## DARIN L. OVERTON, PE

Principal Civil Engineer



### YEARS OF EXPERIENCE

- 28 With This Firm
- 3 With Other Firms

### EDUCATION

- BS, Civil Engineering
- University of Connecticut

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

### AFFILIATIONS

- American Society of Civil Engineers

Mr. Overton is a Principal Civil Engineer with site development and water resources engineering project experience. He is primarily involved in stormwater quality management, hydrologic computer modeling, two-dimensional hydraulic modeling, site layout and design, and subdivision design including design of new roads and reconstruction of existing roads. Much of his project experience in site design involves steering projects toward environmentally sensitive designs that include the application of Low Impact Development (LID) principles and practices. His project experience also includes local, state, and federal regulatory permitting for a wide variety of projects.

## SELECTED PROJECT EXPERIENCE

### STORMWATER MANAGEMENT & FLOOD CONTROL

- **Noroton River Watershed Study | Darien, CT**

Served as Project Manager for a comprehensive watershed study for the 11-square-mile watershed associated with the Noroton River that runs along the western boundary between Darien and Stamford. The study served to update the existing FEMA flood model and identify solutions to localized flooding problems that have been identified by residents for years. The model showed that there were multiple causes for the flooding including overflow of the river beyond its banks and lack of capacity in storm drainage infrastructure. Several potential solutions were outlined in the report with the costs and benefits clearly identified.

- **Rowayton Avenue Culvert Replacement | Norwalk, CT**

Project Manager for implementing a recommended culvert upgrade as a continuation of a prior watershed study prepared by SLR. Coordinated detailed survey of the project area, update of the HEC-RAS modeling to incorporate the new larger culvert, and analyzed options for relief of additional flow constraints downstream that included considerations to avoid impact to a high-voltage transmission tower. Worked to coordinate design and permitting efforts with neighboring property owners, Connecticut Light and Power, City of Norwalk, Connecticut Department of Energy & Environmental Protection, and FEMA.

- **Frederick Street Bridge Replacement | Bristol, CT**

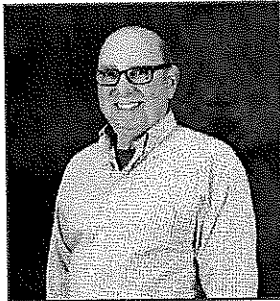
Project Manager for implementing a recommended bridge replacement as a continuation of a prior watershed study prepared by the firm. Coordinated update of the HEC-RAS modeling to incorporate the new larger bridge structure, which included analyzing the effects of backwater conditions caused by a larger river just downstream of the project site. The project included careful considerations of state and federal permitting agencies which involved addressing concerns of impact to the ecology of Coppermine Brook.



- **Silver Brook Flood Control Study | Westport, CT**  
Coordinated the collection of existing condition stream data, utilities, and topographical information for use in creating digital base mapping for the project. Approximately 1,400 linear feet of stream channel was mapped for use in hydrology models to determine the extent of flooding and the evaluation of alternate remediation measures.
- **Shepaug River Flow Study | Washington, CT**  
Participated in the development of an instream flow analysis to assess minimum flow requirements needed to maintain aquatic habitat while allowing the diversion of water for water supply purposes.
- **Poquonnock River | Groton, CT**  
Performed a two-dimensional finite model to analyze possible removal of an existing railroad abutment and to alleviate water quality problems in the cove.
- **Master Drainage Study | Wethersfield, CT**  
Assisted in the preparation of a detailed townwide stormwater management plan. Activities included preparation of a hydrologic model of various streams in town and inspected all culverts and storm drainage outfalls.
- **Echo Lake Sediment Basin | Watertown, CT**  
Project Engineer responsible for the design of a sediment basin to control sediment deposits to alleviate sedimentation problems in Echo Lake.
- **Dellwood Channel Relocation | Greenville, SC**  
Design and engineering services for channel improvements to a tributary of the Reedy River. The design restored and stabilized the channel utilizing a low-flow pilot channel with capacity of over bank flood flows.
- **Hawthorne Hotel & Conference Center | Gastonia, NC**  
Performed the site design for a 100-room hotel. The work included performing a flood analysis utilizing the hydraulic computer software WSPRO, the design of stormwater management facilities including a detention basin, grading plans, layout plans, and a landscaping plan.
- **Rampart Road | Norwalk, CT**  
Served as Design Engineer for a proposed stormwater collection system as part of a comprehensive roadway widening and reconstruction project. Also coordinated utility relocation and designed the reconstruction and extension of existing sidewalks.
- **College Avenue Streetscape / Edgewood Avenue Relocation | Clemson, SC**  
Engineering services for the preparation of construction documents for the relocation of Edgewood Avenue. The project involved the relocation of a problem intersection by constructing approximately 500 linear feet of new road and a 1,000-foot extension of streetscape improvements along College Avenue.

# DAVID J. LAVORGNA, NICET III

Chief Inspector



## YEARS OF EXPERIENCE

- 21 With This Firm
- 30 With Other Firms

## EDUCATION

- University of New Haven  
New Haven, CT

## TECHNICAL REGISTRATIONS

- NICET III - Transportation Engineering Technology / Highway Construction
- NETTCP - Concrete Technician, Concrete Inspector
- ACI Concrete Field Testing Technician Grade I
- Nuclear Density Testing No. 8597

## HEALTH & SAFETY

- AHA Heartsaver First Aid Program
- HazWoper - 24-Hour Training & 8-Hour HAZWOPER Refresher

Mr. Lavorgna is a Chief Inspector with over 40 years of design and construction experience. His expertise includes highways and roadways, storm and sanitary sewers, utility installation, parks & recreation, and site-related work.

## SELECTED PROJECT EXPERIENCE

- **Route 2 Resurfacing, Bridge, & Safety Improvements Value Engineering Workshop (CTDOT Project No. 53-177) | Glastonbury & Marlborough, CT**  
Team member providing expertise in constructability, maintenance and protection of traffic, and cost estimating for this value engineering study that evaluated the upgrade to the deteriorated pavement and the necessary repairs to 11 bridge decks and parapets as well as other safety improvements, such as guard rail replacement and/or resetting, headwall repairs, and curbing replacement. The entire project is approximately 8.3 miles. The value engineering team focused on three issues: (1) the very restrictive work constraints for rubblization, limiting work to the hours of 11:30 p.m. and 6:00 a.m.; (2) the general reluctance to discard rigid pavements in good condition; and (3) the need to totally strip the bridges of asphalt and water proofing if the decks are still in good condition.
- **Interstate 95 Resurfacing & Safety Improvements Value Engineering Workshop (CTDOT Project No. 44-151) | East Lyme, Waterford, & New London, CT**  
Team member who participated in a value engineering study for the design of Interstate 95 Resurfacing and Safety Improvements. Provided expertise in constructability, maintenance and protection of traffic, and cost estimating. The entire project is approximately 8.67 miles. The proposed improvements include upgrading the deteriorated pavement and critical safety upgrades involving installation of new precast concrete barrier curb, replacement of existing guiderail, additions and improvements to existing drainage, new 4-inch bituminous concrete park curb, barrier walls at rock cuts, improvements to nine bridges, and barrier wall protection. The value engineering team focused on three issues: (1) the high cost of the flexible temporary barrier, non-flexible temporary barrier, and the real need for those items with the availability of a 10-foot shoulder as a second lane during off-peak operations; (2) the impact on MPT if the new concrete barrier was placed at the center line of the median; and (3) the suitability of substituting metal beam guide rail in-lieu-of the concrete barrier curb.

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- **Farmington Canal Greenway, Phase II & III (CTDOT Project Nos. 92-568 / 92-589) | New Haven, CT**

Chief Inspector for 1-mile of bike/pedestrian walkway including bituminous concrete paving, drainage, decorative concrete walks, curbing, pavement markings, signage, and plantings.

- **Farmington Canal Greenway, Phase III (CTDOT Project No. 61-141) | Hamden, CT**

Chief Inspector for a 3-mile bikeway (ISTEA-funded), which included pedestrian bridges, wetland preservation, at-grade crossings/intersections, drainage improvements, landscaping, and topical trail amenities.

- **Naugatuck River Greenway (CTDOT Project No. 36-178) | Derby, CT**

Construction inspection services for the paved trail, pedestrian bridge, and paved parking.

- **Quinnipiac River Trail, Phase III (CTDOT Project No. 148-191) | Wallingford, CT**

Construction Inspector for the installation of prefabricated steel pedestrian bridge over the Quinnipiac River and a 12-foot-wide x 9-foot-high precast concrete box culvert installed under the Wilbur Cross Parkway.

- **Moses Wheeler Bridge Breakout Project from 0138-0221, I-95 over Housatonic River (CTDOT Project 0138-0249) | Milford/Stratford, CT**

Senior Inspector for this CTDOT breakout project which includes earth excavation, road reconstruction, parking areas, asbestos containing soils, controlled materials, local road reconstruction, removal of the working trestle used in the original project, pile removal, over water work, installation of a boat ramp and wetland creation.

- **Substructure Concrete Repairs of 6 Bridges (CTDOT Project No. 0172-0417) | Griswold, Lisbon, Montville, Norwich, Old Lyme, & Preston, CT**

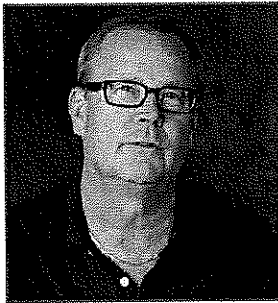
Senior Inspector providing inspection services for six bridges in various towns throughout southeast Connecticut. Construction activities inspected included concrete repair, demolition of existing steel, reinforcing steel, bridge deck replacement, bridge joint replacement, membrane waterproofing, concrete header replacement, bridge bearing seat replacement, bridge jacking and bearing replacement, coordination with railroads, utility relocations, parapet replacement, milling, paving, temporary traffic signal for alternating traffic, and maintenance and protection of traffic on I-395 and I-95.

- **Brian Dennehy Bridge (CTDOT Project No. 36-173) | Derby, CT**

Chief Inspector for the replacement of the Canal Street Bridge.

## DAVID G. SULLIVAN, PE

### US Manager of Traffic & Transportation Planning



#### YEARS OF EXPERIENCE

- 34 With This Firm
- 5 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

#### AFFILIATIONS

- Institute of Transportation Engineers
- American Society of Civil Engineers

As US Manager of Traffic & Transportation Planning, Mr. Sullivan has supervised numerous traffic engineering and transportation planning studies and improvement plans for new developments, corridors, and campus settings. Integral to these efforts were multimodal evaluations and complete streets solutions. He has also supervised countless traffic impact studies for a variety of uses, including educational facilities, industrial plants, superblocks, shopping centers, residential developments, and office/business parks. Mr. Sullivan has significant experience related to parking studies. This includes evaluation of multiple facilities within town/city centers; individual multiuse projects where shared parking demand by users was evaluated; and operational evaluation of various parking strategies and on-street dynamic parking studies.

#### SELECTED PROJECT EXPERIENCE

- **CMAQ Glenville Road Corridor Improvement Project (State Project No. 056-315) | Greenwich, CT**  
Project Director on this \$2.2 million corridor improvement project. This project entails the design and preparation of contract documents for traffic signal optimization and geometric improvements on the segment of Glenville Road from Glenville Street to Weaver Street in Greenwich, Connecticut. The project includes traffic optimization, installation of four new traffic signals, bicycle and pedestrian upgrades as well as signing and pavement marking improvements at the signalized intersections of Glenville Road at Glenville Street, Riversville Road, and Weaver Street.
- **Route 67 Improvements (State Project No. 124-165) | Seymour, CT**  
Senior Traffic Engineer responsible for preparing the traffic components of the Route 67 Improvements study, which focuses on the section of Route 67 through the western section of Seymour from the Naugatuck River extending nearly to the Oxford town line. The corridor was observed and analyzed under existing conditions to determine current deficiencies and recommended improvement strategies developed and tested.
- **Route 806 Corridor Study | Danbury, CT**  
Prepared a study of the Route 806 (Newtown Road) transportation planning corridor study in Danbury, Connecticut. The purpose of the study was to prepare an integrated corridor plan that addressed challenges facing Route 806, as well as issues that were anticipated in the future. Tasks included preparing land use development projections, roadway safety concerns, roadway capacity upgrades, access management, pedestrian and transit access and enhancement, and aesthetic/beautification streetscape improvements.

- **Route 57 at School Road Intersection Study | Weston, CT**

Undertook an intersection improvement study at Route 57 and School Road in Weston, Connecticut for the South Western Regional Planning Agency (SWRPA). Traffic operations, traffic circulation, and safety needs at the study intersection and the Hurlburt Elementary School located off School Road were undertaken. Based on the evaluation, a set of near-term and long-term traffic operation/circulation and pedestrian-friendly improvement strategies for the study area were developed.

- **Meriden Transit Center "First Mile, Last Mile" Study | Meriden, CT**

Provided senior oversight of this study which evaluated various strategies to enhance multimodal connections from the Meriden transit HUB to major destinations within a mile of the train station with an eye toward increasing convenience and therefore ridership when the new service from New Haven to Hartford to Springfield commences. The project included assessing existing conditions, evaluating future needs, developing recommendations for new pedestrian and bicycle facilities, ADA accommodations, bus stop improvements, and transit accommodations.

- **Stamford Hospital Long Range Master Plan Study | Stamford, CT**

Provided traffic and parking engineering services for a 10- to 15-year master plan to modernize the existing campus of Stamford Hospital. The goal of the long-range master plan is to create a plan for the phased replacement of the existing hospital facility that is attractive, efficient, cost-effective, and allows for the best delivery of healthcare to the community. Analyzed the impacts to the transportation system both on and off site, making a series of detailed recommendations with respect to on-site circulation, driveway location and traffic control, as well as the impact of the new hospital traffic on the surrounding roadway network. Also completed a detailed parking study for the hospital and revised the City of Stamford's parking regulations with respect to medical campuses to better reflect the needs of modern health care facilities. Postapproval efforts included traffic signal and traffic signal system design efforts.

- **Woodbridge Fire House | Woodbridge, CT**

Assisted in evaluating appropriate strategies for emergency vehicle access to and from a proposed new firehouse and development of a safe pedestrian crossing of Route 114, a heavily traveled state highway. Alternatives included installation of a fully actuated traffic signal accommodating both pedestrian and emergency access, separate signalization for the firehouse with a separate pedestrian crossing at another location, and the use of passive methods to safely alert motorists. Liaison with CTDOT in this process was an integral part of the study.

- **Widening & Signalization of CT Route 4, S.R. 508 & Local Roadways - UConn Health Care Center (UHC) Expansion | Farmington, CT**

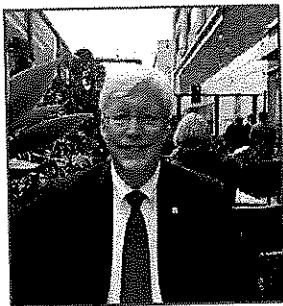
Evaluated the traffic impact and parking adequacy of a major expansion to the UHC campus in Farmington. The expansion includes a new hospital bed tower, a medical office building, a new research laboratory, and three new parking structures. Work included widening and signalization improvements on CT Route 4, S.R. 508, and side streets. Applications to the Office of the State Traffic Administration (OSTA) are also part of this study. Developed postapproval design/redesign of several new and revised traffic signals, new and revised intersection geometry, and a new on-campus roundabout.

- **Interstate 95 at Sargent Drive & Long Wharf Drive | New Haven, CT**

Five traffic signals at Interchange 46 on I-95 at both Sargent Drive and Long Wharf Drive were revised to aid in the flow of traffic. Studies of these intersections included a traffic counting program and analyses and recommendations to provide enhanced traffic flow through the area. Road widening, turn lanes, bus stops and pull-offs, exclusive pedestrian phasing, and fiber optic Interconnect from these intersections to the City Hall Traffic Operations Center were included in the design and construction documents.

# DAVID W. WOODS, PhD, FAICP

## US Manager of Planning



### YEARS OF EXPERIENCE

- <1 With This Firm
- 41 With Other Firms

### EDUCATION

- PhD, Urban Sociology, Fordham University
- MS, Urban & Regional Planning, Florida State University
- MA, Government & Politics, University of Maryland
- BA, Political Science and Urban Studies, California State University

### TECHNICAL REGISTRATIONS

- Fellow, College of Fellows of the American Institute of Certified Planners (FAICP)
- Professional Planner - State of New Jersey

### AFFILIATIONS

- APA National Leadership, Region 1 Director, APA Board of Directors (2006-2010)

Over his 40-year planning career, David W. Woods has become a national leader dedicated to reshaping urban and suburban places into beautiful, sustainable, and equitable cities of the future through collaborative planning processes that draw on both local citizens' knowledge and contribute to "national best practices." Mr. Woods' expertise includes leadership as a public servant, a non-profit organization leader, and consultant in private practice in Connecticut, New York, New Jersey, Florida, and Washington. In addition, Mr. Woods has been elected to the College of Fellows for the American Institute of Certified Planners (FAICP), the highest honor the American Planning Association gives to planners "in recognition of exemplary leadership, high standards, outstanding achievements, and distinguished contributions of the art and science of planning."

### SELECTED PROJECT EXPERIENCE

- **Town of Southbury Plan of Conservation and Development Update | Southbury, CT**

Currently functioning as the Principal-in-Charge for the review and update of the Town of Southbury's Plan of Conservation and Development (POCD). The process includes a vigorous community engagement component and will include a State required affordable housing plan.

- **Lower Connecticut River Valley Council of Governments (LCRVCOG) Housing Plan and Affordable Housing Plans | Essex, CT**

Currently functioning as the Manager of Planning in coordination with the COG staff to develop a Housing Plan analysis for the entire region which will include a State required affordable housing plan for 13 towns within LCRVCOG.

- **City of New Britain Plan of Conservation and Development Update | New Britain, CT**

Served as the Principal-in-Charge to the adoption of the final development the Plan of Conservation and Development (POCD) update of the City of New Britain. The Plan has a 10-year focus with a concentration on economic development and livability of current and future residents.

- **City of Stamford | Stamford, CT**

Served as the Deputy Director of Planning for the Land Use Bureau for the City of Stamford, Connecticut where he was responsible for long-range planning efforts, transit-oriented development and neighborhood studies, information technology, geographic information systems, and capital improvement planning. Oversaw best practices research to improve sustainability, land use, and capital improvement planning. Duties also involved the creation of innovation solutions to implement and track citywide planning and public policies. Work efforts resulted in the Conference of Connecticut Municipalities (CCM) awarding its Municipal Excellence Award for the City of Stamford's Affordable Housing program and the establishment of the Affordable Housing Trust Fund.

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## DAVID W. WOODS, PhD, FAICP

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- **GreenWoods Associates | Bronx and Port Jefferson, NY**

As the Principal of the firm, worked on select projects with an average budget of \$200,000. Completed projects include:

- Reviewed the Town of Brookhaven's Comprehensive Plan Update (Long Island, NY)
- Wrote the Community Benefits Policy Study for the Town of Brookhaven (Long Island, NY)
- Planning Consultant, Multi-Modal Transit Center, City of New Rochelle, NY
- Planning Consultant for the Plan of Conservation and Development, Town of Farmington, CT
- Planning Consultant for the Citizen Outreach Element for the Riverside Flanders Northampton Neighborhood Study, Town of Southampton, NY
- Planning Consultant for Phase 1: Crown Hill/Ballard Downtown Neighborhood Plan, City of Seattle, WA

- **Department of Planning | Brookhaven, NY**

Served as the Commissioner for the Department of Planning for the Town of Brookhaven, New York where he directed current and long-range planning, including capital projects, affordable housing, neighborhood center mixed-use developments, transportation planning, environmental protection, open space acquisition, infrastructure development, building engineering, and negotiations for public benefits and transfers of developmental rights. Mr. Woods conducted eight neighborhood center and visioning community-based planning studies, and also worked closely with elected officials, civic leaders, developers, and consultants to enhance the quality of life for all residents. Successfully launched Town-wide Comprehensive Plan with community-based citizen participation and town-wide Steering Committee.

- **Rebuild Downtown/Our Town | Lower Manhattan, NY**

Executive Director for a post-9/11 civil renewal organization of planners, architects, community residents, and other stakeholder in developing ideas and proposals for rebuilding Lower Manhattan beyond the World Trade Center in ways that would restore the area's damaged buildings, urban functions, economic vitality, and quality of life. Served as a Steering Committee Member of the Civic Alliance to Rebuild Downtown New York.

- **Urbitran Associates | Newark, NJ**

As the Vice President of Planning, managed contracts in the State of New Jersey for land use and zoning, environmental review, facility planning, budgeting, transportation-related plans, and citizen participation. Served as Project Manager and Principal Author of *"The Greater New Brunswick Area Corridor Study,"* which used stakeholder participation techniques in analyzing the need as well as the alignment and ridership options for a proposed light rail system to serve the greater New Brunswick area, including a multi-modal transit station connecting this proposed system with Amtrak.

- **City of Mount Vernon | Mount Vernon, NY**

Served as the Planning Director to the City of Mount Vernon, New York where he was responsible for all current and long-range planning for the City including capital projects, housing policy, site plan and development review, comprehensive planning, and coordinating with other departments for a smooth development review process. Coordinated with Metro North Transportation Planners and Engineers to redevelop the Mount Vernon East Station.

- **City of Lynnwood | Lynnwood, WA**

Worked as Project Manager of *"Lynnwood Legacy,"* a two-year, five-phase experimental planning project utilizing the collaborative planning process to assist the City in sitting and designing a special "downtown" district to include one or two light rail stations, which incorporated housing, land use, and community development.

## EMILY FOSTER, PE

### Associate Transportation Engineer



#### YEARS OF EXPERIENCE

- 3 With This Firm
- 6 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
Northeastern University

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

Emily Foster has over eight years of experience in transportation planning and traffic operations. As someone with a passion to constantly improve communities, Emily is looking forward to developing the Mobility Urban services. In her current role, Emily assists with traffic analysis, conceptual improvement plans, illustrative graphics, and report creation. She graduated Magna Cum Laude from Northeastern University with a bachelor's degree in Civil Engineering and a minor in Architectural History.

#### SELECTED PROJECT EXPERIENCE

- **Preliminary Design and Further Study of Road Safety Audit (State Route 63) | Watertown, CT**

Served as Project Engineer for the completion of the Main Street Safety Improvements Report. Completed conceptual improvement plans and the further study of the recommendations listed in the Main Street (Route 63) Road Safety Audit (RSA). Efforts included separate bicycle, pedestrian, and parking concept-level design improvements, order-of-magnitude cost opinions, and traffic flow operational analysis. Prepared presentation for public and stakeholder engagement workshop conducted in Fall of 2021.

- **Pedestrian Safety Study Main Street South | Southbury, CT**

Served as Project Engineer on the study to improve pedestrian and bicycle safety on Main Street South. Worked with study team to engage the public and identify corridor improvements including pedestrian signal upgrades, ramp upgrades, midblock concept, curb extensions, and bike lanes. Completed non-motorist safety improvement concept plans and the Main Street South Pedestrian Safety Study Report.

- **Broad Street Road Diet Traffic Analysis (State Route 57) | Windsor, CT**

Served as Project Engineer for the completion of the Broad Street Road Diet Traffic Analysis Update. Efforts included data collection, crash history analysis, traffic flow operational analysis, determination of appropriate feasible mitigation measures, signal timing revisions, and report/graphic preparation.

- **New Pleasant Valley School (State Route 30) | South Windsor, CT**

Served as Project Engineer on the completion of the New Pleasant Valley School Traffic Impact Study. Led the driveway conceptual design, traffic analysis, report creation, and OSTA certificate endeavors. Efforts included conceptual design, queue analysis, and truck turning analysis for all site driveways. In addition to data collection, crash history analysis, traffic flow operational analysis, determination of appropriate feasible mitigation measures, and report/graphic preparation for the traffic impact study.

- **Proposed Secondary Access Driveway at Shops at Farmington (State Route 202) | Canton, CT**

Served as Project Engineer on the completion of conceptual improvement plans and traffic flow operational analysis for the proposed secondary access driveway off Secret Lake Road at the Shops at Farmington. Led the driveway conceptual design, traffic analysis, and OSTA certificate endeavors. Efforts included conceptual design, queue analysis, and truck turning analysis for the site driveway. In addition to data collection, crash history analysis, sight distance analysis, traffic flow operational analysis, and determination of appropriate feasible mitigation measures for the OSTA Major Traffic Generator (MTG) Certificate.

- **Tidewater Landing | Pawtucket, RI**

Served as Transportation Engineer for the development of the transportation-related facilities onsite and the completion of the traffic evaluation, shared parking study, and parking management plan to assist in the building permit process within the I-95 study area. Determined appropriate feasible improvements for the surrounding study area and completed conceptual level plans. Led the traffic analysis, shared parking analysis, and report creation efforts for the Tidewater Landing Development Phase 1 Preliminary Traffic Evaluation and Shared Parking Study and the Tidewater Landing Development Interim Parking Management Plan. Efforts included extensive data collection, traffic flow operational analysis, determination of appropriate feasible mitigation measures, shared parking analysis, and report/graphic preparation.

- **Jackson Labs Route 3 Safety Study | Bar Harbor, ME**

Served as Project Engineer on the completion of conceptual improvement alternatives for the Route 3 Safety Study. Completed pedestrian safety improvement alternatives for two crossing locations. Improvement alternatives utilized the Federal Highway Administration (FHWA) proven pedestrian safety countermeasures including crosswalk visibility enhancements, raised crosswalks, pedestrian refuge islands, rectangular rapid flashing beacons (RRFB), and high-intensity activated crosswalks (HAWK). Efforts included existing conditions analysis, concept-level design improvements, alternatives analysis, final recommendations, next steps, and report/graphic preparation.

- **Triton Square Traffic Study (State Route 12) | Groton, CT**

Served as Project Engineer on the completion of the Triton Square Traffic Study. Led the traffic analysis, report creation, and OSTA Administrative Decision (AD) endeavors. Efforts included data collection, crash history analysis, traffic flow operational analysis, determination of appropriate feasible mitigation measures, and report/graphic preparation for the traffic impact study.

- **Lakeside of Cheshire Traffic Impact Study (State Route 801) | Cheshire, CT**

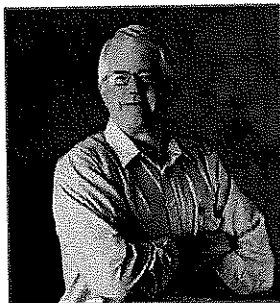
Served as Project Engineer for the Multi-Family Housing Traffic Impact Study. Led the traffic analysis, report creation, and OSTA AD endeavors. Efforts included data collection, crash history analysis, traffic flow operational analysis, determination of appropriate feasible mitigation measures, and report/graphic preparation for the traffic impact study.

- **367,373-375 and 377 East Main Street Traffic Impact Study (US Route 1) | Branford, CT**

Served as Project Engineer for the Proposed Multi-Family Residential Development Traffic Impact Study. Led the driveway and parking lot conceptual design, traffic analysis, report creation, and OSTA AD endeavors. Efforts included conceptual design, queue analysis, and truck turning analysis for all site driveways. In addition to data collection, crash history analysis, traffic flow operational analysis, determination of appropriate feasible mitigation measures, and report/graphic preparation for the traffic impact study.

## GARY R. NASH, PE

### Principal Hydrology & Hydraulics Specialist



#### YEARS OF EXPERIENCE

- 7 With This Firm
- 37 With Other Firms

#### EDUCATION

- BS, Civil Engineering (Cum Laude)  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

#### AFFILIATIONS

- American Society of Civil Engineers

Mr. Nash has been working in the hydrologic and hydraulics field since 1982. His experience includes design and analysis associated with transportation and other facilities and includes flood profile computation, floodplain analysis and delineation, bridge scour computation, stream stability analysis, scour countermeasure design, preparation of supporting data for hydraulic-related environmental permits, watershed analysis, storm drainage system analysis and design, and utility relocation design. Mr. Nash has managed, prepared, and participated in the preparation of design documents and reports and has prepared supporting data for hydraulic-related environmental permits. He is routinely approved as a Connecticut Department of Transportation hydraulic engineer.

#### SELECTED PROJECT EXPERIENCE

- **Nonnewaug Road Bridge over East Spring Brook (CTDOT Project No. 10-88) | Bethlehem, CT**

As a CTDOT Approved hydraulic engineer, performed hydraulic modelling and scour analysis to support the design of the replacement of Nonnewaug Road bridge over East Spring Brook. The existing bridge is misaligned to the channel resulting in deep, localized scour at the existing structure. The project involved realigning the existing roadway to improve roadway safety as well as improving the alignment of the bridge with respect to the channel thereby alleviating the scour concerns.

- **Lane Street Bridge over Means Brook (CTDOT Project No. 126-171-FLBP) | Shelton, CT**

Senior Hydraulic Engineer responsible for review of the hydrologic and hydraulic computations and reports required to support the design and permit applications for the replacement of this bridge carrying Lane Street over Means Brook. Also responsible for the scour analysis and scour countermeasure design for this single-span replacement structure.

- **Smokey Hollow Road Bridge over Bantam River (CTDOT Project No. 86-90) | Morris, CT**

Senior Hydraulic Engineer responsible for review of the hydrologic and hydraulic computations and reports required to support the design and permit applications for replacement of Bridge No. 05173 carrying Smokey Hollow Road over the Bantam River. Also responsible for the scour analysis and countermeasure design for this structure.

- **Replacement of Marion Avenue Bridge over Humiston Brook (LOTICIP Project No. L131-0003) | Southington, CT**  
Performed hydrologic and hydraulic design computations and modelling required to support the replacement of the Marion Avenue Bridge over Humiston Brook as well as the necessary documentation and reports necessary to support CTDEEP and USACE permitting. The project also includes instream features to prevent future degradation of the channel.
- **Replacement of Fern Street Bridge over West Branch Trout Brook (LOTICIP Project No. L155-0003) | West Hartford, CT**  
Performed hydrologic and hydraulic design computations and modelling for the replacement of the Fern Street bridge over West Branch of Trout Brook. The project also included the realignment of approximately 300 feet of channel to alleviate existing scour and sedimentation concerns. The hydraulic analysis was complicated by the lack of capacity within the Trout Brook system and requiring the design to balance the improved hydraulic performance of the bridge and the potential for a rise in water surface elevations downstream of the bridge. Also provided the hydraulic computations needed to support complex CTDEEP and USACE permits.
- **Dart Hill Road Bridge over Hockanum River (LOTICIP Project No. 146-0002) | Vernon, CT**  
Provided hydrologic and hydraulic modelling, computations, and design reports for the Dart Hill Road Bridge replacement. The proposed bridge will double the existing span length to 40-feet to improve hydraulic performance. Also provided backup documentation for CTDEEP and USACE permit applications.
- **West Main Street Bridge over Moyer Creek | Frankfort, NY**  
Conducted hydraulic modeling and scour analysis to support the design of a replacement bridge over Moyer Creek. The current bridge is in poor structural condition, and is hydraulically undersized. The hydraulic analysis was complicated by the presence of a dam located downstream of the bridge, which had an influence on the hydraulic performance of the proposed replacement bridge. Bridge replacement scenarios were analyzed with and without the removal of the downstream dam.
- **Maple Street Bridge over the Scantic River (CTDOT Project No. 129-113) | Somers, CT**  
Senior Hydraulic Engineer responsible for review of the hydrologic, hydraulic, and scour computations and reports required to support the design and permit applications for the improvements to the Maple Street Bridge.
- **Remediation & Development of 40 Maple Street | Somers, CT**  
Adjacent to the Maple Street bridge and in conjunction with the hydraulic modeling for SPN 129-113, Mr. Nash provided further hydraulic analysis of the Scantic River to determine water surface elevations that would result from demolition and redevelopment of a former mill building at 40 Maple Street just downstream of the Maple Street bridge. Work also included development of low flow hydrology and hydraulics (to design water handling during construction) and the hydraulic data necessary to support a successful application to FEMA for a Letter of Map Revision (LOMR).
- **Fodor Farm / Aviation Court Drainage Improvements | Norwalk, CT**  
Hydraulic Engineer acting as technical lead for this storm drainage improvement project for the City of Norwalk. Participation included review of computations performed for a previous study phase of the project, development of detailed design stormwater detention basin and pipe system computations for the revised system, and development of construction plans and details for issue by the city.
- **Pequot Avenue Storm Drainage | New London, CT**  
Provided hydrologic and hydraulic analyses for design of storm drainage facilities to alleviate the frequency and severity of flooding on this low lying city street. Directed extensive data gathering effort, including CCTV inspection to determine number, location, and routing of existing underground utilities. Project required relocation of a tidally influenced storm water discharge pipe from the designated swimming area of a public beach. The project is funded by the Department of Housing and Urban Development (HUD) through the CT Department of Economic and Community Development (DECD).

## GEORGE G. CAUGHMAN, PE

### Principal Water & Wastewater Engineer



#### YEARS OF EXPERIENCE

- 14 With This Firm
- 30 With Other Firms

#### EDUCATION

- BS, Mechanical Engineering  
University of South Carolina
- BS, Psychology  
University of South Carolina

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- 8-hour OSHA Confined Space Entry
- AHA Heartsaver First Aid Program

#### AFFILIATIONS

- ASME Member
- NFPA Member
- AWWA Member

Mr. Caughman is a Principal Water & Wastewater Engineer with design and construction phase proficiency with heavy construction, civil, water, wastewater, environmental and power plant projects. His wide range of experience includes sewage treatment and pumping facilities, potable and process water treatment and pumping facilities, force mains, stormwater pumping systems, odor control, process equipment and control, and the structures housing these facilities.

Mr. Caughman often directs or participates in the early study and data collection for major projects, then drives the design phase, and follows through the bid and construction phases, seeing the project from initial concept phases through successful startup and turnover to the client. His skill set includes problem definition, evaluation and selection of alternatives, design of process systems, equipment and facilities, and development of associated control strategies and telemetry. He has provided contract administration, construction oversight, inspection services, and Owner's Representation on a multitude of projects varying in size and complexity. Construction phase work includes monitoring of construction to ensure quality control and adherence to applicable codes, plans, and specifications; review and approval of contractor progress payments; and ongoing review of project schedules.

Mr. Caughman has experience supervising site engineering and inspection personnel, attends client meetings, chairs construction progress meetings, interprets construction documents, provides field engineering services, and monitors shop drawing approval and materials testing. He maintains field office files, progress/inspection reports, materials certifications, correspondence, change proposals, change orders, and review of as-built records and other documents. He oversees the start-up and testing of process equipment and verifies instrumentation and control system function. He is also experienced at performing constructability, quality control, and prebid reviews.

#### SELECTED PROJECT EXPERIENCE

- **Graving Dock Pumpwell Improvements - Major Shipbuilder (Client Confidential) | Groton, CT**  
Project Manager (Mechanical and Electrical Design) heading team responsible for design of infrastructure upgrade to support operations and maintenance of a seawater dewatering facility. The project design included substantial structural renovations to a facility interior for safe access and operational logistics, and provision of a precast concrete maintenance building with environmental protections, internal crane, secure access requirements, and capability for expeditious access and handling of large equipment. The design also included relocation of medium voltage facility feeders, secondary distribution and control systems, and an associated new electrical distribution and control facility.

## GEORGE G. CAUGHMAN, PE

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- **Rehabilitation of Bridge No. 01160 Benson Road over Interstate 84 (State Project No. 80-131) | Middlebury, CT**  
Project Manager for design of water and sanitary sewer temporary and permanent relocations in connection with bridge replacement designed by CTDOT. On behalf of the Town's Water Pollution Control Authority and Connecticut Water Co., designed temporary bypass valving and attachments to temporary utility truss over Interstate 84 and for new permanent superstructure. Coordinated utility test pits and assimilation of flow data and developed plans, specifications and estimates. Provided construction administration and inspection services.
- **Kleen Energy Power Generation Facility | Middletown, CT**  
Responsible for process system specifications for the Industrial Water Treatment System and the conceptual work on the related electrical and SCADA systems for this 620-megawatt, gas-fired power plant located on 137 acres in Middletown. Designed elements of and assisted in the design of water mains, collector wells, pump stations and structures, water treatment plant, treated water storage facility, sanitary sewers, stormwater management, roadway layout, and general infrastructure work. Served as Resident Engineer for facility's water infrastructure system, overseeing construction of multiple structures, including five buildings with four pump stations, two of which had below-river aquifer intakes, a high-capacity water treatment plant for iron and manganese removal, and electrical distribution facilities with dual medium voltage feeders and arc flash mitigation interlocked with the power plant. The infrastructure includes provision for future city water supply connection and related control and telemetry. Responsible for startup and commissioning of site water system infrastructure, pumping, treatment, and associated facilities, including SCADA interface with power plant and city-owned facilities for remote telemetry and control of intake pumping stations.
- **Hampton Woods | East Hampton, CT and Rocky Corner | Bethany, CT**  
Senior Project Engineer responsible for development of plans and specifications for community water treatment systems. Designs included pH adjustment, removal of iron and manganese, disinfection, water storage and distribution system pumping, process system control and telemetry, and related facility design.
- **Canal Dock Boathouse – UNH Marine Sciences - Salt Water Intake | New Haven, CT**  
Senior Project Engineer responsible for development of plans and specifications for a system for discharge and intake of screened sea water for an aquaculture lab. The system required storm resiliency, tidal considerations, and corrosion control mechanisms.
- **Industrial Water Supply Intake & Raw Water Pump station (Client Confidentiality Agreement) | ME**  
Provided conceptual design, specification development, and review to an engineering team responsible for multiple projects related to removal of an existing hydroelectric dam. These included dam removal, a process and fire protection water supply pumping station for a pulp and paper mill to replace existing facilities demolished as a part of dam removal, and an extension of the local town WWTP effluent line further into the river. Provided contract administration services and started up and commissioned fire protection, and two process water systems, interfacing with existing mill controls.
- **The Mattabassett District Water Pollution Control Facility Upgrade - Construction Administrator / Owner's Project Manager | Cromwell, CT**  
Project Manager responsible for construction administration services for a \$93M plant upgrade at the Mattabassett District regional sewage treatment facility. The facility was constructed in accordance with applicable building codes and in compliance with applicable elements of Connecticut's Clean Water Fund (CWF) program. It includes provision to accept flow from the City of Middletown with installation of portions observed by Mr. Caughman.

# GREGORY A. SZYSZKOWSKI, LS

## Principal Land Surveyor



### YEARS OF EXPERIENCE

- 7 With This Firm
- 33 With Other Firms

### EDUCATION

- AS, Graphic Design  
Tunxis Community Technical College
- Certificate, Publications Design  
Tunxis Community Technical College
- Certificate, Urban Public Works Construction Inspection  
University of Connecticut  
Institute of Public Works

### TECHNICAL REGISTRATIONS

- Licensed Land Surveyor - CT
- 40-Hour Hazmat Operations  
Hazardous Waste Operations & Emergency Response HAZWOPER Safety Training
- 8-Hour HAZWOPER Refresher
- OSHA 10-Hour General Industry Safety Training, 2009
- OSHA 10-Hour Construction Safety Training, 2014
- NYCDEP Security Clearance

Mr. Szyszkowski is a Principal Land Surveyor with project management experience that includes project cost estimates, new employee interviews, contracting, scheduling, acquisition of various permits for field personnel, and mentoring of office staff. His work experience includes varied projects ranging from boundary, location, topographic, ALTA/NSPS, horizontal and vertical control surveys to accident surveys and construction stakeout services. He also performs land record research, information compilation, and analysis as the basis of the land survey process. Project experience both in the field and researching has spanned the northeast from New Hampshire through New Jersey. His experience also includes the design and layout of land subdivisions, associated open spaces, roadway layouts, and inland wetlands impact and mitigation areas along with parking, grading, and site development for single-family homes and commercial enterprises, as well as on-site sanitary sewerage systems. Clients have included federal, state, municipal governments, retail, educational, commercial, industrial, and private landowners, as well as contractor/construction companies. He is the Cheshire office HSE Coordinator.

### SELECTED PROJECT EXPERIENCE

- **NRG Energy, Inc. | Montville, CT**  
Provided survey services for Environmental Land Use Restriction (ELUR) mapping at the existing energy generation station. Work included record research, ground survey, coordination and mapping.
- **Massachusetts Division of Ecological Restoration (DER) | Freetown, MA**  
Provided topographic survey and vertical control points for cranberry bog restoration.
- **FVB Energy, Inc. | Norwich, VT and Hanover, NH**  
Providing mapping and work review of subcontractors for planned solar projects over four different sites.
- **Hole in the Wall Gang Camp | Ashford, CT**  
Provided topographic survey and mapping for design engineers and horizontal and vertical control points for planned construction of new counselor bunkhouse lodging.
- **AZ Corporation | Groton, CT**  
Provided topographic mapping and construction stake out services for two natural-gas fuel cell energy stations located on the Groton Naval Submarine Base.
- **NRG Energy, Inc. | Middletown, CT**  
Provided survey services for the proposed energy production facilities at existing generation station. Work included aerial mapping control for entire site, as well as supplemental ground topographic and property survey.



## PREVIOUS CERTIFICATIONS

- AMTRAK Contractor Safety Training
- MetroNorth Railroad Contractor Safety Training
- Yale University (MedScreen)
- Dimeo Construction Company Contractor Safety Training, 2014
- Allnex Contractor Safety Training, 2014
- New York City Department of Environmental Protection Security, 2012
- CSX Railroad Contractor Safety Training, 2002

- **Spinnaker Real Estate | New Haven, CT**  
Provided ALTA survey, boundary and topographic survey, re-subdivision mapping and construction stake out services for multi-phase high-rise residential and commercial development known as "Audubon Square". Project spanned pre-development survey through final as built of new construction.
- **Hope Street | Bristol, CT**  
Provided re-subdivision mapping, topographic and boundary survey along with survey control points for major downtown roadway development on former site of shopping mall.
- **Maple Street Bridge (CTDOT Project No. 129-113) | Somers, CT**  
Providing survey services for the improvements to the Maple Street Bridge (State Project No. 129-113) in Somers, Connecticut.
- **Abbe Road Improvements (CTDOT Project No. 132-132) | South Windsor, CT**  
Provided survey services for the reconstruction of a section of Abbe Road. The project included a portion of the intersection with Miller Road for geometric changes that would increase the intersection sight distance and bring the road closer to current safety standards.
- **Long Mountain and Squire Hill Road Rehabilitation | New Milford, CT**  
Developed 3 miles of topographic survey for the reconstruction of Squire Hill Road and Long Mountain Road from North Valley Road to Hine Road.
- **Cross Street Reconstruction (CTDOT Project No. 87-145) | Naugatuck, CT**  
Land record research and computations for A-2 street and property line survey and Project Manager for topographic survey of more than 41,000 linear feet of roadway from Connecticut Department of Transportation standards.
- **Wesleyan Trail (CTDOT Project No. 82-311) | Middletown, CT**  
Property research, boundary calculations, and resolution for planned pedestrian trail through public and private lands.
- **Deans Mill & West Vine Elementary Schools | Stonington, CT**  
Establish horizontal and vertical control for aerial photogrammetry, land record research and calculations for property survey and limited topographic survey for two school sites. The projects focused on the separation of bus and vehicular drop-off locations and adequate parking for staff and visitors, athletic fields, playgrounds, sensory garden, stormwater management features, landscape design, traffic engineering, and local regulatory land use permits.

## JOSEPH A. URSO, JR., PE

### Senior Project Engineer/Resident Engineer



#### YEARS OF EXPERIENCE

- 11 With This Firm
- 4 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- ACI Concrete Field Testing Technician
- NETTCP - Hot Mix Asphalt Paving Instructor
- Qualified to be Operator of Gauge for the Nuclear Density Equipment. (Paving)
- Completed Training Course for Fall Protection, Competent Person & User
- AHA Heartsaver First Aid Program
- OSHA-10

Mr. Urso is a Senior Project Engineer / Resident Engineer whose experience includes subdivision engineering design, stormwater drainage systems, sanitary sewer systems, and roadway layout and design. He also serves as a construction inspector for a variety of project types.

#### SELECTED PROJECT EXPERIENCE

- **East Main Street Utility Improvements (LOTICIP Project No. L051-0002) | Waterbury, CT**

Chief Inspector providing full-time construction inspection for the installation of proposed water main and sanitary sewer replacements in downtown Waterbury, CT. Coordinated with underground utility companies. This \$2.7 million CTDECD-funded project was precursor to a LOTICIP complete streets project.

- **Yonkers Watermain Rehabilitation | Yonkers, NY**

Chief Inspector providing full-time construction inspection the rehabilitation of a century old watermain. The existing water main was cleaned and cement-lined.

- **Granby Street Pavement Rehabilitation (LOTICIP Project No. 011-0001) | Bloomfield, CT**

Provided construction engineering and inspection services for the pavement rehabilitation of approximately 3,800 linear feet of Granby Street. Unforeseen conditions were encountered, causing an increase in project expenses. In an effort to reduce the overall project expense, based on current field conditions, assisted in an immediate value engineering effort in order to reduce other item quantities while still providing a quality product. This assignment was part of the Capital Region Council of Governments (CRCOG) Local Transportation Capital Improvement Program (LOTICIP) Municipal Engineering On-Call List.

- **Farmington Canal Heritage Trail (CTDOT Project No. 51-268) | Farmington, CT**

Project Engineer for the Town of Farmington overseeing and assisting construction inspection services for 2.4 miles of the Farmington Canal Heritage Trail from Northwest Drive in the Town of Plainville to Red Oak Hill Road in the Town of Farmington, along the former railroad bed. The project included 13' wide bituminous concrete multi-use trail, the installation of 128 foot, 15' wide pedestrian bridge spanning Route 6, a parking lot and typical trail amenities and signage.

- **Sanitary Sewer Replacement, Route 4 (CTDOT Project No. 51-270) | Farmington, CT**  
Project Engineer for the Town of Farmington overseeing on-site inspection services including coordination with utilities and other contractors working along the project limits and mitigation management for proper removal and disposal of encountered contaminated soil existing within the proposed limits of construction, roadway reconstruction, and replacement of existing sanitary sewer systems with a new system including 24", 10", and 8" PVC pipe with associated manhole structures and 6" lateral service connections and storm drainage.
- **Kleen Energy Power Generation Facility | Middletown, CT**  
Provided design and construction inspection services for a 620 megawatt, gas fired power plant. Responsible for the design and construction inspection of over 5,000 feet of water line with metering capability, sediment basin construction, and two 50-foot-deep wellhouses. Provided construction inspection services on five plant facilities: two well houses, electrical distribution center, booster station, and water treatment plant. Also inspected multiple large water storage tanks, sedimentation and erosion controls, and miscellaneous structural and architectural elements. Oversaw the start-up and operation of pumps and treatment equipment.
- **The Ethel Walker School | Simsbury, CT**  
Assisted in performing a water system analysis and upgrades to the school's water system in preparation for the construction of two new buildings on campus. Hydraulic analysis of the existing water system found deficiencies in flow and pressure in parts of the campus. Therefore, a 1,200 gpm pump station was designed to facilitate expansion of the school, fireflow improvements, and increase water pressure at the upper floors of the dormitories. Staff worked closely with the water system operators and school staff to identify deficiencies in the existing water system and implement improvements such as the addition of building isolation valves, fire hydrant upgrades, SCADA system, chemical spill containment, security improvements, and health and safety items to protect the water system operators.
- **Chase Avenue Reconstruction (CTDOT Project Nos. 151-196 & 151-297) | Waterbury, CT**  
Coordinated by-passing construction sequence to relocate water main in a major road reconstruction project.
- **Naugatuck Consent Order Assistance | Naugatuck, CT**  
Conducted dye tests to analyze and redesign illegal residential sewer discharges.
- **Buckland Street Pavement Rehabilitation (CTDOT Project No. 76-213) | Manchester, CT**  
Construction inspection services for the rehabilitation of existing pavement on Buckland Street between Tolland Turnpike and the South Windsor town line. The project included milling and paving, roadway widening, and incidental work such as resetting structures and loop detectors, paving markings, and maintenance and protection of traffic. This project was funded under the American Recovery and Reinvestment Act (ARRA).
- **Hamden Business Park | Hamden, CT**  
Construction inspection services for expansion of the Hamden Business Park which includes four new lots which are zoned for commercial use. The project included the design and inspection of approximately 1,000 feet of roadway extension, stormwater management system, and sewer and water conveyance systems.
- **Rentschler Field Stadium Traffic Circulation & Parking Improvements | East Hartford, CT**  
Construction Inspector for the paving of new roadway and parking area for the stadium that includes reinforced turf parking, roadwork, drainage, box culverts, site lighting, landscaping, wetland plantings, and fencing.

## JOSEPH W. KIDD, MS, PE

### Principal Geotechnical Engineer



#### YEARS OF EXPERIENCE

- 3 With This Firm
- 25 With Other Firms

#### EDUCATION

- MS, Geotechnical Engineering  
University of Connecticut
- BS, Civil Engineering  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT, MA,  
NY, VT
- DFI / FQA Certification for  
Dynamic Pile TestingList areas of  
technical registrations

Mr. Kidd is a Principal Geotechnical Engineer with over 25 years of experience on a variety of projects involving state and local highways and bridges, retaining walls, deep foundations, geotechnical and construction drilling, and geotechnical instrumentation and testing, as well as environmental projects. He has a background in soil mechanics, foundation design, geotechnical instrumentation, and deep foundation design installation, monitoring, and testing. He has specialized technical expertise with driven piles, deep foundations, and construction instrumentation and monitoring. He is familiar with state and federal highway programs involving project reviews and funding by the Federal-Aid Program.

#### SELECTED PROJECT EXPERIENCE

- **Simsbury High School Athletic Facility Phase I Simsbury, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings. Prepared a geotechnical engineering report that contained recommendations appropriate for the design and construction of the proposed concession building, athletic fields, and high mast field lighting.
- **East Main Street, Bank Street and South Main Street Complete Streets Project (LOTICIP) | Waterbury, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings to evaluate the geotechnical conditions of existing roadway pavements and prepared a geotechnical engineering report that contained recommendations appropriate for the reconstruction of the roadway pavements. Investigated limits of former concrete road base and trolley tracks in codes to better understand project costs.
- **Loomis Chaffee School Campus Way | Windsor, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings to evaluate the pavement and geotechnical conditions of pavement areas of the existing school. Prepared a geotechnical engineering report that contained recommendations appropriate for the reconstruction of the existing pavements.
- **Avery Street & Dart Hill Road Reconstruction (State Project No. 132-131) | South Windsor, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings and dynamic cone penetrometer probes to evaluate the geotechnical conditions for reconstruction of two urban collector roadways. Prepared a geotechnical engineering report that contained recommendations appropriate for the reconstruction of the existing roadways.

## JOSEPH W. KIDD, PE

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- **Replacement of Nonnewaug Road Bridge | Bethlehem, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings, performed geotechnical engineering analyses and prepared a geotechnical engineering report addressing design and construction issues related to the proposed project.
- **Replacement of Cedar Street Bridge | Meriden, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings, performed geotechnical engineering analyses and prepared a geotechnical engineering report addressing design and construction issues related to the proposed project.
- **SR 806 – Newtown Road at Shelter Rock Road Traffic Signals | Danbury, CT**  
Performed geotechnical and structural engineering analyses for the design and construction of six proposed traffic signals for proposed intersection improvements based on available subsurface information.
- **East Main Street at Main Street Traffic Signals | New Britain, CT**  
Performed geotechnical and structural engineering analyses for the design and construction of four proposed traffic signals for proposed intersection improvements based on available subsurface information.
- **Westport Noquochoke Village Retaining Wall | Westport, CT**  
Prepared site-specific design for 140-foot-long mechanically stabilized earth wall (MSEW) with a maximum height of six feet for a new parking lot expansion.
- **Westminster School Retaining Wall | Simsbury, CT**  
Prepared site-specific design for 60-foot-long mechanically stabilized earth wall (MSEW) with a maximum height of eight feet for a new parking lot expansion.
- **Church Hill Road Retail Development | Newtown, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings and test pits. Prepared a geotechnical engineering report that contained recommendations appropriate for the design and construction of the proposed retail development and pavement areas. Participated in Special Inspections during construction and addressed geotechnical issues as they developed.
- **Subway Corporate Headquarters | Milford, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical test pits. Prepared a preliminary geotechnical engineering report that identified the primary geotechnical issues and provided preliminary recommendations for the design and construction of the proposed four-story building.
- **Groton Consolidated Middle School | Groton, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings and test pits. Prepared a geotechnical engineering report that contained recommendations appropriate for the design and construction of the proposed middle school building, athletic fields, and pavement areas.
- **Johnson Elementary School Additions and Renovations | Bethel, CT**  
Prepared, coordinated, and executed an exploration program that consisted of geotechnical borings and test pits. Prepared a geotechnical engineering report that contained recommendations appropriate for the design and construction of the proposed elementary school building and the reconstruction of the existing pavement areas.

## KISHOR PATEL, PE

### Principal Structural Engineer, Structural Lead



#### YEARS OF EXPERIENCE

- 23 With This Firm

#### EDUCATION

- BS, Civil Engineering  
Concordia University

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT, FL, ID, MA, ME, NH, NJ, NY, RI, SC, TN, VT, WA
- FHWA-Safety Inspection of In-Service Bridges
- 2012 Domestic Scan on ABC Connections Findings & Recommendations
- Contech Engineered Solutions ABC Bridge Concepts

#### AFFILIATIONS

- Ordre des Ingenieurs du Quebec (No. E03435)

As Principal Structural Engineer and Structural Lead, Mr. Patel is responsible for overseeing/managing structural projects and design of bridges, retaining walls, greenhouses, fish ladders, and small dams. He conducts the structural analysis for various projects, as well as prepares plans and profiles for site, grading, utilities, and sediment and erosion control. He has also been involved in many structural inspections for foundations, bridges, abutments, dams, and buildings.

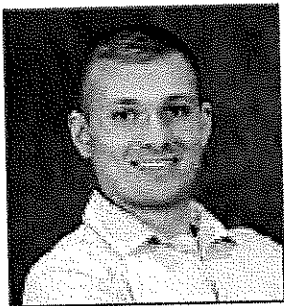
#### SELECTED PROJECT EXPERIENCE

- **Walk Bridge Vessel Relocation Study & Design (State Project No. 301-176) | Norwalk, CT**  
Senior Structural Engineer responsible for design of floating deck arrangements for temporary and permanent vessel relocation schemes. Prepared design calculations for pile design and design of gangway foundations. Developed construction details for miscellaneous slabs and equipment foundations and for transitions between landslide and in-water facilities. Estimated construction quantities and costs and reviewed special provisions.
- **Aquatic Organism Passage Restoration on Crossett Brook | Duxbury, VT**  
Completed structural engineering of open-bottom arch founded on bedrock to restore fish passage and restore geomorphic compatibility. This stream connectivity project will open up many miles of river for fish.
- **Vermont Route 15 Bypass Culverts | Jeffersonville, VT**  
Completed structural engineering of culvert to support flood mitigation project and supported traffic management and detour.
- **West Main Street Bridge over Moyer Creek | Frankfort, NY**  
Structural Engineer for the design of a replacement bridge over Moyer Creek. The current bridge is in poor condition structurally, and is hydraulically undersized. The hydraulic modeling analysis was complicated by the presence of a dam located downstream of the bridge, which had an influence on the hydraulic performance of the proposed replacement bridge. Bridge replacement scenarios were analyzed with and without the removal of the downstream dam.
- **Blacks Road Bridge over Honeypot Brook (Local Bridge Program) | Cheshire, CT**  
Provided design services for the reconstruction of the Blacks Road Bridge (No. 025-018) over Honeypot Brook in Cheshire, Connecticut. The project involved the design of the bridge replacement and roadway modifications, hydraulic modeling, environmental permitting, stream channel modifications, landscape architecture, preparation of construction cost opinions, preparation of construction documents, shop drawing review, construction administration, and on-site project representation services.

- **Putnam Avenue Pedestrian Bridge | Hamden, CT**  
Prepared construction documents for a 120' x 16' pedestrian bridge. Also designed abutments and wingwalls.
- **Rehabilitation of Four Bridges | Somers, CT**  
Inspection of four bridges per CTDOT and National Bridge Inspection Standards (NBIS). Prepared inspection reports and rehabilitating construction documents for all four bridges.
- **Minor Bridge over the Shepaug River (CTDOT Project No. 119-115) | Roxbury, CT**  
Project Engineer responsible for bridge inspections and assisted with design improvements for the rehabilitation of the existing bridge carrying Minor Bridge Road over the Shepaug River.
- **Judd's Road Bridge over the Shepaug River (CTDOT Project No. 119-119) | Roxbury, CT**  
Engineering services for the rehabilitation of Judd's Bridge over the Shepaug River. This 90-foot-span bridge is composed of twin steel trusses traversing the river in a single span. The entire steel truss was rehabilitated and timber deck replaced. Funding was provided by STEAP.
- **Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177) | Vernon, CT**  
Design and engineering services related to the replacement of the Vernon Avenue Bridge over the Hockanum River. The project was designed and constructed in accordance with state, federal, and local requirements.
- **Brian Dennehy Memorial Bridge Replacement (CTDOT Project No. 36-173) | Derby, CT**  
Performed a type study for bridge rehabilitation. Designed precast concrete deck units and abutments. Performed structural calculations, construction documents, and specifications. The project was designed and constructed in accordance with state, federal, and local requirements.
- **Weed Road Bridge Replacement | Torrington, CT**  
Engineering services for the design of a replacement culvert at Weed Road over Bantam River. The existing culverts, twin 12-foot-high pipe arches, and the roadway above were displaced in their entirety as a result of a major storm event. The culverts were replaced with a 32-foot-wide prestressed concrete arch. The project was designed and constructed within 4 months.
- **River Road Bridge over Pomperaug River (LOTIP Project No. L130-0001) | Southbury, CT**  
Provided design services relating to the superstructure replacement of the River Road Bridge over Pomperaug River. The existing bridge was constructed in 1962 and is a three-span structure (48'-88'-48') with a superstructure that consists of steel beams with a cast-in-place concrete deck. Performed design calculations and prepared construction documents for a superstructure that consists of a 3-span continuous steel beam and precast concrete deck units.
- **Vineyard Road Bridge over Burlington Brook (CTDOT Project No. 20-106-FLBP) | Burlington, CT**  
Provided design and engineering services related to the replacement of the Vineyard Road Bridge (No. 05916) in Burlington, Connecticut. The project was designed and constructed in accordance with state, federal, and local requirements. Project funded through Federal Local Bridge Program.
- **Lane Street Bridge over Means Brook (CTDOT Project No. 126-171-FLBP) | Shelton, CT**  
Provided design and engineering services related to the replacement of Bridge No. 05949, which carries Lane Street over Means Brook. The existing bridge consists of two 16-foot-wide by 5-foot-high corrugated steel arch culverts supported on concrete and stone masonry abutments. Performed design calculations and prepared construction documents for a single 40-foot span utilizing prestressed concrete deck units on precast concrete abutments.

## MARC S. MANCINI, PE

### Project Transportation Engineer



#### YEARS OF EXPERIENCE

- 3 With This Firm
- 3 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
University of Hartford

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- 10-Hour OSHA Construction  
Safety & Health

#### AFFILIATIONS

- Connecticut Institute of  
Transportation Engineers

Mr. Mancini is a Project Transportation Engineer with experience preparing technical reports, developing roadway construction plan sets, bid documents, traffic signal design and conducting traffic analysis. His work involves planning for corridor studies, multi-modal transportation circulation, and context-sensitive transportation operation analysis. Mr. Mancini is proficient in the use of software programs including ArcGIS, AutoCAD, Civil 3D, MicroStation, HCS and Trafficware Synchro.

#### SELECTED PROJECT EXPERIENCE

- **Roundabout Improvements, Route 531 and Colt Highway | Farmington, CT**  
Transportation Engineer responsible for the analysis and design of the State Route 231 and Colt Highway roundabout located just south of the UCONN Health campus in Farmington, CT. Integral to the design of the roundabout is the construction of over one million square feet of new development that resulted in the need for a more efficient intersection prioritizing safety and capacity. Throughout the planning and design process, communication with the CTDOT, Town of Farmington, UCONN Health, and nearby project stakeholders was crucial in determining design parameters. In conjunction with a thorough roundabout capacity analysis and horizontal/vertical design of the roundabout which included modifications to the adjoining roadway approaches, Marc assisted with the development of project specifications, cost estimates, and project management.
- **LOTICIP - CT Route 69 Sidewalk Improvements | Prospect, CT**  
Lead Design Engineer responsible for the planning and design of sidewalks and pedestrian signal modifications along a 1-mile section of CT Route 69 between the intersection of CT Route 68 and CT Route 69 and Oliver's Supermarket. Within the project limits includes one unsignalized pedestrian crossing, modifications to the pedestrian signal equipment and traffic signal to convert the intersection of CT Route 69 and Old Schoolhouse Road from side-street green to concurrent pedestrian phasing with LPI, and modifications to utility pole guy wires accompanied by the concrete sidewalk throughout the entirety of the corridor. Key consideration was given to pedestrian safety through implementation of a grass buffer between the existing curb and narrowing of commercial driveways for shorter pedestrian crossings. Provided consultation during construction.
- **CMAQ - Glenville Road Corridor Traffic Signal Optimization & Intersection Improvements (State Project No. 056-315) | Greenwich, CT**  
Design Engineer responsible for the redesign of three existing traffic control signals and the design of one new traffic control signal along the Glenville Road Corridor in conjunction with aiding the lead design engineer with the horizontal and vertical design of the approximately 1,500-foot corridor and intersection improvements. Within the project limits includes the implementation

of concurrent pedestrian phasing with LPI, new mast arm assemblies and traffic signal equipment, roadway widening, sidewalks stretching the entirety of the corridor, and revised on street parking to accommodate local businesses. Throughout the planning and design process, clear communication and coordination with neighborhood stakeholder was crucial. Key consideration was given to alleviate motor vehicle congestion through traffic signal optimization and roadway improvements to create a more harmonized corridor.

- **Bassett Road Reconstruction | Watertown, CT**

Design Engineer responsible for the horizontal and vertical roadway redesign of Bassett Road from the Fenn Brook box culvert to Branch Brook, a distance of approximately 1,750 linear feet. Within the project limits includes a roadway realignment for increased sight distance around the roadway curvature, roadway width uniformity, implementation of a uniform drainage system to include catch basins and underdrain systems, and modifications to the existing roadway profile to limits roadside grades and provide increased separation from frost-susceptible material beneath the roadway.

- **Community Connectivity Grant – CT Route 44 Sidewalk Improvements | Salisbury, CT**

Lead Design Engineer and Project Manager for the planning and design of sidewalks, pedestrian bridge and pedestrian crossing accommodations along a quarter mile stretch of CT Route 44 starting at its intersection with Lincoln City Road and terminating at the Lakeville Firehouse to the north. Within the project limits includes a pedestrian bridge spanning over Pettee Brook, and a Rectangular Rapid Flashing Beacon (RRFB) to provide a safe and efficient pedestrian route from the Salisbury Central School to the Lakeville Firehouse. Facilitated development of local, state, and federal permit applications.

- **Community Connectivity Grant - CT Route 61 Sidewalk Improvements | Bethlehem, CT**

Lead Design Engineer responsible for the planning and design of sidewalks and pedestrian crossing accommodations along a 0.5-mile section of CT Route 61 between Town Hall and Jackson Lane. Within the project limits includes two unsignalized pedestrian crossings, relocation of existing utilities, and rights of way impacts. Key consideration was given to pedestrian safety along the corridor through implementation of a grass buffer between the existing curb and proposed sidewalk and through extensive vetting of the two unsignalized pedestrian crossings with the Town of Bethlehem, CTDOT, and residents of Bethlehem. Provided consultation during construction and part-time inspection.

- **High Street Complete Streets Improvements | Bridgewater, MA**

Transportation Engineer responsible for the planning and design of complete streets components along a 0.3 mile section of High Street between Route 28 (Main Street) and the High Street Bridge. The planning and design process included a review of the Town's Complete Streets Prioritization Plan, identification of safe pedestrian and bicycle mobility, a review of utility impacts and the redesign of High Street to include sidewalks and bike lanes. The redesign of High Street to enable complete streets components required increased coordination with the High Street Bridge replacement project, the Town of Bridgewater, and MassDOT to ensure a viable roadway layout.

- **Cromwell Village Associates Country Squire Drive | Cromwell, CT**

Design Engineer responsible for the horizontal and vertical design of off-site improvements along Country Squire Drive in conjunction with the proposed Cromwell Village Apartments. Within the project limits includes a new centerline alignment and roadway widening to accommodate for sidewalks and to minimize impacts to existing utilities. The project included a harmonization of both public and private sector stakeholders among coordination with several disciplines to design both the on-site apartments and off-site roadway.

## MARIE BARTELS, PE

### Senior Geotechnical Engineer



#### YEARS OF EXPERIENCE

- 6 With This Firm
- 14 With Other Firms

#### EDUCATION

- MS, Environmental Engineering  
University of New Haven
- BS, Civil Engineering  
Northeastern University

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- Nuclear Density Gauge
- OSHA Hazardous Waste & Site  
Operations
- 8-Hour HAZWOPER Training

#### AFFILIATIONS

- Connecticut Society of Civil  
Engineers

Ms. Bartels is a Senior Geotechnical Engineer with experience in foundation design, administering subsurface explorations, earthwork and foundation specifications, and construction-phase services for roadway, bridge, building, and retaining wall foundations as well as roadways. She has experience preparing recommendations using ASHTO LRFD design code, and has managed multimillion-dollar state projects in the geotechnical design and construction phases. Ms. Bartels is also familiar with planning, design, and construction-phase services for small and intermediate development projects.

#### SELECTED PROJECT EXPERIENCE

- **Bank Street & South Main Street | Waterbury, CT**  
Geotechnical Engineer for design of 2,000 linear feet of roadway reconstruction. Coordinated utility clearances and the subsurface exploration program consisting of 13 borings. Sampled and evaluated subgrade conditions to provide pavement sections recommendations for the new roadway.
- **Western Avenue & Court Street Improvements | Westfield, MA**  
Geotechnical Engineer for design of 4,500 linear feet of roadway reconstruction, five signal poles, and one retaining wall. Coordinated utility clearances and the subsurface exploration program consisting of 34 borings and five hand holes. Sampled and evaluated subgrade conditions, and provided recommendations including pavement sections for the new roadway, and geotechnical parameters for the new retaining wall and signal poles.
- **Route 67 (Bank Street) Spot Improvements (State Project No. 124-165) | Seymour, CT**  
Geotechnical Engineer for the several spots improvements and roadway widening along Bank Street (Route 67) and River Street (Route 313) in Seymour, CT for the Naugatuck Valley Council of Governments. The subsurface exploration program consisted of numerous borings, which were used to evaluate subgrade conditions to provide retaining wall foundation and traffic signal foundation recommendations. Geotechnical design parameters were also developed for pavement and sidewalk subgrades.
- **West Main Street at West Avenue Intersection (LOTICIP Project No. L135-002) | Stamford, CT**  
Geotechnical Engineer for the widening of a busy city intersection. The subsurface exploration program consisted of two borings, which were used to evaluate subgrade conditions to provide retaining wall foundation recommendations. Recommendations for pavement and sidewalk subgrades and sections were also developed.

## MARIE BARTELS, PE

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- **Long Mountain & Squire Hill Road Rehabilitation | New Milford, CT**  
Geotechnical Engineer responsible for coordinating and administering subsurface explorations including shallow borings at + 400-foot intervals over three miles of roadway. Coordinated laboratory testing and performed analysis and design of alternative pavement sections.
- **Green Manor North / Pine Grove-Tanglewood Road Reconstruction Projects | Enfield, CT**  
Geotechnical Engineer for design of 13,000 linear feet of roadway reconstruction. The subsurface exploration program consisted of 37 borings, which were used to sample and evaluate subgrade conditions and to provide pavement section and sub-drain recommendations for the new roadway.
- **50 Old River Road | Canton, CT**  
Geotechnical Engineer for a new public works facility and salt shed. The subsurface exploration program consisted of four borings and two test pits, which were used to evaluate subgrade conditions. Geotechnical issues included options for ground improvement for foundations and reuse of onsite soils.
- **Macy's Parking Lot Rehabilitation | Cheshire, CT**  
Responsible for identifying and recording areas of pavement distress, and coordinating the execution of 24 borings. Prepared a geotechnical engineering report summarizing the subsurface conditions and providing geotechnical engineering recommendations to reclaim and reuse site materials.
- **Avalon Springs Pavement | Wilton, CT**  
Geotechnical Engineer tasked with planning and executing an 11 borings program to evaluate the existing pavement subgrades. Prepared a geotechnical engineering report summarizing subsurface conditions and proving recommendations for pavement rehabilitation.
- **Centre Square, North Main Street & Riverside Avenue | Bristol, CT**  
Geotechnical Engineer for a new 950 linear foot roadway through an urban development area. The subsurface exploration program consisted of six borings and three test pits, which were used to evaluate subgrade conditions for use in generating subgrade preparation, pavement section, and drainage recommendations.
- **Pat Kidney and Woodrow Wilson Fields | Middletown, CT**  
Geotechnical Engineer responsible for coordinating and administering subsurface explorations consisting of 11 borings. Prepared a geotechnical engineering report that contained recommendations appropriate for the design and construction of concession stands, bleachers, grass fields, basketball courts, tennis courts, retaining walls, and parking areas.
- **Simsbury High School Athletic Facility | Simsbury, CT**  
Completed in two phases, Geotechnical Engineer responsible for coordinating and administering subsurface explorations consisting of 22 borings. Prepared a geotechnical engineering reports that contained recommendations appropriate for the design and construction of new tennis courts, concession stand, synthetic turf field, and light pole structures.
- **Deluca Field | Stratford, CT**  
Responsible for coordinating and administering two borings at a failing backstop to be replaced.

## MARK ARIGONI, PLA

### US Manager of Landscape Architecture



#### YEARS OF EXPERIENCE

- 26 With This Firm
- 1 With Other Firms

#### EDUCATION

- BS, Landscape Architecture  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Landscape Architect - CT, MA, NH,  
NY, NJ, NC, RI, VA

#### AFFILIATIONS

- Council of Landscape  
Architectural Registration Board  
of Directors (CLARB) 2019 -  
Present
- Connecticut Board of Landscape  
Architects Chairperson 2015 -  
Present

Mr. Arigoni is the US Manager of Landscape Architecture at SLR. He is responsible for the project development and management of design, coordination, specifications, cost estimates, construction documents, and permit applications for various projects of size and complexity located throughout New England. Project assignments have included the design of greenways, streetscapes, passive and active parks, environmental restorations, recreational facilities, athletic facilities, urban redevelopment and revitalizations, commercial site developments, and conventional and open space subdivisions.

#### SELECTED PROJECT EXPERIENCE

- **Community Field | Middlebury, CT**

Project Manager responsible for the site layout of new softball and soccer fields along with a basketball court and playground area. The fields required new night lighting and expanded parking areas.

- **Norwalk Heritage & Oyster Shell Park | Norwalk, CT**

Technical Lead responsible for production and organization of preliminary drawings and documents and final construction drawings and documents for a waterfront renewal park along the Norwalk River. The project included a waterfront park and esplanade, realignment and design of Riverside Drive, and layout and design of a 3,000-linear-foot pedestrian pathway along the river. Served as the landscape architect for the preliminary and final design of a landfill park known as Oyster Shell Park. This park design includes a 1,000-seat outdoor amphitheater and stage, trail systems, and extensive landscaping treatments including crushed oyster shell pathways and winding color-specific perennial bands.

- **Riverside Deck & Dock | Norwalk, CT**

Landscape Architect for the design of a 3,700-square-foot multilevel wooden deck that spans the city's primary sanitary sewer siphon chamber and a 131-foot floating dock on the Norwalk River.

- **Center Park | Manchester, CT**

Oversaw the planning, design, and construction services for park improvements including inventory and analysis of existing site conditions, preliminary and final design, preparation of specifications, and construction-phase services.

- **Morehouse Farms & Bisceglie-Scribner Parks | Weston, CT**

Assisted with the master plan for renovation and expansion of the town's athletic fields including a detailed analysis of existing conditions, survey, test pits, percolation tests, field agronomy analysis, the compilation of existing utility information, and a log of existing field use demands.



## MARK ARIGONI, PLA

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- **Williams Street Playground | Danbury, CT**

Planning and design services for the development of construction drawings and specifications for a new park on a vacant city-owned parcel along Blind Brook within the Williams Street neighborhood. This park has been designed to be accessible for everyone and includes new playground equipment such as swings and a playscape, as well as the construction of new sidewalks and the installation of benches, bike racks, park signage, and numerous other landscape improvements.

- **School Playground Improvements | Danbury, CT**

Assessment and design coordination of proposed improvements to several existing school playgrounds. This project targets the removal of unsafe play equipment, as well as the renovation of existing equipment, and the selection of new equipment for Mill Ridge School, South Street School, Park Avenue School, and Shelter Rock School.

- **Annual Playground Safety Audit | Danbury, CT**

Assisted with the inspection of several playgrounds following guidelines and procedures of the National Playground Safety Institute. The work included the evaluation of fall zones, separation distances between playground apparatus, areas of entrapment, safety surfaces, condition of equipment, and Americans With Disabilities Act compliance.

- **Rogers Park Master Plan | Danbury, CT**

Assisted with the preparation of concept plans for reconstruction of athletic fields, playground, memorial garden, pedestrian and vehicular circulation system, and the preparation of budgets.

- **Highland Park Spray Pool | Danbury, CT**

Assisted with the design of a sprayscape in the former swimming pool area. The proposed improvements included site grading, site drainage, location of site utilities, and a planting plan.

- **Derby Recreation Study & Master Plan | Derby, CT**

Assisted with the master plan for improving and expanding the indoor and outdoor recreation systems. The facilities studied include the athletic fields at Derby High School; Bradley and Irving Elementary Schools; and swimming pool, health club, and gymnasium at the Veterans Community Center adjacent to City Hall.

- **Stepping Stones Museum for Children | Norwalk, CT**

Responsible for the site layout of an interactive children's museum. The project incorporated the museum grounds into a proposed park network system.

- **Cleveland Park | Spartanburg, SC**

Assisted with design services associated with the improvements to this public park. The proposed improvement plan included the construction of several new buildings, dam and pond improvements, restoration of a miniature train system, and landscape improvements.

- **Sloper Outdoor Center Master Plan | Southington, CT**

Assisted with the master plan for improvements to approximately 143 acres of land utilized for over 50 years by the Southington community for recreational purposes.

- **Little League Field Complex | Newtown, CT**

Landscape Architect responsible for the design of two high-quality little league fields, parking area, and wetland restorations on a 7-acre parcel.

## MATTHEW J. SANFORD, PWS

### US Manager of Ecology



#### YEARS OF EXPERIENCE

- 20 With This Firm
- 1 With Other Firms

#### EDUCATION

- MS, Wetland Biology  
Southern Connecticut State University
- BS, Natural Resource Management (Magna Cum Laude)  
University of Connecticut

#### TECHNICAL REGISTRATIONS

- Certified ACOE Wetland Delineator
- Registered Soil Scientist
- Professional Wetland Scientist

#### AFFILIATIONS

- Board of Directors of the Connecticut Association of Wetland Scientists (CAWS) - Former President, Former Vice President
- Society of Wetland Scientists
- Association of Massachusetts Wetland Scientists
- Connecticut Entomological Society

Mr. Sanford is the firm's Manager of Ecology with experience in the areas of natural resources and specific expertise in vegetation management, invasive species control, GPS resource mapping, GIS modeling, biological inventories, water quality monitoring, watershed planning, vernal pool surveys; wetland delineation, assessment, and functions; inland wetland and tidal wetland impact mitigation; and peer review services. Mr. Sanford's project experience includes computer modeling and design in ArcGIS and TR-20. He is a Professional Wetland Scientist (PWS) and is a registered soil scientist. He has expertise in United States Army Corps of Engineer (USACE) wetland delineations and has conducted USACE delineations in New York, Connecticut, Vermont, and Massachusetts. Mr. Sanford served as Vice President and President of the Connecticut Association of Wetland Scientists (CAWS).

#### SELECTED PROJECT EXPERIENCE

- **Cross Street Reconstruction (CTDOT Project No. 87-145) | Naugatuck, CT**  
Delineated wetlands and watercourses along project corridor. Review CTDEEP NDDDB GIS mapping and FEMA floodplain mapping to determine needs for federal and state permits. Prepare local wetland permit application.
- **Naugatuck Greenway Phase I (CTDOT Project No. 87-143) | Naugatuck, CT**  
Delineated wetland resources and identified invasive species along the one-mile section of Naugatuck River. Prepared FMC for the CTDOT and SCEL permit for Borough of Naugatuck for construction of approximately 1 mile of greenway. Permits were successfully obtained.
- **Catch Basin Mapping | Naugatuck, CT**  
Field located over 2,000 catch basins and associated piping using GPS to update the borough's stormwater management mapping and help establish a catch basin maintenance plan.
- **Beacon Valley Road Rehabilitation (STEAP Project No 0006-0125), | Beacon Falls, CT**  
Permit Coordinator for the rehabilitation of Beacon Valley Road. The project required drainage, milling, and roadway improvements within the FEMA designated 100-year floodplain of Beacon Valley Brook. Assisted in the preparation of CTDOT Flood Management General Certificate and local inland wetland approvals.
- **I-84 Danbury Project - Environmental Document (CTDOT Project No. 34-349) | Danbury, CT**  
Technical leader for natural resource investigations including inland wetland and watercourse delineations and function and value assessments, listed flora

and fauna species surveys and reporting to CTDEEP NDDDB program, public presentations, preparation of the environmental sections of the NEPA and CEPA document for this 8 mile expressway corridor.

- **Farmington Canal Heritage Trail (CTDOT Project No. 25-135) | Cheshire, CT**  
Delineated inland wetland and watercourse resources, complete vernal pool and listed species surveys for Eastern Box Turtle and Eastern Ribbon Snake. Coordinated CTDEEP Fishery Biologist through CTDOT review form requirements, CTDEEP NDDDB preliminary and final determinations, and preparation of USACE Category 2 permit, CTDEEP Programmatic General Permit, CTDEEP Construction Related Stormwater General Permit. Developed wetland mitigation plans and provided construction inspection and permit compliance monitoring.
- **Prospect Hill Road Reconstruction (CTDOT Project No. 164-233) | Windsor, CT**  
Delineated wetlands and watercourses along project corridor. Reviewed CTDEEP NDDDB GIS mapping and FEMA floodplain mapping to determine needs for federal and state permits. Prepared local wetland permit application.
- **River Road Bridge over Pomperaug River (LOTICIP Project No. 130-0001) | Southbury, CT**  
Permit Coordinator for superstructure replacement for the three-span structure (48'-88'-48') River Road Bridge over the Pomperaug River. Extensive CTDEEP fishery review, CTDEEP NDDDB preliminary and final determinations, SHPO consultation, FirstLight Power consultation, and preparation of USACE Category 1 permit application and local inland wetland approvals.
- **Killingworth Reservoir Wetland Mitigation | Killingworth, CT**  
Inspected construction of approximately 6.2 acres of deep marsh, shallow marsh, and scrub/shrub wetlands along the littoral zone of Killingworth Reservoir. Responsibilities included monitoring of proposed grading activities within the creation areas, and observation of the placement of wetland soils and wetland plants within creation area. Provided five years of post construction annual monitoring and report preparation for wetland mitigation area in accordance with the USACE and CTDEEP special permit conditions.
- **Rockwell Park Wetland Mitigation | Bristol, CT**  
Inspected the creation of a 1.3 acre open water pond and a 2.2 acre emergent marsh/scrub shrub wetland community within former Phragmites dominated lagoon. Responsibilities included monitoring of proposed grading activities within the creation areas, and observation of the placement of wetland soils and wetland plants within creation area. Provided post construction annual monitoring and report preparation for wetland mitigation in accordance with CTDEEP special permit conditions.
- **Rentschler Field Wetland Restoration | East Hartford, CT**  
Prepared invasive species management plan for common reed (*Phragmites australis*), purple loosestrife, and Japanese knotweed as part of the proposed wetland restoration areas. The wetland restoration includes two acres of emergent and scrub shrub wetland, riparian zone plantings, and half acre wet meadow/scrub shrub wetland restoration. Prepared final design plans and technical specifications for restoration implementation. Provided construction oversight for management of invasive species and replanting of wetland restoration areas.
- **Harbor Brook Restoration | Meriden, CT**  
Environmental services for the evaluation of alternative methods of reducing flood damages within the Harbor Brook corridor and developed specific recommendations for river restoration improvements, including bank stabilization, water quality, and fish habitat.

# MEGAN RAYMOND, MS, CFM, PWS, RSS

## Principal Scientist, Wetlands & Waterways Lead



### YEARS OF EXPERIENCE

- 5 With This Firm
- 18 With Other Firms

### EDUCATION

- MS, Physical Science  
College of William & Mary  
Virginia Institute of Marine  
Science
- BS, Geological Sciences &  
Environmental Sciences (Double  
Major) Tufts University

### TECHNICAL REGISTRATIONS

- Professional Wetland Scientist
- Registered Soil Scientist
- Certified Floodplain Manager  
(CFM)

### AFFILIATIONS

- Society of Wetland Scientists
- Society of Soil Scientists of  
Southern New England
- Association of Floodplain  
Managers

Ms. Raymond is a technically proficient recognized expert in inland and tidal wetlands, geomorphology, and watershed science. Her strong academic background and extensive project experience allows for an efficient understanding of the form and function of project areas. Ms. Raymond focuses on landscape position, hydrological support, vegetative extent, and existing and potential stressors to evaluate the capacity for ecosystem recovery and dictate intervention. She is a process-based thinker who commands strong communication skills and appreciates multi-disciplinary design teams in project development and implementation.

### SELECTED PROJECT EXPERIENCE

- **I-84 Highway Corridor Study (CTDOT Project No. 34-349) | Danbury, CT**  
Performed wetland delineation and functional assessment of state and federal wetlands located within the highway right of way. Prepared an inventory and analysis of the NEPA study area identified for the highway improvement project, which encompasses 16.74 square miles in western Connecticut. Assessed existing stormwater infrastructure to evaluate direct and indirect pollutant vectors. Inspected culverts within the highway right-of-way for conveyance potential from both a flood-flow and habitat perspective.
- **West River Tidal Wetland Restoration | Guilford, CT**  
Characterized and inventoried tidal wetlands to develop a permittee responsible mitigation project to compensate for roadway elevation project impacts. The selected site was within the West River estuary, at the start of the New England trail, and the project entails salt marsh restoration and salt marsh creation over a 7-acre area. Interventions include tidal creek restoration, common reed eradication, thin layer deposition (TLD), and excavation to create a tidal inlet. Utilized unmanned aerial system (UAS) to develop LiDAR topography mapping and color infrared spectrometry images for vegetation mapping. The use of infrared images will allow for efficient comparison of pre and post-project vegetation assemblages during the 10-year monitoring program.
- **Guilford Yacht Club | Guilford, CT**  
Working with water resource engineers, developed a detailed model of the West River estuary south of a railroad bridge to determine sedimentation patterns within a man-made dock basin. Deployed dataloggers to measure water surface elevations over a six weeks period. The purpose of the project is to develop potential alternatives to the basin design to minimize the frequency of dredging, which currently measures 10,000 -12,000 CY annually.
- **Savin Rock Beach Nourishment | West Haven, CT**  
Prepared a state and federal permit application to gain authorization for beach nourishment within a portion of Savin Rock beach.

## MEGAN RAYMOND, MS, CFM, PWS, RSS

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- **East Shore Park Living Shoreline | New Haven, CT**

Completed benthic sampling and inventory to assist the City of New Haven in placing proposed rock sills along the 3,000 linear feet of shoreline on New Haven Harbor in conjunction with a living shoreline project. Working with the benthic data and geomorphology of the manipulated coastline, Ms. Raymond instructed rock sill location, composition, and geometry.

- **Sachem's Head | Guilford, CT**

Led a coastal resources assessment for a larger project team comprised of resilience specialists and coastal engineers to develop alternatives to adapt two existing sections of roadway in Sachem's Head for sea-level rise. Located within a mile of each other, the two roads were starkly different in energy regimes, with one located in a rocky headland land contact beach with persistent but variable wave field and the other low energy still water flooding multiple times a month. Deployed data loggers in each area to measure water surface elevations and prepared regression analyses to correct to NOAA tidal monitoring stations.

- **Old Field Creek | West Haven, CT**

Delineated tidal and inland wetlands and prepare permit applications to authorize dredging and channel restoration within Old Field Creek. Prepared an invasive species management plan to address common reed and Japanese knotweed monocultures within the estuary.

- **Cove River Tide Gates and Public Access | West Haven, CT**

Delineated tidal wetlands and evaluated coastal resources in support of a project to replace the existing tide gates on the Cove River and remove and replace an existing pedestrian bridge over the river. Led pre-application meetings with local and state entities to determine the regulatory pathway. Completed state and federal permitting to authorize the project.

- **Fearing Brook Naturalization Project | Amherst, MA**

Ms. Raymond is the Project Manager of the Fearing Brook Naturalization project, a project with the Massachusetts Division of Ecological Restoration, in Amherst, Massachusetts. The goal of the project is to improve water quality within Fearing Brook in order to minimize impacts to a downstream sensitive receptor, the Fort River, which has been identified as providing habitat to the federally endangered dwarf wedge mussel. Ms. Raymond is managing all phases of the project and is directly involved with field work to identify existing geomorphic, ecological, and wetland conditions within the watershed, identifying restoration opportunities as well as implementing the selected restoration project.

- **Groton Consolidated Middle School | Groton, CT**

Delineated wetlands for the new construction of Groton Consolidated Middle School in the Poquonock Bridge section of Groton, CT.

- **Cutler School and Westside School | Groton, CT**

Delineated wetlands for the construction of two new schools on sites with existing schools to be demolished.

- **Long-Range Facilities Plan for Wethersfield Schools | Wethersfield, CT**

Delineated wetlands in support of site tests for the planning for new elementary schools in the Town of Wethersfield.

- **Central Middle School Athletic Fields | Greenwich, CT**

Delineated wetlands for the conversion of the existing natural grass athletic fields into lighted synthetic turf fields at Central Middle School.

- **Greenwich Country Day School Athletic Fields | Greenwich, CT**

Delineated wetlands in support of this project to renovate athletic facilities and development of a new parking lot at the Greenwich Country Day School.

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**SLR** 

## MEGHAN McGAFFIN

### Senior GIS Coordinator



#### YEARS OF EXPERIENCE

- 3 With This Firm
- 14 With Other Firms

#### EDUCATION

- MA, Urban Studies  
Southern Connecticut State  
University
- BS, Geography  
Southern Connecticut State  
University
- Graduate Studies, Environmental  
Studies GIS Courses  
University of New Haven

#### AFFILIATIONS

- Connecticut GIS Users Network
- New England Chapter of the  
Urban & Regional Information  
Systems Association  
(NEURISA) Board of Directors -  
Communications Coordinator  
(2018)

Meghan McGaffin is a Senior GIS Coordinator with over 16 years of experience working in GIS, having spent 11 years as a GIS Analyst for the City of Milford. In that time she served on numerous local, regional, and state GIS committees and organizations intent on fostering the improvement of GIS standards, practices and skills across the state's GIS Community. She was the Communications Coordinator for the former New England Chapter of the Urban & Regional Information Systems Association (NEURISA) and former Steering Committee member of the Connecticut GIS User's Network. She served on the South Central Connecticut Council of Government's Geospatial Committee and Regional Hazard Mitigation Committee. In 2012 she worked closely with the former Connecticut Geospatial Council to draft legislation requiring utility companies to share their pole data with municipalities.

Ms. McGaffin has significant expertise with the ESRI suite of GIS software products for data creation & management, spatial analysis, and map creation. She has extensive experience with ArcGIS, ArcGIS Online, ArcServer, and a wide range of additional software products, including ViewPermit, Vision Appraisal, and Cartegraph. She has also utilized Trimble GIS with ArcPad software to collect field data.

#### SELECTED PROJECT EXPERIENCE

- **Chester Plan of Conservation & Development | Chester, CT**  
Primary GIS Coordinator for the town's 2018 Plan of Conservation and Development. Mapping efforts include, but are not limited to Community Resources, FEMA Flood Zones, Zoning, and Soils.
- **Wilton Plan of Conservation & Development | Wilton, CT**  
Primary GIS Coordinator for the town's 2018 Plan of Conservation and Development. Mapping efforts include, but are not limited to, Bicycle Suitability Map, Community Facilities, Zoning & Land Use Mapping.
- **East Haddam Plan of Conservation & Development | East Haddam, CT**  
Primary GIS Coordinator for the town's 2018 Plan of Conservation and Development. Mapping efforts include, but are not limited to Community Resources, FEMA Flood Zones, Zoning, and Soils.
- **Resilient Connecticut | Connecticut Institute for Resilience & Climate Adaptation (CIRCA) | Fairfield and New Haven Counties, CT**  
Covering over 50 Connecticut towns, this project looks to address climate challenges by analysing dozens of climate, social, and adaptive data sources to develop resiliency strategies for communities at risk due to the effects of climate change.

## MEGHAN MCGAFFIN

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- **Open Space Mapping for FEMA Community Rating Service | Stratford CT**  
Researched and analyzed the extent of protected open space within the Special Flood Hazard Area. The inventory and analysis of these areas enabled the town of Stratford to enter & accrue points for FEMA's Community Rating Service.
- **Holyoke MVP | Holyoke, MA**  
Conducted field and performed GIS analysis tasks for the City of Holyoke's Impervious Surface Mitigation Plan. Worked with the project team to research and develop analytical metrics to study how impervious surfaces affect and are affected by flooding, urban heat, water quality, combined sewer overflows, and air quality. Developed a report, a community survey, as well as interactive StoryMaps to present and share the project with the community.
- **Holyoke, MA Impervious Surface Mitigation Plan | Holyoke, MA**  
GIS Coordinator for development of maps, data, and analysis to study the impact of impervious surfaces and assist with developing mitigation strategies for the community.
- **Zoning Map Update | Woodbridge CT**  
Updated the town's zoning map to align with the town's major zoning regulation revision.
- **Lexington-Richland School District #5, (ongoing) | Lexington and Richland Counties, SC**  
GIS Lead for a school redistricting project in one of the nation's fastest growing areas. Conducting demographic analysis on population, housing, and the area economy.
- **Public School Redistricting (2019) | Shelton, CT**  
As GIS Lead, developed elementary school redistricting scenarios. The scenarios were made available to the community through an interactive web map. Families could quickly and easily see potential redistricting impacts on their children.
- **Public School Redistricting (2018) | East Lyme, CT**  
Led GIS effort to develop redistricting alternatives for elementary schools.
- **Lexington School District #1 (2018) | Lexington, SC**  
Responsible for demographic, housing and economic GIS analyses and mapping, including identifying and projecting housing growth areas and potential future school locations.
- **Public School Redistricting | Hamden, CT**  
Assisting Hamden Public Schools in developing redistricting recommendations to relieve overcrowding and mitigate racial imbalances within its elementary schools. Tasks include the development of district and school level enrollment projections; drafting redistricting scenarios that achieve the goals and objectives set out by the redistricting committee; and production of public workshop materials.

### PREVIOUS EXPERIENCE

- **GIS Analyst 2006-2017 | City of Milford, CT**  
While working with almost every city department, Ms. McGaffin was successful in integrating departmental workflows. She developed data and maps for Inland Wetlands, Planning & Zoning, Engineering, Wastewater, Public Works and more. During her time assisting with grant applications, project planning, presentations, and report writing, she gained an immediate understanding of flooding issues, FEMA floodplain regulations, hazard mitigation planning, and Community Rating System regulations.

# MICHAEL DOHERTY, PLA

## Principal Landscape Architect



### YEARS OF EXPERIENCE

- 15 With This Firm
- 1 With Other Firms

### EDUCATION

- MLA, Landscape Architecture  
State University of New York  
College of Environmental Science  
& Forestry
- BS, Urban Forestry &  
Landscape Horticulture  
University of Vermont

### TECHNICAL REGISTRATIONS

- Landscape Architect - CT, NY

### AFFILIATIONS

- Council of Landscape Architects  
Registration Board (CLARB)
- American Society of Landscape  
Architecture
- Society of Ecological Restoration  
(SER)
- Sigma Lambda Alpha, Nu Chapter  
National Landscape Architecture  
Honor Society

Mr. Doherty serves as a Principal Landscape Architect and Project Manager with over 14 years of experience in the fields of landscape architecture, horticulture, and forestry. Mr. Doherty practices in the development of all aspects of landscape architecture projects including master planning, site layout, grading, planting, and construction detailing. He is particularly interested in ecological restoration and enhancements, low impact design, alternative transportation, and creating outdoor spaces that promote healthy lifestyles. His project experience includes educational and institutional master planning and site development, parks and recreation facilities, bikeways and trails, environmental enhancement projects, streetscape improvements; and residential, commercial, and industrial site development.

### SELECTED PROJECT EXPERIENCE

- **Naugatuck River Greenway Master Plan & Design (CTDOT Project No. 87-143) | Naugatuck, CT**

Project Landscape Architect responsible for identifying potential routes, conceptual trail layout, cost estimates, and public presentation graphics for all future phases of the greenway route. Greenway improvements included upgrades to an existing pedestrian bridge and a new trail connection into Linden Park. Phase I acted as the design standard for features of future phases.

- **Paul Pawlak Sr., Fish Passage - Tingue Dam | Seymour, CT**

Project Landscape Architect responsible for producing a series of wayside signs and information kiosk. The wayside signage highlights the historical importance of the site from multiple perspectives including Native Americans and industrial advances. Signage also highlights the river's fish and their seasonal movements and how the dam removal and fish passage has increased their habitat upstream another 25 miles.

- **Library Park | Waterbury, CT**

Project Manager for the renovation planning and Phase 1 construction drawings of the iconic Library Park in downtown Waterbury, CT. Designed by Calvert Vaux and the Olmstead Brothers, Library Park is a historic park and contributing site to the nationally registered Historic Downtown District of Waterbury. SLR took the previously prepared master plan through schematic design while identifying Phase 1 improvements for detailed design and bid documents in the Spring of 2020. Our team met a very fast paced timeline with quality and creative design solutions that included a new urban plaza, renovated walking paths, fiber reinforced great lawn for expanded event use, support infrastructure upgrades, and robust landscaping. All improvements are focused on highlighting the historic character of the site while inviting more daily users into the park to continue efforts in energizing the downtown of Waterbury.

## AWARDS

- CTASLA 2016 - Landscape Planning & Analysis Merit Award
- CCAPA 2018 - Historic Preservation Award, Uncas Leap Heritage Park

- **Middletown Athletic Fields & Parks Evaluation | Middletown, CT**

Project Manager for the evaluation of 17 athletic field and park sites. The evaluation included quality of the fields, safety, and accessibility. Recommendations for each site were made and incorporated into a capital improvement plan that included proposed graphics to engage the public.

- **Uncas Leap Heritage Park | Norwich, CT**

Lead Landscape Architect for the master planning and in-depth analysis related to the site's historical events and uses, physical attributes, context and connectivity surrounding city attractions, and the experience of the site in particular the views and interaction with the beautiful Yantic water falls. The design process incorporated a series of public design workshops in which SLR aided the project partners and advocates to create a master plan vision and conceptual plans for the site. This project was the recipient of a 2018 CT American Planning Association Historic Preservation Award.

- **Schenck's Island and Merwin Meadows Master Plans | Wilton, CT**

Project Manager for the re-imagining and renovation of two signature Wilton parks. Schenck's Island and Merwin Meadows bookend the Wilton Town Center and as such provide great opportunities for residents and visitors to shop, eat and recreate in these unique spaces. The master plan is currently in process with an in-depth site analysis and public engagement taking place. The master plans, once complete, will provide the vision for the next 20 years of town development, management and integration of the parcels into the culture and community of the town.

- **Wesleyan Hills / Wesleyan University Trail (CTDOT Project No. 82-311) | Middletown, CT**

Lead Landscape Architect responsible for the design of the first phase of the multi-use path proposed to connect Main Street to the Wesleyan Hills neighborhood. The trail will be an off-street multi-use path to accommodate multiple users along a safe route. Design incorporates take a complete streets approach to integrate the trail into the surrounding neighborhoods, parks, Wesleyan University, and city attractions.

- **White Street Streetscape | Danbury, CT**

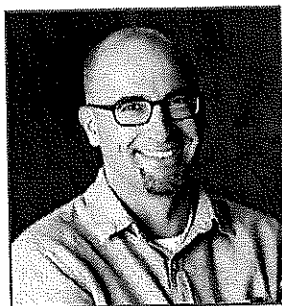
Project Landscape Architect responsible for design of streetscape improvements from conceptual stage through to construction. Site improvements include improved traffic flow through street widening, concrete paver walks, ornamental pedestrian lights, granite curbing, and street tree plantings.

- **West Main Street Streetscape (CT Route 68/70) | Cheshire, CT**

Project Landscape Architect responsible for design of streetscape improvements from conceptual stage through to construction. Improvements have created a village town feel in a thriving commercial center of town with site features including ornamental pedestrian lighting, paver sidewalks, granite curbing, and landscaping. Coordinated all aspects of approval through CTDOT District I office. Administered STEAP grant on behalf of the Town.

## MICHAEL J. JOYCE, PE

Principal Transportation Engineer, Massachusetts Office Manager



### YEARS OF EXPERIENCE

- 25 With This Firm

### EDUCATION

- BS, Civil Engineering
- Villanova University

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

### AFFILIATIONS

- Institute of Transportation Engineers
- American Public Works Association
- American Society of Civil Engineers
- Engineers Without Borders

As Principal Transportation Engineer and Massachusetts Office Manager, Mr. Joyce offers over two decades of design, permitting and project management expertise across a wide spectrum of SLR's practice areas in Connecticut and the regional offices. His approach to satisfying roadway, traffic, drainage, rights-of-way and other requirements related to transportation infrastructure projects is driven by his desire to help clients find solutions while effectively leveraging his municipal engineering and specialized institutional and private site development experience. He is closely involved with all of SLR's roadway, traffic, transit, bikeway and other multi-modal transportation projects which receive state and federal funding including all MAP-21 funding programs.

### SELECTED PROJECT EXPERIENCE

- **Spring Street Pavement Rehabilitation (LOTICIP) | Naugatuck, CT**  
Project Manager responsible for providing design services for the rehabilitation of 4,000 linear feet of pavement along Spring Street, from the limits of previous pavement improvements near Pepper Mill Court north to the Naugatuck/Waterbury municipal boundary. The project is being funded through the Naugatuck Valley Council of Governments (NVCOG) under the Local Transportation Capital Improvement Program (LOTICIP) with an approximate construction cost of \$460,000.
- **Reconstruction of Cross Street (State Project No. 87-145) | Naugatuck, CT**  
Senior Project Manager responsible for managing the survey, design, permitting, and rights of way acquisition efforts associated with the full-depth reconstruction, widening and intersection improvements along Cross Street, which is an approximately 4,000-linear-foot, two-lane collector road near the municipal boundary with Beacon Falls between Route 8 (exit 25) and New Haven Avenue (Route 63). The project is being funded under the STP Urban Program.
- **On-Call City Engineer | Derby, CT**  
As part of an on-call contract with the City, assisted in representing SLR in its capacity as Mayor-appointed City Engineer for the City of Derby. From 1997-2013, Mr. Joyce has been responsible for providing technical support for various agencies within the city, including the Office of the Mayor, Office of Development and Administration, Inland Wetlands and Watercourses Agency, Planning and Zoning Commission, Public Works Department, and the Building Department.
- **South Windsor On-Call | South Windsor, CT**  
As part of an on-call contract with the Town of South Windsor Mr. Joyce was the Senior Project Manager and the main point of contact for on-call projects with the Town.



## MICHAEL J. JOYCE, PE

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- **Enfield On-Call | Enfield, CT**

Mr. Joyce assisted with preparing plans for the reconstruction and drainage improvements to 18 roads under Sections 2 and 10 of townwide roadway improvement project. Responsible for the coordination and preparation of preliminary design plans for the reconstruction of Bright Meadow Boulevard and sidewalk installation for the town.

- **West Main Street (U.S. Route 1) at West Avenue Intersection Improvements (LOTICIP Project No. L135-002) | Stamford, CT**

Project Manager for the design of roadway, traffic signal and pedestrian safety improvements at the intersection of West Main Street (Route 1) and West Avenue. Issues addressed include traffic congestion, substandard roadway geometrics, sightline obstructions and substandard pedestrian facilities. Improvements include upgrade of the existing traffic signal, signal timing revisions, new turn lanes, improved roadway geometry, retaining walls, sidewalks, ADA pedestrian ramps, and crosswalks.

- **White Street at Locust Avenue/Wildman Street Intersection and Corridor Improvements (LOTICIP) | Danbury, CT**

Project Manager responsible for providing design and assistance to the City of Danbury for roadway, traffic signal and streetscape improvements along White Street between Meadow Street and Eighth Avenue and along the intersecting streets, Locust Avenue and Wildman Street. Construction of the project will be funded under the Local Transportation Capital Improvement Program (LOTICIP). The improvements to this congested corridor, which serves the campus of Western Connecticut State University at the western project limit and Danbury Hospital to the north, are intended to improve levels of service and safety for vehicular and pedestrian traffic. A Complete Streets approach to the design is also being pursued, which may include the use of bike lane "sharrows" and raised crosswalks.

- **Intersection Improvements on Route 177 at New Britain Avenue, Mill Street, & CT Route 4 (State Project No. 051-269) | Farmington, CT**

Senior Highway Design Engineer for the \$2.8 million signalization and roadway improvement project on Route 177 in Farmington, CT. The project involves the upgrade of three traffic signals and roadway improvements at the intersections of South Main Street (Route 177) at New Britain Avenue, Mill Street and Route 4, as well as the formalization of a mid-block crossing at the intersection of Route 177 at the Farmington River Trail with the installation of a Rectangular Rapid Flashing Beacon. Others tasks that will be undertaken include the preparation of construction drawings and specifications, bid assistance, and construction administration services. This project involves extensive coordination with the Town and the Connecticut Department of Transportation.

- **Reconstruction of Prospect Hill Road & Intersection of S.R. 75 (State Project No. 164-233) | Windsor, CT**

Project Manager for the reconstruction of approximately 2,500 feet of roadway from West Street to the intersection with Poquonock Avenue (State Route 75) under the STP-Urban program involving complete reconstruction and widening of the existing roadway, horizontal and vertical realignments to correct sight distance deficiencies, retaining walls, storm drainage improvements, new sidewalk, landscaping amenities, and traffic calming measures. The project featured a roundabout at West Street, a positive change to the roadway and neighborhood that was widely accepted by the public. The firm was then engaged to design the next phase of the project.

- **Granby Street Pavement Rehabilitation (LOTICIP) | Bloomfield, CT**

Project Manager responsible for survey, design, permitting and subsurface investigation services for the rehabilitation of approximately 3,800 linear feet of Granby Street which begins at the municipal border with Hartford and continues north to Cottage Grove Road (Route 218). This assignment was part of the Capitol Region Council of Governments (CROG) Local Transportation Capital Improvement Program (LOTICIP) Municipal Engineering On-Call List.

# MICHAEL F. MANSFIELD, LS

## Manager of Land Surveying



### YEARS OF EXPERIENCE

- 28 With This Firm
- 3 With Other Firms

### EDUCATION

- BS, Architectural Engineering  
Wentworth Institute of  
Technology

### TECHNICAL REGISTRATIONS

- Land Surveyor - CT, NY

### AFFILIATIONS

- Connecticut Association of Land  
Surveyors (CALS)
- New York State Association of  
Professional Land Surveyors  
(NYSAPLS)

As Manager of Land Surveying for the firm's Survey Department, Mr. Mansfield has a diverse range of experience in surveying and civil engineering. His responsibilities include supervising and coordinating the work of field crews, boundary computations, land record searches, GPS calibrations, as-built plans, and the preparation of maps with an emphasis on computer applications including uniting CADD systems with field survey operations.

### SELECTED PROJECT EXPERIENCE

- **Naugatuck River Greenway (CTDOT Project No. 36-178) | Derby, CT**  
Provided base mapping and survey services for the development of a bikeway along the Naugatuck and Housatonic Rivers.
- **Anadromous Fish Restoration | Naugatuck & Mad Rivers, CT**  
Conducted survey services to analyze alternatives for anadromous fish passage around seven dams on the Naugatuck and Mad Rivers and to prepare engineering designs for the recommended alternatives.
- **On-Call Surveying Services | Greenwich, CT**  
Currently providing on-call surveying services to the Town of Greenwich. Completed base mapping and an existing conditions survey for the Byram Road sidewalk and curb construction project and property/topographic surveys of Round Hill Road / John Street, Frontage Road / Delavan Avenue, Lake Avenue / Lower Cross Road, Sound Beach Avenue / Lockwood Avenue, Sound Shore Drive, and Strickland Brook.
- **On-Call Surveying Services, University of Connecticut | Storrs, CT**  
Currently providing on-call survey services to the University of Connecticut at its main, regional, and health center campuses.
- **Groton Consolidated Middle School | Groton, CT**  
Provided survey services for the design of a new middle school on a forested parcel located in the Poquonock Bridge section of Groton.
- **New Lebanon School | Greenwich, CT**  
Survey services for a new elementary school in Greenwich to replace an existing school.
- **Streetscape Improvements | Newington, CT**  
Provided surveying services for the improvement of both sides of the sidewalks of Market Square from Main Street to Constance Leigh Drive, a distance of approximately 1,000 linear feet.

## MICHAEL F. MANSFIELD, LS

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- **CT Route 6 Streetscape | Plymouth, CT**  
Survey services for the design of a streetscape enhancement project. The project serves to beautify the heavily traveled Main Street (Route 6) from Benedict Street easterly to Allen Street (approximately 3,100 linear feet).
- **Downtown Torrington Design Improvement | Torrington, CT**  
Provided detailed topographic survey with compiled property lines along Main Street, East Main Street, City Hall Avenue, Water Street, and Franklin Street for development of downtown infrastructure improvements.
- **Prospect Hill Road (CTDOT Project No. 164-233) | Windsor, CT**  
Conducted topographic and streetline survey for preliminary design of roadway reconstruction from West Street to Poquonuck Avenue.
- **Reconstruction & Widening of Chase Avenue (CTDOT Project No. 151-296/297) | Waterbury, CT**  
Survey services for the reconstruction of 5,700 linear feet of Chase Avenue beginning at the intersection of Waterville Street and ending at North Main Street.
- **UHC Expansion Roadway & Signalization Improvements CT Route 4, SR 508 & Local Roadways | Farmington, CT**  
Topographic and right-of-way survey for roadway widening for multiple roads and intersections associated with the health care facility expansion.
- **Willow Brook | East Hartford, CT**  
Cross sections and topography survey for watershed and drainage study.
- **Drainage Improvements | Old Greenwich, CT**  
Preparation of property and topographic base maps and easement mapping for Town of Greenwich drainage improvements.
- **River Road Bridge (LOTIP Project No. L130-0001) | Southbury, CT**  
Survey services for bridge replacement and roadway improvements at Pomperaug River crossing.
- **Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177) | Vernon, CT**  
Survey services for the design of the replacement of the Vernon Avenue Bridge over the Hockanum River.
- **Blacks Road Bridge | Cheshire, CT**  
Survey services for a bridge replacement and roadway improvements at the Blacks Road crossing of Honey Pot Brook.
- **Quinnipiac River Trail, Phase II (CTDOT Project No. 148-198) | Wallingford, CT**  
Provided survey services of Phase II which features a footbridge crossing of the Quinnipiac River and a tunnel under the four-lane Wilbur Cross Parkway (CT Route 15).
- **Farmington Canal Greenway, Phase IIA (CTDOT Project No. 61-131) | Hamden, CT**  
Provided survey services for a 6.6-mile bikeway design that addresses wetland preservation, bridge design, resolution of vehicular/pedestrian conflicts, neighborhood accessibility, and the crossing under the Merritt Parkway.
- **Revitalization of Bristol Parks | Bristol, CT**  
Survey services for the preparation of a master plan for the Roberts Property (50 acres) and The Hoppers/Birge Pond (200 acres), as well as the design of improvements to five additional parks. The design improvements include both active and passive recreation improvements.

## NEIL OLINSKI, MS, PTP

### Senior Transportation Planner



#### YEARS OF EXPERIENCE

- 17 With This Firm
- 2 With Other Firms

#### EDUCATION

- MS, Civil Engineering with Concentration in Transportation & Urban Engineering  
University of Connecticut
- BS, Environmental Design, Urban Studies (Cum Laude)  
University of Massachusetts

#### TECHNICAL REGISTRATIONS

- Professional Transportation Planner (PTP)

#### AFFILIATIONS

- Institute of Transportation Engineers
- New England Parking Council

Mr. Olinski is a Senior Transportation Planner whose primary responsibilities include transportation planning and traffic engineering. His efforts largely involve working towards sustainable multimodal mobility, access, and safety. His experience includes traffic impact studies; parking performance planning and analysis; roadway safety assessments (RSA); complete streets and context-sensitive design; comprehensive downtown and corridor transportation planning; traffic operations engineering; and assistance in traffic signal design.

#### SELECTED PROJECT EXPERIENCE

- **Widening & Signalization of CT Route 4, S.R. 508 & Local Roadways - UConn Health Care Center (UCHC) Expansion | Farmington, CT**  
Assisted with the traffic study for the UConn Health Center project. Work included conducting intersection capacity analyses, as well as making trip generation and trip distribution/routing estimates, to assess traffic impacts of the project. Further teamwork included the collaborative development of potential intersection traffic improvements, both operational and design improvements, that helped form preliminary design modifications to intersections/roadways at and around the UCONN Health Center. This ultimately led to local and CTDOT approvals, and to the physical implementation of the intersection/roadway improvements.
- **Parker Place Expansion | Wallingford, CT**  
Worked on numerous aspects of the Parker Place Apartments expansion project next to Town train station and near downtown. Studied whether or not there would be traffic impacts, analyzed parking aspects, and designed walkability and safe pedestrian infrastructure at/adjacent to the site. Approval was additionally gained from OSTA, and we helped to identify a component of the traffic signal at Parker Street/North Colony Road that needed to be fixed. For this Transit-Oriented-Development (TOD), worked to gain numerous approvals, reviewed street network travel flows, analyzed new development-generated multimodal traffic demands, confirmed transportation-user sight lines, and improved safety along and throughout the site and along the Amtrak/Hartford-Line Right-of-Way.
- **Preliminary Design and Further Study of Road Safety Audit Improvements for CT Route 63 (Main Street) | Watertown, CT**  
Currently undertaking work to develop preliminary design concepts and to further study traffic operations as recommended in the Road Safety Audit (RSA) of Main Street (Route 63) in the downtown. The RSA lists a number of recommendations that require further study and the production of conceptual-level drawings and order-of-magnitude cost opinions, which are well underway. The possible safety improvements for Main Street that are being vetted include the addition of some combination of the following: center medians, curb

extension bump-outs, new sidewalks, striping changes, on-street parking reconfigurations, rectangular-rapid-flashing-beacons, and new crosswalks. Further changes being studied include the possible addition of bicycle lanes, addition of turn lanes, and two-way vs one-way flow of certain downtown side streets.

- **Pedestrian Safety Study of Main Street South | Southbury, CT**

Study and development of concept-level design plans to improve pedestrian safety along the nearly two mile length of Main Street South from Route 67/U.S. Route 6 to Route 172. Initial steps of this project involved performing a walk audit and soliciting public input. Concept designs that are being vetted include the addition of pedestrian refuge islands, mid-block pedestrian crossing beacons, new sidewalks, pedestrian counts, signals, crosswalk improvements, lane striping changes, access management, and an off-road shared use path, as well as other possible aesthetic and walkability enhancements.

- **KING School | Stamford, CT**

Performed traffic and parking analysis studies of enrollment increases for multiple local approvals over past several years. KING School is a private school with grades through high school that primarily serves lower Fairfield County and Westchester County, which most recently gained approvals for an enrollment increase to 750 students. Work has included data collection, analysis of traffic and parking increases, development of recommendations to improve traffic flow, manage transportation demands, and to improve campus circulation.

- **Cheshire Academy | Cheshire, CT**

Assisted in state-level approval from the Office of the State Traffic Administration that is pending for an expansion of this historic private boarding and college preparatory school. Efforts have included analyses of intersection traffic operations and motorist line of sight analysis.

- **Choate Rosemary Hall | Wallingford, CT**

Assisted in gaining state-level approval from the Office of the State Traffic Administration for an expansion of this boarding and college preparatory school that included the addition of on-campus faculty housing. Efforts included assessment of traffic increases and development of composite campus mapping.

- **University Liggett School | Gross Point Woods, MI**

Assisted in analysis of traffic impacts and student drop-off/pick-up operations in connection with an expansion of this private coeducational school outside of Detroit. Improvements were developed to address queuing concerns and improve parking.

- **Annual Point-in-Time Transportation Study | New Haven, CT**

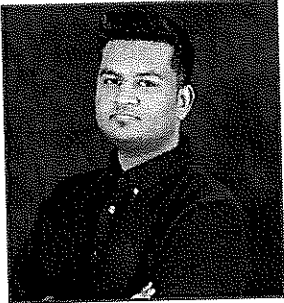
Annual study for the City of New Haven that has collected and reviewed data on parking use and pedestrian and bicyclist activity in central New Haven since 2009. In recent years, over 18,000 parking spaces have been part of the study, and non-motorized traffic has been counted at nearly 30 intersections. Each year the data is compared to that of previous studies to assess demand trends, and anticipated future parking supply and demand projections are made. Recommendations are also developed to help the city become increasingly more sustainable, livable and economically successful. Recent efforts have also modernized this study in its data collection methods and presenting the findings in an on-line platform.

- **Route 806 (Newtown Road) Corridor Study | Danbury, CT**

Study for a major corridor leading from I-84 exit 8 toward downtown Danbury. Performed intersection capacity analyses, data assessment, reports with improvement recommendations, conceptual improvement drawings, and access management recommendations for this corridor study. This study has led to state projects that are in design to improve traffic operations, access management, and safety along Route 806.

# NIRDOSH PATEL

## Project Structural Engineer



### YEARS OF EXPERIENCE

- 7 With This Firm

### EDUCATION

- BS, Civil Engineering  
University of Connecticut

### TECHNICAL REGISTRATIONS

- OSHA-10 Certified

Mr. Patel is a Project Structural Engineer primarily responsible for design and drafting services on a wide variety of structural engineering projects. His fieldwork has included bridge and building inspections as well as survey. He is adept at the use of AutoCad Civil 3D (Daily Basis), Microstation, STAAD Pro.V8i, Revit, and PENNDOT software programs.

## SELECTED PROJECT EXPERIENCE

### FOR EVERSOURCE / UTILITY PROPOSALS

Mr. Patel is a Civil and Structural Engineer responsible for drafting and design services on a wide variety of projects. He generally reports to the project engineer and/or project manager on highway, bridge, utility, and other projects, conducting field and office work in support of design development. Mr. Patel has also participated in construction inspection for various projects. He has been intimately involved with Eversource projects, assisting with Complex Permits in a number of Connecticut municipalities. As part of this effort, Mr. Patel developed and furnished a weekly project status matrix to Eversource in order to convey progress for each individual assignment. He also participated in weekly conference calls to review the status matrix.

- **Replacement of the Lane Street Bridge over Means Brook (CTDOT Project No. 126-171-FLBP) | Shelton, CT**

Project Engineer responsible for all drafting services related to this project. Prepared a public information presentation and will be responsible for compiling a cost estimate and specifications. The road is narrow, making the bridge design challenging. Vehicular and pedestrian traffic for businesses, residential areas, a cemetery, and local trails make building the bridge a challenge as well.

- **River Road Bridge over Pomperaug River (LOTIP Project No. 17-161) | Southbury, CT**

Project Engineer providing drafting services for the superstructure replacement of the River Road Bridge over Pomperaug River. The existing bridge was constructed in 1962 and is a three-span structure (48'-88'-48') with a superstructure that consists of steel beams with a cast-in-place concrete deck. The proposed superstructure consists of a 3-span continuous steel beam and precast concrete decks. Scour mitigation measures were also provided at the South pier.

- **Replacement of North Stonington Road Bridge | Groton, CT**

Project Engineer providing drafting services for this bridge replacement. Responsible for cost estimate and specifications going forward. Replacement of the bridge was challenging due to the large skew angle and the elevations of the surrounding area, which limited the room available for new design.



- **Rehabilitation of Smokey Hollow Road Bridge (CTDOT Project No. 86-90-FLBP) | Morris, CT**  
Project Engineer responsible for providing drafting services for the existing conditions of the bridge for this design of replacement of Bridge No. 05173 which carries Smokey Hollow Road over the Bantam River. The bridge's poor condition required a superstructure replacement.
- **Walk Bridge Project - Vessel Relocations (CTDOT Project No. 301-176) | Norwalk, CT**  
Project Engineer responsible for developing structural plans and details for concrete floating docks and shoreline access. Prepared plans in Microstation in accordance with CTDOT's D.D.E. Developed graphics for stakeholder meetings. Developed 3D model for estimating earthwork and dredging quantities.
- **Engineering Design Services for Stony Brook | Stony Brook, NY**  
Project Engineer responsible for providing all drafting services and cost estimate for this project. This project consists of seven different sites that include stream alignment and two of the sites include the replacement of culverts. Other work includes replacement and installation of new bank stabilization walls.
- **Maple Street Bridge over the Scantic River (CTDOT Project No. 129-113) | Somers, CT**  
Project Engineer responsible for providing drafting services during the preliminary stage. Created the existing conditions plan and drafted the proposed alternates for the rehabilitation of this bridge. The downstream face of the bridge is abutting a dilapidated factory that had burned down. The building falls under historic regulations, which must be considered during design in order to keep impacts to the building at a minimum.
- **McPherson Park Bridge Design | Greenville, SC**  
Project Engineer responsible for drafting services, compiling specifications, and cost estimate for the structural portions of this revitalization of an existing park, which included pedestrian bridges, underpass, rehabilitation of a wall at the baseball field, ramps, fountain, and seatwall. This project involved careful coordination to keep the highway running during construction of the underpass.
- **Cambridge Greenway Bridge Replacement | Jeffersonville, VT**  
Project Engineer responsible for drafting services on this project that involved the replacement of an existing railroad bridge with a pedestrian bridge. Provided the cost estimate and specifications for the project as it progressed. The proposed pedestrian bridge is made up of two components, a rehabilitated truss bridge and a brand new steel girder bridge. The total length of the new bridge will be approximately 200 feet.
- **Hardenburgh Culvert Replacement | Hardenburgh, NY**  
Project Engineer responsible for supplemental drafting and quantity calculations on this project to replace four culverts in the Town of Hardenburgh, New York, as a part of ongoing efforts to improve infrastructure resiliency in the wake of Hurricane Irene. The four new sheet pile and precast concrete beam structures will be funded by HUD.
- **Seymour Greenway Trail & Linear Park (CTDOT Project No. 124-170) | Seymour, CT**  
Project Engineer responsible for responding to comments, reviewing shop drawings, and provided drafting.
- **Parcel Planning Study for Former Schlumberger Property | Ridgefield, CT**  
Project Engineer responsible for providing drafting services for the entire site, including roadways, pedestrian trails, an outdoor amphitheater, and an underground parking garage.

**RYAN J. MCEVOY, PE**  
Principal Civil Engineer



**YEARS OF EXPERIENCE**

- 20 With This Firm
- 1 With Other Firms

**EDUCATION**

- BS, Civil & Environmental Engineering, University of Connecticut

**TECHNICAL REGISTRATIONS**

- Professional Engineer - CT

Mr. McEvoy is a Principal Civil Engineer with over 10 years of experience including the design and inspection of sewers and roadways; stormwater design and remediation; culvert design; and municipal reviews.

**SELECTED PROJECT EXPERIENCE**

- **Inland Wetlands Agency & Planning & Zoning Commission | Derby, CT**  
Assisted in representing SLR in its capacity as Mayor-appointed City Engineer for the City of Derby. Since 2009, Mr. McEvoy has been responsible for providing technical support for various agencies within the city, including the Office of the Mayor, Office of Development and Administration, Inland Wetlands and Watercourses Agency, and the Planning and Zoning Commission. He has reviewed plans, specifications, and reports for the Wetlands Agency and Planning & Zoning Commission. He also provided services with the preparation of construction documents for various projects involving the City of Derby, including drainage improvements on Gilbert and Crescent Streets.
- **South Kent School Center for Innovation | Kent, CT**  
Site planning and engineering services associated with the school's educational needs and to accommodate as many as 300 visitors for various community events. The goal is to establish an environmental campus that is totally heated and powered by the sun, grows enough food – year round and on site – to feed the academic community, and consumes no externally sourced water. The site design included a subsurface sewage disposal system for multiple educational buildings and a residential building and stormwater design to control to retain and store water for irrigation purposes.
- **River Walk | Branford, CT**  
Provided engineering and construction inspection services for a 61-unit active adult development. Design includes site layout, utility design including storm drainage and sewer, along with construction and sediment and erosion control inspection.
- **Running Brook Farm | Norwalk, CT**  
Designed storm and community septic systems for this multiunit affordable housing/age-restricted development located adjacent to a floodplain in an environmentally sensitive area.
- **Settlers Greene | Colchester, CT**  
Provided engineering design services for a mixed-use residential and commercial development project located on CT Route 16. The design included a sewage pump station on-site, a force main along Route 16 and on-site stormwater management.

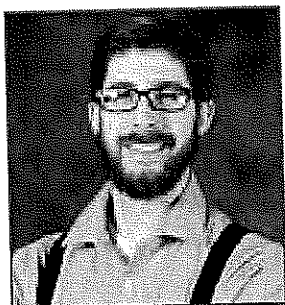
## RYAN J. MCEVOY, PE

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- **Schanz Farm | Northford, CT**  
Provided engineering services for a 30-lot residential subdivision. The project included the design of a 4,200-foot town road and soil testing/design for individual subsurface sewage disposal. Roadway design included preliminary design of a 70-foot-long bridge spanning the floodway of the Farm River, in an environmentally sensitive public water supply district.
- **Hampton Woods | East Hampton, CT**  
Provided engineering design services for a 242-unit affordable housing residential project located on CT Route 66. The design included an on-site sewage pump station and several community drinking water wells in addition to on-site stormwater management designs.
- **Washington Farm | Burlington / Farmington, CT**  
Provided engineering services for a multiphase 34-lot residential subdivision spanning two municipalities. The project included the design of 4,000 feet of town roadways and soil testing/design for individual subsurface sewage disposal. Roadway design included concrete box culvert design and off-site and on-site drainage improvements.
- **Alligerville Fire Station & Emergency Shelter | Rochester, NY**  
Prepared a layout and grading plan for the proposed building, driveway, parking spaces, walkways, well and septic system. Coordinated with the project architects and conducted field inspections of the site before preparing preliminary site layout, grading, drainage and utility connections, driveway access, parking, and site improvement plans.
- **Applebee's | Waterbury, CT**  
Site planning and engineering for the development of Applebee's Restaurant.
- **Everybody's Market | Cheshire, CT**  
Provided engineering design for septic placement, soil testing, earthwork calculations, utility placement, and cost estimates.
- **West Bristol K-8 School | Bristol, CT**  
Site planning services and engineering services associated with the development of a 123,000-square-foot middle school including permitting and construction plans.
- **Greens Farms Academy K-12 Private School | Westport, CT**  
Site engineering and construction services associated with the phased expansion of the private K-12 school. Services included analysis and expansion of the subsurface sewage disposal system, drainage analysis, and construction reviews.
- **Enfield High School | Enfield, CT**  
Site planning services and engineering services associated with the development of a 305,000-square-foot high school consolidation including permitting and construction plans and logistical phasing to support the continued use of the school during construction. The site design included a complete redesign of on-site parking and stormwater management as a result of the 120,000-square-foot addition.
- **Putnam High School | Putnam, CT**  
Site planning services and engineering services associated with the addition to and renovation of an existing high school including permitting and construction plans.

# SCOTT GEHMAN, EIT

## Project Transportation Engineer



### YEARS OF EXPERIENCE

- 5 With This Firm
- 4 With Other Firms

### EDUCATION

- BS, Civil Engineering
- University of Pennsylvania

### TECHNICAL REGISTRATIONS

- Engineer-in-Training
- ACI Concrete Field Testing Technician
- NETTCP - Hot Mix Asphalt Paving Inspector
- APNGA Portable Nuclear Gauge Safety & US DOT HAZMAT Certification Training

Mr. Gehman is experienced in the design of culverts and bridges, drafting plans, tabulating roadway and structure quantities, and assembling project submissions. Mr. Gehman is adept in utilizing Microstation, InRoads, and HEC-RAS, and he has knowledge of design programs including Engineering Assistant, BRADD, and Shoring Suite. He is also an accomplished construction inspector, having provided inspection services on various bridges across the Pennsylvania Central Region including as the lead inspector on the first composite arch bridge system bridge erected in the state.

Mr. Gehman is proficient in the use of Microstation for the generation of plan sets and use of InRoads for survey conversion, surface and alignment generation, and utilization of roadway manager. He has working knowledge of the dimension-driven design process in Microstation and has provided brief training at a previous employer. He is also experienced in the creation of templates for development of cross sections.

### SELECTED PROJECT EXPERIENCE

- **Reconstruction of Route 177 (CTDOT Project No. 051-0269) | Farmington, CT**  
Responsible for creating an environmental impact plan set for this extensive road reconstruction.
- **West Main Street (Route 1) and West Avenue Intersection Improvements (LOTICIP Project No. L135-0002) | Stamford, CT**  
Acting Chief Inspector overseeing construction of cast-in-place concrete retaining walls for this \$1.7M intersection widening project in a heavily urbanized community which included observation of basic work zone safety implementation, structure excavation, reinforcing steel inspections, concrete placement and cold weather protection. Concrete was tested for air content, slump, temperature and cylinders were taken and lab tests coordinated by Mr. Gehman. Project records are maintained to be consistent with CTDOT record keeping processes. This includes administering the project utilizing the CTDOT 4 volume system with testing, estimates and change orders prepared in anticipation of future project auditing after the closeout.
- **Bank Street (Route 67) Spot Improvements (CTDOT Project #124-165) | Seymour, CT**  
Engineer responsible for the preparation of 30% Preliminary Design plans using Microstation and InRoads for this project with the Naugatuck Valley Council of Governments (NVCOG) to conduct analyses and prepare final design plans and specifications for various spot improvements along the Bank Street (Route 67) corridor and along River Street (Route 313) in Seymour. These improvements are intended to enhance safety and traffic operations for vehicles and pedestrians

## SCOTT GEHMAN, EIT

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at multiple locations and include roadway and bridge widening, signal modifications, intersection realignment, sidewalks, landscaping, and illumination.

- **Pavement Rehabilitation, 475 Knotter Drive and Bloomingdale Drive | Cheshire, CT**

Project Engineer during design phase and Chief Inspector providing full-time construction oversight for the Macy's Distribution Center and 1,500-foot access roadway in Cheshire, CT. Prepared a full plan set including survey and base information; grading and drainage; sediment and erosion controls; construction details; and phasing/sequence plan. This \$3M project included full depth pavement replacement involving placement of over 10,000 tons of bituminous concrete for access roadway and parking areas. Ancillary work included drainage installations, replacement of concrete sidewalks and a storm water quality basin for one acre parking lot expansion. The project also included replacement of reinforced concrete pavements with 8-inch reinforced slabs with sleeved and doweled expansion connections. Mr. Gehman coordinated taking of concrete cylinders, storage and transport to laboratory for testing. The work was staged to allow delivery trucks access to loading docks while still providing for employee parking during construction. Mr. Gehman provided coordination with the facility management, staff, and the contractor. Mr. Gehman tracked and logged the contractor's activities preparing daily work reports, computing quantities for payment and reviewing pay requisitions on behalf of the owner. Additionally, he conducted all on-site material testing including density testing of gravel and pavement with a nuclear gauge density gage, all testing of concrete including concrete cylinders, slump and air content.

- **Rehabilitation of Long Mountain Road and Squire Hill Road | New Milford, CT**

Project Engineer during design phase and Construction Inspector assisting with implementing reconstruction of Squire Hill Road and Long Mountain Road, 3 miles of rural roadway providing a commuter connection between New York State and the Town of New Milford. While Mr. Gehman prepared plan and profile drawings during the design phase for this \$2.7M roadway project, upon award of a construction contract he performed paving inspection services during construction. His work included compaction testing of road base and paving layers using Nuclear Density gage, review of design mix submittals, coordinating paving operations around seasonal weather, collecting truck tickets, checking compacted lift thickness, and checking mix temperature prior to placement. Confirmed line and grade off survey stakes prior to paving. Computed unit areas for payment.

- **Walk Bridge Vessel Relocation Study & Design (CTDOT Project No. 301-176) | Norwalk, CT**

Structural Engineer for study and design phases with SLR as a subconsultant to HNTB. In support of Vessel Relocation Study, prepared graphic plans for alternatives developed in order to address impacts to commercial vessels during construction. Prepared 60% and 90% design plans in MicroStation format and generated plan subset for inclusion into larger overall submissions to CTDOT. Design plans prepared included marine structure layout, sections and details; dredging plan and cross sections; and utility plans indicating temporary and permanent routing and attachments for water and electric services to boat docks.

- **Reconstruction of Route 177 (CTDOT Project No. 051-0269) | Farmington, CT**

Responsible for creating an environmental impact plan set for this extensive road reconstruction.

- **Long Ridge Road (CTDOT Project No. 116-125) | Redding, CT**

Responsible for assisting in assessment of project and plan status from the semi-final design stage as well as updating plans and estimate for current conditions.

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SLR

# SHELLEY PLUDE, MS, PE

## Senior Structural Engineer



### YEARS OF EXPERIENCE

- 10 With This Firm

### EDUCATION

- MS, Structural Engineering  
University of Connecticut
- BS, Civil Engineering  
University of Connecticut

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT, ME, NH

As a Senior Structural Engineer, Ms. Plude is responsible for structural calculations and analysis, preparation of construction documents, existing conditions inspections/reports, structural type studies, and day-to-day project management on a variety of bridge projects including municipal, state, and federally funded rehabilitation, superstructure, and full bridge replacements. Other projects include retaining walls and bulkheads, pedestrian facilities, and dams and fishways. While completing her master's at the University of Connecticut, she served as a graduate research assistant responsible for conducting research in the field of damage detection as a part of the bridge health monitoring program.

### SELECTED PROJECT EXPERIENCE

- **Preservation of Bridges (CTDOT Project No. 168-161) | Woodbury, CT**  
Provided project management and structural engineering for the preservation of four bridges for the Town of Woodbury. Tasks included inspection of the four bridges to document existing structural deficiencies as well as preparation of construction documents to perform repairs and extend the service life of each bridge.
- **Replacement of Marion Avenue Bridge over Humiston Brook (LOTICIP Project No. L131-0003) | Southington, CT**  
Provided project management and structural design services for the replacement of the Marion Avenue Bridge over Humiston Brook. Funded by LOTICIP, the existing steel girder superstructure and stone abutments will be replaced with a 16-foot precast concrete box culvert and precast wingwalls utilizing accelerated bridge construction for a two week road closure.
- **Replacement of Nonnewaug Road Bridge (State Project No. 10-88) | Bethlehem, CT**  
Served as the Project Manager and structural design engineer for the replacement of the Nonnewaug Road bridge. The existing bridge will be replaced on a new roadway alignment allowing the new bridge to be built off-line while maintaining the existing roadway throughout the majority of construction. Tasks include inspection of the existing structure, structural design, development of plans, specifications, and cost estimate, and shop drawing review.
- **Rehabilitation of Wood Creek & Magnolia Hill Road (State Project No. 10-89) | Bethlehem, CT**  
Served as the Project Manager and structural design engineer for the preservation of two bridges. Both bridges were thoroughly inspected to document existing deficiencies. Plans were then developed to detail structural repairs and roadway

and drainage improvements to extend the service life of both bridges. Tasks included inspection, structural load rating, development of plans, specifications, and cost estimate, and shop drawing review.

- **West Johnson Avenue Bridge over Ten Mile River (State Project No. 9025-5495) | Cheshire, CT**  
Performed a hands-on inspection of the existing bridge after the DOT placed the structure under a load restriction. Prepared a memorandum documenting the deficiencies and recommended repairs. Also prepared and submitted the funding application for the State Local Bridge program to replace the superstructure. Provided structural design and load rating services for the proposed prestressed concrete box beam superstructure.
- **Lane Street Bridge over Means Brook (CTDOT Project No. 126-171) | Shelton, CT**  
Provided structural engineering design for the superstructure components and performed a detailed bridge load rating using AASHTOWare Bridge Rating Software. Other tasks included the development of structural plans and details for this project under the CTDOT Federal Local Bridge Program.
- **Meriden Green Pedestrian Bridges, Drainage Improvements & Site Remediation | Meriden, CT**  
Provided engineering services for a 300-foot, multi-span pedestrian bridge, eight retaining walls up to 200-feet long including a utility room for park facilities, two pedestrian footbridges, and culvert headwalls for the redevelopment of a 14-acre site in downtown Meriden as a part of the Harbor Brook Flood Control Project. The extensive retaining walls were needed to provide pedestrian access and connectivity between surrounding businesses and the neighboring Amtrak train station across the new Harbor Brook channel and flood storage area. Other tasks included inspection of the existing Harbor Brook culvert, the preparation of structural plans and design calculations, and cost estimating. Construction phase services included construction administration and shop drawing review as well as part-time construction inspection services.
- **Farmington Canal Greenway – West Main Street to Jarvis Street (CTDOT Project No. 25-135) | Cheshire, CT**  
Performed various tasks including preparation of plans, cost estimates, and assisting with the project management for a roughly 2-mile segment of the Farmington Canal Greenway through Cheshire, Connecticut. The project was designed alongside two CTDOT designed trail sections and involved coordination between SLR and DOT to ensure the three projects tied into each other. To accelerate the project schedule, SLR participated in an on-board review with DOT staff to review the project and discuss revisions.
- **Naugatuck River Greenway – Phase III | Derby, CT**  
Provided engineering services from permit preparation through the bid phase and construction. Tasks included the preparation of permit drawings and construction plans for a pedestrian bridge, bid tabulation, and analysis of contractor bids, shop drawing review, construction administration, and inspection.
- **Route 67 (Bank Street) Spot Improvements (CTDOT Project No. 124-165) | Seymour, CT**  
Structural Engineer responsible for the alternatives analyses and design of the widening of Bridge 05185 River Street (Route 313) over the Little River as part of the spots improvements and roadway widening along Bank Street (Route 67) and River Street (Route 313) in Seymour, CT for the Naugatuck Valley Council of Governments. Also, analyzed and provided recommendations for the replacement and aesthetic improvement of the existing bridge railing systems at two additional bridges over the Little River along Route 67 within the project limits.

## STEPHEN R. DIETZKO, PE

Engineering Operations Manager - US



### YEARS OF EXPERIENCE

- 34 With This Firm
- 4 With Other Firms

### EDUCATION

- BS, Civil Engineering  
University of New Hampshire

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT, ME,  
NY, SC, NC, FL, VA, GA, IA

### AFFILIATIONS

- American Society of Civil Engineers
- Association of State Floodplain Managers
- Water Environment Federation

Mr. Dietzko is the US Engineering Operations Manager for SLR in the United States. In this role, he oversees the operations of a large and diverse team of engineers practicing civil, structural, transportation, water resource, water, wastewater, construction, geotechnical, and mine waste engineering, and land surveying. Steve's experience includes water supply, wastewater, and related infrastructure design projects for municipal, utility, and private clients. He also manages large scale and institutional site development projects and possesses a broad range of expertise that includes civil engineering design, construction, and regulatory permitting of flood control, water resource, recreation, and urban development projects.

## SELECTED PROJECT EXPERIENCE

### SANITARY SEWERS & PUMP STATIONS

- **Pump Station Rehabilitation | Middlebury, CT**  
Principal-in-Charge overseeing the design of upgrades to six municipal wastewater pump stations. The upgrades include new pumps and motors, normal and emergency power supply, new instrumentation and control system, and code update / compliance modifications. While each station contained two jockey and two duty pumps, revisions to pump layout and size were also evaluated. All new pumps are controlled by 18-pulse variable frequency drives to replace the existing Flowmatcher systems.
- **Storrs Road Pump Station Area Sewer Replacement | Storrs, CT**  
Principal-in-Charge overseeing the study of dry and wet weather flows to two pump stations on the UConn campus. Responsible for the design of upgrades to renovate the Gurleyville Road and Horsebarn Hill pump stations, as well as force main and gravity line work.
- **Hamden Townwide Sewer Facility Plan | Hamden, CT**  
Performed a townwide analysis of all sewer and unsewered areas of the 33-square-mile municipality. The study encompassed capacity analysis of all existing interceptors, system expansion feasibility, and identification of infiltration and inflow.
- **Norwich Public Utilities Wastewater Master Facilities Plan Update | Norwich, CT**  
Principal-in-Charge responsible for overseeing the review of wastewater facilities plan and for providing recommendations for reprioritizing future upgrades to wastewater infrastructure with regard to revised socioeconomic forecasts.

## STEPHEN R. DIETZKO, PE

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- **On-Call Engineering Services - Greater New Haven Water Pollution Control Authority | New Haven, CT**  
Project Manager responsible for providing on-call engineering services for the Authority's wastewater collection systems.
- **Bozzuto's Inc. Sanitary Sewage Pump Station | Cheshire, CT**  
Designed a pump station to serve a 480,000-square-foot wholesale grocery distribution warehouse. The pump station, with a design flow of 24,000 gallons per day, has an associated 3,400-foot-long force main and a static lift of 71 feet.
- **North Cheshire Pump Station | Cheshire, CT**  
Principal-in-Charge for the design of a municipal sanitary sewer collection system to serve The Outlets at Cheshire development and the Town of Cheshire north of Interstate 691. The project included 6,250 linear feet of gravity sewer collection system, a duplex submersible sewer pump station, 3,400 linear feet of sewer force main, two bridge crossings, and permitting with CTDOT and the Town of Cheshire.
- **Sutton Towers Sewer | Hamden, CT**  
Oversaw the investigation, TV-inspection, survey, wetlands delineation, coordination with utility companies, and design for repairs necessary to upgrade under capacity sewers downstream of the Sutton Towers Project to the Connolly Parkway siphon in Hamden. This work was required by the Town of Hamden prior to issuing certificates for occupancy of the Sutton Towers Project.
- **North Ridge Low Pressure Sewer | Cheshire, CT**  
Design services for the installation of a low-pressure sewer system near a subdivision that is served by municipal sanitary sewers. The system incorporates grinder pumps at each house discharging through a small diameter service line to a common force main in the roadway. The 2½ inch diameter common force main is placed just below the frost line.
- **Founder's Village | Branford, CT**  
Provided design engineering services for wastewater pumping station to serve proposed 120-unit, age-restricted apartment community located in Branford, Connecticut. The project included conducting a sanitary sewer flow monitoring study to determine flow conditions within the sewershed in order to gain approval to provide sewer service to the proposed residential development.
- **Pistol Creek | Berlin, CT**  
Project Manager for the design of a water main extension to serve proposed 25-lot residential development. Analysis included modeling of water supply system using EPANET to verify adequate fire flows available following water main extension.
- **Consent Order Assistance | Naugatuck, CT**  
Principal-in-Charge of an investigation of sanitary sewer system and potential stormwater system cross connections pursuant to a Connecticut Department of Energy & Environmental Protection (CTDEEP) Consent Order. Work involved negotiation of scope and schedule with CTDEEP, outfall investigation, dry weather sampling, collection system mapping, and further investigatory work.
- **The Views Subsurface Sewage Disposal System | Woodbury, CT**  
Design services for a subsurface sewage disposal system for a 37-acre site with 21 single-family homes. The work consisted of soil testing, installation of monitoring wells, and groundwater monitoring during the spring's seasonal high groundwater period.

## SUZANNE R. SCHORE, PLA

Associate Landscape Architect



### YEARS OF EXPERIENCE

- 7 With This Firm
- 10 With Other Firms

### EDUCATION

- BS, Urban Landscape Architecture  
City College of New York
- BA, Cultural Anthropology  
New York University

### TECHNICAL REGISTRATIONS

- Landscape Architect - CT

### AWARDS

- 2019 Honor Award from CTASLA  
for a Slate School Campus in  
North Haven
- 2017 Merit Award from CTASLA  
for the ESPN Headquarters  
Campus Green

Ms. Schore is a Landscape Architect responsible for preparation of conceptual site plans for developing projects, public outreach and community engagement workshops, execution of construction drawings and construction administration. She has in-depth experience in the design, development, and construction of urban parks and playgrounds through her work in conjunction with the Trust for Public Land and the New York City Department of Parks and Recreation and is passionate about creating spaces that engage and enhance community connections and experiences. Additional experience includes urban residential amenity spaces, campus planning, recreational trails, and streetscape design, with services ranging from design development, construction documents, cost estimates, specifications, construction services, and quality assurance.

### SELECTED PROJECT EXPERIENCE

#### URBAN LANDSCAPE ARCHITECTURE

##### • **Library Park Reconstruction | Waterbury, CT**

Project Landscape Architect responsible for design development, cost estimating and execution of construction drawings for the historic Library Park in downtown Waterbury CT. The previously prepared master plan was modified and expanded upon in coordination with City staff and other project stakeholders to identify Phase 1 improvements for detailed design and bid documents in the Spring of 2020. Closely coordinated with City staff, subconsultants and product vendors under a highly compressed deadline to execute Phase 1 construction drawings, and provided quality and creative design solutions that include a new urban plaza with sculptural furnishings, renovated walking paths, fiber reinforced great lawn for expanded event use, infrastructure upgrades, and robust landscaping. All improvements are focused on highlighting the historic character of the site while inviting more daily users into the park to continue efforts in energizing the downtown of Waterbury.

##### • **The Meriden Green Expansion | Meriden, CT**

Project Landscape Architect, working on a team with water resource engineers, executed conceptual planning through design development for a 4 acre parcel which will expand on the existing Harbor Brook Flood Control Improvement site ("The Hub") in the City of Meriden. The project goals include daylighting an additional 500 linear feet of Harbor Brook and providing a universally accessible recreational and rich ecological space in the heart of the Downtown area. The design uniquely features an array of amenities intended to fully engage and be sensitive to the needs of visitors on the Autism spectrum though a focus on diverse and varied sensory experiences.

## SUZANNE R. SCHORE, PLA

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- **Schenck's Island and Merwin Meadows Master Plans | Wilton, CT**  
Project Landscape Architect assisting to provide a fresh vision and renovation models for two signature Wilton parks which bookend the town's commercial center. Through a series of in-person workshops and online surveys, while working closely with Town officials and staff, the completed master plans provide the vision for the next 20 years of town development, management and integration of the parcels into the culture and community of the town.
- **Girl Scouts of Connecticut Statewide Master Plans | Statewide, CT**  
Landscape Architect as part of a project team to complete statewide master planning efforts for the Girl Scouts of Connecticut Camp Facilities. This project is an outgrowth of a GSOFCT Long Range Planning task force that determined a coordinated master planning effort is critical to ensure the best use of GSOFCT properties and to guide Outdoor Center improvements and programming. The firm has prepared master plans for five Outdoor Centers, including Camp An-Se-Ox, Camp Candlewood, Camp Laurel, Camp Pattagansett, and Camp Yankee Trails. The Master Plan is designed to support a \$6,000,000 capital improvement program and was completed in October 2016. The 18-month study included a review and integration of 12 additional camp properties across the state that complement the five major Outdoor Center Sites.
- **Schlumberger Research Center Public Planning Process | Ridgefield, CT**  
Assisted with the preparation of concept plans illustrating alternate site development scenarios for the Town. Assisted with public presentation at a planning workshop for the community. Led the public outreach efforts to explain the details of the concept and record feedback in order to make the best recommendation regarding the development of the site.
- **West Avenue Improvements | Norwalk, CT**  
Amended existing construction drawings to comply with revised scope of work including planting plans, construction details, and specifications.
- **Greenwich Avenue Streetscape Improvements | Greenwich, CT**  
Prepared street analysis and graphic plans for planned streetscape improvements in downtown Greenwich.
- **Downtown Green Infrastructure | Fairfield, CT**  
Developed graphic mapping for recommended green infrastructure implementation in downtown Fairfield.
- **Seymour Greenway Trail | Seymour, CT**  
Assisted with the preparation of CAD graphic renderings for a conceptual master plan for a new recreational trail as part of this urban revitalization effort.
- **Track & Tennis Improvements | Thomaston, CT**  
Assisted with compiling details, specifications, and bid book preparation for this proposed recreational facility.
- **Slate School | North Haven, CT**  
Landscape Architect on multiple Award-winning project...Cdocs through Construction Admin/closeout. Add'l services for entry gate design
- **ESPN Campus Headquarters | Bristol, CT**  
DD through Construction
- **Ethel Walker Centennial Center | Simsbury, CT**  
Prepared construction-level site plans for work associated with a new athletic building expansion.

# THOMAS P. BALSUS, PE

## US Manager of Construction Engineering



### YEARS OF EXPERIENCE

- 22 With This Firm
- 4 With Other Firms

### EDUCATION

- BS, Civil Engineering  
Central Connecticut State  
University
- BSCCE courses  
Includes all core classes  
for Construction Project  
Management Degree

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- ACI - Concrete Field Testing Level I
- NETTCP - Concrete Inspector, Hot  
Mix Asphalt Paving Inspector,  
Soils & Aggregate Inspector
- American Traffic Safety Services  
Association (ATSSA)

### HEALTH & SAFETY

- RSO Training Officer
- AHA Heartsaver First Aid Program
- 40-Hour HAZWOPER Training

Mr. Balskus offers a broad range of experience in the areas of civil and construction engineering. Project experience includes design of stormwater management, highway design, sanitary sewer, and dam/spillway design. Construction experience includes inspection and administration, feasibility, and project coordination on state and federally funded transportation and other infrastructure projects.

### SELECTED PROJECT EXPERIENCE

- **Naugatuck River Greenway (CTDOT Project No. 36-178) | Derby, CT**  
Assisted with the preliminary design of 3 miles of trail along the Housatonic River and the development of plans and specifications for final design. The proposed trail intersects and parallels several railroads and has pedestrian bridges. Coordinated with several railroads and utilities, as well as town and state government agencies.
- **Rehabilitation of Bridge No. 00609, U.S. Route 8 over Naugatuck River (CTDOT Project No. 73-164) | Litchfield & Harwinton, CT**  
Construction Manager overseeing the construction administration and inspection services for bridge rehabilitation. The existing seven-span bridge consists of simple span rolled beams on the short spans and continuous plate girder and floor beam system was used on the longer spans with composite concrete deck. Work included replacement of the existing girder splices, miscellaneous steel repairs, and a full deck replacement. The project also included roadway widening, utility relocation, and paving.
- **Freshwater Boulevard Pavement Rehabilitation (LOTICIP No. L048-0001 | Enfield, CT**  
Construction Manager and Resident Engineer responsible for overseeing construction inspection services for this pavement rehabilitation project on a high volume section of Freshwater Boulevard. The project involved milling the pavement, partial and full depth repair work, adjustment and replacement of drainage structures, sidewalk ramp replacement, loop detectors, curb and pavement markings. Record keeping, material testing, documentation and nuclear density testing of the full depth repairs were consistent with DOT standard practices.
- **Enfield Road 2010 Program - Construction Inspection Services for Roadway Reconstruction for D1 & D2 Projects | Enfield, CT**  
Served as the Project Manager overseeing construction inspection services for approximately 1.8 miles of roadway (D-1, Hartford Avenue, Alden Avenue, and Lafayette Street) and approximately 1.05 miles of roadway (D-2, Windsor Street, Church Street, Russell Street, White Street, Bigelow Street, Union Street, Union Street Extension, Jim Street, and Burgess Street) in Enfield. The project consisted of roadway reconstruction, sidewalks, curbing, and drainage improvements.

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## THOMAS P. BALSUS, PE

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- **Buckland Road Pavement Rehabilitation (CTDOT Project No. 132-128) | South Windsor, CT**  
Construction Manager responsible for oversight of construction administration and inspection services for milling and overlay of approximately 4,400 feet of four-lane roadway with improvements to drainage structures, pavement markings, and concrete sidewalks.
- **Thames Street Retaining Walls (CTDOT Project No. 58-322) | Groton, CT**  
Oversaw construction inspection services for the design of repairs to a failed retaining wall and separate earthen embankment, both supporting Thames Street. The project included the construction of a 75-foot-long, 9-foot-high concrete retaining wall with architectural treatments in one location, and a 200-foot-long, 6-foot-high concrete retaining wall at the other location.
- **Whitney Avenue and Derby Avenue Pavement Rehabilitation (CTDOT Project No. 92-588) | New Haven, CT**  
Construction Inspector for 2 miles of milling and paving, adjustments to structures, replacement of loop detectors, and pavement markings for the City of New Haven.
- **Structure Replacement, River Road Bridge Over Pomperaug River (LOTIP Project No. L130-001) | Southbury, CT**  
Construction Manager overseeing the construction engineering and inspection services for bridge replacement. The existing three-span bridge deck and steel supports were replaced with new steel girders, bearings and prefabricated concrete deck panels. Existing piers were protected from scour utilizing permanent sheet piling. The project included temporary support of existing utilities, staged construction, grading, drainage, guiderail installation, curbing and pavement.
- **Replacement of the Vineyard Road Bridge (CTDOT Project No. 20-106) | Burlington, CT**  
Construction Manager overseeing the construction engineering and inspection services for the Vineyard Road Bridge Replacement in Burlington, CT. The existing reinforced concrete single-span bridge and abutments were completely removed and replaced using prefabricated box beams and reinforced concrete abutments. The project included working within DEEP and local permit constraints for in-water activities.
- **Replacement of the Phoenix Street Bridge (CTDOT Project No. 146-181 / Federal Aid Project No. 6146(016) | Vernon, CT**  
Resident Engineer for Replacement of the Phoenix Street Bridge over the Tankerhoosen River. The existing reinforced concrete single-span bridge was replaced with a single-span precast concrete arch bridge. The project included working within DEEP and local permit constraints for in-water activities.
- **White Street Streetscape | Danbury, CT**  
Oversaw construction inspection activities for approximately 2,700 feet of streetscape improvements which included repair or replacement of sidewalks and curbs including ADA compliant ramps at intersections, installation of pavers at selected locations, roadway widening, decorative lighting, street trees, and landscaping. The inspection team was instrumental in delivering a high quality product built in accordance with the project plans and that was completed on time, with a 20% increase in project length during the construction phase.
- **Farmington Canal Heritage Trail (CTDOT Project No. 25-135) | Cheshire, CT**  
Provided construction management oversight of construction engineering and inspection services for 1.9 miles of 12' wide multi-use trail which included a prefabricated steel pedestrian bridge, micro-piles, multiple culverts, viewing platform, pedestrian signalized intersection, drainage, temporary access roads, new parking lot and extensive landscaping.

# THOMAS A. KNOWLTON, PE

## Principal Water & Wastewater Engineer



### YEARS OF EXPERIENCE

- 8 With This Firm
- 14 With Other Firms

### EDUCATION

- BS, Civil Engineering
- University of New Mexico

### TECHNICAL REGISTRATIONS

- Professional Engineer - CT, NM
- OSHA 10-Hour Training
- Certification of Training in Asset Management from Buried Asset Management Institute - International and IUPUI Purdue School of Engineering and Technology
- PSMJ's Project Management Boot Camp
- Confined Space Training and Certification - National Utility Contractor's Association
- Water Distribution Design and Modeling Master Training
- Nuclear Testing Equipment Certification

Thomas Knowlton brings over 20 years of field and office experience in the project management, planning, design, and construction administration for water and wastewater projects. He has experience in design-bid-build projects of all sizes and has an in-depth understanding of water and wastewater pump stations, rehabilitation of pipelines for both water and sewer systems, and water storage tanks. He has experience in private, municipal, and federal projects including multiple military installations that required background checks and security clearance.

### SELECTED PROJECT EXPERIENCE

- **Country Squire Drive Pump Station | Cromwell, CT**  
Designer of a municipal potable water pump station with 460 gpm capacity to serve a new 160-unit residential development. Design included pumps with variable frequency drives, piping, control valves, PLC, water meter, telemetered alarms, and a building with security cameras. Project included permitting with Cromwell Fire District and CT DPH.
- **University of Connecticut Storrs Road Pump Station | Storrs, CT**  
Conducted a sewer system condition assessment and provided the design of upgrades including rehabilitation of lift stations, force mains, and gravity sewer lines. A combination of pipeline rehabilitation techniques were utilized including CIPP, pipe bursting, and dig and replace.
- **Bartholomew Road Water Booster Pump Station | Middletown, CT**  
Project Manager that assisted the City of Middletown in preparing a funding application to the Drinking Water State Revolving Fund (DWSRF), which was approved in June 2012 in the amount of \$650,000. The project consists of a new booster pump station, emergency generator, and new water lines to connect to the existing distribution system.
- **Dwy Pump Station, Chatfield Farms | Beacon Falls, CT**  
Project Manager for a pump station that is designed to boost the municipal water supply to serve 110 single-family homes in a residential subdivision. Particular attention was paid to aesthetics and sound attenuation due to the residential location.
- **North Cheshire Pump Station | Cheshire, CT**  
Designer of a municipal sanitary sewer collection system to serve The Outlets at Cheshire development and the Town of Cheshire north of Interstate 691. The project included 6,250 linear feet of gravity sewer collection system, a duplex submersible sewer pump station, 3,400 linear feet of sewer force main, two bridge crossings, and permitting with CTDOT and the Town of Cheshire.

# THOMAS A. KNOWLTON, PE

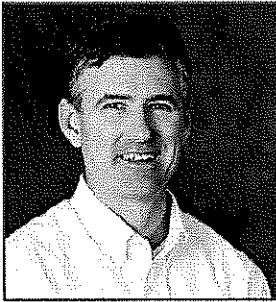
## AFFILIATIONS

National Society of Professional Engineers  
North American Society for Trenchless Technology  
Buried Asset Management Institute - International  
American Water Works Association  
FEMA - National Flood Insurance Program

- **Belimo Manufacturing Facility | Danbury, CT**  
Conducted a water system analysis and design to supply domestic and fire flows to a large new commercial building.
- **The Ethel Walker School | Simsbury, CT**  
Project Manager involved in performing a water system analysis and upgrades to the school's water system in preparation for the construction of two new buildings on campus. Hydraulic analysis of the existing water system found deficiencies in flow and pressure in parts of the campus. Therefore, a 1,200 gpm pump station was designed to facilitate expansion of the school, fireflow improvements, and increase water pressure at the upper floors of the dormitories. Firm staff worked closely with the water system operators and school staff to identify deficiencies in the existing water system and implement improvements such as the addition of building isolation valves, fire hydrant upgrades, SCADA system, chemical spill containment, security improvements, and health and safety items to protect the water system operators.
- **1B Interdistrict Magnet School | Stamford, CT**  
Design of new water services for domestic and fire protection in accordance with the City of Stamford and Aquarion Water Company requirements. Designed fire hydrant and valve layout for fire protection around the school.
- **New Lebanon Elementary School | Greenwich, CT**  
Design of new water services for domestic and fire protection in accordance with the Connecticut Water Company requirements. Design new 1,000 gallon buried grease interceptor for new kitchen facilities and connection to existing town sewer.
- **Walk Bridge Vessel Relocation Study & Design (State Project No. 301-176) | Norwalk, CT**  
As a sub to HNTB, Project Engineer for design of potable water and electric connections/services to temporary and permanent vessel docks within Norwalk River. Work involved coordination with utility companies and consideration of customer utility needs for utilities located in a coastal environment.
- **Sacred Heart University | Fairfield, CT**  
Performed sewer flow estimate for WPCA approval of new development.
- **The Outlets at Cheshire | Cheshire, CT**  
Designed water and sewer for commercial development. Obtained WPCA capacity approval.

## THOMAS J. DALY, PE

### US Manager of Civil & Structural Engineering



#### YEARS OF EXPERIENCE

- 27 With This Firm
- 4 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
Villanova University

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT

#### AFFILIATIONS

- Villanova Engineering Alumni Association
- Connecticut Developers Council
- MDC Citizens Advisory Committee for the Clean Water Project (2009-2013)

Mr. Daly is the US Manager of Civil & Structural Engineering and specializes in working with project architects on the planning, design, and construction of projects including educational and private clients. His project experience also involves the development of LEED certified buildings and green design approaches to site development. In addition, he assists architects and developers in guiding projects through the local and state land use approval process.

#### SELECTED PROJECT EXPERIENCE

- **On-Call Civil Engineering Services, The University of Connecticut | Storrs, CT**  
Project Manager for an on-call contract to provide civil engineering services for the University and its regional campuses.
- **University of Connecticut Health Center Ambulatory Care Center | Farmington, CT**  
Project Manager responsible for providing site design engineering services for a new Ambulatory Care Center located on the UConn Health Center Campus. The Ambulatory Care Center is approximately 250,000 square feet and includes a parking structure for approximately 1,250 cars. The project includes new landscaped boulevards, drives, roadways, curbing, sidewalks, pavers and plazas, site utilities, stormwater management, and coordination/management of all permits associated with the entire campus.
- **Hamden Business Park | Hamden, CT**  
Provided engineering services for the design of a nearly 1,000-foot roadway extension from the existing Hamden Park Drive to Putnam Avenue. The design resulted in four new lots which are zoned for commercial construction use. Also assisted with the design of the roadway, stormwater management system, and sewer and water conveyance systems.
- **Downtown Bristol Revitalization | Bristol, CT**  
Project Manager for the development of improvements to the former Bristol Centre Mall site. The goal of the project is to determine development methods for the Centre Square site and identify options that improves the city's ability to facilitate such a development. The project is currently in the implementation phase, which includes the design of a new city road with streetscape improvements and public amenities.
- **Pinnacle Business Park | New Britain, CT**  
Project Manager responsible for the design and traffic engineering for this large redevelopment project in New Britain. Approval was secured for this development, which consists of more than 684,000 square feet of

business/industrial space and is located between I-84 and Slater Road in the northwest area of New Britain. Redesign and improvements to the intersection and traffic control signal at Slater Road, Osgood Avenue, and the business park's driveway were a major component of the project.

- **Cutler School & West Side School | Groton, CT**

Project Manager responsible for civil engineering/site design services to upgrade and convert the existing Cutler and West Side Middle Schools for elementary school use.

- **Center of Healthcare Education at Sacred Heart University | Fairfield, CT**

Project Manager responsible for civil engineering/site design for new construction of a \$45M, 117,000-square-foot health professions building located on the main campus. The new facility will offer state-of-the-art simulation labs and educational spaces as well as a new 300-car parking garage.

- **1B Interdistrict Magnet School | Stamford, CT**

Project Manager responsible for providing engineering services for the New Interdistrict Elementary Magnet School Extension to Rogers 18 Program, located at 200 Strawberry Hill Avenue in Stamford, CT.

- **Southern Connecticut State University Academic Lab Building | New Haven, CT**

Project Manager responsible for civil engineering/site design and permitting for construction of a new 98,330-square-foot Academic Lab Building located on the Southern CT State University campus.

- **Site Plan Reviews | Southbury, CT**

Reviewed site plans for projects ranging from small residential subdivisions to large commercial buildings. Primarily reviewed stormwater management, erosion controls, roadway designs, and general site development practices.

- **Campus at Greenhill | Wallingford, CT**

Project Manager providing site engineering design services for a 300,000-square-foot commercial office building in Wallingford. Specific project tasks included the design of an extensive stormwater management system that involved low impact development design principles. Responsible for the layout, grading, utilities and landscaping design of all the site work, including the parking lots, patios, and gathering areas. The design team guided the project through the local approval process and worked to finalize the State of Connecticut's traffic permit. Assisted in the preparation of the documentation required for the project to receive LEED certification from the U.S. Green Building Council. Responding to the contractors request for information.

- **State Police Facility | East Haddam, CT**

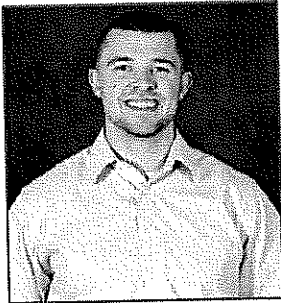
Project Manager providing site engineering design services for the replacement of an existing State Police Communication tower in East Haddam. The tower will be used for 911 and other emergency service communications. It will include a precast concrete utility building and 120 foot communication tower.

- **Audubon Square | New Haven, CT**

Served as Project Manager and provided engineering services for Phase I and II of the proposed improvements. The mixed-use development proposes to construct two new seven-story buildings and two two-story amenity buildings which will include a seven-story parking garage containing 648 parking spaces. Work included the design of utilities and stormwater management system.

## TORY SIDOTI, PE

### Project Transportation Engineer



#### YEARS OF EXPERIENCE

- 6 With This Firm
- 3 With Other Firms

#### EDUCATION

- BS, Civil Engineering  
Worcester Polytechnic Institute

#### TECHNICAL REGISTRATIONS

- Professional Engineer - CT
- NYSDEC Certificate of Erosion & Sediment Control Training

Mr. Sidoti is a Project Transportation Engineer. He understands the complex integration of all of the pieces that go into these projects and brings a wide range of experience and knowledge including geometric layout, grading design, retaining walls, erosion and sediment controls, and gas and utility design. Mr. Sidoti is routinely involved in utility coordination aspects of projects.

### SELECTED PROJECT EXPERIENCE

#### FOR EVERSOURCE / UTILITY PROPOSALS

Mr. Sidoti was responsible for drafting and design services on a wide range of highway, utility, and site development projects. Most recently he worked very closely with Eversource, assisting with field work and preparation of drawings for complex permits and submissions to municipalities and CTDOT District offices. For this assignment Mr. Sidoti participated in weekly conference calls to update Eversource as to status of each open assignment.

- **Rehabilitation of Squire Hill Road & Long Mountain Road | New Milford, CT**

Project Engineer for the design of improvements for 3 miles of rural roadway. The work on Squire Hill Road and Long Mountain Road includes pavement rehabilitation, geometric and safety improvements, and drainage system upgrades. Construction was funded by local road bond monies as part of a multiple-year roadway improvement program being administered by the Department of Public Works.

- **Mountain Road (State Route 168) Multiuse Trail | Suffield, CT**

Project Engineer for the design and construction of approximately 4,500 linear feet of a 10-foot-wide multiuse trail along the northern side of Mountain Road (State Route 168). In addition, project includes approximately 300 feet of 5-foot-wide concrete sidewalk to extend the existing sidewalk on the south side of Mountain Road. Also includes minor drainage enhancements, improved crosswalk markings, and ADA pedestrian ramp elements.

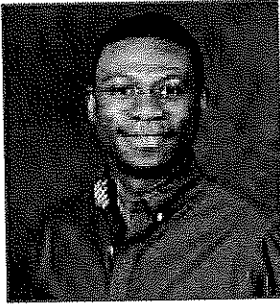
- **Roadway Repairs and Paving (Spring Lake Village Condominiums) | Southington, CT**

Project Engineer responsible for assessing the pavement conditions and recommendations for rehabilitation to extend service life for approximately 2 miles of roadway and parking areas within Spring Lake Village. Assisted in developing a pavement design recommendation for these areas. Construction of the project started in the spring of 2020 and is ongoing.

- **Riverside Avenue Road Diet and Streetscape Project | Bristol, CT**  
Project Engineer for the implementation of parallel parking on both sides of Riverside Avenue between Main Street (State Route 72) and North Main Street. The project reutilized existing traffic signal equipment on new curb extensions along the corridor that introduced new angled parking for residents as well as renovated sidewalks and brick paver amenity strips. New ADA compliance curb ramps were installed at the renovated curb extensions at each intersection.
- **Reconstruction of North Main Street (LOTICIP Project No. 087-002) | Naugatuck, CT**  
Project Engineer for the reconstruction of 2,400 linear feet of North Main Street between Calvin Street and Union Street, which also represent the off ramp intersections for exits 27 and 28 along Route 8 north. The project will utilize construction funding administered by the Naugatuck Valley Council of Governments (CRCOG) under the state's Local Transportation Capital Improvement Program (LOTICIP). The project includes full-depth replacement of the existing pavement, construction of approximately 3,000 linear feet of new sidewalks, and a new enclosed storm drainage system. Responsible for drafting and design relating to all elements of the project. Assisted the project manager in utility coordination, estimating, specification writing, project manual compilation, and continued communication with the Borough throughout the design process.
- **Reconstruction of Cross Street (State Project No.87-145) | Naugatuck, CT**  
Project Engineer assisting with drafting and design efforts for all aspects of design involving full-depth reconstruction, realignment, widening, and intersection improvements along Cross Street, which is an approximately 4,000-linear-foot, two-lane collector road near the municipal boundary with Beacon Falls between Route 8 (exit 25) and New Haven Avenue (Route 63). The design includes new sidewalks, bicycle lanes, and complete storm drain system upgrades. The project is being funded under the STP Urban Program. All work is being reviewed by the Department's liaison firm as well as CTDOT staff where the work will impact state routes. Assisted in drafting responses to review comments and incorporating comments via plan revisions. Made field visits to ascertain existing conditions and to vet design decisions in the field. Performed cross section studies to determine impacts to private properties and assisted with the preparation of R.O.W. maps for easements and takings. Prepared graphic maps indicating wetland impacts and mitigation areas in support of local inland wetland agency permit application.
- **Granby Street Pavement Rehabilitation (LOTICIP Project No. 011-0001 ) | Bloomfield, CT**  
Project Engineer performing drafting and design services for the rehabilitation of approximately 3,800 linear feet of Granby Street, which begins at the municipal border with Hartford and continues north to Cottage Grove Road (CT Route 218). This assignment was part of the Capital Region Council of Governments (CRCOG) Local Transportation Capital Improvement Program (LOTICIP) Municipal Engineering On-Call List. Prepared plans, profile, cross sections and details to indicate the limits of pavement reclamation and spot full-depth reconstruction based on the findings of the subsurface investigation program and pavement design.
- **Center Street Sidewalks at CT Route 68/CT Route 69 (STEAP) | Prospect, CT**  
Project Engineer responsible for all aspects of drafting and design in connection with the installation of new sidewalks along Center Street and along the frontage of Town Hall in Prospect. Portions of the work occurred within state-owned rights-of-way along CT Route 68 and CT Route 69. Conducted field investigation to check topographic survey. Coordinated and observed utility test pit program with Eversource in order to locate existing gas main. Designed drainage improvements to accommodate new sidewalk without impacting gas line. Drafted design based on layout by project landscape architect and developed cross sections. Submitted plans and cross sections to CTDOT District 4 for review and approval and coordinated the permit process. Interacted with CTDECD personnel assigned to the project for the processing of design approvals and to document the bidding and award process. Developed quantity and cost estimate at direction of Project Manager. Conducted periodic site visits during construction and processed all contractor submittals for review and approval. Assisted the town by

# WINDSOR FRANCIS

## Project Transportation Engineer



### YEARS OF EXPERIENCE

- 4 With This Firm
- 1 With Other Firms

### EDUCATION

- BS, Civil Engineering  
University of Connecticut

### AFFILIATIONS

- Member, Institute of Transportation Engineers
- Member, American Planning Association

Mr. Francis is a Project Transportation Engineer with experience in transportation planning and infrastructure design, traffic impact assessment and analysis, urban design, environmental studies, and public involvement. His work involves planning for corridor studies, multi-modal transportation circulation, and context-sensitive transportation operation analysis. Mr. Francis also has experience with streetscape and Transit Oriented Development (TOD) design. He creates GIS-based maps for planning and environmental documents, including transportation plans, corridor studies, and Environmental Impact Statement (EIS) reports. Mr. Francis is proficient in the use of software programs including ArcGIS, AutoCAD, Civil 3D, MicroStation, and Trafficware Synchro. Mr. Francis excels in community engagement and public outreach alongside his technical expertise and field proficiency in all projects involving transportation planning, analysis, and design.

### SELECTED PROJECT EXPERIENCE

- **S.R. Route 67 Spot Improvements - Bank Street (State Project No. 124-165) | Seymour, CT**  
Currently serving as the traffic engineer on this project. Performed traffic analysis to investigate corridor issues and support recommendations to improve traffic control, reduce accidents, and improve the efficiency of existing and future traffic flow. Developed traffic control signal plans for multiple intersections within the project area.
- **Green Street / Tilley Street / Bank Street Traffic Control Signal Improvements (State Project No. 094-260) | New London, CT**  
Developed traffic control signal plans of a three-way clustered intersection in urban downtown New London, including geometric alterations, traffic signal equipment, lane geometry modifications, and sidewalk ramp improvements.
- **Day Hill Road Adaptive Signals (State Project No. 164-240) | Windsor, CT**  
Currently serving as the traffic engineer on this project, involving the adaptive signal upgrades at 11 intersections on a 3-mile stretch of Day Hill Road.
- **Buckland Road Traffic Study | South Windsor, CT**  
Developed a traffic study reporting the traffic impacts of multiple development scenarios for a single project site. This included a simulated analysis of existing and future traffic conditions, depending on the size and usage type of the development site. A preliminary traffic signal plan and a plan for the optimization of existing corridor signals were developed to accommodate the traffic impacts anticipated by this study.

## WINDSOR FRANCIS

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- **The Village Project - Main Avenue | Norwalk, CT**

Provided the design for a proposed traffic signal to accommodate new traffic conditions resulting from a proposed residential development in the City of Norwalk. Designs included signal optimization, equipment and electrical layout, and utility coordination.

- **Proposed Play Entertainment Center | South Norwalk, CT**

Assisted with the development of a parking assessment within and around the project site. This included the development of an ArcGIS map reflecting available public parking relative to the location of the project site with data provided from the city.

### PREVIOUS EXPERIENCE

- **I-84 Danbury | Danbury, CT**

As part of the public involvement and planning team, Mr. Francis organized and attended multiple public outreach initiatives to actively engage the community and faith-based organizations directly affected by the project. Initiatives included project "Open House" seminars and project "Pop-Up" events through informational tabling to raise public awareness about the project and allow for comment. As part of the transportation planning team, Mr. Francis was heavily involved in assessing the needs and deficiencies of the existing bus transit and rail systems in the Greater Danbury area.

- **Heroes Tunnel Project | Hamden, New Haven, & Woodbridge, CT**

Mr. Francis played an essential role in carrying out the public outreach and coordination initiatives needed for this project as a result of its location across three towns. Mr. Francis also supported the project's geotechnical investigation program. This included the coordination with state officials and stakeholders directly affected by the various phases of nighttime work and the resulting traffic diversions needed as part of this effort.

## Section 4





## 2022 US PREFERRED RATE SCHEDULE

### PROFESSIONAL SERVICES

#### Hourly Rate

|                                 |       |
|---------------------------------|-------|
| Senior Principal                | \$225 |
| Principal 2                     | \$200 |
| Principal 1                     | \$195 |
| Senior                          | \$180 |
| Associate                       | \$165 |
| Project                         | \$150 |
| Staff                           | \$130 |
| Resident Project Representative | \$190 |
| Chief Inspector                 | \$160 |
| Senior Inspector                | \$140 |
| Inspector                       | \$120 |
| Senior Draftsperson/Technician  | \$110 |
| Draftsperson/Technician         | \$100 |
| Survey Party Chief              | \$115 |
| Survey Crew Member              | \$75  |
| Word Processor/Administrative 1 | \$75  |

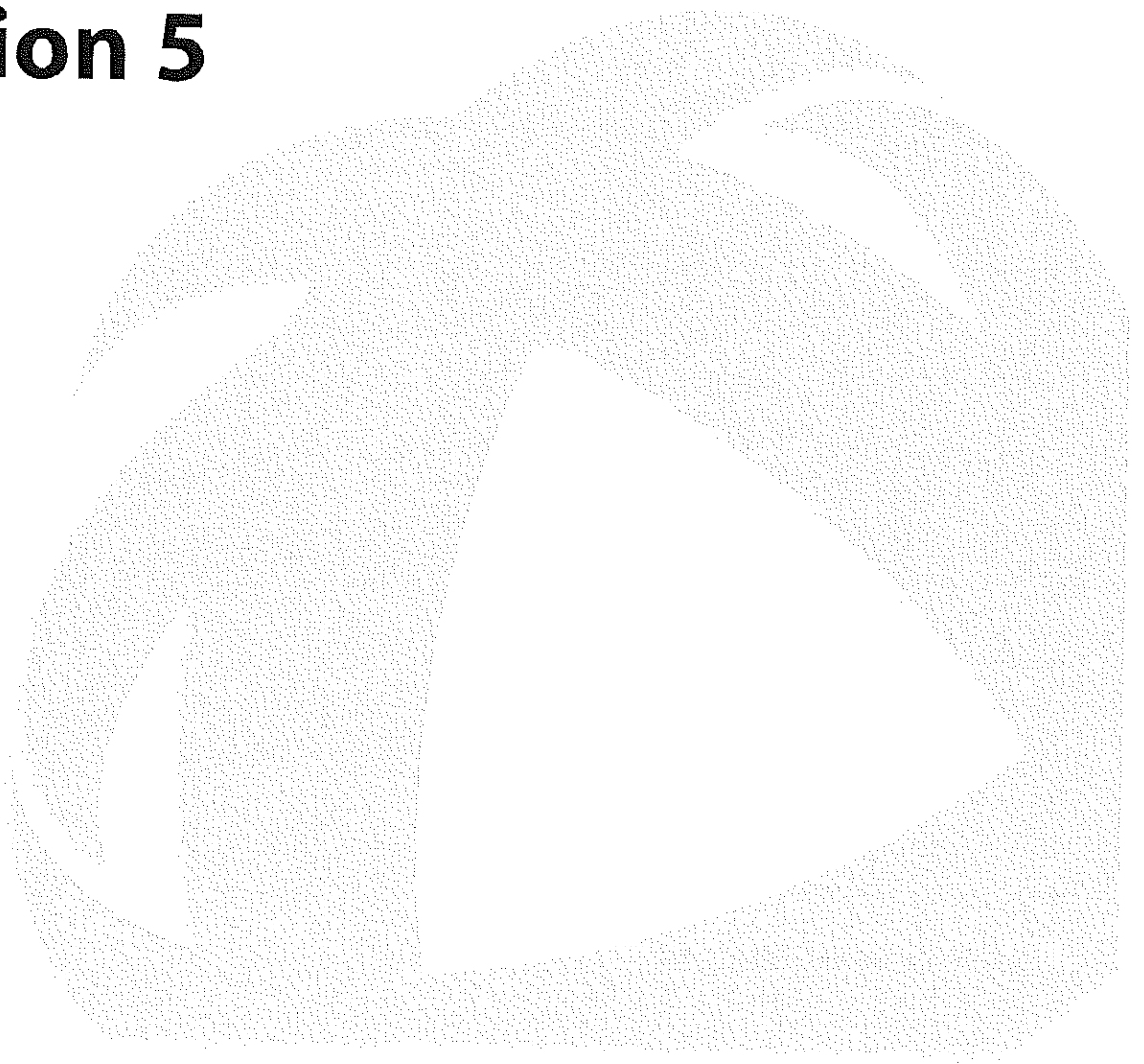
Note: Time will be billed to the nearest ¼ hour

\*Range reflects seniority within this category

**REIMBURSABLE EXPENSES****Rate**

|                          |          |                |
|--------------------------|----------|----------------|
| Bond Prints              | \$ 2.00  | Each           |
| Large Bond Prints        | \$ 3.00  | Each           |
| Fixed Line Mylars        | \$75.00  | Each           |
| Color Plots/Mylars       | \$30.00  | Each           |
| Large Color Plots/Mylars | \$45.00  | Each           |
| Photocopies – 8½ x 11    | \$ 0.12  | Per Copy       |
| Photocopies – 11 x 17    | \$ 0.24  | Per Copy       |
| Color Copies – 8½ x 11   | \$ 1.25  | Per Copy       |
| Color Copies – 11 x 17   | \$ 2.25  | Per Copy       |
| Binding 0-200 pages      | \$ 6.00  | Per Bound Copy |
| 201 or more pages        | \$ 7.50  | Per Bound Copy |
| Board Mounting           | \$25.00  | Each           |
| Each FedEx – \$0-\$25    | \$25.00  | Per FedEx      |
| FedEx – Over \$25        | Cost     | Per FedEx      |
| Mileage                  | IRS Rate | Per Mile       |

## Section 5



## References

### **Beacon Falls On-Call Engineering Services**

**Name:** Mr. Gerard Smith, First Selectman & Director of Public Works

**Address:** Town of Beacon Falls, 10 Maple Avenue, Beacon Falls, CT 06403

**Phone:** (203) 729-4340

**Email:** gsmith@tobfct.com

**Dates Worked:** 2019-Ongoing

### **Enfield On-Call Engineering Services**

**Name:** Mr. Donald Nunes, Director of Public Works

**Address:** Enfield Town Hall, 820 Enfield Street, Enfield, CT 06082

**Phone:** (860) 763-7599

**Email:** dnunes@enfield.org

**Dates Worked:** 2010-Ongoing

### **Naugatuck Valley Council of Governments (NVCOG)**

**Name:** Mr. Mark Nielsen, Director of Planning/Assistant Director (NVCOG)

**Address:** 49 Leavenworth Street, 3rd Floor, Waterbury, Connecticut 06702

**Phone:** (203) 735-8688

**Email:** mnielsen@nvcogct.org

**Dates Worked:** 2018-Ongoing

### **Town of Windsor**

**Name:** Mr. Robert Jarvis, PE, Town Engineer

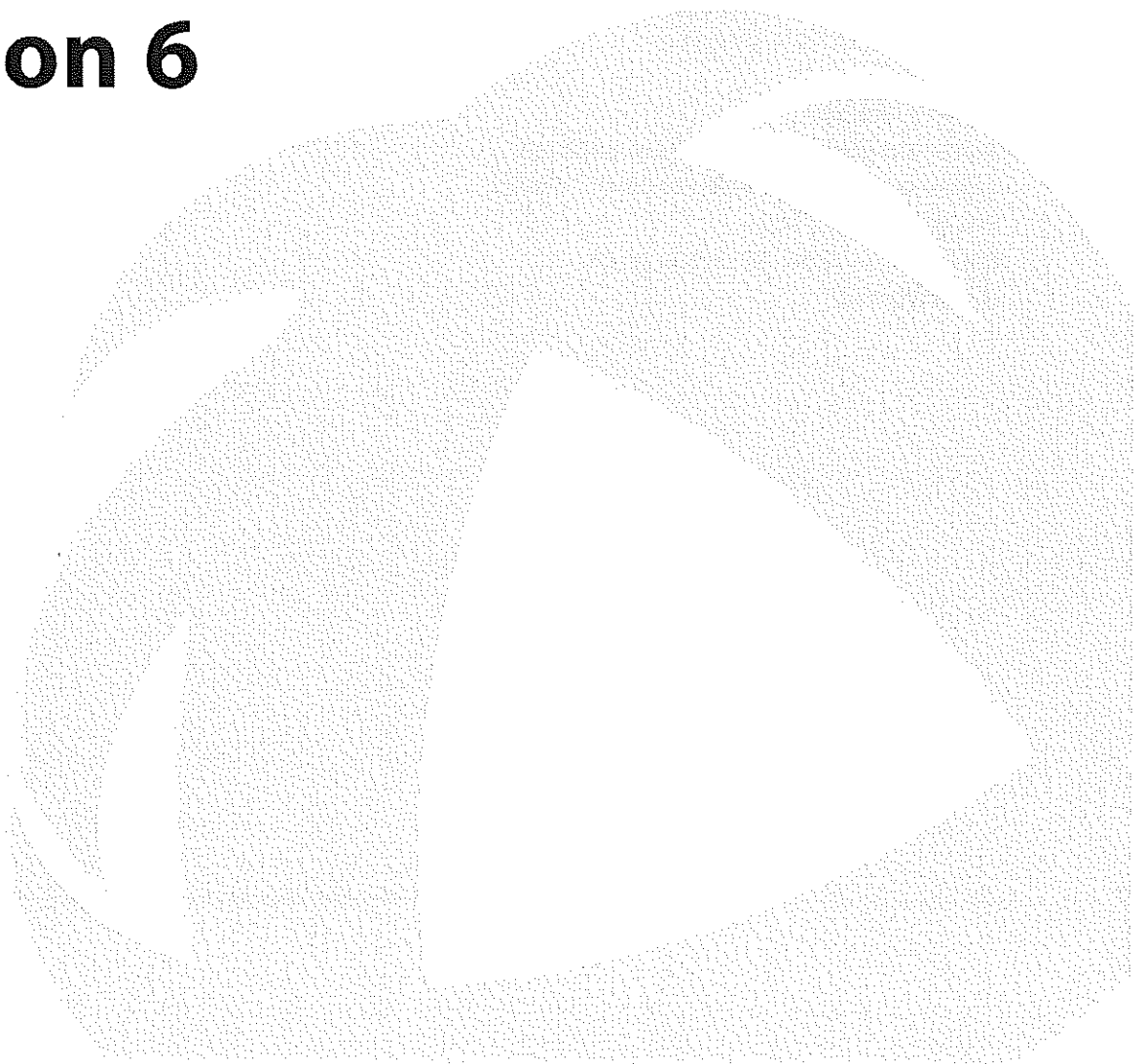
**Address:** 275 Broad Street, Windsor, CT 06095

**Phone:** (860) 285-1804

**Email:** jarvis@@townofwindsorct.com

**Dates Worked:**

## Section 6



FIFTEEN ROPE PERRY ROAD



WATERFORD, CT 06385-2886

**COMPLETE AND RETURN**

**Bid #:**

**Bid TITLE:**

**NON-CONFLICT AFFIDAVIT OF RESPONDENTS**

No Elected or Appointed Official, SBC member or other officer or employee or person whose salary is payable in whole or in part from the Town of Waterford, nor any immediate family member thereof, is directly or indirectly interested in the Bid/Proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any profits thereof.

The undersigned further certifies that this statement is executed for the purpose of inducing the Town of Waterford to consider the statement of qualifications submitted herein.

State of Connecticut S.S.

County of New Haven

Subscribed and sworn before me this 11 day of February, 2022.

Legal Name of Respondent: Jeanine Gouin

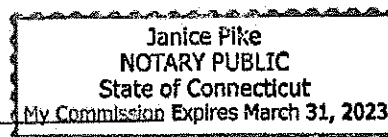
Business Name: SLR Consulting, Inc.

Business Address: 99 Realty Drive, Cheshire, CT 06410

[Signature] President  
Signature and Title of Person

By: [Signature] My Commission Expires:

Notary Public Date: 3/31/2023



**COMPLETE AND RETURN**

**BID #:** 22-113

**BID TITLE:** On-Call Civil Engineering and Surveyor Services

**NON-COLLUSIVE BID STATEMENT**

The undersigned bidder, having fully informed itself regarding the accuracy of the statements herein, certifies that:

(1) The Proposal has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor or bidder of materials, supplies, equipment, or services described in the RFP, designed to limit independent bidding or completion, and

(2) The contents of the Proposal have not been communicated by the bidder or its employees or agents to any person not any employee or agent of the bidder or its surety on any bonds furnished with the Proposal and will not be communicated to any such person prior to the official opening of the Proposal.

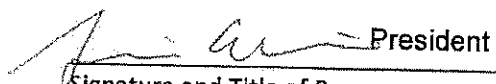
The undersigned bidder further certifies that this statement is executed for the purposes of inducing the Town of Waterford to consider the Proposal and make an award in accordance therewith.

SLR Consulting, Inc.

Legal Name of Bidder

99 Realty Drive, Cheshire, CT 06410

Business Address

 President

Signature and Title of Person

Authorized to Sign

Jeanine Gouin

Printed Name

2/11/2022

Date

### AFFIRMATIVE ACTION STATEMENT

NOTE: IF YOUR COMPANY HAS LESS THAN 10 EMPLOYEES, OR HAS COMPLETED THIS SAME FORM WITHIN 1 YEAR, YOU MAY DISREGARD THE FOLLOWING EQUAL EMPLOYMENT/AFFIRMATIVE ACTION SECTION, EXCEPT AS NOTED.

OR: (1) The number of employees 479

(2) Completed this form within one year Yes No

FOR SEALED BIDS: If your company has completed this form within one year please forward a photocopy of the initial form with your Proposal. If significant changes have taken place within the past year, please update the information on this form.

REQUIREMENT Any vendor/bidder seeking to do business with the Town of Waterford must, upon request, supply the Town with any information concerning the Affirmative Action/Equal Employment practices of the vendor/bidder, which the Town and/or Commission deems necessary in fulfilling its charge. Failure to supply such information, when requested, will result in the termination of any further transactions between the vendor/bidder and the Town of Waterford.

### COMPANY NAME AND ADDRESS

SLR International Corporation

TYPE OF BUSINESS Environmental Consulting

### TYPE OF ORGANIZATION

☒ Corporation ☐ Partnership ☐ Individual

If unit filing this application is not the above-named company, give the name, address and telephone number of reporting unit. (Branch, agent, representative)

AFFIRMATIVE ACTION/EQUAL EMPLOYMENT ACTIVITIES

**22-116 Waterford Plan of Preservation, Conservation, and Development Update**

Please indicate the name and address of the company official(s) responsible for carrying out the Equal Employment Opportunity/Affirmative Action Program for your company.

\_\_\_\_ Amy Moss, 1800 Blankenship Road, Suite 440, West Linn, OR 97068 \_\_\_\_

If your company does not have a written affirmative action plan, please estimate the number of vacancies during the next 12 months, and indicate the numerical or percentage goals you have set for the employment of minority people and females to make your labor force reflective of the labor market in which you operate.

Legal Name of Bidder

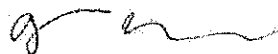
SLR International Corporation

Business Address

22118 20th Ave SE Suite G202, Bothell, WA 98021

Signature and Title of Person

Authorized to Sign



Printed Name

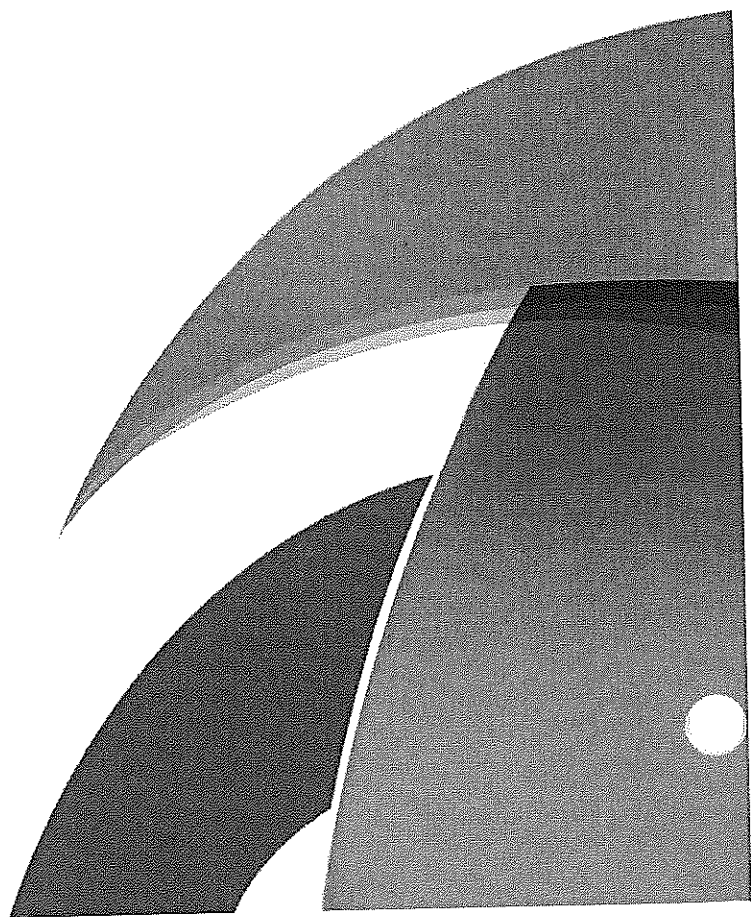
Amy Moss

Date

2/8/2022



[www.slrconsulting.com](http://www.slrconsulting.com)



FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

Town of Waterford  
Board of Selectmen  
Request for Qualifications On-Call Civil Engineering and Surveyor Services  
RFQ #22-113

**PLEASE ATTACH THIS FORM TO THE FRONT YOUR SUBMISSION PACKETS.**

Barton & Loguidice, LLC 41 Sequin Drive Glastonbury, CT 06033  
**VENDOR NAME AND ADDRESS**

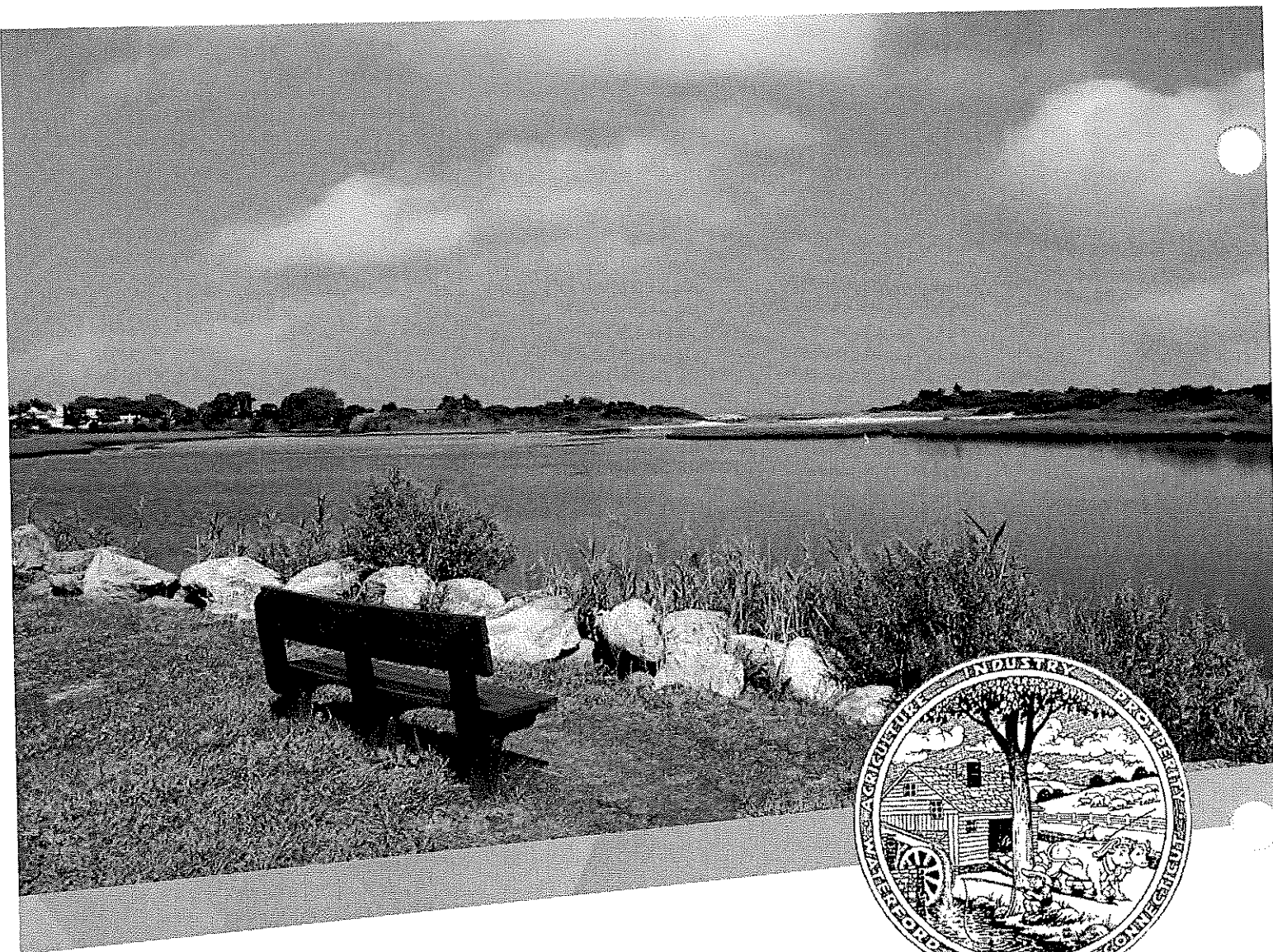
Mark Zessin, P.E., Senior Vice President  
**PRINTED NAME AND TITLE OF VENDOR'S AGENT**

(p) 860-633-8770 • (f) 860-633-5971 • mzessin@bartonandloguidice.com  
**PHONE AND FACSIMILE NUMBERS, E-MAIL ADDRESS**

I Mark Zessin, P.E. , Senior Vice President of the  
Name Position  
above named firm hereby submit the following bid in accordance with Town of Waterford  
specifications.

Mark M. Zessin 2/22/2022  
SIGNATURE DATE

Hourly Rates \$ Please see SECTION 6 of our submittal for hourly rates



# Town of Waterford

## On-Call Civil Engineering and Surveyor Services

RFQ No. 22-113

February 24, 2022

PREPARED BY

**Barton  
& Loguidice**

# Table of Contents

On Call Civil Engineering and Surveyor Services

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- Section 1** • Letter of Interest
- Section 2** • About Barton & Loguidice
- Section 3** • Similar Experience and References
- Section 4** • Key Personnel
- Section 5** • Project Approach
- Section 6** • Hourly Rates and Required Forms

Prepared for  
Rawle Dummett, Purchasing Agent  
Town of Waterford  
15 Rope Ferry Road  
Waterford, Connecticut 06385

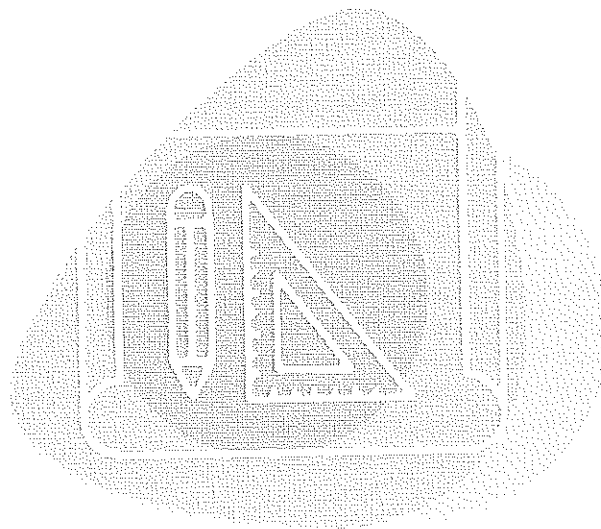
Prepared by  
Barton & Loguidice, LLC  
41 Sequin Drive  
Glastonbury, Connecticut 06033  
File No. P709.1265

**Barton  
& Loguidice**

# Section 1

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## Letter of Interest



**Town of Waterford**

On Call Civil Engineering and Surveying Services

**Barton  
& Loguidice**

# Barton & Loguidice

The Experience to Listen. The Power to Solve.

Mr. Rawle Dummett  
Purchasing Agent  
Town of Waterford  
15 Rope Ferry Road  
Waterford, Connecticut 06385

Re: Request for Qualifications No. 22-113  
On-Call Civil Engineering and Surveyor Services

Dear Mr. Dummett,

Barton & Loguidice, LLC (B&L) is pleased to present our qualifications to the Town of Waterford to provide on-call civil engineering and surveyor services. We are very excited about the opportunity to continue providing the Town of Waterford with our various in-house services. Along with our current relationship with the Town of Waterford, we have excellent working relationships with numerous other municipalities, including providing similar on-call services for the Towns of Cheshire, East Hampton, Lebanon, Bozrah, Windsor, and Kent. We are certain our experience with these towns will help demonstrate our expertise in providing these same services to Waterford. Descriptions for work performed in those towns as well as contact information for references can be found in our submittal.

In order to address the Town's diverse nature of on-call work, we have assembled a team of engineers, land surveyors, and environmental professionals with a wide range of experience working with local municipalities, local commissions, and regional organizations. We are confident that the team of professionals we have assembled possess the necessary technical understanding and capacity to not only meet, but also exceed the Town's expectations.

Thank you again for this opportunity to present our qualifications to you. Please read through the enclosed package and feel free to speak with our references. We are confident that after reviewing our information, you will find that B&L is ideally suited to continue assisting the Town of Waterford with their various technical, consulting, and design needs. We look forward to discussing our qualifications and interest further. Should you have any questions or need additional information, please do not hesitate to call the point of contact for this project, Matthew Brown, P.E. He can be reached in our office at 860-633-8770 or via the email address listed below.

Thank you.

Sincerely,

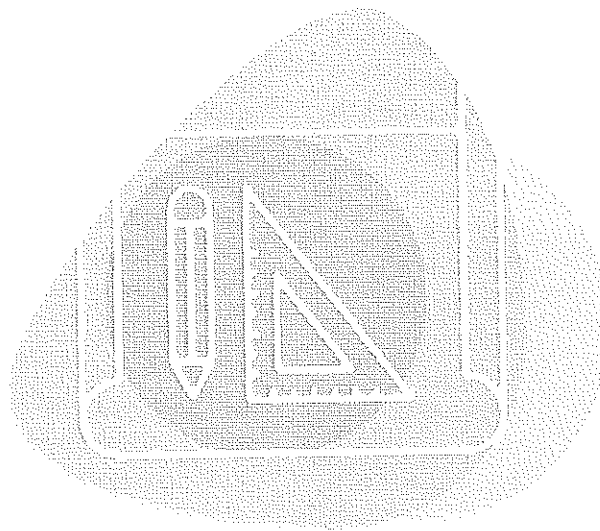
  
Matthew Brown, P.E.  
Vice President, Project Manager  
mbrown@bartonandloguidice.com

  
Mark Zessin, P.E.  
Senior Vice President  
mzessin@bartonandloguidice.com

## **Section 2**

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### About Barton & Loguidice



#### **Town of Waterford**

On Call Civil Engineering and Surveying Services

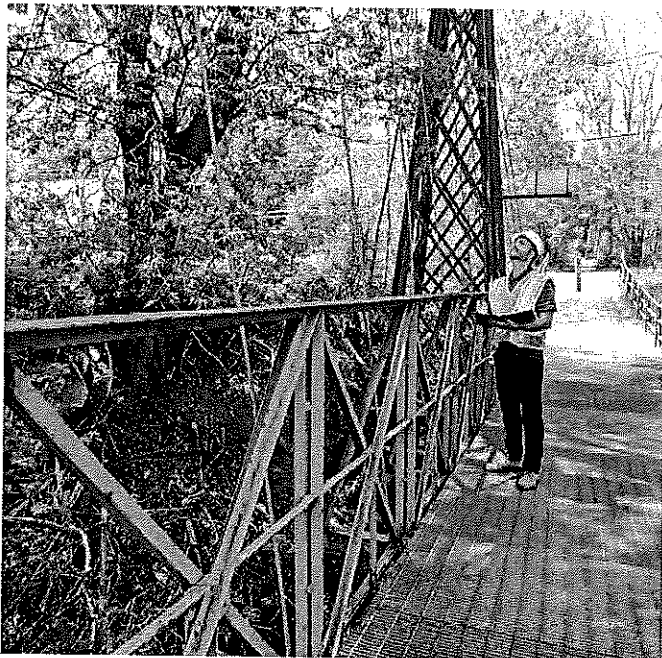
# About Barton & Loguidice

Barton & Loguidice (B&L) has offices in Connecticut, New York, New Jersey, Pennsylvania, Maryland, New Hampshire, and Maine. All services provided to the Town of Waterford will continue to be managed from our Glastonbury (Hartford Regional) office.

In October of 2020, Anchor Engineering Services, Inc. merged with Barton & Loguidice, DPC and formed Barton & Loguidice, LLC. Anchor's team has 27 years of experience working closely with municipal and private clients throughout the state of Connecticut; this partnership has served to enrich our already robust team of professionals, adding an additional value of services for our clients.

B&L is uniquely qualified for this project thanks to our years of experience working with the Town of Waterford in an on-call capacity. Through this experience, we have gained considerable insight and familiarity with local regulations, committees, and residents - and the Town's future goals and objectives.

Additionally, B&L has over 60 years of proven experience providing similar services to municipalities throughout the northeast. In this section, we will expand upon our civil engineering and land surveying services. We encourage you to reach out to us if you have any questions or would like any additional information.



## An Overview of Our Services

B&L offers a wide range of services fully in-house. Our practice areas include:

**Asset Management;**  
**Environmental;**  
**Facilities;**  
**Land Surveying;**  
**Solid Waste;**  
**Sustainable Planning and Design;**  
**Transportation; and**  
**Water Resources.**

## Municipal Engineering

B&L primarily serves public sector clients ranging from local municipalities to county, state, and federal governments. We provide planning, design, and construction oversight and act in a review capacity as municipal engineer or advisor to assist with and oversee private, residential, commercial, and industrial developments within municipal boundaries. Our success has been built on strong lasting relationships with our clients that encourage a personal level of understanding related to the needs of the community, key local officials, and long-term goals of the municipality. As our primary focus is municipal engineering and planning, we do not typically provide civil or site engineering services to private developers, so as to limit the potential for conflicts of interest. Furthermore, we understand that municipal business is often conducted after typical work hours and that attending board meetings is an essential component of a successful municipal project. We are more than happy to meet "after hours" to provide municipalities with the support they need during these meetings.

## Cost Estimating and Control Measures

Cost estimating is part of nearly every project B&L is involved in. We typically develop opinions of cost at significant project milestones as determined by the client. These milestones are usually at the preliminary and programming, schematic design, design development, and construction document phases. We use these milestone estimates to monitor project costs and provide cost control measures that meet the client's needs and budget requirements. Our cost control measures include incorporating several feasible options that we have fiscally evaluated.

# About Barton & Loguidice

Our relationships with manufacturers and suppliers also assist in our cost estimating efforts. These relationships along with our knowledge of suppliers and industry conditions allow us to predict material price changes. Our decades of experience doing this have allowed us to develop accurate cost estimates for our clients.

## Construction Administration

Construction administration and inspection are an important part of ensuring projects are constructed according to the plans and specifications and in compliance with applicable building codes, regulations, and best practices. Our services include:

- Attending and preparing documentation for preconstruction meetings;
- On site construction observation;
- Providing documentation of all activities;
- Reviewing submittals to determine compliance with plans and specifications;
- Reviewing with department heads;
- Preparing and reviewing change orders;
- Final review for release of funds on letters of credit;
- Punch lists; and
- Final certifications of project completion.

We pride ourselves on our ability to understand both the owner's objectives and the contractor's construction methods. This allows us to anticipate potential misinterpretations and unforeseen field conditions. By maintaining open communication with the owner and the contractor, we can limit misinterpretations and brainstorm solutions to project obstacles while minimizing or eliminating costly project overruns.

Since we provide construction administration and inspection services statewide, we have assembled a geographically dispersed team of experienced resident engineers and inspectors. This allows us to respond to issues in a timely manner and save our clients' money by sending the nearest inspector to the project site. Our inspectors are well versed in relevant agency requirements and provide inspection services on a wide variety of transportation, building and structure, site, utility, stormwater and drainage, and solid waste projects.

## Land Surveying

Barton & Loguidice, through its recent acquisition of Anchor Engineering Services, Inc., has the capability to provide land surveying services for state, municipal, commercial, residential and land development clients in Connecticut. We have experience performing road, bridge and railroad surveys across the state, and our land development experience includes condominium and apartment buildings, residential subdivisions, and raw land commercial development. Using state-of-the-art technologies, our experienced surveyors provide effective, accurate, and timely survey data for use by our clients and in support of our design team.



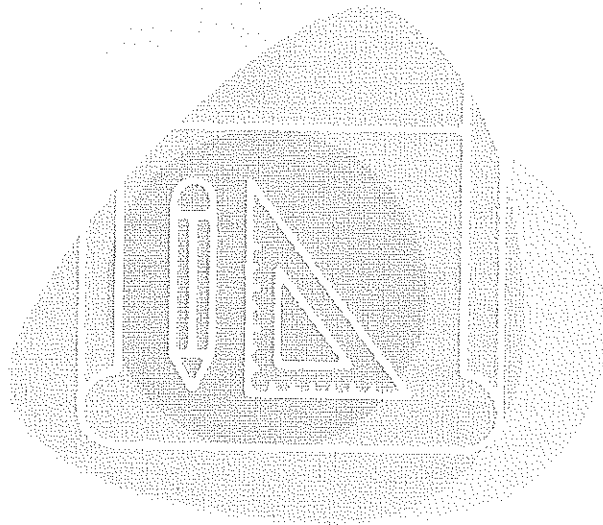
Our typical land surveying services are:

- As-Builts and location improvement surveys and maps;
- Boundary, property, and right-of-way surveys;
- Construction stakeout and verification surveys;
- Coordination of photogrammetric aerial surveys;
- Dapping surveys;
- Easement and utility mapping;
- FEMA flood certifications;
- Inland wetland and watercourse delineations and mapping;
- Property descriptions, plats, and Right-of-Way maps; and
- Property stakeout and boundary resolutions.

## Section 3

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### Similar Experience and References



#### **Town of Waterford**

On Call Civil Engineering and Surveying Services

# Similar Experience and References

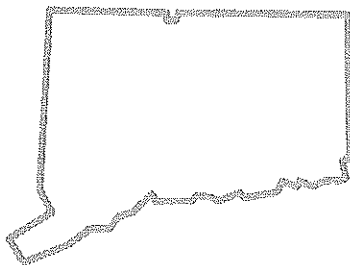
## Introduction

B&L provides municipal clients with a range of consultant services designed to assist their ongoing development, improvements, and maintenance projects. Our team of professionals is capable of providing services for projects of any scope and scale - from plan reviews for regulatory commissions and minor drainage improvements to full-scale emergency bridge replacements. We respond to elected officials, staff, and commission needs quickly, with solutions that meet their budgets and schedules.

Our firm provides on-call engineering, land surveying, environmental, and construction phase services to over 100 Connecticut municipalities. Our projects have ranged from roadway and bridge reconstruction; drainage and culvert improvements; review and support services for regulatory commissions; solid waste management; monitoring; utility extensions; and public facility improvements and easements.

Some of the Connecticut entities that have received on-call services from B&L include:

- **Waterford**
- **East Hampton**
- **Lebanon**
- **Windsor**
- **Kent**
- **New Britain**
- **Bozrah**
- **Waterbury**
- **East Hartford**
- **Columbia**
- **Enfield**
- **Eversource Energy**
- **UConn**



B&L (previously as Anchor Engineering Services, Inc.) has a long-standing relationship with the Town of Waterford which has spanned over twenty years. Our team has provided dozens of services town-wide, and we look forward to the opportunity to continue providing services to the Town.

## Similar Experience and References

### Town of Waterford, Connecticut

Gary Schneider, Director of Public Works

860-444-5864

[gschneider@waterfordct.org](mailto:gschneider@waterfordct.org)

B&L (as Anchor Engineering Services, Inc.) has provided on-call services to the Town and for Town-regulated projects for many years. Projects have been in support for the Department of Public Works, Planning and Zoning Commission, and Board of Education. Some of our other project highlights for the Town of Waterford include:

- Survey, design, permitting, environmental services, and construction administration for the development of the new Municipal Complex at 1000 Hartford Turnpike;
- Design services for the Waterford Beach causeway bridge;
- Environmental services for the DPW facility (soil investigation and stockpile sampling);
- MS4 stormwater sampling throughout the Town (additional services include permitting, stormwater pollution prevention plan, sampling budgeting, and training services to Town Landfill and DPW facility); and
- Sewer layout design, shop drawing reviews, and construction administration for the Waterford WPCA (along Pamela Way).

### Town of East Hampton

Jeremy Hall, Parks and Recreation Director

860-267-7800

[jhall@easthamptonct.gov](mailto:jhall@easthamptonct.gov)

B&L has been the On-Call Town Engineer for East Hampton since 2012. During that time, we have served on the Planning & Zoning and Inland Wetlands Commission, assisted with numerous plan and application reviews, site investigations, regulation assistance, and inspections. B&L is responsible for providing technical reviews of plans and Land Use applications submitted to the Town. Written reports, including technical regulation review and design recommendations are issued monthly. Public testimony and site visits are performed on an as-needed basis and at public meetings upon request. Services assignments have included land use commission application review; stormwater regulatory assistance; school snow load inspections; UST regulatory compliance assistance; Air Line trail survey, design, and construction administration; public water system evaluation; miscellaneous drainage, septic, and recreational improvements; town-wide pavement improvements

# Similar Experience and References

design; North Main Street culvert replacement; design and construction administration of the Brewer Road pavement rehabilitation project; Sears Park improvements design and construction administration.

## **Town of Cheshire**

George Noewatne, Director of Public Works and Engineering  
203-271-6650

gnoewatne@cheshirect.org

B&L recently began working with the Town of Cheshire in an on-call capacity. The nature of B&L's on-call work with the Town is quite diverse, and covers projects for the Town's engineering division as well as for the Water Pollution Control department. Services include engineering review for compliance with Town engineering standards of submissions to the Planning & Zoning Department and Inland Wetlands Commission; roadway design; traffic studies and signal engineering; hydrological studies and reports; storm drainage design and installation oversight; materials compliance certification; construction inspection; geotechnical studies; bridge and structural analysis, design, and inspection; land surveying; dam inspection and design; cost estimates for solid waste collection and recycling; expert testimony services; researching and informing the Town on a regular basis for grant and funding opportunities; MS4 services; and landscape architecture services.

## **Town of Lebanon**

Phil Chester, Town Planner

860-642-6100

pchester@lebanontownhall.org

B&L (formerly Anchor Engineering Services, Inc.) has served the Lebanon Board of Selectmen and Public Works Department since 2007 and has assisted with surveying services; civil and environmental engineering projects; and construction administration and inspection services town-wide. Additionally, we have served the Planning & Zoning and Inland Wetlands Commission since 2007 with various plan and application reviews, site investigations, and regulation assistance. Service assignments include regulatory commission application review; transfer station improvements design and construction administration; roadway rehabilitation design; culvert repair and replacement design and administration; Lebanon Historical Society building layout; Middle School drainage improvements, water service connection design, and construction administration; bridge surveys and reconstruction design; and bridge replacement and construction administration.

## **Town of Manchester**

Tim Bockus, Director of Public Works

860-647-3067

tbockus@manchesterct.gov

B&L (formerly Anchor Engineering Services, Inc.) has provided quarterly and annual water quality monitoring at the Manchester Landfill for over two decades. Additionally, we have provided groundwater, surface water, leachate, and stormwater sampling and reporting services. We conduct semi-annual stormwater compliance evaluations for Town facilities and provide annual stormwater training services for Town staff. In 2016, we assisted the Director of Public Works with filing the annual UST Notification Form. Our team conducted a feasibility study for expansion of the landfill, permit modification and compliance inspections, as well as berm design.

## **Town of Windsor**

Bob Jarvis, P.E., Town Engineer/Director of Public Works

860-285-1804

jarvis@townofwindsorct.com

B&L (formerly Anchor Engineering Services, Inc.) has provided services assisting the Town of Windsor's Engineering Department as well as providing plan review assistance to the Town for many years. Services have included consultant civil and environmental services; stormwater management design; culvert designs; plan reviews; and inspections.

## **Town of Bozrah**

Glenn Pianka, First Selectman

860-889-2689 x202

firstselectman@bozrahct.org

B&L (formerly Anchor Engineering Services, Inc.) has provided on-call services to the Town of Bozrah since 2007. In 2009, the Town was faced with the need to totally replace several town-owned bridges in addition to undertaking needed major repairs to several other bridge structures, all of which the State had determined to be in poor condition and approaching the point of severely restricted weight limits our outright closure. In 2010, the Town floated a \$4.2M bond to cover the cost of the bridge repair and replacements, and our team was assigned the task of designing and overseeing the bridge work that needed to be done. This included the design of new bridges; facilitating communication between local and state regulatory commissions and agencies; developing bid specifications; overseeing the bidding process; and managing the new and repair work once all contracts were finalized.

# Similar Experience and References

## Town of Kent

Rick Osborne, Director of Public Works  
860-927-3491

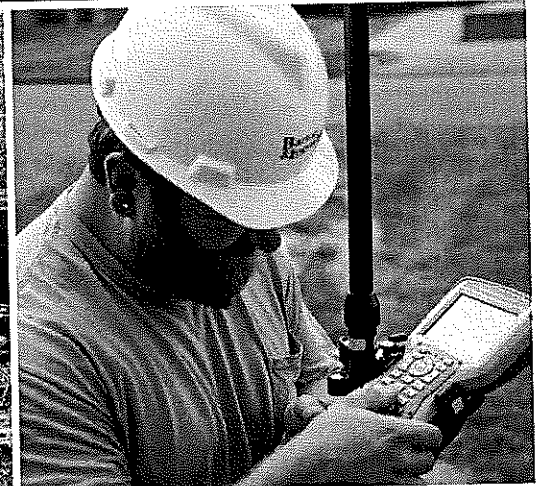
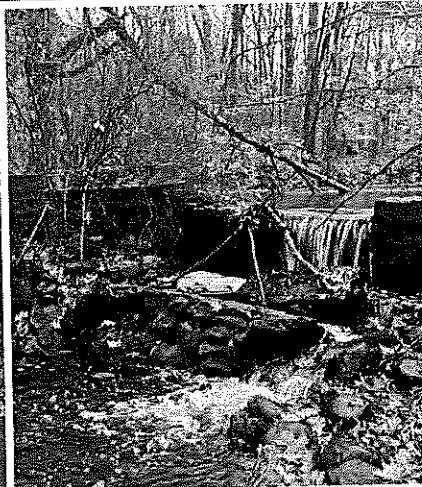
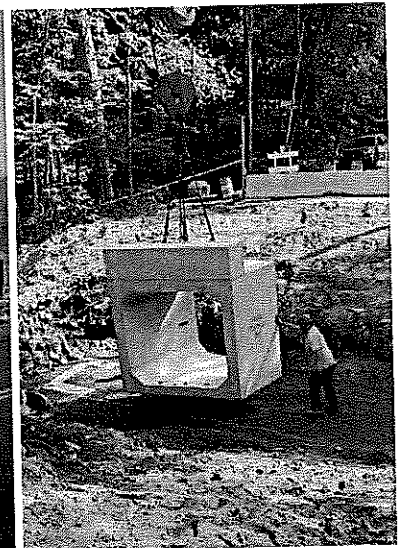
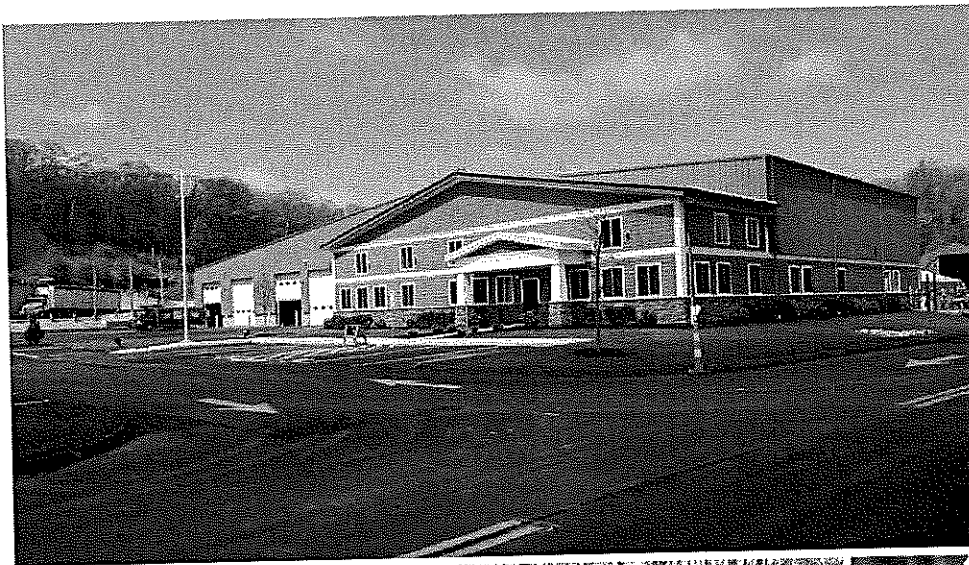
B&L (formerly Anchor Engineering Services, Inc.) works closely with the Town's Planning & Zoning Commission and Land Use staff and is responsible for providing technical reviews of land and Land Use applications submitted to the Town. Written reports, including technical regulation review and design recommendations, are issued monthly. Public testimony and site visits are performed on an as-needed basis and attendance at public meetings upon request. Service assignments have included land use commission application review; bridge replacement design; construction administration; land surveying services; roadway realignment; and stormwater related regulatory assistance.

## Eversource Energy

Shawn Southworth, Senior Engineer  
860-539-6621

[shawn.southworth@eversource.com](mailto:shawn.southworth@eversource.com)

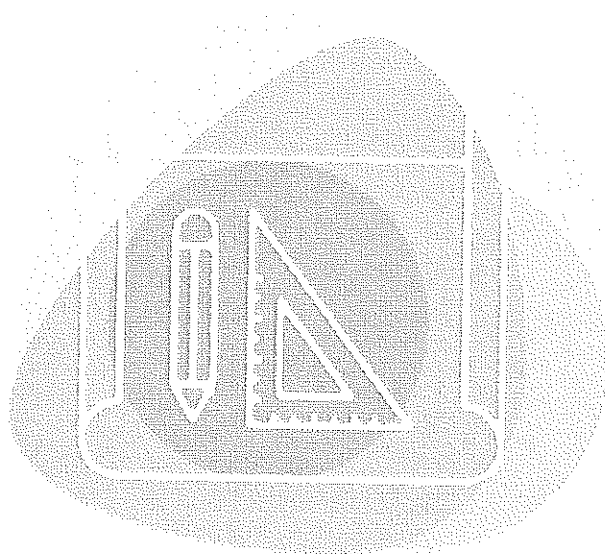
B&L (formerly Anchor Engineering Services, Inc.) has been working closely with Eversource Energy for over a decade on hundreds of survey projects throughout Connecticut and Massachusetts. Survey services provided to Eversource include projects ranging from transmission Right-of-Way (ROW) stakeout, to easement preparation, to conductor and sag checks. B&L has also provided GIS services, potholing services, MLOL, topographic surveys, as-builts, and dozens of other services. Project highlights include utility relocation for CTDOT bridge replacement; annual tree clearing project; ROW access easements; monumentation; detailed research; ROW reconnaissance and location. Project sizes have varied from half-acre topographic surveys to 15-mile transmission line stakeout.



## Section 4

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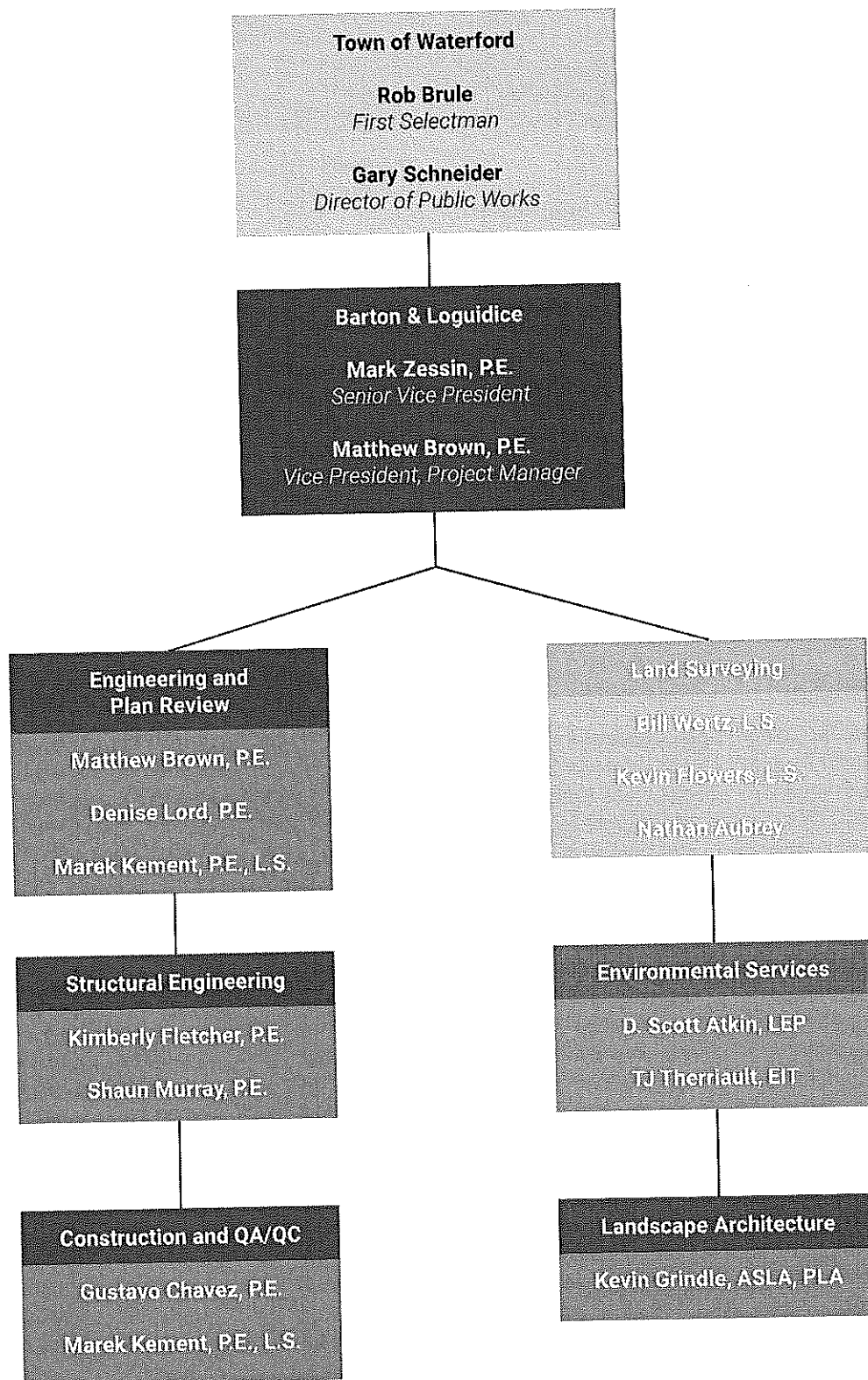
### Key Personnel



#### **Town of Waterford**

On Call Civil Engineering and Surveying Services

# Project Organizational Chart





## **Mark Zessin, P.E. • Senior Vice President**

38 years of experience

MA, Public Policy Studies  
BS, Civil Engineering

mzessin@bartonandloguidice.com

Licensed Professional Engineer (CT, ME,  
MA, NY, OH)

### **Summary**

Mr. Zessin is a Senior Vice President with B&L and has been responsible for planning, design and project management on a broad set of publicly and privately developed projects. Prior to his tenure with B&L, Mr. Zessin was President of Anchor Engineering Services, Inc. which provided civil, structural, environmental, and survey services to over 100 municipal clients and hundreds of private clients throughout Connecticut for nearly thirty years. Mr. Zessin has nearly four decades of engineering design experience and is a licensed professional engineer in five states. He has considerable insight into the requirements of the Connecticut Department of Transportation (CTDOT), the Connecticut Department of Energy and Environmental Protection (CTDEEP), Regional Planning Agencies (RPA), Council of Governments (COGs), and other state and federal regulatory agencies for transportation, environmental, and controversial projects.

### **Project Experience**

#### **Replacement of Under-20 Foot Span Culverts, Lebanon, CT**

Principal-in-charge for the replacement of four under 20-foot span culverts in Lebanon – Olenick Road Bridge, Card Street Bridge, Bender Road Bridge, and Church Road Bridge. The work consisted of the removal and replacement of box culverts and replacement with new culverts and cast-in-place wing walls. Additional work included sedimentation control systems, roadway reconstruction, guide railing with end anchorages, grading and loaming. B&L provided preliminary design services, final design services, permitting services, bid phase services, and construction phase services—including full-time on-site inspection. Coordination with Eversource Energy was an important part of this project as they had crews on-site drilling to install poles on the south side of Bender Road during the construction phase of this project.

#### **Town-Wide Roadway Improvements, East Hampton, CT**

Principal-in-charge for on-call services for the Town of East Hampton. Services included roadway improvements for 54,000 linear feet of roadway, including 18,000 linear feet of full-depth reclamation and over 36,000 linear feet of pavement overlay with associated drainage improvements for numerous streets town-wide. B&L's services included survey, roadway design, drainage design, bidding services, and construction services. Road conditions for approximately

230 roads town-wide were evaluated, photographed, and logged for reclamation or maintenance.

#### **Batchelder Road Rehabilitation Design, Windsor, CT**

Principal-in-charge for the replacement of 1,150 linear feet of Batchelder Road, grading and drainage improvements, street lighting upgrades, and sidewalk construction. These improved roadway conditions provided pedestrian connections to the Loomis Chaffee School, Broad Street, and Windsor Center River Trail. Our team performed survey services, preliminary and final design services, and prepared construction and bid documents.

#### **Waterford Public Works Complex, Waterford, CT**

Principal-in-charge for construction inspection services for the development of a new Public Works Garage at the site of the existing WPCA/Public Works Complex located at 1000 Hartford Turnpike in Waterford. The square footage of the finalized facility is approximately 56,500 square feet.

#### **Waterford Beach Causeway Bridge, Waterford, CT**

Principal-in-charge overseeing Construction Inspection and Administration services for the replacement of a pedestrian bridge which spans across the tidal inlet adjacent to Alewife Cove, north of the beach area. The existing bridge was a single-span footbridge on granite block masonry, and served only pedestrians and occasionally maintenance vehicles that needed access to the beach.

#### **West Main Street Improvements, Cheshire, CT**

Principal-in-charge for full-time construction inspection and administration services related to streetscape improvements along 1,600 linear feet of West Main Street between historic downtown and Maple Avenue in the Town of Cheshire.

#### **Halls Hill Road Reconstruction, Colchester, CT**

Principal-in-charge for engineering services pertaining to the total reconstruction of 2,000 linear feet of Halls Hill Road in Colchester. Halls Hill Road is classified as a Rural Major Collector roadway, and is commonly used by locals as a bypass of downtown Colchester. This road provides access to public schools, daycare facilities, recreational facilities, an oil distributorship, and other commercial facilities and dense residential developments. Improvements included bike lanes, paving markings, signage, and ADA-compliant sidewalks.



## **Matthew Brown, P.E. • Vice President**

26 years of experience

BSE, Systems Engineering

[mbrown@bartonandloguidice.com](mailto:mbrown@bartonandloguidice.com)

Licensed Professional Engineer (CT, MA, ME, VT, RI, NH)

### **Summary**

Mr. Brown has over two decades of experience in a broad range of public and private site engineering, environmental remediation, solid waste, and permitting projects. His responsibilities include site design, storm drainage analysis and design, roadway design, sanitary sewer design, water distribution system design, detention basin design and analysis, environmental investigation and remediation plan development, local, state and federal permitting, and construction inspection. He has been involved in the design and permitting of numerous complex and controversial projects. He has utilized AutoCAD, MicroStation, InRoads, HEC-RAS and other computer software packages throughout all phases of design projects.

### **Project Experience**

#### **North and South Garages Repair - Design and Construction UCONN, Storrs, CT**

Mr. Brown was Project Manager responsible for providing consulting engineering and construction administration services related to repairs at the North and South parking garages at the Storrs campus of UCONN. Structural deficiencies were observed at the parking garages, and a 5-year capital improvement plan was created to address the deficiencies. B&L prepared repair drawings for the top floor of each garage and has conducted investigation and design work associated with the remainder of each floor in each garage. Additionally, B&L has provided full-time on-site construction for this project. As of mid-to-late 2021, construction at the garages is underway.

#### **Train Station Improvements, Waterbury, CT**

Mr. Brown was Project Manager for the City of Waterbury and Waterbury Development Corporation's Train Station Parking Lot Improvement Project. B&L will be providing full-time construction inspection services for the total reconstruction of the parking lot at the Waterbury Train Station.

#### **Comprehensive Roadway Evaluation, East Hampton, CT**

Mr. Brown was Project Manager for the condition assessment of approximately 91 miles of roadway, including pavement condition, drainage deficiencies, and suggested improvements with cost estimates.

#### **Miscellaneous Roadway Improvements, East Hampton, CT**

Mr. Brown was Project Manager and Engineer for the roadway layout and design, drainage evaluation, bidding assistance, and construction administration for approximately 54,000 linear feet of roadway improvements, including approximately 18,000 linear feet of full depth reclamation.

#### **Waterford Beach Causeway Bridge, Waterford, CT**

Mr. Brown was Project Manager for design and inspection phases for the replacement of a pedestrian bridge which spans across the tidal inlet adjacent to Alewife Cove, north of the beach area. The existing bridge was a single-span footbridge on granite block masonry, and served only pedestrians and occasionally maintenance vehicles that needed access to the beach.

#### **20-Foot Span Culvert Replacements, Lebanon, CT**

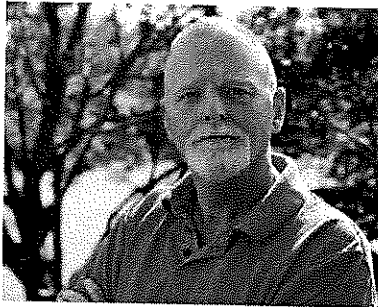
Mr. Brown was Project Manager working closely with the Town of Lebanon on the replacement of four under 20-foot span culverts – Olenick Road Bridge, Card Street Bridge, Bender Road Bridge, and Church Road Bridge. Services have included preliminary design, final design, permitting services, bid phase services, construction phase services, and inspection.

#### **N. Main Street over Christopher Brook, East Hampton, CT**

Mr. Brown was Project Manager for the design and replacement of a culvert on North Main Street, East Hampton. The original structure had inadequate flow capacity and was subject to overtopping during large storm events. The original pipe culvert was replaced with concrete box culverts. Additionally, an ancillary pedestrian walkway was incorporated to the design to better accommodate pedestrian traffic.

#### **Bulls Bridge Barrier Repair, Kent, CT**

Mr. Brown was Project Manager for the barrier repair at the historic Bulls Bridge in Kent. The top beam had been impacted by a vehicle and was subsequently bent. B&L proposed the replacement of the top beam and replacement of bolts connecting to the beam's columns.



## **Bill Wertz, L.S. • Senior Associate**

35 years of experience

Licensed Land Surveyor (CT, MA)

Civil Drafting  
Computer-aided Drafting

[bwertz@bartonandloguidice.com](mailto:bwertz@bartonandloguidice.com)

### **Summary**

Mr. Wertz is a Senior Associate and Chief of Surveys at B&L. He has over three decades of experience in land surveying. His experience covers all aspects of survey from historical research and boundary investigations through construction stakeout and as-built certifications. He has extensive experience working on bridge & railroad projects, topographic, hydraulic and rights of way surveys for Metro-North and highway bridges and historic records research for the Connecticut Department of Transportation, Rails Division. Mr. Wertz has worked on many projects related to easements and rights of way for municipal and private clients working to resolve property line disputes rights of way issues. As an expert witness Mr. Wertz has supported municipal and private clients for roadway R.O.W. conflicts, hazard location and adverse possession claims.

### **Project Experience**

#### **Eversource Energy, Numerous locations, CT**

Ongoing on-call survey contract supplying field and office support for numerous transmission and distribution projects. Projects varied from half acre topographic surveys to 15 mile transmission line stakeout. Projects included research, boundary and right of way reconnaissance and location, topographic surveys, easement stake out and monumentation.

#### **Halls Hill Road Reconstruction, Colchester, CT**

Provided basemapping and plan preparation services for the total reconstruction of Halls Hill Road – approximately 2,000 linear feet. Halls Hill Road is classified as a Rural Major Collector roadway, and is commonly used by locals as a bypass of downtown Colchester – particularly during rush hours. Services provided to the Town for this important roadway reconstruction project include basemapping preparation, construction contract documents (including roadway reconstruction plans, details, final estimates, and specifications, construction bidding assistance, and construction administration and inspection.

#### **Waterford Public Works Complex, Waterford, CT**

Provided survey related construction services for the development of a new Public Works Garage at the site of the existing WPCA/Public Works Complex located at 1000 Hartford Turnpike in Waterford. The total square footage of the finalized facility is approximately 56,500 square feet.

#### **Moorlands Stair Replacement, Windsor, CT**

Oversaw survey crews for data collection and field investigation services for the replacement of approximately 100' of bituminous concrete sidewalk, stairs, and appurtenances at a walkway from the intersection of Lennox Avenue and Kellogg Street to the Moorlands.

#### **Car Wash Site Development, Glastonbury, CT**

Oversaw survey crews for the development of a car wash on Oak Street in Glastonbury. Survey services included records research and field work necessary to perform a Class A-2 and T-2 survey.

#### **Transmission Line Easement Surveys - Plainfield Renewable Energy, Plainfield/Canterbury, CT**

As part of the overall project to design, permit and construct the renewable energy plant in Plainfield, B&L Engineering Services worked with the client, Plainfield Renewable Energy, the Providence and Worcester Railroad, and Eversource Energy to create easements to convey power from the power plant to an existing substation. The transmission line ran, in part, on property of the Providence and Worcester Railroad right of way for its entire length and either ran directly on or overhung several private properties. We worked with the various entities to perform the records research, field survey, mapping, and prepare the legal descriptions used to create the easements. As part of this survey, we performed an as-built survey of the installed utility mono-poles, wires and attachments. The wires and attachments were located to ensure that Eversource Energy mandated minimum vertical clearances were maintained. During this process it was determined that one of the mono-poles was installed in the wrong position and we worked with the project team to adjust the easements to include the pole and wires.



## **Denise Lord, P.E. • Lead Engineer**

36 years of experience

Licensed Professional Engineer (CT)

BS, Civil Engineering

[dlord@bartonandloguidice.com](mailto:dlord@bartonandloguidice.com)

### **Summary**

Ms. Lord is a Lead Engineer with over three decades of engineering experience spanning numerous state and local infrastructure projects as well as private residential, commercial and industrial site development projects. Her experience on these projects includes roadway design, traffic control plans, comprehensive storm drainage design and studies, subdivision and site development layout and grading, utility layout, regulatory agency permitting, project cost estimating, development of construction specifications and contract documents, and construction inspection. She has significant experience in roadway design, trail design, hydraulic analysis, site layout design and permitting, sanitary sewer and water main design, storm drainage and detention basin design and analysis. Her public and private sector project experience provides insight into the needs of the client.

### **Project Experience**

#### **Halls Hill Road Reconstruction, Colchester, CT**

Roadway Design Engineer for the total reconstruction of Halls Hill Road – approximately 2,000 linear feet. Halls Hill Road is classified as a Rural Major Collector roadway, and is commonly used by locals as a bypass of downtown Colchester – particularly during rush hours. Services provided to the Town for this important roadway reconstruction project include basemapping preparation, construction contract documents (including roadway reconstruction plans, details, final estimates, and specifications, construction bidding assistance, and construction administration and inspection.

#### **Walnut Tree Hill Road Bridge, Newtown, CT**

Roadway Design Engineer and assistance with bid phase services for bridge rehabilitation project (Bridge No. 05028 over Pootatuck River in the Town of Newtown). Bridge No. 05028 is located approximately 300 feet north of the intersection of Walnut Tree Hill Road with State Route 816 (Glen Road). The bridge, built in 1936, consisted of a concrete tee beam with cast-in-place concrete deck superstructure supported by concrete abutments and wing walls. The rehabilitation of the structure consisted of the complete removal and replacement of the superstructure, rehabilitation and widening of the existing substructure to

accommodate an increased deck width, and substantial adjustment to the horizontal roadway alignment to increase the radii of both reverse curve approach segments.

#### **Toddy Hill Road Bridge, Newtown, CT**

Roadway Design Engineer for the replacement of Toddy Hill Road Bridge in Newtown. This project consisted of the construction of a new concrete arch bridge and associated road and storm drainage located just west of the existing bridge in order to allow the bridge to remain open during construction. Approximately 700 linear feet of new roadway was completed, and once completed, traffic was rerouted to the new structure and the existing outdated structure was removed. The new broad span is approximately 32 feet long and the new road width is 44 feet wide – much wider than the original span and width.

#### **Hotel Site Development, Ella T. Grasso Turnpike Windsor Locks, CT**

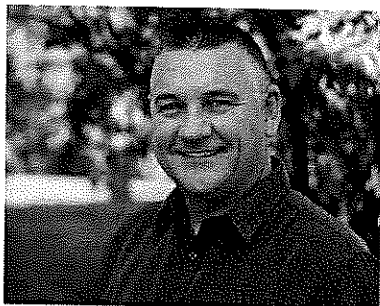
Provided design development and permitting level drawings for the development of a hotel on a parcel of land located at 229 Ella T. Grasso Turnpike in Windsor Locks. The parcel is approximately 6.1 acres. Additional services pertaining to the development of this hotel include data acquisition and basemapping, topographic and boundary surveys, delineation of inland wetland and watercourses, schematic design, site development plans, erosion and sedimentation control plans, CTDOT encroachment permitting, OSTA permitting, FAA permitting and SWPPP preparation.

#### **South Park Avenue over Mill River, Bridge No. 04211 Easton, CT**

Roadway Design Engineer for replacement of an existing steel beam bridge with a 50' span NEXT beam bridge, on a 20 degree skew. The project also includes utility relocations and reconstruction of 300 linear feet of roadway and traffic detour.

#### **Route 82 Water Main Extension, Bozrah, CT**

Provided engineering services for the design, sewer design, water main design, and construction inspection services for a utility extension project expanding from Route 82 in Bozrah to the Norwich town line.



## **Marek Kement, P.E., L.S. • Senior Managing Engineer**

27 years of experience

BS, Civil Engineering  
AS, Civil Engineering Technology

Licensed Professional Engineer (CT)  
Licensed Land Surveyor (CT)

[mkement@bartonandloguidice.com](mailto:mkement@bartonandloguidice.com)

### **Summary**

Mr. Kement is a Senior Managing Engineer with over 27 years of experience in civil engineering and land surveying; over 37 years involvement in the construction industry; and also a former member of the East Windsor Planning & Zoning Commission. He has worked on numerous residential, commercial, industrial and municipal projects from inception through completion. His construction background and private sector project experience offers him insight into the needs of the client and he has developed an excellent working relationship with various municipal and utility agencies. His responsibilities have included project management, cost estimates, records research, land surveying, preliminary site investigations and layout, preparation of design plans, regulatory permit applications & contract documents, construction administration & inspection, and liaison services with clients, contractors, and regulatory agencies.

### **Project Experience**

#### **Municipal Complex Facility (Design-Build), Waterford, CT**

Project manager and engineer for the design, administration, and construction inspection of a \$15.8M Design-Build Municipal Complex Facility/Department of Public Works project for the Town of Waterford. The work included initial conceptual design & specification preparation, environmental soil investigation, drainage evaluation, local permitting through various boards and commissions, and bid assistance through RFQ/RFP process.

#### **Hotel Site Development (TRU by Hilton) Windsor Locks, CT**

Project manager and engineer for the site development of a 116, room hotel near Bradley International Airport involving constant coordination with architects, Hilton franchise department, and various utility companies. The scope included design, stormwater management, and permitting through local, state, and federal agencies.

#### **Linde Gas North America, LLC, Suffield, CT**

Project manager and engineer for the industrial site expansion to operate a product storage and distribution facility involving constant coordination with client, architect, and municipality. The scope included design, stormwater

management, local permitting, construction administration, and construction inspection.

#### **Transfer Station Improvements, Enfield, CT**

Project manager and engineer for the evaluation and design for improvements to the Town's Transfer Station for the Enfield Department of Public Works. The project included circulation modifications, vehicle scale relocation, facility upgrades, stormwater management, and local APA & PZC permitting.

#### **Brewer Road Pavement Rehabilitation, East Hampton, CT**

Chief construction inspector providing administration and inspection services for a State of Connecticut and Federal funded project. The scope included field monitoring, inspection of the work of others insuring compliance with drawings and specifications, and daily record keeping.

#### **Rehabilitation of Batchelder Road, Windsor, CT**

Project manager for the design and administration of a road rehabilitation project for the Town of Windsor. The project included replacement of deteriorated pavement along the road, associated grading/drainage improvements, street lighting upgrade, retaining wall design, and sidewalk construction to improve and facilitate the pedestrian network near the town center and Loomis Chaffee School.

#### **Bascom Road Rehabilitation, Lebanon, CT**

Project manager and engineer for the design, administration, and construction inspection of a road rehabilitation project for the Town of Lebanon. The project involved road reclamation of 5,500 linear feet of deteriorated pavement, sub, surface drainage investigation and evaluation, vertical re, alignment of the road, and associated grading.

#### **Naugatuck River Greenway, Torrington, CT**

Assisted with the development of a 2.6, mile trail section of the Naugatuck River Greenway. Special consideration was taken to ensure the project would not impact community senior center and recreational areas, surrounding neighborhood, and integrity of the existing USACE levees, which involved USACE Section 408 Permitting.



## **Kimberly Fletcher, P.E. • Managing Engineer**

13 years of experience

Licensed Professional Engineer (CT)

MS, Structural Engineering  
BS, Civil-Structural Engineering

kfletcher@bartonandloguidice.com

### **Summary**

Mrs. Fletcher is a Managing Engineer with over a decade of experience in different areas of civil and structural engineering including bridge design, building design, retaining wall design, structural design of pipe supports and other structural components at nuclear power plants, and bridge project cost estimation. She has experience in design of new bridges, superstructure replacement, bridge rehabilitation, and retaining wall design. She is highly familiar with AASHTO, AISC, ACI, IBC, NDS, and ASCE design standards.

### **Project Experience**

#### **UCONN North and South Parking Garages, Storrs, CT**

The University of Connecticut owns two precast concrete parking garages at the Storrs Campus. The North Garage, located adjacent to the Jorgensen Center for Performing Arts, is a five level structure originally constructed in 1997. Access to the North Garage is provided at ground level only. The South Garage, located adjacent to the Harry A. Gampel Pavilion, is a six level structure constructed in 2000. Access to the South Garage is provided at the ground level and at the fifth level. The University commissioned a condition assessment and structure evaluation for each structure, which concluded that, while the structures were both in good condition, certain repairs were recommended. The University is utilizing a phased approach to completing the repairs. Mrs. Fletcher is responsible for structural review and inspection services.

#### **Band Shell Design, Jillson Square, Willimantic, CT**

Provided final design, acoustical design, construction bid assistant, revisions, and construction administration services for the development of a band shell in historic downtown Willimantic. A close working relationship with the town council, building committee, and private donor was necessary through all phases in order to meet an aggressive construction schedule in time for a grand opening performance.

#### **20-Foot Span Culvert Replacements (4), Lebanon, CT**

Provided design, permitting, and construction phase services for the Town of Lebanon on the replacement of four under

20-foot span culverts – Olenick Road Bridge, Card Street Bridge, Bender Road Bridge, and Church Road Bridge. Additional services performed by B&L include full-time inspection services.

#### **Waterford Beach Causeway Bridge, Waterford, CT**

Provided preliminary and final design services and construction phase services for the replacement of a pedestrian bridge which spans across the tidal inlet adjacent to Alewife Cove, north of the beach area. The existing bridge was a single-span footbridge on granite block masonry, and served only pedestrians and occasionally maintenance vehicles that needed access to the beach.

#### **Bulls Bridge Barrier Repair, Kent, CT**

Provided design services for the barrier repair at the historic Bulls Bridge in Kent. The top beam had been impacted by a vehicle and was subsequently bent. B&L proposed the replacement of the top beam and replacement of bolts connecting to the beam's columns.

#### **North Main St over Christopher Brook, East Hampton, CT**

Structural Engineer for replacement of three 24" diameter culverts with twin 6'-0"x2'-6" concrete box culverts. The project also included the replacement of four cast-in-place cantilever wingwalls and addition of a pedestrian sidewalk.

#### **Inspection of two < 20' Span Bridges, Madison, CT**

Provided bridge inspection services for Bridge No. 075-002 and 075-010 in the Town of Madison. B&L prepared visual assessments of the bridges, took photos, and prepared inspection reports for each bridge summarizing the findings as well as recommendations pertaining to repair or replacement.

#### **Paper Mill Road Bridge over Jeremy River, Colchester, CT**

Provided design and bid phase services for the replacement of the Paper Mill Road Bridge in Colchester. Additional services provided by B&L include survey services, permitting services, and construction administration and inspection.



## **Shaun Murray, P.E. • Project Engineer**

7 years of experience

Licensed Professional Engineer (CT)

ME, Structural Engineering  
BS, Civil Engineering

smurray@bartonandloguidice.com

### **Summary**

Mr. Murray graduated from the University of New Hampshire with a Bachelor's of Science in Civil Engineering and from the University of Hartford with a Masters of Engineering in Structural Engineering. He is a Structural Engineer with over seven years of structural engineering and consulting engineering experience including bridge design, roadway design, building design, retaining wall design, bridge load rating, and bridge cost estimating. His experience on these projects included new bridges, superstructure replacement and rehabilitation, substructure replacement and rehabilitation, retaining wall design, development of staging/water handling plans, bridge inspection, dam inspection, shop drawing review, and development of construction specifications. He is highly familiar with CTDOT, AASHTO, AISC, ACI, and ASCE design standards.

### **Project Experience**

#### **UCONN North and South Parking Garages, Storrs, CT**

The University of Connecticut owns two precast concrete parking garages at the Storrs Campus. The North Garage, located adjacent to the Jorgensen Center for Performing Arts, is a five level structure originally constructed in 1997. Access to the North Garage is provided at ground level only. The South Garage, located adjacent to the Harry A. Gampel Pavilion, is a six level structure constructed in 2000. Access to the South Garage is provided at the ground level and at the fifth level. The University commissioned a condition assessment and structure evaluation for each structure, which concluded that, while the structures were both in good condition, certain repairs were recommended. The University is utilizing a phased approach to completing the repairs. Mrs. Murray is responsible for structural review and inspection services.

#### **Salisbury/Sharon Regional Transfer Station, Salisbury, CT**

Structural Engineer for the development of a transfer station for the Salisbury Sharon Regional Resource Authority. This transfer station will service the Towns of Sharon and Salisbury. Services include the preparation of conceptual design materials, evaluation of existing conditions, extensive design development – including conceptual design and final site design. Many of the designs have been used for public informational meetings.

#### **Band Shell Design, Jillson Square, Willimantic, CT**

Provided design services, revisions, bid assistance, and construction administration services for the development of a band shell in historic downtown Willimantic. A close working relationship with the town council, building committee, and private donor was necessary through all phases in order to meet an aggressive construction schedule in time for a grand opening performance.

#### **Vehicle Wash Bay, Norwich, CT**

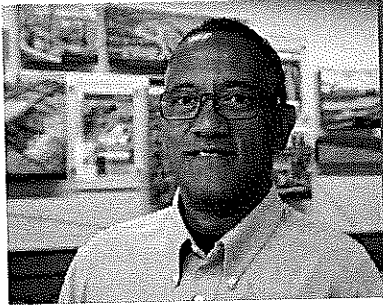
Provided structural design services for the development of a vehicle wash bay for the Department of Public Works in Norwich. The final facility will be capable of washing a wide range of vehicles – from passenger cars to large plow trucks and fire apparatus.

#### **Retaining Wall Alternatives Study, Maple Street Condo Association, Vernon, CT**

Structural Engineer for the evaluation of an existing 550-foot retaining wall located at 16 Maple Street in Vernon, Connecticut. Evaluation indicated that the timber retaining wall had multiple deficiencies and was in poor condition and showing signs of imminent failure. A full replacement was warranted, and three alternatives for the replacement were provided.

#### **Walnut Tree Hill Road Bridge, Newtown, CT**

Provided shop drawing review and consultation services during construction for the Walnut Tree Hill Road bridge rehabilitation project (Bridge No. 05028 over Pootatuck River in the Town of Newtown). Bridge No. 05028 is located approximately 300 feet north of the intersection of Walnut Tree Hill Road with State Route 816 (Glen Road). The bridge, built in 1936, consisted of a concrete tee beam with cast-in-place concrete deck superstructure supported by concrete abutments and wing walls. The rehabilitation of the structure consisted of the complete removal and replacement of the superstructure, rehabilitation and widening of the existing substructure to accommodate an increased deck width, and substantial adjustment to the horizontal roadway alignment to increase the radii of both reverse curve approach segments.



## **Gustavo Chavez, P.E. • Lead Engineer**

23 years of experience

Licensed Professional Engineer (CT)

MS, Civil Engineering  
BS, Civil Engineering  
AS, Technology

gchavez@bartonandloguidice.com

### **Summary**

Mr. Chavez is an experienced Civil Engineer with widely diverse technical specialties pertaining to the engineering field. He has worked on various projects throughout the state of Connecticut offering design, inspection, and coordination services. He has extensive experience with roadway and drainage design.

### **Project Experience**

#### **UCONN North and South Parking Garages, Storrs, CT**

The University of Connecticut owns two precast concrete parking garages at the Storrs Campus. The North Garage, located adjacent to the Jorgensen Center for Performing Arts, is a five level structure originally constructed in 1997. Access to the North Garage is provided at ground level only. The South Garage, located adjacent to the Harry A. Gampel Pavilion, is a six level structure constructed in 2000. Access to the South Garage is provided at the ground level and at the fifth level. The University commissioned a condition assessment and structure evaluation for each structure, which concluded that, while the structures were both in good condition, certain repairs were recommended. The University is utilizing a phased approach to completing the repairs. Mr. Chavez was responsible for construction inspection services.

#### **Walnut Tree Hill Road, Newtown, CT**

Provided full-time on-site construction inspection services throughout the entirety of this bridge replacement project. This project consisted of the complete removal and replacement of the superstructure, rehabilitation and widening of the existing substructure to accommodate an increased deck width, and substantial adjustment to the horizontal roadway alignment in order to increase the radii of both reverse curve approach segments.

#### **Waterford Public Works Complex, Waterford, CT**

Providing construction inspection services for the development of a new Public Works Garage at the site of the existing WPCA/Public Works Complex located at 1000 Hartford Turnpike in Waterford. The square footage of the finalized facility is approximately 56,500 square feet.

#### **Toddy Hill Road Bridge, Newtown, CT**

Provided inspection services for the construction and replacement of the Toddy Hill Road Bridge in Newtown. The new broad span is approximately 32 feet long and the new roadway width is approximately 44 feet wide – much wider than the original span and width. Approximately 700 linear feet of new roadway was completed in addition to the bridge.

#### **West Main Street Improvements, Cheshire, CT**

Provided full-time construction inspection and administration services for streetscape improvements along 1,600 linear feet of West Main Street between historic downtown and Maple Avenue in the Town of Cheshire.

#### **U.S. Route 1 over Noroton River, Stamford, CT (CTDOT Project No. 135-307)**

Provided design services for the design and replacement of Bridge No. 00315 in Stamford, CT. The existing two-span structure was originally constructed in 1913. The new structure was raised by 2.5 feet to increase hydraulic openings, and construction design was created to facilitate staged construction in order to maintain traffic flow.

#### **20-Foot Span Culvert Replacements (4), Lebanon, CT**

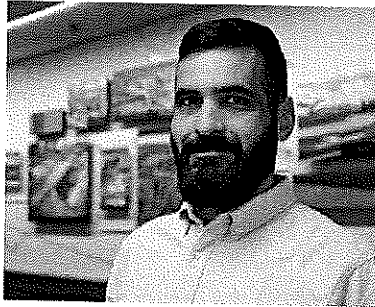
Provided inspection services for the Town of Lebanon on the replacement of four under 20-foot span culverts – Olenick Road Bridge, Card Street Bridge, Bender Road Bridge, and Church Road Bridge. Additional services performed by B&L include preliminary design, final design, permitting services, bid phase services, construction phase services, and inspection.

#### **Water Main Extension along Route 82, Bozrah, CT**

Provided inspection services, sewer design, and water main design for a utility extension project expanding from Route 82 in Bozrah to the Norwich town line.

#### **Train Station Improvements, Waterbury, CT**

Providing construction inspection services for the City of Waterbury/Waterbury Development Corporation's Train Station Parking Lot Improvement Project. Construction inspection services are for the total reconstruction of the parking lot at the Waterbury Train Station.



## **Kevin Flowers, L.S. • Senior Land Surveyor**

16 years of experience

Professional Land Surveyor (CT, ME)

Coursework in Computer-aided Drafting

kflowers@bartonandloguidice.com

### **Summary**

Mr. Flowers is a professional land surveyor with over a decade experience in the field of land surveying. His experience includes boundary, utility right of way, topographic and construction stakeout surveys, land record research, and office calculations and drafting. He has worked on numerous commercial, urban and rural sites throughout Connecticut and Massachusetts.

### **Project Experience**

#### **Eversource Energy, Various Locations Statewide, CT**

Ongoing on-call survey contract supplying field and office support for numerous transmission and distribution projects. Various projects statewide, from half acre topographic surveys to 15 mile transmission line stakeout. Projects included research, boundary and right of way reconnaissance and location, topographic surveys, easement stake out and monumentation.

#### **Town Green Bicycle and Pedestrian Improvements Colchester, CT**

Survey and mapping services for pedestrian improvements to the Colchester Town Green. Improvements will include an ADA-Compliant flexi-pave pathway with will retain the rustic look of the original stone pathway thus retaining the historic nature of the Town Green.

#### **Cherniske Road Bridge, New Milford, CT**

Survey services pertaining to the replacement of the Cherniske Road Bridge over the West Aspetuck River in New Milford. Additional services provided by B&L include preliminary engineering, preliminary design, permitting services, final design services, and bid phase services for this project.

#### **Multi-Use Trail, New Hartford, CT**

Provided Survey services in support of a 5± mile trail extending from the intersection of Routes 214 and 44 in New Hartford to the Canton town line, with the ultimate goal of connecting the trail to the Farmington River Heritage Trail in Collinsville. This project is funded by a Recreational Trails Grant from the CT DEEP.

#### **Fire House Improvements, East Hartford, CT**

Provided survey services in support of the reconstruction of the East Hartford Fire House (#6) parking lots as well as in support of the installation of a new oil/water separator and sanitary sewer connection for the existing floor drains found within the building.

#### **Recreation Park Access Road, Columbia, CT**

Provided survey and stakeout services related to the design and field layout of a new roadway at the Columbia recreation Park on Hennequin Drive. Additional services provided by B&L include preliminary design, final design, and coordination with utilities (Eversource Energy).

#### **Municipal Center Pedestrian Pathway, Tolland, CT**

Provided survey and basemapping services for the design and construction of a paved pathway connecting the Hicks Memorial Municipal Center and Library, the Tolland Intermediate School, the Tolland Recreation Center, and the Parker School Building (which is currently being transformed into 37-units of affordable housing for elderly residents).

#### **Car Wash Site Development, Glastonbury, CT**

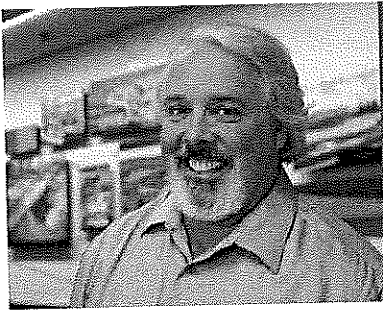
Provided survey services for the development of a car wash on Oak Street in Glastonbury. Survey services included records research and field work necessary to perform a Class A-2 and T-2 survey.

#### **20-Foot Span Culvert Replacements (4), Lebanon, CT**

Provided survey phase services for the Town of Lebanon on the replacement of four under 20-foot span culverts – Olenick Road Bridge, Card Street Bridge, Bender Road Bridge, and Church Road Bridge. Additional services performed by B&L include full-time inspection services.

#### **Moorlands Stair Replacement, Windsor, CT**

Provided data collection and field investigation services for the replacement of approximately 100' of bituminous concrete sidewalk, stairs, and appurtenances at a walkway from the intersection of Lennox Avenue/Kellogg Street to the Moorlands.



## **D. Scott Atkin, LEP • Senior Associate**

34 years of experience

BS, Civil Engineering

Licensed Environmental Professional  
(LEP - CT)

satkin@bartonandloguidice.com

### **Summary**

Mr. Atkin is a Senior Associate and Environmental Project Manager with over three decades of environmental engineering and consulting experience throughout Connecticut, Massachusetts, and New York. He has worked on a wide variety of environmental projects, including permitting, investigation, remediation design and oversight, stormwater, regulatory compliance, and monitoring. Mr. Atkin is particularly familiar with Connecticut regulations and practices, including DOT task-based contaminated soil/groundwater scopes. He has been called in on several construction projects when contamination has been encountered to assess the situation, provide direction, characterize and properly manage the contaminated materials in a timely manner so that the construction can proceed as quickly as possible. As a Connecticut DEEP Licensed Environmental Professional (LEP), Mr. Atkin has been delegated the authority for the inspection, assessment, and remediation of known and suspected to be contaminated properties in accordance with Connecticut's Remediation Standard Regulations (RSRs).

### **Project Experience**

#### **Waterford Department of Public Works, Waterford, CT**

Environmental Project Manager responsible for the investigation and remediation of the DPW Facility, which is located on a hazardous waste site. The scope of services included investigating the soil and groundwater impacts from the former textile dyeing facility regulated under the EPA's CERCLA regulations, approximately 35 years of on-site DPW operations, the police shooting range, and the school bus lot. Upon completion of the investigation, we worked with Town staff to secure all local approvals and funding for the remediation project concurrent with the construction of a new transfer station behind the DPW building. Designed remedial actions including soil excavation, construction dewatering water management and permitting, and an engineered control (EC) that including capping contaminated soils beneath the bus lot in place with a geomembrane cover, clean fill, and fresh asphalt. Developed plans, specifications, and contract bid documents for the construction activities. Supervised on-site remediation activities, including collecting and evaluating confirmatory soil samples from excavations, overseeing the WSAs, preparing and signing waste shipping

logs, and evaluating hazardous waste disposal facilities for the lead-impacted soils from the shooting range.

#### **Property Map and GIS Project, Alton, NH**

Officer in Charge and Practice Area Leader for GIS services for the Town of Alton. Services provided to the Town include the seamless integration and management of existing and new geospatial information; GIS needs assessments, budgeting, and prioritization; and collection and portrayal of geospatial information (including public utility features and tree canopy, along with related analyses and geostatistics). The Town's existing property tax maps and existing geospatial information were produced in the 1970s and updated by hand over the last 40+ years, along with annual maintenance of the updated files. B&L will be establishing a new digital parcel shapefile, along with parcel identification numbers, in order to provide a GIS base layer for property information distribution. There are approximately 5,800 parcels in Alton, and the Town occupies land of approximately 64 square miles.

#### **Continual Stormwater Compliance Services, Public Works Facility, Lebanon, CT**

Practice area leader responsible for environmental compliance services associated with the Town's Public Works Facility's registration under the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activities (Industrial Stormwater GP). B&L provides quarterly stormwater visual monitoring, monthly stormwater inspections, semi-annual CSCE inspections, and annual stormwater training for the Town's Public Works Facility located at 937 Trumbull Highway.

#### **Windham High School Construction Stormwater Inspection Services, Windham, CT**

Officer in charge and practice area lead for plan review, certification, and stormwater site inspection services for the renovation of the Windham High School. The existing school consists of a single and two-story masonry building of approximately 222,000 square feet on a parcel of land that is roughly 42 acres. The school continues to be utilized during the course of renovation and construction and houses approximately 800 students.



## **TJ Therriault, EIT, CDT • Senior Project Manager**

17 years of experience

Engineer in Training (EIT - CT)

BS. Environmental Engineering

Construction Documents Technologist

[tjt@bartonandloguidice.com](mailto:tjt@bartonandloguidice.com)

### **Summary**

Mr. Therriault is a Senior Project Manager with over 17 years of civil and environmental engineering, construction monitoring and management, and environmental consulting experience throughout Connecticut, Massachusetts, and Florida. Mr. Therriault is responsible for a large number of projects in the Environmental Department and is the supervisor for the environmental scientists in the environmental department. Mr. Therriault also coordinates staffing resources for the environmental department. Throughout his professional career, he has worked in all areas of the consulting field, including construction monitoring and facility compliance audits at a variety of solid waste facilities. His experience also includes local and state permitting for solid waste facilities, groundwater discharge permitting, stormwater management and permitting, facility operation and management plans, water quality monitoring programs, landfill gas (LFG) investigations and monitoring programs, LFG wellfield operations and regulatory compliance, and feasibility studies. His projects focus on practical applications of his technical and regulatory knowledge. As a Construction Documents Technologist (CDT), Mr. Therriault has a comprehensive knowledge of the writing and management of construction documents and demonstrates knowledge of general conditions of contracts in common use and the Construction Specifications Institute (CSI) recommended procedures for project manual organization.

### **Project Experience**

#### **Construction Stormwater General Permit Implementation, So. Windsor, Stonington, West Haven, Fairfield, and Woodbury, CT**

Project Engineer and Project Manager responsible for conducting program implementation inspections and periodic routine inspections. Coordinated staffing for conducting inspections and monthly monitoring activities. Provided technical review of erosion and sediment control measures for compliance with the DEEP's General Permit. Provided technical review of inspection reports and stormwater monitoring reports. Coordinated communication efforts with the general contractor and the towns' representatives.

#### **Municipal Separate Storm Sewer (MS4) Program Implementation, Various Municipalities, CT**

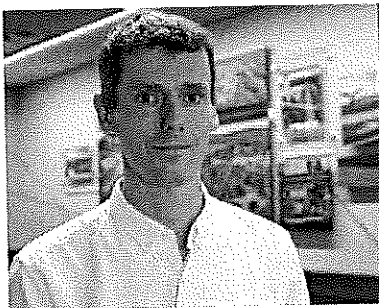
Environmental Project Engineer and Project Manager responsible for assisting with the implementation of the MS4 General Permit for several municipalities throughout CT. Compiled stormwater management plans and filed applications for registration for the MS4 General Permit. Assisted with the identification and mapping of outfalls throughout the municipalities. Assisted in coordinating and conducting in-stream and outfall screening and sampling events. Coordinated efforts with the municipalities and compiled all necessary documentation for the submission of the annual reports to the DEEP. Provided a program evaluation, summary table, narrative report, and summary of proposed stormwater management plan modifications, which were incorporated into the annual reports. Assisted in implementation of the Illicit Discharge Detection and Elimination (IDDE) Protocol for identifying and eliminating illicit discharges to the municipality's MS4. Created and implemented MS4 training programs. Consulted with the municipalities and the DEEP to gain a comprehensive understanding of the MS4 General Permit.

#### **New London Transfer Station and Public Works Facility New London, CT**

Environmental Engineer for services associated with the City of New London's Transfer Station and Public Works Facility. Services are related to the CTDEEP Industrial Stormwater General Permit. Services provided include compliance audits, semi-annual inspections in accordance with the SWPPP and the Industrial Stormwater GP, and annual stormwater training for staff members on the facility's SWPPP components, including goals of the Industrial Stormwater GP, good housekeeping activities, spill response procedures, and stormwater management.

#### **North Haven Transfer Station and Recycling Center North Haven, CT**

Project Manager responsible for providing solid waste compliance services associated with the current CTDEEP Municipal Transfer Station GP. Services provided to the Town of North Haven's Transfer Station and Recycling Center include annual solid waste general compliance audit in accordance with the Municipal Transfer Station GP.



## **Kevin Grindle, ASLA, PLA • Associate**

22 years of experience

BS, Landscape Architecture

[kgrindle@bartonandloguidice.com](mailto:kgrindle@bartonandloguidice.com)

Professional Landscape Architect (CT)

Member, American Society of Landscape Architects (ASLA)

### **Summary**

Mr. Grindle is an Associate and Landscape Architect with over two decades of experience involved in and responsible for privately and publicly funded projects throughout the State of Connecticut. These projects include numerous landscape architecture, feasibility/planning, site development, building rehabilitation and construction projects.

Mr. Grindle's responsibilities have included preliminary site investigations, preparation of design plans, cost estimates, regulatory permit applications and contract documents, construction administration and the coordination with clients, engineers, contractors and sub-consultants. Mr. Grindle has represented clients before numerous regulatory boards, commissions, town meetings and public outreach sessions.

### **Project Experience**

#### **Jarvis Street Sidewalk Extension, Cheshire, CT**

Project Manager responsible for the Jarvis Street Sidewalk Extension Project. This project includes design consulting services, field survey, field location, final design plan and coordination in support of the grant funding source (Community Connectivity Grant) for sidewalks along the northerly side of Jarvis Street (from the Farmington Canal Linear Trail) to Lancaster Way, and from Lancaster Way to Guinevere Ridge.

#### **Airline Trail Linear Park, East Hampton, CT**

Project Manager and Landscape Architect for the site evaluation and preliminary design for converting over 3 miles of abandoned rail road bed into a linear park trail, and developing a trail connection through East Hampton's commercial downtown district. The project incorporated working with Town staff to evaluate the existing trail conditions, generate a preliminary design and cost estimate for the improvement of the trail bed up to nationally recognized trail standards and assist the Town with preparing an application to the CTDEEP Recreation Trails Program to receive federal highway funding in the 2013 grant round. This project was selected to receive \$400,000 of federal funding and moved into final design and construction in the 2015 construction season. This trail is

located within the Airline South trail corridor and will become an instrumental connection within the State of Connecticut's recreational trails program along with being located within the East Coast Greenway corridor.

#### **Bicycle and Pedestrian Improvements, Town Green Colchester, CT**

Project Manager to provide bicycle and pedestrian improvements on the Colchester Town Green. This project includes the administration of CCD funds in the amount of nearly \$400,000. The current pathway is a stone path which is not accessible during the winter months and can be muddy and uneven during other months of the year. Improvements will include an ADA-compliant flexi-pave pathway which will retain the rustic look of the original stone pathway, thus retaining the historic nature of the Town Green.

#### **Naugatuck River Greenway, Torrington, CT**

Project Manager for the development of a 2.6 mile section of the Naugatuck River Greenway (from Franklin Street to the Southern border of the City). The trail was constructed along USACE flood control levees through downtown Torrington. Special consideration was taken to ensure the project would not impact the integrity of the existing USACE levees and would be sensitive to surrounding existing neighborhoods.

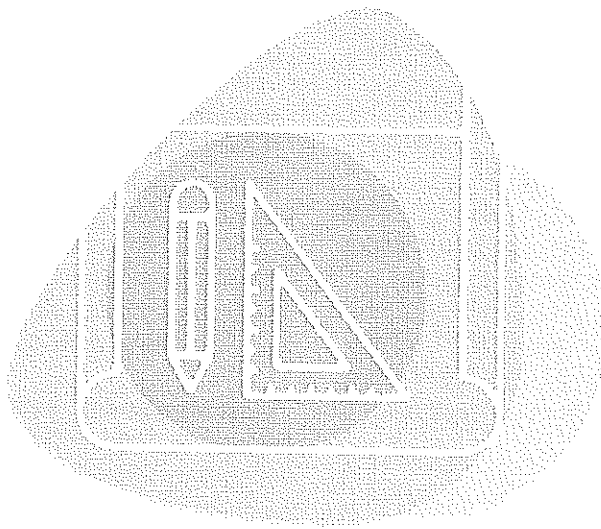
#### **West Main Street Streetscape Improvements, Cheshire, CT**

Project Manager and Landscape Architect for the West Main Street Streetscape Improvement Project in Cheshire Connecticut. This project has just recently begun construction. Mr. Grindle provided Construction Inspection Assistance, assisted with design plans and construction documents, coordinated with CTDOT and utility companies, worked closely with Town Staff and local land-use agencies to facilitate streetscape improvements which included handicap accessible sidewalks, driveway apron reconstruction, retaining wall conceptual design, landscape planning, utility relocation and easement acquisition for both residential and commercial properties.

# Section 5

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## Project Approach



### **Town of Waterford**

On Call Civil Engineering and Surveying Services

# Project Approach

## Approach to Services

B&L anticipates daily, or near daily, contact between the client manager and project manager for any project that may arise should B&L be selected as the Town's on-call consultant. Project managers from all specialties housed in our firm meet each Monday or more frequently if necessary to maintain responsiveness and coordination of efforts.

The following steps outline the overall approach that B&L will implement for assignments for each specific project that arises.

### Step 1

A representative from the Town of Waterford will initiate an on-call assignment to B&L's client manager (Matthew Brown, P.E.)

### Step 2

B&L's client manager will identify the consulting project manager and team for the specific assignment.

### Step 3

A clearly defined scope of services with project work plan, schedule, and budget will be forwarded to the Town. B&L's client manager will review and approve estimated hours of services, schedule, and budget prior to presentation of these items to the Town.

### Step 4

Any issues or conflicts with the work plan, schedule, or budget that arise will be resolved with the Town.

### Step 5

B&L's project team will undertake the investigation phase of the project.

### Step 6

Any issues or conflicts that arise during the investigation phase will be resolved with the Town directly.

### Step 7

As appropriate, B&L's project team will undertake the alternatives evaluation phase of an assigned project. B&L will also undertake internal review (QA/QC) at this stage, if and when necessary.

### Step 8

B&L's project manager will present any and all alternatives and recommendations to the Town.

### Step 9

Preliminary design (and subsequent milestone submittals such as semi-final, 60% complete, 90% complete, etc. as needed) will be undertaken. B&L will also undertake internal review (QA/QC) at this stage.

### Step 10

B&L's preliminary design will be presented to the Town and to any and all other regulatory agencies and interested parties as may be appropriate.

### Step 11

Any comments (and those of regulatory agencies, as applicable) from the Town will be incorporated into B&L's design. B&L will perform an internal review of the comments and proposed responses at this stage.

### Step 12

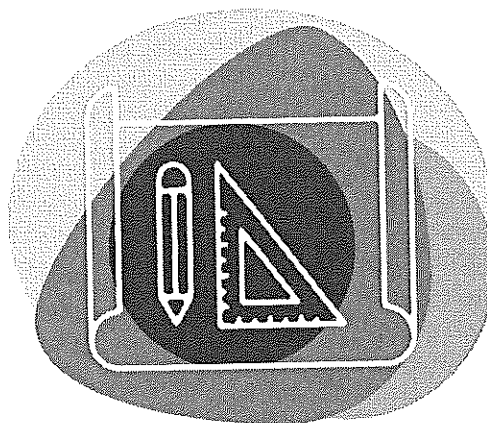
More complex projects may contain more than one milestone submittal or unique phasing of the regulatory submittals. Assignment-specific scopes of work will detail milestone submittals and the stage of submittal to regulatory or jurisdictional governments. B&L will undertake internal review (QA/QC) at these stages.

### Step 13

At the appropriate stage and when required or desired by the Town, B&L will present the project publicly at hearing(s) or informational meeting(s), or will be available to assist the Town in this effort if requested.

### Step 14

Prior to certification of the work product deliverables, B&L will conduct a final QA/QC of the work product. B&L will prepare the agreed-to number of final work product deliverables to the Town.



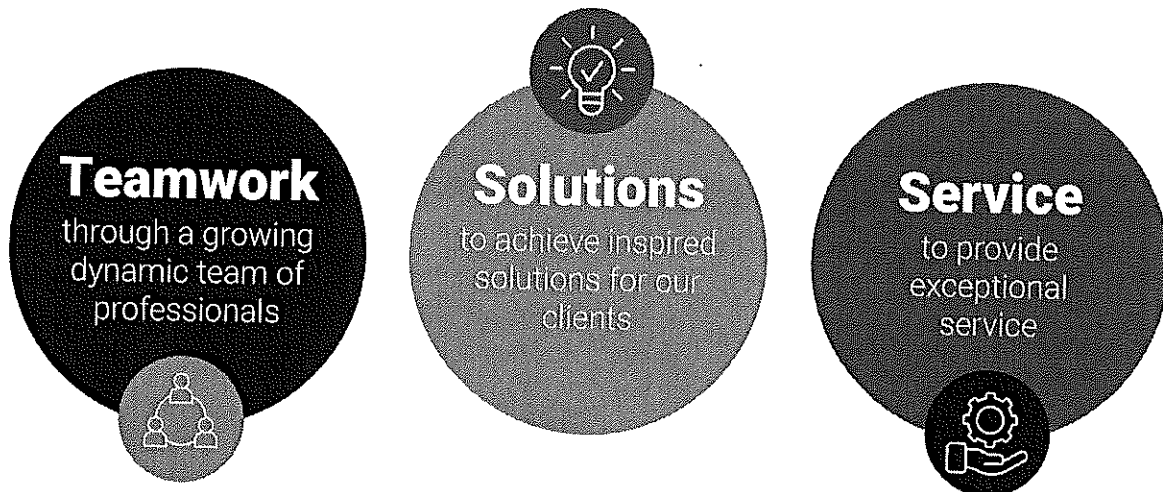
# Project Approach

## Supplemental Steps

If it becomes apparent at any point during the implementation of an assignment that services not anticipated by the scope of services as agreed to are necessary, the project manager and client manager will discuss the nature, scope, and magnitude of any additional services, and will provide the background and nature of these services to the Town.

## How we work together

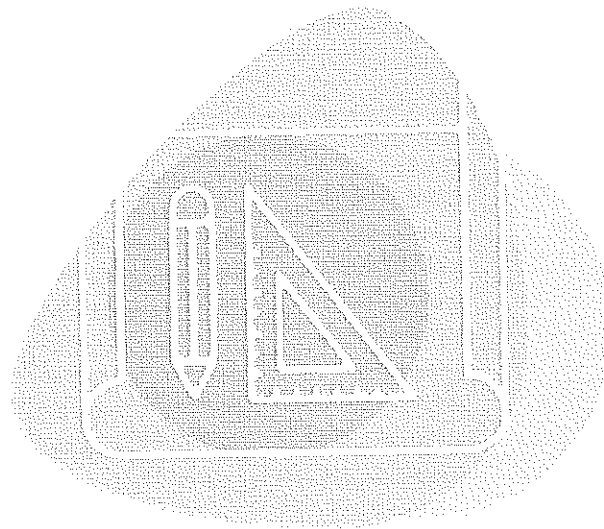
B&L accomplishes any assigned project by maintaining open lines of communication between all team members and subcontractors. Our team members have close working relationships with our in-house staff across all specialties, as well as with our subcontractors. Many of our team members have decades of experience in offering services in line with what the Town is seeking, and we're certain that our years of experience working with the Town of Waterford combined with our dedication to client satisfaction will create great synergy for any on-call projects assigned to us.



## **Section 6**

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# Hourly Rates and Required Forms



**Town of Waterford**

On Call Civil Engineering and Surveying Services

**Barton  
& Loguidice**

Barton & Loguidice, LLC  
2022 Hourly Rates

Travel - by common carrier.....at cost  
Travel - by passenger vehicles\* ..... IRS published rate for current year  
Subsistence (when overnight away from home office) .....at cost  
Telephone, outside printing, postage, etc. ....at cost  
In-house printing ..... Billing rate schedule for printed material  
Sampling - equip. Rental ..... Expendables billing rate schedule for sampling services  
Outside contracted services ..... Cost plus 10%

INDIVIDUAL PRINCIPALS AND TECHNICAL EMPLOYEES AT THE FOLLOWING HOURLY RATES:

| Title                                | Rate     |
|--------------------------------------|----------|
| Senior Vice President                | \$195.00 |
| Senior Associate                     | \$183.00 |
| Vice President                       | \$183.00 |
| Chief Engineer                       | \$156.00 |
| Lead Engineer                        | \$156.00 |
| Managing Engineer                    | \$156.00 |
| Senior Managing Engineer             | \$156.00 |
| Senior Project Manager               | \$156.00 |
| Senior Managing Landscape Architect  | \$156.00 |
| Senior Managing Engineer             | \$156.00 |
| Lead Environmental Scientist         | \$140.00 |
| Managing Hydrogeologist              | \$140.00 |
| Project Engineer                     | \$126.00 |
| Engineer II                          | \$114.00 |
| Senior Land Surveyor                 | \$114.00 |
| Senior Staff Engineer                | \$114.00 |
| Senior Staff Environmental Scientist | \$114.00 |
| Crew Chief                           | \$107.00 |
| Staff Environmental Scientist        | \$82.00  |
| Senior Project Accountant            | \$82.00  |
| Senior Marketing Specialist          | \$82.00  |
| Office Administrator                 | \$82.00  |
| Environmental Scientist II           | \$72.00  |
| Instrument Operator                  | \$72.00  |
| Two-Person Survey Crew               | \$160.00 |

\*Approved IRS mileage rate in effect at time of billing \*\* Does not include operator

NOTE:

For initial 2-year contract period, rates subject to 4% increase on January 1 of each calendar year. Contract extension rates to be negotiated at the time of extension.

**Barton  
& Loguidice**

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2896

**COMPLETE AND RETURN**

**Bid #:** 22-113

**Bid TITLE:** Request for Qualifications  
On-Call Civil Engineering and  
Surveyor Services

**NON-CONFLICT AFFIDAVIT OF RESPONDENTS**

No Elected or Appointed Official, SBC member or other officer or employee or person whose salary is payable in whole or in part from the Town of Waterford, nor any immediate family member thereof, is directly or indirectly interested in the Bid/Proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any profits thereof.

The undersigned further certifies that this statement is executed for the purpose of inducing the Town of Waterford to consider the statement of qualifications submitted herein.

State of Connecticut S.S. Glastonbury  
County of Hartford

Subscribed and sworn before me this 22nd day of February, 2022.

Legal Name of Respondent: Mark Zessin, P.E.

Business Name: Barton & Loquidice, LLC  
Business Address: 41 Sequin Drive  
Glastonbury, CT 06033

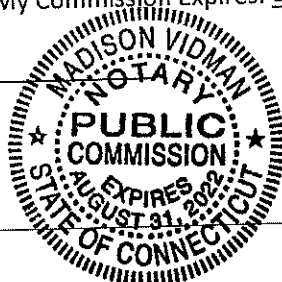
Mark M. Zessin

**Signature** and Title of Person Mark Zessin, P.E., Senior Vice President

By: [Signature]  
Madison Vidman

My Commission Expires: 8/31/2022

Notary Public Date: \_\_\_\_\_



**COMPLETE AND RETURN**

**BID #:** 22-113

**BID TITLE:** Request for Qualifications  
On-Call Civil Engineering and  
Surveyor Services

**NON-COLLUSIVE BID STATEMENT**

The undersigned bidder, having fully informed itself regarding the accuracy of the statements herein, certifies that:

(1) The Proposal has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor or bidder of materials, supplies, equipment, or services described in the RFP, designed to limit independent bidding or completion, and

(2) The contents of the Proposal have not been communicated by the bidder or its employees or agents to any person not any employee or agent of the bidder or its surety on any bonds furnished with the Proposal and will not be communicated to any such person prior to the official opening of the Proposal.

The undersigned bidder further certifies that this statement is executed for the purposes of inducing the Town of Waterford to consider the Proposal and make an award in accordance therewith.

Barton & Loguidice, LLC

Legal Name of Bidder

41 Sequin Drive

Glastonbury, CT 06033

Business Address

Mark M. Zessin

Signature and Title of Person

Authorized to Sign Mark Zessin, P.E., Senior Vice President

Mark Zessin, P.E.

Printed Name

2/22/2022

Date

## AFFIRMATIVE ACTION STATEMENT

NOTE: IF YOUR COMPANY HAS LESS THAN 10 EMPLOYEES, OR HAS COMPLETED THIS SAME FORM WITHIN 1 YEAR, YOU MAY DISREGARD THE FOLLOWING EQUAL EMPLOYMENT/AFFIRMATIVE ACTION SECTION, EXCEPT AS NOTED.

OR: (1) The number of employees \_\_\_\_

(2) Completed this form within one year \_Yes\_\_\_ No

FOR SEALED BIDS: If your company has completed this form within one year please forward a photocopy of the initial form with your Proposal. If significant changes have taken place within the past year, please update the information on this form.

REQUIREMENT Any vendor/bidder seeking to do business with the Town of Waterford must, upon request, supply the Town with any information concerning the Affirmative Action/Equal Employment practices of the vendor/bidder, which the Town and/or Commission deems necessary in fulfilling its charge. Failure to supply such information, when requested, will result in the termination of any further transactions between the vendor/bidder and the Town of Waterford.

### COMPANY NAME AND ADDRESS

Barton & Loquidice, LLC 41 Sequin Drive Glastonbury, CT 06033

### TYPE OF BUSINESS

Consulting Engineering and Land Surveying

### TYPE OF ORGANIZATION

\_\_\_\_ Corporation \_\_\_\_ Partnership \_\_\_\_ Individual X LLC

If unit filing this application is not the above-named company, give the name, address and telephone number of reporting unit. (Branch, agent, representative)

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### AFFIRMATIVE ACTION/EQUAL EMPLOYMENT ACTIVITIES

Please indicate the name and address of the company official(s) responsible for carrying out the Equal Employment Opportunity/Affirmative Action Program for your company.

\_\_\_\_\_  
Andrea Drapeau • 443 Electronics Parkway, Liverpool, NY 13088  
\_\_\_\_\_

If your company does not have a written affirmative action plan, please estimate the number of vacancies during the next 12 months, and indicate the numerical or percentage goals you have set for the employment of minority people and females to make your labor force reflective of the labor market in which you operate.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Barton & Loguidice, LLC

Legal Name of Bidder

41 Sequin Drive

Glastonbury, CT 06033

Business Address

Mark M. Zessin

Signature and Title of Person

Authorized to Sign Mark Zessin, P.E., Senior Vice President

Mark Zessin, P.E.

Printed Name

2/22/2022

Date

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

**Town of Waterford  
Board of Selectmen  
Request for Qualifications On-Call Civil Engineering and Surveyor Services  
RFQ #22-113**

The Purchasing Agent will accept sealed proposals for the services of one or more firms to provide On-Call Engineering and Surveyor Services, until **11:00 A.M. on Thursday February 24, 2022 at 15 Rope Ferry Road Waterford, CT 06385**, where they will be opened publicly and read aloud in the Louise Appleby Room.

Vendors are asked to register and obtain all information on the Town of Waterford website at <http://www.waterfordct.org> Any questions regarding this proposal shall to be directed to the Purchasing Agent at [rdummett@waterfordct.org](mailto:rdummett@waterfordct.org).

The Board of Selectmen reserves the right to reject any or all bids, in whole or in part, and to waive any informality in any bid when such action is deemed in the best interest of the Town; their decision is final.

Rawle Dummett  
Purchasing Agent

### Summary:

The Town of Waterford is seeking the services of one or more firms to provide On-Call Engineering and Surveyor Services. **The selected firm will provide ongoing services to all Town departments on an as-needed basis for a two-year term, with the option to extend the contract for an additional three years upon agreement by both parties.** The On-Call Services contract will be managed by the Department of Public Works, however specialized projects will be coordinated by the Town Department requesting assistance. Responses are due back February 10, 2022 at 11:00 am.

### Information and Requirements:

The Town requests general on-call engineering and surveying services for projects on an as-needed basis. Projects may include but are not limited to:

- Perform surveys in the field and develop existing conditions plans showing facilities including buildings, parks, parking lots, roads, drainage, underground or overhead utilities, topography, or other facilities as directed.
- Determine locations of property lines, boundaries, easements and rights-of-way.
- Perform research of land records or other sources as needed to determine boundaries.
- Locate, establish and adjust benchmarks.
- Assist the Town in the early stages of project development, including developing project alternatives and providing analysis and recommendations to develop scopes of work.
- Prepare engineering designs, details, calculations, plans and specifications for civil engineering projects.
- Prepare estimates of probable cost.
- Assist the Town in identifying, preparing, submitting and managing local, State, and Federal permits.
- Assist the Town in the bidding and construction stages for projects, including development of project specifications, attending pre-bid meetings, answering Requests for Information, making recommendations concerning bid awards, attending pre-construction meetings, reviewing shop drawings and assisting with project management during the construction phase.
- Provide surveys and engineering plans in PDF and CAD formats as directed by the Town.

- Provide the Town with all project calculations, supporting information, photographs, correspondence or other materials associated with project development.

### **Minimum Qualifications**

Respondents will demonstrate significant experience in assisting municipal sector clients with on-call engineering and surveying services, including the general services listed in this Request for Qualifications. Key personnel assigned to the project will have the necessary technical training, experience and licensing in the State of Connecticut to provide expert services to the Town.

### **Compensation**

Waterford's surveying and engineering projects are funded through multiple departments and funding sources. The Consultant will provide a written estimate to the Town Department requesting services and receive written approval to proceed with a project from the appropriate Department Head prior to the start of work.

### **Selection Process**

Submissions will be reviewed by an internal team that includes representatives from the Department of Public Works, Utilities Commission, and Planning Department. A shortlist and interview process may take place following a review of the submissions. However, the Town reserves the right to select a Consultant based solely upon the review of submissions. It is anticipated a shortlist or selection will take place approximately three weeks after submissions are received.

### **Submissions**

All interested firms should submit four (4) hard copies and one PDF (Flash Drive) copy of the following for review and consideration:

- Letter of Interest
- Background of Firm and Relevant Work Experience
- Understanding of Services Requested
- Organizational Overview and Resumes for Key Personnel who will work on Waterford's projects
- Hourly rates for key personnel
- A minimum of two municipal references

### Terms

The Town of Waterford reserves the right to select multiple firms to provide the required services. It is the Town's intent to make awards for the duration of two calendar years, with the option to extend the agreement up to three additional one year terms.

**INSURANCE REQUIREMENTS** - Within five days of contract award, the awarded vendor shall provide a Certificate of Insurance in accordance with the following requirements:

Contractor/Vendor will agree to maintain in force at all times during which work/services are to be performed, the following minimum limits of insurance coverage. Coverage will include the bidder and all of its agents, employees and sub-contractors and other providers of services and shall name the **Town of Waterford, its employees and agents as an Additional Insured** on a primary and non-contributory basis to the bidders Commercial General Liability and Automobile Liability policies. The insurance company(ies) must be licensed with the State of Connecticut and have a Financial Strength Rating of "A-" or higher and a Financial Size Rating of VIII or higher from A.M. Best Company.

| (Minimum Limits)                              |                                         |                   |
|-----------------------------------------------|-----------------------------------------|-------------------|
| General Liability*                            | Each Occurrence                         | \$1,000,000       |
|                                               | General Aggregate                       | \$2,000,000       |
|                                               | Products/Completed Operations Aggregate | \$2,000,000       |
| Auto Liability*                               | Combined Single Limit                   |                   |
|                                               | Each Accident                           | \$1,000,000       |
| Umbrella*                                     | Each Occurrence                         | \$1,000,000       |
| (Excess Liability)                            | Aggregate                               | \$1,000,000       |
| Professional Errors and Omissions Liability - |                                         | \$1,000,000 Limit |
| Workers' Compensation &                       | Work Comp                               | Statutory Limits  |

|                      |                          |             |
|----------------------|--------------------------|-------------|
| Employers' Liability | EL Each Accident         | \$1,000,000 |
|                      | EL Disease Each Employee | \$1,000,000 |
|                      | EL Disease Policy Limit  | \$1,000,000 |

The Town of Waterford must be named as "Additional Insured" on this policy. A Certificate of Insurance documenting the coverage listed above must be presented to The Town of Waterford prior to the commencing of any work/service. The Contractor/Vendor also agrees to provide replacement and/or renewal certificates at least 30 days prior to the expiration of each policy. If any policy is written on a "Claims Made" basis, the policy must be continually renewed for a minimum of two (2) years following the completion date of the work/service. If the claims-made policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting period for claims for two (2) years from the completion date.

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

Town of Waterford  
Board of Selectmen  
Request for Qualifications On-Call Civil Engineering and Surveyor Services  
RFQ #22-113

**PLEASE ATTACH THIS FORM TO THE FRONT YOUR SUBMISSION PACKETS.**

\_\_\_\_\_  
**VENDOR NAME AND ADDRESS**

\_\_\_\_\_  
**PRINTED NAME AND TITLE OF VENDOR'S AGENT**

\_\_\_\_\_  
**PHONE AND FACSIMILE NUMBERS, E-MAIL ADDRESS**

I \_\_\_\_\_, \_\_\_\_\_ of the  
Name Position  
above named firm hereby submit the following bid in accordance with Town of Waterford  
specifications.

\_\_\_\_\_  
**SIGNATURE**

\_\_\_\_\_  
**DATE**

Hourly Rates \$ \_\_\_\_\_

Hourly Rates \$ \_\_\_\_\_

Hourly Rates \$ \_\_\_\_\_

Hourly Rates \$ \_\_\_\_\_

FIFTEEN ROPE FERRY ROAD



WATERFORD, CT 06385-2886

**COMPLETE AND RETURN**

**Bid #:**

**Bid TITLE:**

**NON-CONFLICT AFFIDAVIT OF RESPONDENTS**

No Elected or Appointed Official, SBC member or other officer or employee or person whose salary is payable in whole or in part from the Town of Waterford, nor any immediate family member thereof, is directly or indirectly interested in the Bid/Proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any profits thereof.

The undersigned further certifies that this statement is executed for the purpose of inducing the Town of Waterford to consider the statement of qualifications submitted herein.

State of Connecticut S.S.

County of \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Legal Name of Respondent: \_\_\_\_\_

Business Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
**Signature** and Title of Person

By: \_\_\_\_\_ My Commission Expires: \_\_\_\_\_

Notary Public Date: \_\_\_\_\_

**COMPLETE AND RETURN**

**BID #:**

**BID TITLE:**

**NON-COLLUSIVE BID STATEMENT**

The undersigned bidder, having fully informed itself regarding the accuracy of the statements herein, certifies that:

(1) The Proposal has been arrived at by the bidder independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor or bidder of materials, supplies, equipment, or services described in the RFP, designed to limit independent bidding or completion, and

(2) The contents of the Proposal have not been communicated by the bidder or its employees or agents to any person not any employee or agent of the bidder or its surety on any bonds furnished with the Proposal and will not be communicated to any such person prior to the official opening of the Proposal.

The undersigned bidder further certifies that this statement is executed for the purposes of inducing the Town of Waterford to consider the Proposal and make an award in accordance therewith.

\_\_\_\_\_  
Legal Name of Bidder

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
Signature and Title of Person  
Authorized to Sign

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

## AFFIRMATIVE ACTION STATEMENT

NOTE: IF YOUR COMPANY HAS LESS THAN 10 EMPLOYEES, OR HAS COMPLETED THIS SAME FORM WITHIN 1 YEAR, YOU MAY DISREGARD THE FOLLOWING EQUAL EMPLOYMENT/AFFIRMATIVE ACTION SECTION, EXCEPT AS NOTED.

OR: (1) The number of employees \_\_\_\_

(2) Completed this form within one year \_Yes\_\_\_No

FOR SEALED BIDS: If your company has completed this form within one year please forward a photocopy of the initial form with your Proposal. If significant changes have taken place within the past year, please update the information on this form.

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### COMPANY NAME AND ADDRESS

\_\_\_\_\_

### TYPE OF BUSINESS

\_\_\_\_\_

### TYPE OF ORGANIZATION

\_\_\_\_Corporation\_\_\_\_Partnership\_\_\_\_Individual

If unit filing this application is not the above-named company, give the name, address and telephone number of reporting unit. (Branch, agent, representative)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### AFFIRMATIVE ACTION/EQUAL EMPLOYMENT ACTIVITIES