



# Bridge Construction Inspection Services

Replacement of Bunker Hill Road Bridge  
over Hop River - Bridge #04583

Prepared For:

Town of Andover, CT

RFP No: 11775.00004

February 22, 2024

February 22, 2024

Attention: The Honorable Jeffrey Maguire, First Selectman  
Town of Andover  
17 School Road  
Andover, CT 06232

SLR Project No.: 11775.00004

**RE: Replacement of Bunker Hill Road Bridge over Hop River  
Bridge #04583**

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Dear Mr. Maguire,

SLR International Corporation has assembled a highly experienced and qualified team to provide construction inspection services for the replacement of Bunker Hill Road Bridge over Hop River (Bridge #04583) in Andover. When reviewing our submittal, we ask you to consider the following:

- SLR maintains a staff of 18 construction inspectors who carry an average of over 20 years of experience. Our team of construction inspectors have all the necessary certification requirements including NICET, NETICP, ATSSA, and ACI.
- Our construction inspectors have extensive experience on bridge construction projects including municipal projects funded through the Connecticut Department of Transportation. All our construction inspectors are familiar with federal, state, and local standards and procedures.
- SLR offers a highly qualified team including Mr. Edward Scoville, PE, LS as the Construction Coordinator who has over 36 years of experience in survey, civil engineering, and construction inspection and Alan Lobaugh, NICET IV, as Chief Inspector, who has over 32 years of experience in bridge replacement on municipal and state projects. Mr. Lobaugh has served as Chief Inspector for numerous bridge projects and is currently working with the Town of Ellington on Strawberry Road Bridge No. 06141 and has recently finished Dart Hill Road Bridge No 03936 in the Town of Vernon. Mr. Michael Mansfield, LS, will be assisting as the Licensed Surveyor on this project, bringing 34 years of diverse surveying experience.
- Our firm has had success in its recent and ongoing experiences with the CT DOT District 1 MSAT projects and is very familiar with the project area.

We look forward to the Town's favorable consideration of our credentials and the opportunity to continue our working relationship with the Town of Andover on this assignment. If we can provide you with any additional information, please do not hesitate to contact us.

Regards,

**SLR International Corporation**

A handwritten signature in blue ink, appearing to read "Thomas Balskus".

**Thomas Balskus, PE**  
US Manager of Construction Engineering  
tbalskus@slrconsulting.com

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# Section 1





# Summary of Qualifications

## Firm Overview

SLR International Corporation (SLR) is a multidisciplinary consulting firm offering services in the fields of engineering, planning, landscape architecture, and environmental science. Founded over 30 years ago, we have developed a reputation for our technical innovation, striving for quality that results in design excellence. The full range of in-house design disciplines and the capabilities of our highly experienced staff enable the firm to undertake a wide spectrum of projects, meeting complex program requirements, and achieving challenging schedules. We support our communities through all project stages - from the design concept to permitting to construction.



In the US, SLR has over 500 employees located in 41 offices that are strategically located to best serve our clients. SLR is one of the largest civil engineering consulting firms in Connecticut offering consulting services in the fields of civil, structural, and water resource engineering; transportation engineering; environmental science; survey; landscape architecture; land use planning; and construction inspection. The size of the firm enables us to provide a wide range of technical capabilities and, at the same time, allows senior personnel to be intimately involved in each project we undertake.

## Firm Capabilities

Over the firm's history, we have developed a service portfolio that allows us to meet the needs of our client set from project feasibility through construction.

### CONSTRUCTION ADMINISTRATION & INSPECTION SERVICES

SLR provides construction support services that are an invaluable asset to our major design disciplines, providing the expertise of qualified professionals and field technicians in construction administration and inspection. Members of the team are certified by NICET (National Institute for Certification in Engineering Technologies), the American Traffic Safety Services Association (ATSSA), and the New England Transportation Technician Certification Program (NETTCP). Our construction phase services include bidding assistance, periodic site observations, resident engineering, project closeout, and review of contract submittals and payment requisitions. All of our inspectors are capable of bookkeeping to State and Federal standards. Our construction personnel are familiar with the Connecticut Department of Transportation policies and procedures.

Project undertaken by our construction inspection personnel include:

- Vernon Avenue Bridge over the Hockanum River - Vernon, CT
- Phoenix Street Bridge Replacement - Vernon, CT
- Skiff Street Pedestrian Underpass - Hamden, CT
- Farmington Canal Greenway - Hamden, CT
- Farmington River Trail - Burlington/Canton, CT
- Blacks Road Bridge over Honeypot Brook - Cheshire, CT
- Strickland Road Bridge - Middlefield, CT



- Pleasantview Drive Bridge Replacement - Vernon, CT
- River Road Bridge over Pomperaug River - Southbury, CT
- Folly Road Bridge - Coventry, CT
- Brian Dennehy Bridge - Derby, CT
- Lane Street Bridge - Shelton, CT
- Judd's Road Bridge over the Shepaug River - Roxbury, CT
- Smokey Hollow Road Bridge - Morris, CT
- Substructure Concrete Repair of 6 Bridges - Griswold, Lisbon, Montville, Norwich, Old Lyme, & Preston, CT
- Dart Hill Road Bridge - Vernon, CT
- Folley Lane Bridge - Coventry, CT
- Nonnewaug Road Bridge - Bethlehem, CT
- U.S. Route 7 & Route 8 Bridge Rehabilitation - Litchfield/Harwinton, Salisbury/Canaan, CT
- U.S. 7 Bridge over CL&P Penstocks Bridge Replacement - New Milford, CT
- Rehabilitation of Bridge No. 005481 & I-84 TR 803 over I-84 Westbound, US Route 7 Northbound & Beaver Brook - Danbury, CT



**Pleasantview Drive Bridge Construction**

### Construction Inspection Projects with CTDOT MSAT in District 1:

| State Project No. 1 | Location      | Project Cost | Date of Service |
|---------------------|---------------|--------------|-----------------|
| 25-135              | Cheshire      | \$2,700,000  | 2015            |
| 47-120              | Ellington     | \$2,000,000  | 2023            |
| 63-569              | Hartford      | \$4,000,000  | 2006            |
| 63-656              | Hartford      | \$400,000    | 2013            |
| 76-213              | Manchester    | \$2,300,000  | 2010            |
| 81-85               | Middlefield   | \$350,000    | 2002            |
| 82-311              | Middletown    | \$600,000    | 2019            |
| 93-169              | Newington     | \$550,000    | 2010            |
| 131-193             | Southington   | \$1,500,000  | 2010            |
| 132-128             | South Windsor | \$875,000    | 2010            |
| 146-177             | Vernon        | \$1,200,000  | 2008            |
| 146-181             | Vernon        | \$1,130,000  | 2011            |
| 146-197             | Vernon        | \$650,000    | 2021            |
| 146-200             | Vernon        | \$1,400,000  | 2018            |
| 164-240             | Windsor       | \$1,000,000  | 2023            |



## Project Team

The Project Team will be led by **Mr. Thomas Balskus, PE**, as the Technical Advisor. Mr. Balskus is the US Manager of Construction Engineering. He has over 29 years of civil and construction engineering expertise, with a wide range of work experience. Project experience includes drainage systems, stormwater management, highways, sanitary sewers, and dam/spillways. He provides construction inspection and administration services, as well as feasibility, and project coordination on state and federally funded projects. His experience includes:

- Replacement of the Phoenix Street Bridge - Vernon, CT
- River Road Bridge over Pomperaug River - Southbury, CT
- Vineyard Road Bridge over Burlington Brook - Burlington, CT
- Rehabilitation of Bridge #00548 - Danbury, CT
- Skiff Street Pedestrian Underpass - Hamden, CT
- Farmington Canal Greenway, Phase IIA - Hamden, CT
- Farmington Canal Greenway, Phase IIB - Hamden, CT
- Farmington Canal Greenway Phase III - Hamden, CT
- Farmington River Trail - Canton and Burlington, CT
- Substructure Concrete Repairs of 6 Bridges - Griswold, Lisbon, Montville, Norwich, Old Lyme, & Preston, CT
- Rehabilitation of Bridge No. 00609, U.S. Route 8 over Naugatuck River - Litchfield & Harwinton, CT
- Rehabilitation of Bridge No. 00562, U.S. Route 7 over Housatonic River - Salisbury & Canaan, CT
- Minor Road Bridge over Shepaug River - Roxbury, CT



**Substructure Concrete Repair of Griswold Bridge**

**Mr. Edward Scoville, PE, LS**, will serve as Construction Coordinator. Mr. Scoville has over 30 years of survey, design, and construction experience with a specific focus on bridges and roadways, utility, and in water work. As a Construction Coordinator, Mr. Scoville has worked on numerous Municipal Projects funded by CT DOT in every district in the State of Connecticut and has extensive experience in CT DOT's record keeping and paperwork process from Construction Orders through closeout documents. Mr. Scoville has worked on multiple municipal projects in District 1 and is very familiar with the MSAT Team. His experience with SLR Includes:

- Preservation of Bridge Nos. 05061, 05062, & 05067 (CTDOT Project No. 168-161) - Woodbury, CT
- Wood Creek Road Bridge over Weekepeemee River and Magnolia Hill Road Bridge over East Spring Brook (CTDOT Project No. 10-89) - Bethlehem, CT
- Waterbury Naugatuck River Greenway (CTDOT Project No. 151-321) - Waterbury, CT
- Woolson Street Bridge Replacement, Bridge No. 04409 (SPN 9153-4409) - Watertown, CT
- Burton Road Rehabilitation (LOTICIP Project No. L006-0002) - Beacon Falls, CT
- Day Hill Road Adaptive Traffic Control Signal System (CTDOT Project No. 164-240) - Windsor, CT
- Heatherwood Drive Bridge over Camp Laurelwood Brook (CTDOT Project No. 76-136) - Madison, CT
- Rehabilitation of Patricia Terrace, Dolly Drive, and Coventry Lane - Beacon Falls, CT
- Reconstruction of Guernseytown Road (LOTICIP No. L153-0003) - Watertown, CT



**Mr. Alan Lobaugh, NICET IV**, will serve as Chief Inspector. Mr. Lobaugh is a Chief Inspector with 32 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. In Vernon, Mr. Lobaugh was the Chief Inspector for the Phoenix Street Bridge Replacement, as well as Chief Inspector for the Vernon Avenue Bridge Replacement. His experience includes:

- Vineyard Road Bridge Replacement - Burlington, CT
- Replacement of Bridge No. 00557, U.S. Route 7 over CL&P Penstocks - New Milford, CT
- Rehabilitation of Bridge No. 00609, U.S. Route 8 over Naugatuck River and Railroad - Litchfield & Harwinton, CT
- Brian Dennehy Bridge - Derby, CT
- Strickland Road Bridge - Middlefield, CT
- Pequonnock River Trail - Trumbull, CT
- Farmington Canal Greenway, Phase II - Hamden, CT
- Dublin Hill Bridge Replacement - Haddam, CT
- Pleasantview Drive Bridge Replacement - Vernon, CT
- Nonnewaug Road Bridge - Bethlehem, CT
- Dart Hill Road Bridge - Vernon, CT
- Phoenix Street Bridge - Vernon, CT



**Dublin Hill Bridge Construction**

Mr. Lobaugh will be assisted by **Mr. Eric Wilson, IV, MS, EIT**, as Construction Inspector. He has over 15 years of design and inspection experience including road, bridge, and utility projects. Mr. Wilson has specific structural experience and has inspected over 10 DOT funded projects. His experience includes:

- Rehabilitation of Smokey Hollow Road Bridge over the Bantam River (CTDOT Project No. 0086-0090) - Morris, CT
- Replacement of Marion Avenue Bridge No. 131016 (LOTICIP No. L131-0003) Southington, CT
- Substructure Concrete Repairs of 6 Bridges (CTDOT Project No. 0172-0417) - Griswold, Lisbon, Montville, Norwich, Old Lyme, and Preston, CT
- Stadium at Rentschler Field Culverts - East Hartford, CT
- River Road Bridge over the Pomperaug River (LOTICIP Project No. L130-0001) - Southbury, CT
- Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177) - Vernon, CT
- Marion Avenue Bridge over Humiston Brook - Southington CT

**Mr. Michael Mansfield, LS**, will serve as the Survey Party Chief. He brings 34 years of survey experience including roadway, bridges and culverts, drainage, river/wetlands restoration, and dam projects. Mr. Mansfield has provided survey services for several CTDOT projects, including the Vernon Avenue Bridge Rehabilitation and the Brian Dennehy Bridge. Relevant survey experience includes:

- Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177) - Vernon, CT
- River Road Bridge over the Pomperaug River (LOTICIP Project No. L130-0001) - Southbury, CT
- Brian Dennehy Bridge Replacement (CTDOT Project No. 36-173) - Derby, CT
- Blacks Road Bridge over Honeypot Brook - Cheshire, CT





## Section 2





# Replacement of Strawberry Road Bridge over Abbey Brook

## ELLINGTON, CT

### CLIENT

Town of Ellington, CT

### SERVICES

- Construction Administration and Inspection



### State Project No. 47-120 / Federal Project No. 6047(003)

SLR provided Construction Inspection services for the Replacement of the Strawberry Road Bridge over Abbey Brook, Bridge No. 06141 in Ellington, CT.

The project consisted of removing three corrugated metal culverts and concrete parapets, temporary and permanent utility relocations, water handling throughout out each stage of the proposed work, structure excavation, sheet piling, 57 Micro Piles, cast in place pile caps, cast in place wingwalls, stream channel restoration, 32' clear span three sided rigid frame precast concrete culvert, cold liquid elastomeric waterproofing membrane, reinforced shear slab,

reinforced concrete approach slabs, bridge railing, steel backed timber guiderail, drainage and road reconstruction

The project was constructed in stages and included significant water handling for the installation of the piles, wingwalls and stream channel work. A temporary detour was utilized during construction requiring coordination with schools and emergency services.

CT DOT District 1 MSAT team



provided oversight of the administration of the project and SLR performed the inspection services and record keeping in accordance with DOT's policies and procedures. The project was constructed under budget for both inspection and construction. The project was funded under the Federal Local Bridge Program and funded 100% through the program. Design services for the project were provided by a CT DOT on-call consultant.





# Bridge Replacement at Dart Hill Road over Hockanum River

## VERNON, CT

### CLIENT

Town of Vernon, CT

### SERVICES

- Survey
- Bridge Design
- Hydrologic & Hydraulic Analysis
- Environmental Permitting
- Wetland Delineation
- Construction Administration
- Construction Inspection



### LOTICIP Project No. L146-0002

SLR provided construction administration and inspection services for replacement of the Dart Hill Road bridge over Hockanum River. The existing structure was constructed in 1932 and consisted of a single 20-foot simple span with a concrete deck on cast-in-place abutments with flared wingwalls and steel pipe railing system along both fascia. A separate pedestrian bridge was located adjacent to the upstream side of the bridge that was used to connect the sidewalks on either side of the river.

The span of the new structure was increased to 40-feet which will also accommodate the watercourse. Cast in place concrete abutments support prestress deck units with a 6" shear slab cast in place. The bridge work also included rail mounted on concrete curbing, membrane waterproofing, water handling,

cofferdams, bearings, and paving. Supports for a 12" water main approach slabs, metal beam rail and end blocks were also installed. The grade of the road and alignment with Thrall Avenue were modified requiring full depth reconstruction and the installation of a new drainage system to accommodate the changes. The existing watermain was extended within the project limits and connected to the watermain on the new structure. The project required extensive utility coordination with the gas and water utilities throughout construction.

**Funding for the project was through the Connecticut Department of Transportation (CTDOT) Local**

### Transportation Capital Improvement Program (LOTICIP).

Although the project was funded under the LOTICIP program, the SLR Inspection team administered the project following the CTDOT Volume System for inspection and prepared all project correspondence, daily work reports, measured quantities for payment, prepared monthly pay requisitions, prepared construction orders, monitored utility work, conducted necessary field testing of materials, coordinated and facilitated all project meetings.

# Pleasantview Drive Bridge Replacement

VERNON, CT

## CLIENT

Town of Vernon, CT

## SERVICES

- Construction Administration & Inspection



Existing Conditions

## State Project No. 146-200 / Federal Project No. 6146(021)

SLR provided construction administration and inspection services for the replacement of Bridge No. 04576, Pleasantview Drive Bridge over the Hockanum River in Vernon, Connecticut.

The project consisted of the removal of the four existing culverts carrying the Hockanum River under Pleasantview Drive and replacement with a precast substructure and precast deck units. The roadway was closed during construction with an extensive detour. The work included temporary water handling measures, excavation of the roadway and embankments, removal and replacement of a sanitary sewer line under the stream downstream of the structure, installation of drilled shaft and pilings, installation of precast footings, abutments, and wingwalls to complete the substructure, installation of precast deck units and approach slabs, concrete placement of sidewalks and parapets, and bridge rail installation. Roadway work included roadway base installation, paving, railing installation, embankment formation and site restoration. Environmental work consisted of special handling of the removal of the existing bridge rail and fencing and possible confined space work to complete the new sanitary sewer installation.

SLR performed inspection and record-keeping in accordance with CTDOT policies and procedures. The project was funded under the Federal Local Bridge Program using the Pilot Program for 100% Design Funding.



# Waterbury Naugatuck River Greenway Phase I

## WATERBURY, CT

### CLIENT

**City of Waterbury**  
Waterbury, CT

### SERVICES

- Construction Engineering & Inspection



### State Project No. 151-132

SLR is provided Construction Engineering and Inspection Services for the City of Waterbury for the Waterbury Naugatuck River Greenway. The project was funded through the CTDOT with oversight from District 4. The project is located in the south end of Waterbury from the Naugatuck Town line north to Eagles Street paralleling the Naugatuck River. The project was constructed between the fall of 2022 and through 2023. The construction cost was approximately \$6,000,000.

The proposed work included 12,000 linear feet of multi-use trail including a 60-foot span prefabricated pedestrian bridge with concrete abutments on micro piles, 750-feet of retaining walls elevating the greenway, signal improvements, watermain extension, drainage improvements and miles of railing. As part of the project a park was

constructed at the intersection of South Main Street and Platts Mill Road. The park included 120-foot boardwalk on piles through wetlands, a precast concrete restroom facility with water, sewer and electricity, a picnic shelter, outdoor amphitheater, kayak launch into the Naugatuck River, multiple wood stairs connecting walking paths and unique park features. The park included work adjacent to a pre-European archaeological resource which required extensive coordination with State Historic Preservation Office and Archaeologist to conduct excavations and surveys prior to commencing construction activity in the vicinity.

Power and communication overhead utilities were relocated, requiring extensive coordination with each utility to ensure the project schedule was maintained and to limit the duration of the detour.



SLR provided Construction Inspection services in accordance with the CT DOT Construction Manual and Municipal Manual. Routine coordination took place between the CT DOT District 4 MSAT team and CT DOT Material Testing Laboratory. The project was constructed on schedule and under budget.



# Bridge Preservation & Replacement

BETHLEHEM, CT

## CLIENT

Town of Bethlehem, CT

## SERVICES

- Survey
- Bridge Design
- Hydraulic & Hydrologic Analysis
- Environmental Permitting
- Wetland Delineation
- Scour Analysis
- Structural & Transportation Engineering
- Public Outreach
- Construction Administration & Inspection



## State Project Nos. 10-88 & 10-89

SLR is proud to have partnered with the Town of Bethlehem to perform design and construction inspection services for the replacement of **Nonnewaug Road Bridge (SPN 10-88)** and the preservation of the **Magnolia Hill Road and Wood Creek Road Bridges (SPN 10-89)**. All three bridges were funded under the CTDOT Federal Local Bridge Program. The existing 20-foot span stone abutment and concrete deck bridge at Nonnewaug Road was built in 1934. The existing bridge was narrow and misaligned with the East Spring Brook channel resulting in scour at the abutments. In addition to replacing the bridge, the Town was also interested in modifying the existing roadway alignment to reduce the sharp s-curve and improve safety. SLR designed a 32-foot precast concrete arch on a new alignment which allowed Nonnewaug Road to remain open throughout most of the construction, a benefit to both the traveling public and the active farm operation adjacent to the bridge. With the bridge being highly visible to neighboring properties and the abutting farm being named after the existing bridge, special care was taken in selecting

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the aesthetic treatments including a stone form liner, painted bridge rail, and timber guiderail on the approaches.

**At Magnolia Hill Road and Wood Creek Road**, SLR performed hands-on inspections to identify existing deficiencies needing to be addressed under the FLBP Preservation Program. At Magnolia Hill Road, this involved repairs to the concrete deck, installation of new membrane waterproofing, reconstruction of the existing curbs and installation of new bridge rail, construction of concrete end blocks, and installation of new guiderail on the approaches to bring the existing safety features up to current standards. Early in the design process, SLR had noted insufficient drainage at the site was resulting in standing water on the bridge which was contributing to the deterioration of the bridge deck. In order to improve the longevity of the bridge repairs, the project also incorporated drainage improvements and the introduction of scuppers on the bridge itself. This site also involved extensive property owner coordination and development of specialized construction staging to accommodate the active farming operation which utilized the bridge on a daily basis.

**At Wood Creek Road**, a new waterproofing membrane was installed, the expansion bearings were replaced, and the existing steel girders sandblasted and repainted to protect against corrosion. Similar to Magnolia Hill, the curbs were reconstructed to allow for the installation of new bridge rail, new end blocks were constructed, and the approach guiderail was replaced. In addition to a hands-on inspection, SLR also coordinated concrete sampling of the deteriorated concrete of one of the existing abutments to inform the proposed repair design. The work done on these two bridges addresses existing structural and safety deficiencies and will extend their useful service life. The firm provided full-time resident inspection services for both projects, concurrently.





# Pedestrian Bridge over Harbor Brook

## MERIDEN, CT

### CLIENT

City of Meriden, CT

### SERVICES

- Survey
- Master Planning
- Civil Engineering/Site Design
- Hydrology & Hydraulics
- Environmental Assessment
- Remediation Planning
- Permitting
- Landscape Architecture
- Public Outreach
- Construction Administration & Inspection



SLR was selected by the City of Meriden to redevelop a 14-acre mall site, a critical piece of SLR's Harbor Brook Flood Control Project master plan. Design plans were developed that included daylighting the Harbor Brook channel by removing some 1,700 linear feet of concrete box culverts and constructing a naturalized channel and floodplain on this large brownfield site in downtown Meriden. The completed project serves as an urban park and provides flood storage during major rainfall events. This site has been developed in various forms since at least the mid-1800s, making removal of historic underground structures and contaminated materials a critical component of the design. Our team also designed tiered retaining walls which doubled as seating for an open-air amphitheater.

The centerpiece of the project was the design of a three-span 350-foot-long bridge that connects Pratt and State Street at the center of site. The signature pedestrian bridge celebrates the history of Meriden,

known as the Silver City. The abutments and piers are supported by piles pinned to bedrock with the piers specially designed to mimic the arch shape of the bridge. The bridge approaches consisted of extensive ramps and retaining walls to ensure ADA accessibility and to create a gathering space on each side of the bridge. A utility room containing the electrical and irrigation systems for the park were contained in a utility room concealed within the abutment and retaining walls comprising the eastern approach. Our landscape architects developed bridge treatments to reflect the rich local history of the "Silver City". Our structural engineers were involved all throughout construction and the firm performed full-time construction inspection services.



# Rehabilitation of Bridge No. 005481 & I-84 TR 803 over I-84 Westbound, US Route 7 Northbound & Beaver Brook DANBURY, CT

## CLIENT

**State of Connecticut  
Department of Transportation**

## SERVICES

- Construction Administration & Inspection



## State Project No. 34-334

SLR provided construction engineering and inspection services for the rehabilitation of Bridge 00548 in the City of Danbury, Connecticut. The work performed for this 884.75' bridge was to extend its service life. Construction activities included substructure concrete repair, demolition of existing steel, cleaning and painting of existing structural steel, lead compliance during abrasive cleaning, bearing replacement, asbestos abatement, underwater concrete repairs, and complete reconstruction of the reinforced concrete deck. SiteManager software was used for reporting and administration of the construction activities.

### Construction activities inspected include:

- Drainage installation
- Earth excavation
- Milling, membrane waterproofing, and paving
- Substructure concrete repair
- Demolition of existing steel
- Cleaning and painting of existing structural steel
- Lead compliance for abrasive blast cleaning
- Reinforcing steel
- Bridge deck replacement
- Bridge joint replacement
- Underwater concrete repair
- Membrane waterproofing
- Concrete header replacement
- Bridge bearing seat replacement
- Bridge jacking and bearing replacement
- Utility relocations
- Asbestos abatement
- Parapet replacement
- Maintenance and protection of traffic on I-84 and Route 7





# Substructure Concrete Repairs of 6 Bridges

GRISWOLD, LISBON, MONTVILLE, OLD LYME, AND PRESTON, CT

## CLIENT

**State of Connecticut  
Department of Transportation**

## SERVICES

- Construction Administration & Inspection



## State Project No. 172-417

SLR provided construction engineering and inspection services for six bridges in various towns in southeast Connecticut (Griswold, Lisbon, Montville, Norwich, Old Lyme, and Preston).

### Construction activities inspected included:

- Substructure concrete repair
- Demolition of existing steel
- Cleaning and painting of existing structural steel
- Reinforcing steel
- Bridge deck replacement
- Bridge joint replacement
- Underwater concrete repair
- Membrane waterproofing
- Concrete header replacement
- Bridge bearing seat replacement
- Bridge jacking and bearing replacement

- Coordination with Providence and Worcester Railroad and New England Central Rail
- Utility relocations
- Asbestos abatement
- Parapet replacement
- Temporary traffic signal for alternating traffic
- Maintenance and protection of traffic on I-395 and I-95

The most significant challenge for this project was covering multiple structures under a single CEI contract, as efficiently as possible.



# Heatherwood Drive over Camp Laurelwood Brook

## MADISON, CT

### CLIENT

Town of Madison, CT

### SERVICES

- Survey
- Bridge Design
- Funding Application
- Hydrologic & Hydraulic Analysis
- Scour Analysis
- Wetland Delineation
- Public Outreach



### State Project No. 75-136

SLR was retained by the Town of Madison to perform an inspection of the existing culverts at Heatherwood Drive over Camp Laurelwood Brook and preparation of the funding application for the Federal Local Bridge program. Following the acceptance of the bridge into the FLBP, SLR is providing design services for the replacement of the culvert. The design conforms to CTDOT and federal standards. The existing culvert, constructed in 1978, is comprised of three corrugated steel arch pipes roughly 6 feet wide by 3.5 feet high. The arch pipes had become heavily corroded with numerous perforations along the invert and scour up- and downstream of the culvert was undermining the pipe ends and making the

crossing impassable to aquatic species. The firm performed a visual inspection, identified existing deficiencies, evaluated potential replacement alternatives, and assisted the Town in applying for and obtaining funding through the Federal Local Bridge Program.

Services during the design phase include hydrologic, hydraulic, and scour analysis; wetland delineation; permitting; and transportation, geotechnical, and structural engineering services. SLR also conducted a public informational meeting and utility coordination. A Preliminary Engineering Report was completed considering environmental impacts and structure longevity along with construction costs, duration, and future maintenance costs. The study showed that a full

bridge replacement using a precast concrete open-bottom box was the most cost-effective solution. Bedrock was encountered at highly variable depths during the geotechnical investigation. The culvert will be supported by one spread footing on bedrock and one footing with piles. The need for piles was driven by the high level of scour identified during design. The open bottom structure will restore the natural streambed and eliminate the localized contraction scour caused by the undersized pipes. Modifications to existing drainage outfalls will improve water quality in Camp Laurelwood Brook.

The project went to construction in Spring 2022.



# Smokey Hollow Road Bridge over Bantam River

MORRIS, CT

## CLIENT

Town of Morris, CT

## SERVICES

- Construction Administration & Inspection



## State Project No. 86-90-FLBP

Contracted by the Town of Morris, SLR prepared design and construction documents for rehabilitation of the Smokey Hollow Road Bridge over Bantam River under the CTDOT Federal Local Bridge Program (FLBP). The existing bridge was an 84-foot steel superstructure comprised of twin 42-foot spans supported by cast-in-place concrete abutments and center pier. The existing bridge supported a very rural roadway with one lane in each direction. SLR was initially tasked with evaluating superstructure replacement alternatives. During the course of preliminary engineering, it was determined that the existing bridge was significantly undersized hydraulically and could not accommodate the 50-year design flood event. In addition to the flooding concern, it was also found that removal of the scour critical

center pier and conversion of the structure to a single span would overload the existing abutment founded on erodible soil.

Following the conclusion of the initial study, the Town and CTDOT requested a brief value engineering review to identify potential cost savings given that a superstructure replacement was no longer feasible. The result of that review was a hybrid approach which involved reusing the existing abutment founded on bedrock, removal of the scour critical center pier, and reconstruction of the second abutment which required replacement to accept the new superstructure loads. The new abutment was relocated, increasing the span length to 94-feet, improving the hydraulic capacity. The abutment was also founded on piles pinned to bedrock to address scour concerns. After consultation with and approval from CTDOT, the bridge was also

converted to a single lane bridge with stop controlled approaches due to an ADT well below 100. The existing 20-foot curb-to-curb superstructure width was reduced to 14-feet on the new bridge. This approach helped reduce the cost of the project and bring the overall budget in line with the initial grant amount. The superstructure consisted of metalized steel girders with a reinforced concrete deck.

In addition to design services, SLR also provided full-time construction inspection and was on the site at all times when the contractor was working. Responsibilities included:

- Observing the work in progress;
- Keeping daily inspection logs;
- Interfacing with CTDOT's District 4 construction office; and
- Interfacing with the design team



# Vineyard Road Bridge over Burlington Brook

BURLINGTON, CT

## CLIENT

Town of Burlington, CT

## SERVICES

- Construction Administration & Inspection



## State Project No. 20-106

SLR provided construction engineering and inspection services to the Town of Burlington for the replacement of the Vineyard Road Bridge over the Burlington Brook. The project included the replacement of the existing substructure with reinforced cast-in-place concrete abutments and the replacement of the superstructure with prestressed deck units. The work also included roadway reconstruction, timber guiderail, bridge rail, simulated stone masonry, and stream restoration. Due to the low traffic volume and a short detour, the road was closed during construction.

SLR provided full-time resident inspection in accordance with the CTDOT requirements. The project was funded through the Federal Local Bridge Program and construction was completed in the Fall of 2017.





# River Road Bridge over Pomperaug River (LOTICIP)

## SOUTHBURY, CT

### CLIENT

Town of Southbury, CT

### SERVICES

- Survey
- Bridge Design
- Hydraulic Analysis
- Scour Analysis
- Wetland Delineation
- Permitting
- Construction Administration & Inspection



### LOTICIP Project No. L130-0001

SLR provided design and construction engineering and inspection services to the Town of Southbury for the rehabilitation of the River Road Bridge over Pomperaug River, a 100% CTDOT-funded local project and the Naugatuck Valley Council of Governments' first LOTICIP project. The existing bridge was constructed in 1962 and is a three-span structure (48'-88'-48') with a superstructure which consisted of steel beams and a cast-in-place concrete deck. The curb-to-curb width of the bridge is 40' with a concrete safety curb and parapet with two-rail metal bridge railing. The superstructure is supported by two concrete piers, two concrete abutments, and wingwalls to retain the steep roadway slopes. The bridge is located adjacent to wetlands, and the firm also conducted survey, wetlands delineation, in-water scour inspection, and hands-on structure inspections.

As part of preliminary engineering, our design team developed three alternatives, including steel and concrete alternatives, and evaluated the potential for implementation of Accelerated Bridge Construction techniques. The project team conducted a full hydraulic analysis and scour assessment in order to confirm visual inspection reports and to aid in designing scour countermeasures.

After submitting state, local, and federal permit applications and confirming regulatory requirements, SLR performed final design services for the replacement of the existing superstructure, which included three-span continuous steel beams and precast concrete deck panels to accelerate the overall construction schedule. Given that River Road provides access to a local beach and major power generation facility, and serves as CTDOT's defined Interstate 84 emergency bypass route, the design provided for staged construction with temporary signals in order to maintain alternating one-way traffic over the bridge during construction. Our work included coordination with utility companies and we specified a temporary utility bridge for the support of suspended power and communications duct lines over the river without service interruptions. The firm provided full-time resident inspection services for this project per CTDOT requirements. Construction was substantially completed in October 2017.





# Phoenix Street Bridge Replacement

VERNON, CT

## CLIENT

Town of Vernon, CT

## SERVICES

- Construction Administration & Inspection



## State Project No. 146-177 / Federal Project No. 6146016

SLR provided construction administration and inspection services for the replacement of Bridge No. 06806, Phoenix Street Bridge over the Tankerhoosen River in Vernon, Connecticut. 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. Construction included the closing of Phoenix Street with a detour; removal of the existing bridge abutments, footings, and bridge deck; temporary relocation of water main, temporary relocation of a gas main, temporary water diversion, temporary and permanent sheeting, micro piles to support cast-in-place footings and wingwalls, 29-foot span precast concrete arch superstructure, permanent water main installation, stone masonry faced endwalls, and paving.

The firm performed inspection and record keeping in accordance with CTDOT policies and procedures. The project was funded under the Federal Local Bridge Program.



# Skiff Street Pedestrian Underpass

HAMDEN, CT

## CLIENT

Town of Hamden, CT

## SERVICES

- Construction Administration & Inspection



## State Project No. 61-148

SLR provided construction engineering and inspection services for the installation of a 14-foot by 10-foot by 105-foot-long precast concrete underpass underneath Skiff Street in the Town of Hamden. The project assignment involved a 2-week closure of Skiff Street for excavation and installation of the new pedestrian underpass while supporting active gas, water, electric, and communications lines; sidewalk improvements; cast-in-place wingwalls; signal removal and reinstallation; full depth trail construction; landscaping; and incidental work such as pavement markings and maintenance and protection of traffic. The project also included the addition of safety lighting, video surveillance, and emergency call boxes within and around the underpass. The work occurred in densely populated areas of Hamden.

SLR provided full-time construction administration and inspection services with bookkeeping being performed in accordance with state standards.



# Dublin Hill Bridge Replacement over Ponset Brook

## HADDAM, CT

### CLIENT

Town of Haddam, CT

### SERVICES

- Construction Administration & Inspection



### State Project No. 60-161 / Federal Project No. 6060(005)

SLR provided construction inspection services for the replacement of Bridge No. 04682, the Dublin Hill Road Bridge over Ponset Brook in Haddam, Connecticut.

The project consisted of the removal of the existing two-span structure carrying Dublin Hill Road over Ponset Brook and replacement with a concrete arch. The existing structure consisted of two spans, 30 & 32' with precast concrete box beams reinforced concrete slabs supported by a stone masonry pier and stone masonry abutments. Overhead utilities required temporary relocation for the project including services to adjacent properties.

The new structure is a precast concrete arch system on reinforced cast-in-place abutments founded on ledge. The span has been increased

to 84 feet. The project included cast-in-place footing and wingwalls at each corner with heights of 20' from the footing. A form liner was used to create a stone façade on all exposed sections of concrete. The overall project included new drainage, membrane waterproofing, and full depth pavement replacement.

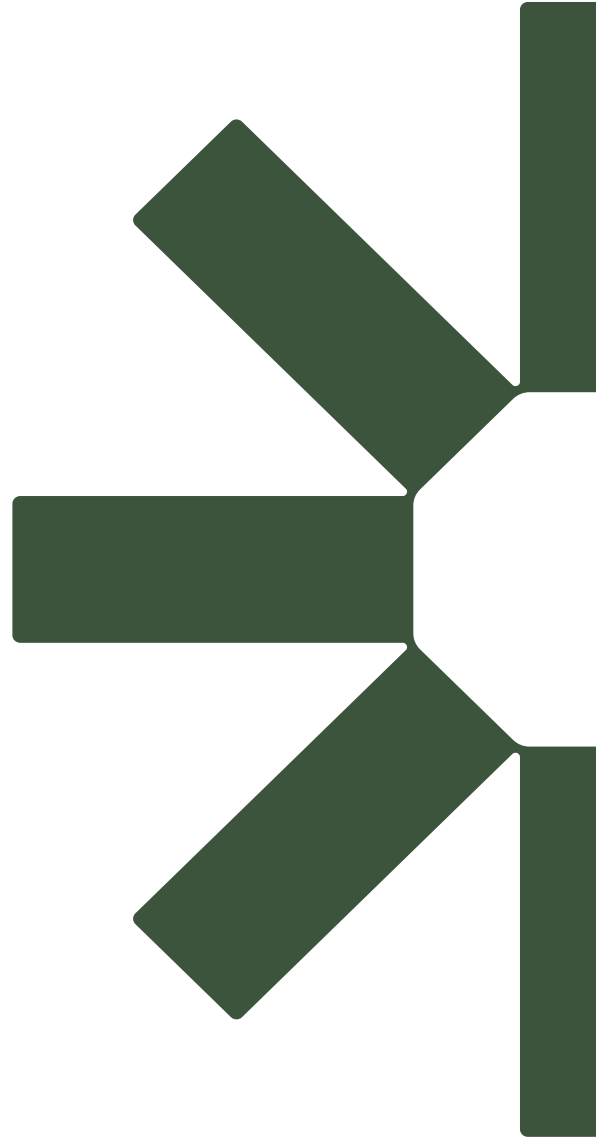
The project was constructed in stages and included water handling and in stream water features to promote fish habitat. Slopes were armored with riprap for scour and erosion prevention. A temporary intermunicipal detour was utilized during construction requiring extensive coordination with the adjacent town, schools and emergency services.

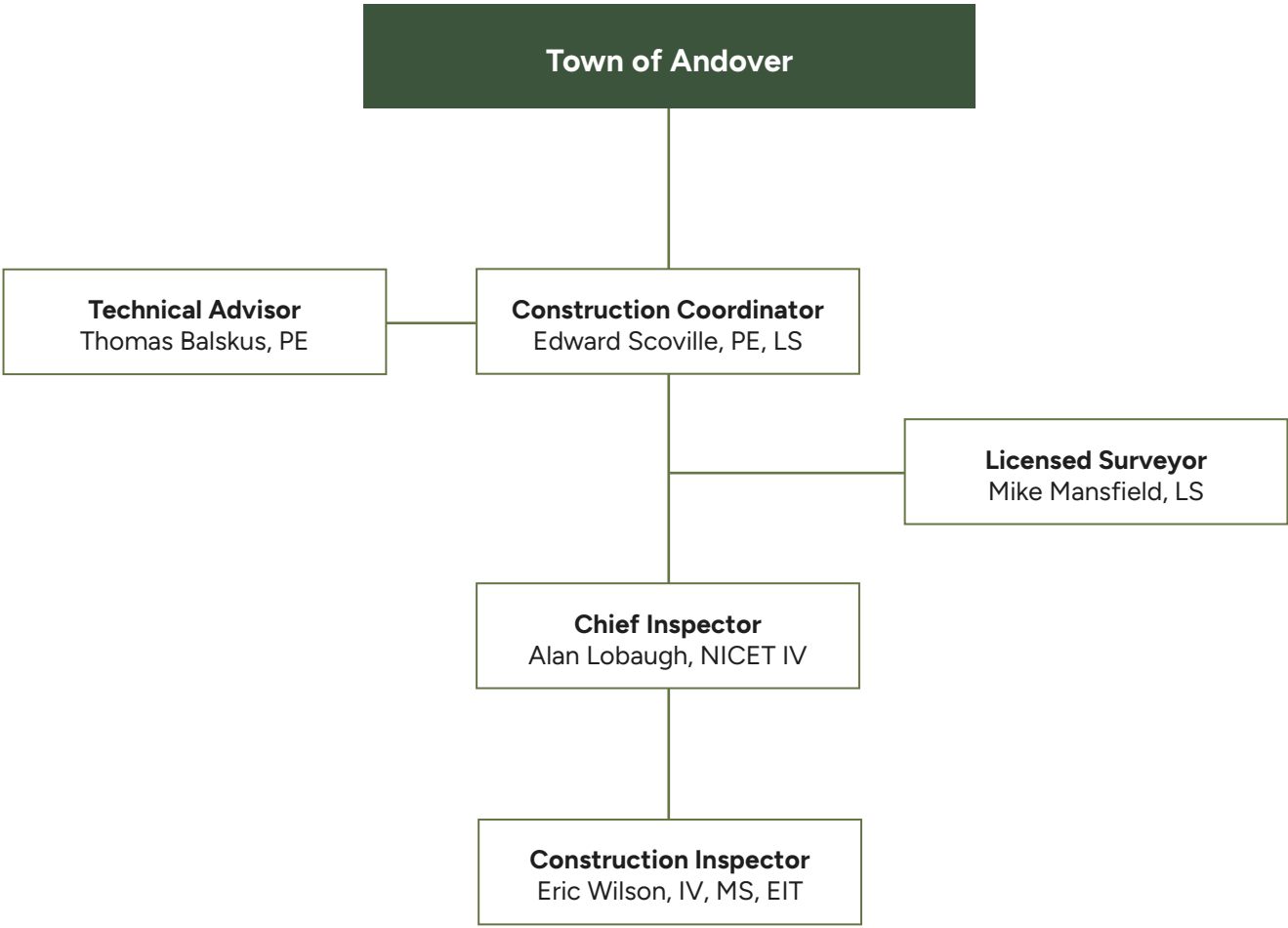
SLR performed inspection and record keeping in accordance with CTDOT policies and procedures. The project was funded under the Federal Local Bridge Program using the Pilot Program for 100% Design Funding.





# Section 3







Thomas 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.

## Years of Experience

25 years with the firm | 4 years with other firms

## Professional 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)

## Education

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

## Project Experience

### **Replacement of the Phoenix Street Bridge (CTDOT Project No. 146-177 / 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.

### **Structure Replacement, River Road Bridge Over Pomperaug River (LOTICIP 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.

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

Construction Manager overseeing the construction and inspection services 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, creation of wetlands and extensive interaction with adjacent businesses and property owners.



**Rehabilitation of Bridge #00548 (CTDOT Project No. 34-334), Danbury, CT**

Construction Manager overseeing the construction engineering and inspection services for this bridge rehabilitation project. The project involved blasting and painting of steel beams, superstructure and substructure concrete repairs, concrete deck patching, milling and paving, replacement of expansion joints, and maintenance and protection of traffic.

**Skiff Street Pedestrian Underpass (CTDOT Project No. 61-148), Hamden, CT**

Oversaw the construction engineering and inspection activities associated with the construction of a pedestrian underpass beneath Skiff Street along the Farmington Canal Greenway. The culvert was installed beneath several existing utilities, including a high voltage electrical conduit, a water main and gas main, and telephone duct bank.

**Farmington Canal Greenway, Phase IIA (CTDOT Project No. 61-131), Hamden, CT**

Resident Engineer overseeing the construction of a 6.6-mile bikeway design that addressed wetland preservation, bridge design, resolution of vehicular/pedestrian conflicts, neighborhood accessibility, and the crossing under the Merritt Parkway.

**Farmington Canal Greenway, Phase IIB (CTDOT Project No. 61-133), Hamden, CT**

Served as the Civil Engineer responsible for revising the design plans and specifications for 3 miles of paved trail and four structures.

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

Served as Project Manager responsible for design of a 2-mile bikeway which includes the design of pedestrian bridges, paved bike trail, wetland preservation, property acquisition, roadway intersections, construction feasibility, construction cost, and complying with federal, state, and town requirements. This project is a continuation of the Farmington Canal Greenway Bike Trail system.

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

Resident Engineer overseeing the construction administration and inspection services for six bridges in various towns in southeast Connecticut. Construction activities inspected included substructure concrete repair, demolition of existing steel, cleaning and painting of existing structural steel, reinforcing steel, bridge deck replacement, bridge joint replacement, underwater concrete repair, membrane waterproofing, concrete header replacement, bridge bearing seat replacement, bridge jacking and bearing replacement, coordination with Providence and Worcester Railroad and New England Central Rail, utility relocations, asbestos abatement, parapet replacement, milling, paving, temporary traffic signal for alternating traffic, and maintenance and protection of traffic on I-395 and I-95.

**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.

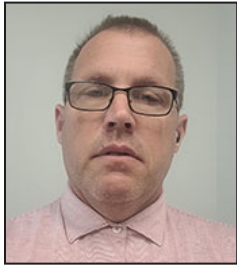
**Rehabilitation of Bridge No. 00562, U.S. Route 7 over Housatonic River (CTDOT Project No. 121-129), Salisbury & Canaan, CT**

Construction Manager overseeing the construction administration and inspection services for bridge rehabilitation. The existing three-span bridge deck truss was replaced with a single 243-foot-span plate girder and composite concrete deck bridge. New concrete abutments were placed, founded on steel H-piles driven to rock.

## **Additional Training**

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





Edward Scoville is a Resident Engineer and Construction Coordinator for our Engineering/Construction Engineering Team. He has over 35 years of experience with Survey, Civil Engineering, and Construction Inspection primarily in the areas of utility, structural steel, bridge, subdivision, septic, roadway design, and construction supervision. In the past 12 years, Edward has focused his skills on design and construction administration and inspection for projects related to bridges, roadways, and storm drainage as well as site work for private and municipal projects.

## Years of Experience

2 years with the firm | 35 years with other firms

## Professional Registrations

- Professional Engineer - CT
- Licensed Land Surveyor - CT
- NETTCP HMA Paving Inspector, Concrete Inspector

## Education

- BS, Civil Engineering, University of Connecticut

## Project Experience

### **Preservation of Bridge Nos. 05061, 05062, 05066, and 05067 (CT DOT Project No. 168-161), Woodbury, CT**

Provided Construction Coordination and Resident Engineering services for the rehabilitation of four bridges throughout the Town of Woodbury. Work included bridge deck repairs and replacement, bearing rehabilitation, structural steel painting, drainage improvements, bridge rail replacement, concrete repairs, membrane waterproofing, asphaltic plug joints and paving.

### **Wood Creek Road Bridge over Weekepeemee River and Magnolia Hill Road Bridge over East Spring Brook (CTDOT Project No. 10-89), Bethlehem, CT**

Provided Construction Coordinator and Resident Engineer services for the rehabilitation of two bridges (Bridge No. 05169 and 05956). Work included concrete deck, abutment and wingwall repairs, bearing replacement, concrete curb replacement, new metal bridge rail and end blocks, membrane waterproofing, installation of new guiderail, drainage, and road reconstruction and paving.

### **Waterbury Naugatuck River Greenway (CTDOT Project No. 151-321), Waterbury, CT**

Provided Resident Engineering services for 12,000 LF of multi-use trail in the City of Waterbury along South Main Street. The project included a prefabricated pedestrian bridge on cast-in-place concrete abutments, 750 LF of retaining walls, precast concrete restroom, picnic shelter, outdoor amphitheater, kayak launch, 120 LF long boardwalk on wood piles, drainage, road reconstruction including paving, fencing, plantings, and various trail amenities.

### **Burton Road Rehabilitation (LOTICIP Project No. L006-0002), Beacon Falls, CT**

Provided Construction Coordinator services for the rehabilitation of Burton Road. The project included 326 LF of cast-in-place concrete retaining wall supported by 60 micro piles, 1500-feet of road reconstruction through three intersections, drainage, sidewalks, guiderail, curbing, park-like features, and concrete stairs. Utility relocations also required a tremendous amount of coordination during construction.

**Day Hill Road Adaptive Traffic Control Signal System (CTDOT Project No. 164-240), Windsor, CT**

Provided Construction Coordinator services for the Day Hill Road Adaptive Traffic Control Signal System. The project included installation of fiber optic cable and regular conductors to provide communication between multiple signals at 10 intersections. Work included typical electrical items, fiber optic cable, messenger wire, modifications to existing signal equipment, system integration, advanced transportation controllers, and concrete sidewalk and pavement repair.

**Heatherwood Drive Bridge over Camp Laurelwood Brook (CTDOT Project No. 76-136), Madison, CT**

Provided Construction Coordinator services for the Replacement of Heatherwood Drive Bridge (Bridge No. 04857) in Madison, CT. The project included removal of the existing culverts, drilled shafts supporting cast-in-place abutments and wingwalls, and a three-sided precast concrete culvert. The project also included simulated stone cast-in-place concrete parapets, guiderail, drainage, membrane waterproofing, paving, and a local detour.

**Rehabilitation of Patricia Terrace, Dolly Drive, and Coventry Lane, Beacon Falls, CT**

Provided Construction Coordinator services for the rehabilitation of three roads in Beacon Falls, CT. The project included installation of a formal drainage systems, utility coordination, rock excavation, road reconstruction, curbing, and driveway aprons.

**WMC Consulting Engineers, Newington, CT\*\***

Served as Chief Inspector for nine years before serving in the role of Construction Coordinator and Resident Engineer for three years. Responsibilities included planning, design, environmental compliance, construction administration and inspection, and preparation of contract and bidding documents for numerous state and municipal bridge, roadway, and dam projects. Bridge improvement projects included funding from the Federal Local Bridge Program (FLBP) as well as local bridge programs and private grants.

**City of Torrington, Torrington, CT\*\***

Assistant City Engineer responsible for municipal plan reviews, easement acquisition, design of drainage improvements, creation of presentation boards using ArcGIS, general project management, and preparation of plans for federal and state grants.

**Stuart Somers Company, Southbury, CT\*\***

Began as a member of the survey field crew performing all aspects of Surveying for residential land development including construction staking. The business was sold to a Land Surveyor and Edward was hired as the company Engineer to provide Land Development and Surveying skills including field location, stakeout, computations, AutoCAD map preparation, and deed writing. Surveying projects varied from simple and complex stakeout jobs to completing ALTA surveys for large commercial properties. Engineering duties involved soil testing, drainage calculations, roadway design, site layout, and grading. Edward was involved in roadway improvements, new road construction, residential construction, and commercial construction engineering projects as well as the design of several large culverts for land development and municipalities. In addition, he represented clients at municipal board meetings and responded to municipal subconsultant and agency reviews.

**Town of New Milford, New Milford, CT\*\***

Served as Construction Coordinator for the Town of New Milford, CT. Designed and performed project management for multiple projects including New Milford Green landscape improvements, Candlewood Lake Road North roadway improvements, and various hazardous road grant updates. Also performed preliminary design and drainage studies for several projects for the Town.

## Additional Training

- OSHA-10



As Manager of Land Surveying for the firm's Survey Department, Michael Mansfield has a diverse range of experience in surveying throughout Connecticut and eastern New York. 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.

## Years of Experience

31 years with the firm | 3 years with other firms

## Professional Registrations

- Land Surveyor - CT, NY

## Education

- BS, Architectural Engineering, Wentworth Institute of Technology

## Project Experience

### **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.

### **River Road Bridge (LOTICIP Project No. L130-0001), Southbury, CT**

Survey services for bridge replacement and roadway improvements at Pomperaug River crossing.

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

Survey services for the replacement of the Canal Street Bridge. This project included the replacement of the existing steel bridge deck which spans the Derby Canal connecting Canal Street and Roosevelt Drive (Route 34).

### **Blacks Road Bridge, Cheshire, CT**

Survey services for a bridge replacement and roadway improvements at the Blacks Road crossing of Honeypot Brook.

### **Derby Milford Road, Derby, CT**

Survey services for a bridge replacement and roadway improvements at the Derby-Milford Road crossing of Two Mile Brook.

### **Sodom Lane Bridge over Two Mile Brook, Derby, CT**

Survey services for roadway reconstruction and drainage improvements for the replacement of the Sodom Lane Bridge over Two Mile Brook and an unnamed Two Mile Brook tributary culvert that passes under Sodom Lane.

### **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 of Route 69 at East Road & Union Street (CTDOT Project No. 17-161), Bristol, CT**

Survey services for the reconstruction of East Road and Union Street and the replacement of an existing bridge over Mountain Brook.

### **Realignment of Grove Street & Prospect Hill Road (CT Project Nos. 95-212 & 95-234), New Milford, CT**

Survey services associated with the design and construction for the relocation of the Grove Street intersection with Route 67, requiring some 1,200 linear feet of new roadway construction, intersection realignment, widening, and signalization.

**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.

**Elm Street Reconstruction (CTDOT Project No. 156-161), West Haven, CT**

Provided survey services for the reconstruction of 7,800 linear feet of roadway including drainage improvements.

**Reconstruction of Enfield Roads, Enfield, CT**

Survey services for two separate roadway projects under the town's ROAD2000 Program. The project included nine roadways totaling approximately 6,800 and 12,500 linear feet in length.

**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.

**UCHC 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.

**Route 25 Intersection Improvements (CTDOT Project Nos. 144-181 & 84-102), Trumbull & Monroe, CT**

Survey services for the preliminary design of roadway realignment, widening, and signalization for six intersections along State Route 25 in Trumbull and Monroe.

**Rentschler Field Circulation & Parking Improvements, East Hartford, CT**

Established ground control for aerial photogrammetric mapping and supplemented with ground topographic survey to prepare base mapping for design of drainage, parking, and traffic circulation improvements. Prepared property survey and easement maps for use in acquisition of property and easements for the project.

**Middlebury Greenway (CTDOT Project No. 80-124), Middlebury, CT**

Provided survey services for the planning, design, and construction of approximately 1.4 miles of multiuse trail and a tunnel crossing a two-lane state roadway.

**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.

**Gilbert Street Watershed Study & Drainage Improvements, Ridgefield, CT**

Survey services for the completion of a hydrologic and hydraulic analysis and development of construction plans and documents for drainage improvements near Gilbert Street and Abbott Avenue in the Ridgefield Village area.

**Pomperaug River Streambank Stabilization, Woodbury, CT**

Field survey to develop design plans for stabilizing a 25-foot-high bank of the Pomperaug River.

**West Branch Neversink River, Claryville, NY**

Established ground control for aerial photogrammetric mapping and supplemented aerial mapping with on-the-ground topographic survey along the channel thalweg, edge of the water, and within the active stream channel to allow for establishment of detailed cross-sections and profiles for stream restoration along the West Branch Neversink River.

## Memberships and Associations

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



Alan Lobaugh has 38 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.

## Years of Experience

24 years with the firm | 14 years with other firms

## Professional Registrations

- NICET IV - Transportation Engineering Technology - 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

## Education

- BS, Geography, University of Connecticut

## Project Experience

### **Replacement of Bridge No. 04682, Dublin Hill Road over Ponset Brook (CTDOT Project No. 0060-0161), Haddam, CT**

Chief Inspector for the replacement of Bridge No. 04682, Dublin Hill Road immediately north of the intersection of Depot Road over Ponset Brook in Haddam, CT. The project includes temporary water handling measures; removal of the existing substructure and bridge deck; installation of a temporary earth retaining system; replacement of the existing structure with a precast concrete arch unit superstructure on cast in place stub abutments and wingwalls founded directly on bedrock; placement of membrane on the arch and of gravel fill; the installation of concrete sidewalk, cast-in-place approach barrier walls, a bituminous wearing surface, metal beam rail; placement of topsoil and turf establishment; drainage installations; and installation of curbing and line striping.

### **Phoenix Street Bridge Replacement (CTDOT Project No. 146-177), Vernon, CT**

Chief Inspector providing construction administration and inspection services for the replacement of Bridge No. 06806, Phoenix Street Bridge over the Tankerhoosen River in Vernon. The existing reinforced concrete single-span bridge was replaced with a single-span precast concrete arch bridge. Construction included the closing of Phoenix Street with a detour; removal of the existing bridge abutments, footings, and bridge deck; temporary relocation of water main; temporary relocation of a gas main; temporary water diversion; temporary and permanent sheeting; micropiles to support cast-in-place footings and wingwalls; 29-foot-span precast concrete arch superstructure; permanent water main installation; stone masonry faced endwalls; and paving.

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

Construction administration and inspection services for the replacement of Pleasantview Drive Bridge No. 04576, 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.

### **Nonnewaug Road Bridge Replacement (CTDOT Project No. 10-88), Bethlehem, CT**

Chief Inspector providing construction administration and inspection services for the replacement of Bridge No. 06121, Nonnewaug Road Bridge over East Spring Brook. The existing 20-foot span stone abutment and concrete deck bridge was built in 1934 and narrow and misaligned with the East Spring Brook channel resulting in scour at the abutments. In addition to replacing the bridge, the existing



roadway alignment was modified to reduce the sharp s-curve and improve safety. The proposed work included a 32-foot precast concrete arch on a new alignment which allowed Nonnewaug Road to remain open throughout most of the construction. The project also included footings, wingwalls with simulated stone masonry, bridge rail, membrane waterproofing, road reconstruction, paving, drainage, timber guiderail, driveway reconstruction, staged construction, water handling and stream restoration. Power and communication overhead utilities were relocated, requiring extensive coordination with each utility to ensure the project schedule was maintained and to limit the duration of the detour. SLR provided Construction Inspection services in accordance with the CT DOT Construction Manual and Municipal Manual. Routine coordination took place between the CT DOT District 4 MSAT team and CT DOT Material Testing Laboratory. The project was constructed on schedule and under budget.

## **Replacement of Dart Hill Road Bridge over Hockanum River (LOTCLIP Project No. L146-0002), Vernon, CT**

Chief Inspector providing construction administration and inspection services for the replacement of Bridge No. 063936, Dart Hill Road Bridge over the Hockanum River. The existing structure was constructed in 1932 and consisted of a single 20-foot simple span with a concrete deck on cast-in-place abutments with flared wingwalls and steel pipe railing system along both fascia. A separate pedestrian bridge was located adjacent to the upstream side of the bridge that was used to connect the sidewalks on either side of the river. The span of the new structure was increased to 40-feet which will also accommodate the watercourse. Cast in place concrete abutments support prestress deck units with a 6" shear slab cast in place. The bridge work also included rail mounted on concrete curbing, membrane waterproofing, water handling, cofferdams bearing and paving. Supports for a 12-inch Watermain were included under the sidewalk portion of the structure for the watermain which was also installed as part of the contract. Supports for the relocated gas main were cantilevered off the bridge curb. Cast in place concrete approach slabs, metal beam rail and end blocks were also installed. The grade of the road and alignment with Thrall Avenue were modified requiring full depth reconstruction and the installation of a new drainage system to accommodate the changes. The existing watermain was extended within the project limits and connected to the watermain on the new structure. The project required extensive utility coordination with the gas and water utilities throughout construction.

## **Rehabilitation of Bridge No. 00609, U.S. Route 8 over Naugatuck River & Railroad (CTDOT Project No. 73-164), Litchfield & Harwinton, CT**

Provided 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.

## **Strickland Road Bridge (CTDOT Project No. 81-85), Middlefield, CT**

Construction inspection services for the rehabilitation of the Strickland Road Bridge. This bridge project included the replacement of the existing 40-foot single-span superstructure built in 1936.

## **Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177), Vernon, CT**

Chief Inspector for the replacement of the Vernon Avenue Bridge over the Hockanum River. One of the more sensitive design issues was construction phasing and detour routing.

## **Vineyard Road Bridge Replacement (CTDOT Project No. 20-106), Burlington, CT**

Construction administration and inspection services for replacement of the existing bridge substructure and superstructure, drainage installation, roadway reconstruction, utility relocation, paving, guiderail, and stream channel restoration.

## **Pequonnock River Trail (CTDOT Project No. 144-186), Trumbull, CT**

Chief Inspector for 1 mile of bike/pedestrian walkway including a bridge replacement over Pequonnock River, bituminous concrete paving, drainage, fencing, plantings, signage, and pavement markings.

## **Farmington Canal Greenway, Phase II (CTDOT Project No. 61-131), Hamden, CT**

Construction Inspector for a 6.6-mile bikeway (ISTEA-funded), which included bridges, wetland preservation, and a crossing under the Merritt Parkway.

## **Additional Training**

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



Eric Wilson has a range of experience within the fields of structural and construction engineering. His background includes the design of bridges, culverts, roadways, and other structural elements. He has also provided construction administration and inspection services on roadway reconstruction projects, bridge replacement and rehabilitation projects, and facilities projects. As a Chief Inspector, he has been involved in the inspection, material testing, and project record keeping for numerous reconstruction projects at CTDOT Maintenance Facility fueling stations.

## Years of Experience

15 years with the firm

## Professional Registrations

- Engineer-in-Training - CT
- ACI Concrete Field Testing Technician - Grade I
- NETTCP - Concrete Inspector, Hot Mix Asphalt Paving Inspector

## Education

- MS, Civil Engineering, Concentration in Structural Engineering, University of Connecticut
- BS, Engineering, Roger Williams University

## Project Experience

### **Rehabilitation of Smokey Hollow Road Bridge over the Bantam River (CTDOT Project No. 0086-0090), Morris, CT**

Chief Inspector providing construction engineering and inspection services for the rehabilitation of Bridge No. 05173. The project included the replacement of the existing two span simply supported steel girder superstructure with a single span steel girder superstructure with a cast-in-place deck. A portion of the western abutment was reconstructed and a new cast-in-place concrete abutment on micropiles was constructed at the eastern support. The existing center pier was removed. Temporary cofferdams and water handling systems were utilized during the substructure construction and removal. The approach roadway was reconstructed and new metal beam rail and bridge rail were installed. Inspected construction activities, maintained project records, performed payment computations, monitored environmental issues, reviewed shop drawings, responded to requests for information, processed change orders, approved payment applications, prepared project correspondence, and lead project meetings. Eric was a Structural Engineer/Designer on the project responsible for preparing structural plans prior to taking on role as Chief Inspector.

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

Chief Inspector for six bridges in various towns in southeast Connecticut. Construction activities inspected included substructure concrete repair, demolition of existing steel, cleaning and painting of existing structural steel, reinforcing steel, bridge deck replacement, bridge joint replacement, underwater concrete repair, membrane waterproofing, concrete header replacement, bridge bearing seat replacement, bridge jacking and bearing replacement, coordination with Providence and Worcester Railroad and New England Central Rail, utility relocations, asbestos abatement, parapet replacement, milling, paving, temporary traffic signal for alternating traffic, and maintenance and protection of traffic on I-395 and I-95.

### **River Road Bridge over the Pomperaug River (LOTICIP Project No. L130-0001), Southbury, CT**

Senior Inspector assisting the Resident Engineer for this LOTICIP-funded superstructure replacement over the Pomperaug River. The project included staged construction, alternating one-way traffic, utility relocations, bridge deck demolition including removal of existing steel girders, new steel girders, bearing pads, precast concrete deck panels, cast in place abutment and wingwalls, drainage, sheet

piling for scour protection, concrete repair of the piers, membrane waterproofing and paving. Prior to his inspection role on the project, Eric was a Structural Engineer/Designer responsible for preparing structural plans and details for the project.

**Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177), Vernon, CT**

Performed on-site investigation and preparation of layout drawings for 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.

**River Road Bridge over the Pomperaug River (LOTICIP Project No. L130-0001), Southbury, CT**

Senior Inspector assisting the Resident Engineer for this LOTICIP-funded superstructure replacement over the Pomperaug River. The project included staged construction, alternating one-way traffic, utility relocations, bridge deck demolition including removal of existing steel girders, new steel girders, bearing pads, precast concrete deck panels, cast in place abutment and wingwalls, drainage, sheet piling for scour protection, concrete repair of the piers, membrane waterproofing and paving. Prior to his inspection role on the project, Eric was a Structural Engineer/Designer responsible for preparing structural plans and details for the project.

**Marion Avenue Bridge over Humiston Brook (LOTICIP Project No. L131-0003), Southington, CT**

Chief Inspector providing construction administration and inspection services for the replacement of Marion Avenue Bridge over Humiston Brook, Bridge No. 131016. The existing 16-foot span by 26-foot wide bridge was constructed in 1930 and widened in 1970, and is comprised of an 18-inch thick reinforced concrete deck and steel girders supported by dry-stacked stone masonry abutments. The proposed work includes installation of a temporary by pass pipe, removal of the existing structure, temporary earth retaining systems, installation of 16-foot x 8-foot 4-sided box culvert with a staggered concrete baffle arrangement in order to retain substrate for a natural bottom for the support of fish passage, precast and cast-in-place wingwalls, utility relocations and coordination, drainage, metal beam rail, paving and frequent coordination with abutters. The project was accelerated to reduce the detour duration and reopened to traffic within 3 weeks. Although this was a LOTICIP project, SLR provided Construction Inspection services consistent with the CT DOT process.

**Rentschler Field Stadium Traffic & Parking Improvements, East Hartford, CT**

Performed existing conditions investigation/inspection of the north and south Klondike areas. Following the on-site investigation, demolition plans were prepared for the clearing of these areas to expand stadium parking. Head estimator for the stadium parking and the extension of East Hartford Boulevard cost opinions. Additionally, provided value engineering services for the client.

**Minor Bridge Road (CTDOT Project No. 119-115), Roxbury, CT**

Assisted with the preparation of plans and permits for the rehabilitation of the existing bridge carrying Minor Bridge Road over the Shepaug River. Also supervised highway engineering, quantity and cost estimating, and preparation of environmental permits.

**Skiff Street Pedestrian Underpass (CTDOT Project No. 61-148), Hamden, CT**

Structure load rating analysis for the addition of a sidewalk to the existing structure.

## Additional Training

- 2012 Domestic Scan on ABC Connections Findings & Recommendations
- Contech Engineered Solutions ABC Bridge Concepts
- APNGA Portable Nuclear Gauge Safety & U.S. D.O.T. Hazmat Certification Class
- OSHA 10-Hour Construction Safety & Health
- Standard First Aid Supervisor
- AHA Heartsaver First Aid Program

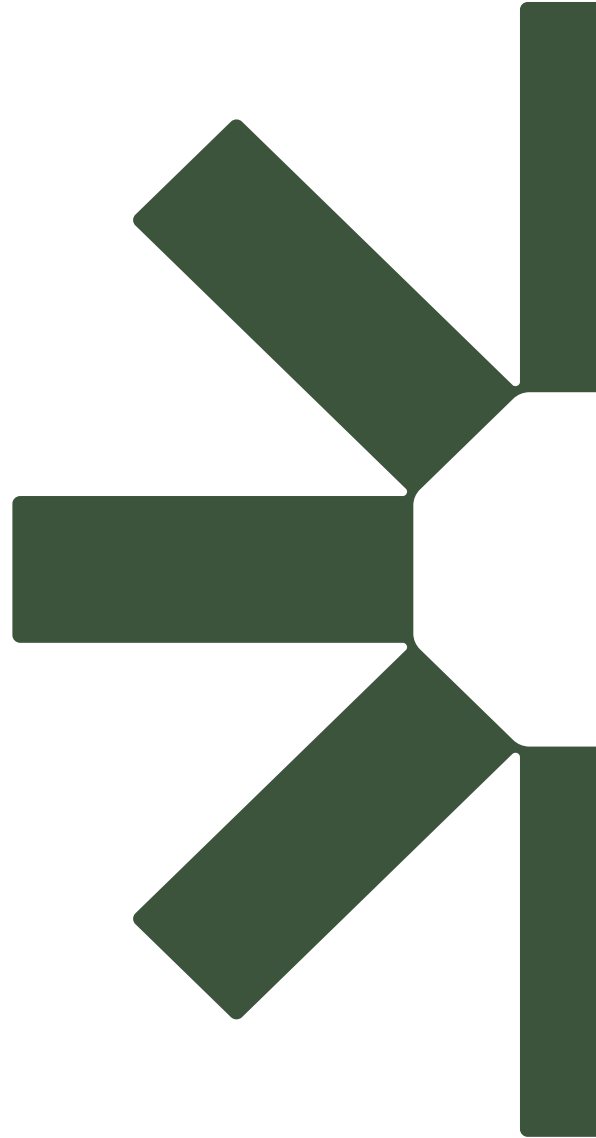
## Memberships and Associations

- Connecticut Association of Street & Highway Officials
- Member, Design-Build Institute of American
- Associate Member to the Board of Directors for Call-Before-You-Dig





# Section 4



# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION (*City and State*)

**Replacement of Bunker Hill Road Bridge over Hop River – Bridge #04583, Andover, CT**

2. PUBLIC NOTICE DATE

**January 24, 2024**

3. SOLICITATION OR PROJECT NUMBER

**#0001-0106**

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

**Thomas Balskus, PE, US Manager of Construction Engineering**

5. NAME OF FIRM

**SLR International Corporation**

6. TELEPHONE NUMBER

**860-400-5680**

7. FAX NUMBER

**(203) 272-9733**

8. E-MAIL ADDRESS

**tbalskus@slrconsulting.com**

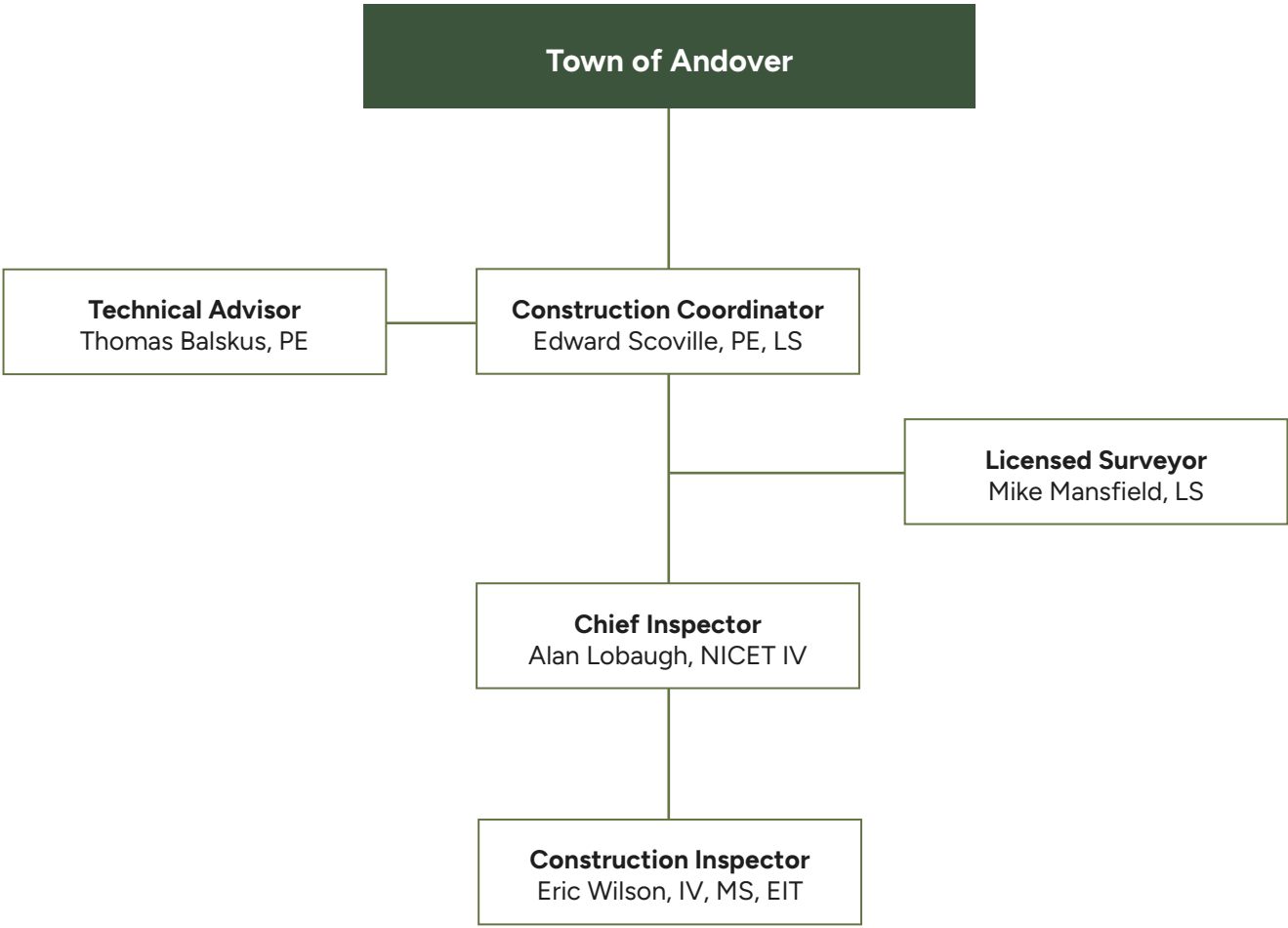
### C. PROPOSED TEAM

*(Complete this section for the prime contractor and all key subcontractors.)*

|    | (Check)                             |     |         |                | 9. FIRM NAME   | 10. ADDRESS                           | 11. ROLE IN THIS CONTRACT                   |
|----|-------------------------------------|-----|---------|----------------|--|---------------------------------------|---|
|    | PRIME                               | J-V | PARTNER | SUBCON-TRACTOR |  |                                       |   |
| a. | <input checked="" type="checkbox"/> |     |         |                | <b>SLR International Corporation</b><br><input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 99 Realty Drive<br>Cheshire, CT 06410 | Construction Administration<br>& Inspection |
| b. |                                     |     |         |                | <input type="checkbox"/> CHECK IF BRANCH OFFICE  |                                       |   |
| c. |                                     |     |         |                | <input type="checkbox"/> CHECK IF BRANCH OFFICE  |                                       |   |
| d. |                                     |     |         |                | <input type="checkbox"/> CHECK IF BRANCH OFFICE  |                                       |   |
| e. |                                     |     |         |                | <input type="checkbox"/> CHECK IF BRANCH OFFICE  |                                       |   |
| f. |                                     |     |         |                | <input type="checkbox"/> CHECK IF BRANCH OFFICE  |                                       |   |

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
**(Complete one Section E for each key person.)**

|   |  |  |                            |
|---|--|--|----------------------------|
| 12. NAME<br><b>Thomas P. Balskus</b>  | 13. ROLE IN THIS CONTRACT<br>Technical Advisor | 14. YEARS EXPERIENCE   |                            |
|   |  | a. TOTAL<br>29   | b. WITH CURRENT FIRM<br>25 |
| 15. FIRM NAME AND LOCATION (City and State)<br><b>SLR International Corporation – Glastonbury, Connecticut</b>  |  |  |                            |
| 16. EDUCATION (DEGREE AND SPECIALIZATION)<br>BS, Civil Engineering, Central Connecticut State University;<br>BSCCE courses, Includes all classes for Construction Project Management Degree |  | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)<br>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) |                            |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)<br>RSO Training Officer, AHA Heartsaver First Aid Program, 40-Hour HAZWOPER Training            |  |  |                            |

**19. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION (City and State)<br><b>Replacement of the Phoenix Street Bridge<br/>(CTDOT Project No. 146-177 / Federal Aid Project No. 6146(016), Vernon, CT</b>  | (2) YEAR COMPLETED            |                              |
|----|--|-------------------------------|------------------------------|
|    |  | PROFESSIONAL SERVICES<br>2012 | CONSTRUCTION (If applicable) |
| a. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>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.   |                               |                              |
|    | (1) TITLE AND LOCATION (City and State)<br><b>Structure Replacement, River Road Bridge Over Pomperaug River<br/>(LOTICIP Project No. L130-001), Southbury, CT</b>  | (2) YEAR COMPLETED            |                              |
|    |  | PROFESSIONAL SERVICES<br>2017 | CONSTRUCTION (If applicable) |
| b. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>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.  |                               |                              |
|    | (1) TITLE AND LOCATION (City and State)<br><b>Replacement of the Vineyard Road Bridge (CTDOT Project No. 20-106), Burlington, CT</b>   | (2) YEAR COMPLETED            |                              |
|    |  | PROFESSIONAL SERVICES<br>2018 | CONSTRUCTION (If applicable) |
| c. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>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.  |                               |                              |
|    | (1) TITLE AND LOCATION (City and State)<br><b>Skiff Street Pedestrian Underpass (CTDOT Project No. 61-148), Hamden, CT</b>   | (2) YEAR COMPLETED            |                              |
|    |  | PROFESSIONAL SERVICES<br>2012 | CONSTRUCTION (If applicable) |
| d. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Oversaw the construction engineering and inspection activities associated with the construction of a pedestrian underpass beneath Skiff Street along the Farmington Canal Greenway. The culvert was installed beneath several existing utilities, including a high voltage electrical conduit, a water main and gas main, and telephone duct bank.   |                               |                              |
|    | (1) TITLE AND LOCATION (City and State)<br><b>Substructure Concrete Repairs of 6 Bridges (CTDOT Project No. 0172-0417), Griswold, Lisbon, Montville, Norwich, Old Lyme, &amp; Preston, CT</b>  | (2) YEAR COMPLETED            |                              |
|    |  | PROFESSIONAL SERVICES<br>2017 | CONSTRUCTION (If applicable) |
| e. | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Resident Engineer overseeing the construction administration and inspection services for six bridges in various towns in southeast Connecticut. Construction activities inspected included substructure concrete repair, demolition of existing steel, cleaning and painting of existing structural steel, reinforcing steel, bridge deck replacement, bridge joint replacement, underwater concrete repair, membrane waterproofing, concrete header replacement, bridge bearing seat replacement, bridge jacking and bearing replacement, coordination with Providence and Worcester Railroad and New England Central Rail, utility relocations, asbestos abatement, parapet replacement, milling, paving, temporary traffic signal for alternating traffic, and maintenance and protection of traffic on I-395 and I-95. |                               |                              |



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

|  |  |   |                                  |
|--|--|---|----------------------------------|
| 12. NAME<br><b>Edward Scoville</b>   | 13. ROLE IN THIS CONTRACT<br><b>Construction Coordinator</b> | 14. YEARS EXPERIENCE  |                                  |
|  |  | a. TOTAL<br><b>37</b>   | b. WITH CURRENT FIRM<br><b>2</b> |
| 15. FIRM NAME AND LOCATION (City and State)<br><b>SLR International Corporation – Cheshire, Connecticut</b>                              |  |   |                                  |
| 16. EDUCATION (DEGREE AND SPECIALIZATION)<br>BS, Civil Engineering, University of Connecticut  |  | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)<br>Professional Engineer - CT<br>Licensed Land Surveyor - CT |                                  |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)<br>10-Hour OSHA Construction Safety & Health |  |   |                                  |

**19. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION (City and State)   | (2) YEAR COMPLETED    |                              |
|----|---|-----------------------|------------------------------|
|    |   | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| a. | <b>Wood Creek Road Bridge over Weekeepemee River and Magnolia Hill Road Bridge over East Spring Brook (CTDOT Project No. 10-89), Bethlehem, CT</b>  | <b>2022</b>           |                              |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Provided Construction Coordinator and Resident Engineer services for the rehabilitation of two bridges (Bridge No. 05169 and 05956). Work included concrete deck, abutment and wingwall repairs, bearing replacement, concrete curb replacement, new metal bridge rail and end blocks, membrane waterproofing, installation of new guiderail, drainage, and road reconstruction and paving.  |                       |                              |
| b. | <b>Waterbury Naugatuck River Greenway (CTDOT Project No. 151-321), Waterbury, CT</b>  | <b>2022</b>           | <b>2022</b>                  |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Provided Resident Engineering services for 12,000 LF of multi-use trail in the City of Waterbury along South Main Street. The project included a prefabricated pedestrian bridge on cast-in-place concrete abutments, 750 LF of retaining walls, precast concrete restroom, picnic shelter, outdoor amphitheater, kayak launch, 120 LF long boardwalk on wood piles, drainage, road reconstruction including paving, fencing, plantings, and various trail amenities.                    |                       |                              |
| c. | <b>Burton Road Rehabilitation (LOTCP Project No. L006-0002), Beacon Falls, CT</b>   | <b>2023</b>           |                              |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Provided Construction Coordinator services for the rehabilitation of Burton Road. The project included 326 LF of cast-in-place concrete retaining wall supported by 60 micro piles, 1500-feet of road reconstruction through three intersections, drainage, sidewalks, guiderail, curbing, park-like features, and concrete stairs. Utility relocations also required a tremendous amount of coordination during construction.   |                       |                              |
| d. | <b>Day Hill Road Adaptive Traffic Control Signal System (CTDOT Project No. 164-240), Windsor, CT</b>  | <b>2022</b>           |                              |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Provided Construction Coordinator services for the Day Hill Road Adaptive Traffic Control Signal System. The project included installation of fiber optic cable and regular conductors to provide communication between multiple signals at 10 intersections. Work included typical electrical items, fiber optic cable, messenger wire, modifications to existing signal equipment, system integration, advanced transportation controllers, and concrete sidewalk and pavement repair. |                       |                              |
| e. | <b>Heatherwood Drive Bridge over Camp Laurelwood Brook (CTDOT Project No. 76-136), Madison, CT</b>  | <b>2022</b>           |                              |
|    | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Provided Construction Coordinator services for the Replacement of Heatherwood Drive Bridge (Bridge No. 04857) in Madison, CT. The project included removal of the existing culverts, drilled shafts supporting cast-in-place abutments and wingwalls, and a three-sided precast concrete culvert. The project also included simulated stone cast-in-place concrete parapets, guiderail, drainage, membrane waterproofing, paving, and a local detour.                                    |                       |                              |

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
**(Complete one Section E for each key person.)**

|   |  |   |                            |
|---|--|---|----------------------------|
| 12. NAME<br><b>Michael F. Mansfield, LS</b>   | 13. ROLE IN THIS CONTRACT<br>Licensed Surveyor | 14. YEARS EXPERIENCE  |                            |
|   |  | a. TOTAL<br>34  | b. WITH CURRENT FIRM<br>31 |
| 15. FIRM NAME AND LOCATION <i>(City and State)</i><br><b>SLR International Corporation – Glastonbury, Connecticut</b>   |  |   |                            |
| 16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i><br>BS, Architectural Engineering, Wentworth Institute of Technology  |  | 17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i><br>Land Surveyor - CT, NY |                            |
| 18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i><br>Connecticut Association of Land Surveyors (CALS)<br>New York State Association of Professional Land Surveyors (NYSAPLS) |  |   |                            |

**19. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION <i>(City and State)</i>  | (2) YEAR COMPLETED    |                                     |
|----|---|-----------------------|-------------------------------------|
|    |   | PROFESSIONAL SERVICES | CONSTRUCTION <i>(If applicable)</i> |
| a. | <b>Vernon Avenue Bridge Rehabilitation (CTDOT Project No. 146-177), Vernon, CT</b>  | 2009                  |                                     |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Surveyor for the design of the replacement of the Vernon Avenue Bridge over the Hockanum River.   |                       |                                     |
| b. | <b>Structure Replacement, River Road Bridge Over Pomperaug River (LOTICIP Project No. L130-001), Southbury, CT</b>  | 2017                  |                                     |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Surveyor for bridge replacement and roadway improvements at Pomperaug River crossing. The project included temporary support of existing utilities, staged construction, grading, drainage, guiderail installation, curbing, and pavement.  |                       |                                     |
| c. | <b>UCHC Expansion Roadway &amp; Signalization Improvements CT Route 4, SR 508 &amp; Local Roadways, Farmington, CT</b>  | 2021                  |                                     |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Surveyor for topographic and right-of-way survey for roadway widening for multiple roads and intersections associated with the health care facility expansion.  |                       |                                     |
| d. | <b>Rentschler Field Circulation &amp; Parking Improvements, East Hartford, CT</b>   | Ongoing               |                                     |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Surveyor for project. Established ground control for aerial photogrammetric mapping and supplemented with ground topographic survey to prepare base mapping for design of drainage, parking, and traffic circulation improvements. Prepared property survey and easement maps for use in acquisition of property and easements for the project. |                       |                                     |
| e. | <b>Realignment of Grove Street &amp; Prospect Hill Road (CT Project Nos. 95-212 &amp; 95-234), New Milford, CT</b>  | 2010                  |                                     |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><input checked="" type="checkbox"/> Check if project performed with current firm<br>Surveyor associated with the design and construction for the relocation of the Grove Street intersection with Route 67, requiring some 1,200 linear feet of new roadway construction, intersection realignment, widening, and signalization.  |                       |                                     |

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

|  |   |  |                                   |
|--|---|--|-----------------------------------|
| 12. NAME<br><b>Alan S. Lobaugh</b>   | 13. ROLE IN THIS CONTRACT<br><b>Chief Inspector</b> | 14. YEARS EXPERIENCE   |                                   |
|  |   | a. TOTAL<br><b>38</b>  | b. WITH CURRENT FIRM<br><b>24</b> |
| 15. FIRM NAME AND LOCATION (City and State)<br><b>SLR International Corporation – Cheshire, Connecticut</b>  |   |  |                                   |
| 16. EDUCATION (DEGREE AND SPECIALIZATION)<br>BS, Geography, University of Connecticut  |   | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)<br>NICET IV - Transportation Engineering Technology – 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 |                                   |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)<br>40-Hr HAZWOPER Training, 8-Hr HAZWOPER Refresher, AHA Heartsaver First Aid Program, 10-Hour OSHA Construction Safety & Health |   |  |                                   |

**19. RELEVANT PROJECTS**

| (1) TITLE AND LOCATION (City and State)   | (2) YEAR COMPLETED    |                              |
|---|-----------------------|------------------------------|
|   | PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) |
| <b>Vineyard Road Bridge Replacement (CTDOT Project No. 20-106), Burlington, CT</b>  | <b>2018</b>           |                              |
| <b>a.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Chief Inspector for the Replacement of Vineyard Road Bridge including removal of the existing bridge substructure and superstructure, drainage installation, roadway reconstruction, utility relocation, paving, guiderail, and stream channel restoration.   |                       |                              |
| <b>Replacement of Bridge No. 04682, Dublin Hill Road over Ponset Brook (CTDOT Project No. 0060-0161), Haddam, CT</b>  | <b>2020</b>           |                              |
| <b>b.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Chief Inspector for the replacement of Bridge No. 04682, Dublin Hill Road immediately north of the intersection of Depot Road over Ponset Brook in Haddam, CT. The project includes temporary water handling measures, removal of the existing substructure and bridge deck, installation of a temporary earth retaining system, replacement of the existing structure with a precast concrete arch unit superstructure on cast in place stub abutments and wingwalls founded directly on bedrock, placement of membrane on the arch, placement of gravel fill, installation of concrete sidewalk, installation of cast-in-place approach barrier walls, installation of a bituminous wearing surface, installation of metal beam rail, placement of topsoil and turf establishment, drainage installations, installation of curbing, and installation of line striping.  |                       |                              |
| <b>Pleasantview Drive Bridge Replacement (CTDOT Project No. 146-200), Vernon, CT</b>  | <b>2018</b>           |                              |
| <b>c.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Chief Inspector 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.  |                       |                              |
| <b>Phoenix Street Bridge Replacement (CTDOT Project No. 146-177), Vernon, CT</b>  | <b>2012</b>           |                              |
| <b>d.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Chief Inspector providing construction administration and inspection services for the replacement of Bridge No. 06806, Phoenix Street Bridge over the Tankerhoosen River in Vernon. The existing reinforced concrete single-span bridge was replaced with a single-span precast concrete arch bridge. Construction included the closing of Phoenix Street with a detour; removal of the existing bridge abutments, footings, and bridge deck; temporary relocation of water main; temporary relocation of a gas main; temporary water diversion; temporary and permanent sheeting; micropiles to support cast-in-place footings and wingwalls; 29-foot-span precast concrete arch superstructure; permanent water main installation; stone masonry faced endwalls; and paving.  |                       |                              |
| <b>Nonnewaug Road Bridge Replacement (CTDOT Project No. 10-88), Bethlehem, CT</b>   | <b>2024</b>           |                              |
| <b>e.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm<br>Chief Inspector providing construction administration and inspection services for the replacement of Bridge No. 06121, Nonnewaug Road Bridge over East Spring Brook. In addition to replacing the bridge, the existing roadway alignment was modified to reduce the sharp s-curve and improve safety. The proposed work included a 32-foot precast concrete arch on a new alignment which allowed Nonnewaug Road to remain open throughout most of the construction. The project also included footings, wingwalls with simulated stone masonry, bridge rail, membrane waterproofing, road reconstruction, paving, drainage, timber guiderail, driveway reconstruction, staged construction, water handling and stream restoration. SLR provided Construction Inspection services in accordance with the CT DOT Construction Manual and Municipal Manual. Routine coordination took place between the CT DOT District 4 MSAT team and CT DOT Material Testing Laboratory. The project was constructed on schedule and under budget. |                       |                              |

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**  
(Complete one Section E for each key person.)

|  |  |  |  |   |                            |
|--|--|--|--|---|----------------------------|
| 12. NAME<br><b>Frederic W. Wilson</b>  |  | 13. ROLE IN THIS CONTRACT<br>Construction Inspector                              |  | 14. YEARS EXPERIENCE                          |                            |
|  |  |  |  | a. TOTAL<br>15                                | b. WITH CURRENT FIRM<br>15 |
| 15. FIRM NAME AND LOCATION ( <i>City and State</i> )<br><b>SLR International Corporation – Cheshire, Connecticut</b>   |  |  |  |   |                            |
| 16. EDUCATION ( <i>DEGREE AND SPECIALIZATION</i> )<br>MS, Civil Engineering, Conc. in Structural Engineering, University of Connecticut; BS, Engineering, Roger Williams University  |  |  | 17. CURRENT PROFESSIONAL REGISTRATION ( <i>STATE AND DISCIPLINE</i> )<br>Engineer-in-Training – CT, ACI Concrete Field Testing Technician - Grade I, NETTCP – Concrete Inspector, Hot Mix Asphalt Paving Inspector |   |                            |
| 18. OTHER PROFESSIONAL QUALIFICATIONS ( <i>Publications, Organizations, Training, Awards, etc.</i> )<br>2012 Domestic Scan on ABC Connections Findings & Recommendations, Contech Engineered Solutions ABC Bridge Concepts, APNGA Portable Nuclear Gauge Safety & U.S. D.O.T. Hazmat Certification Class, OSHA 10-Hour Construction Safety & Health, Standard First Aid Supervisor, AHA Heartsaver First Aid Program   |  |  |  |   |                            |
| 19. RELEVANT PROJECTS  |  |  |  |   |                            |
| (1) TITLE AND LOCATION ( <i>City and State</i> )<br><b>Rehabilitation of Smokey Hollow Road Bridge over the Bantam River (CTDOT Project No. 0086-0090), Morris, CT</b>   |  | (2) YEAR COMPLETED   |  |   |                            |
|  |  | PROFESSIONAL SERVICES<br>2020  |  | CONSTRUCTION ( <i>If applicable</i> )         |                            |
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  | <input checked="" type="checkbox"/> Check if project performed with current firm |  |   |                            |
| a. Chief Inspector providing construction engineering and inspection services for the rehabilitation of Bridge No. 05173. The project included the replacement of the existing two span simply supported steel girder superstructure with a single span steel girder superstructure with a cast-in-place deck. Inspected construction activities, maintained project records, performed payment computations, monitored environmental issues, reviewed shop drawings, responded to requests for information, processed change orders, approved payment applications, prepared project correspondence, and led project meetings.  |  |  |  |   |                            |
| (1) TITLE AND LOCATION ( <i>City and State</i> )<br><b>Substructure Concrete Repairs of 6 Bridges (CTDOT Project No. 0172-0417), Grisworld, Lisbon, Montville, Norwich, Old Lyme, and Preston, CT</b>  |  | (2) YEAR COMPLETED   |  |   |                            |
|  |  | PROFESSIONAL SERVICES<br>2017  |  | CONSTRUCTION ( <i>If applicable</i> )         |                            |
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  | <input checked="" type="checkbox"/> Check if project performed with current firm |  |   |                            |
| b. Chief Inspector for six bridges in southeast Connecticut. Construction activities inspected included substructure concrete repair; demolition of existing steel; cleaning and painting of existing structural steel; reinforcing steel; underwater concrete repair; membrane waterproofing; replacement of bridge deck and joint, concrete header, bridge bearing seat, bridge jacking and bearing; coordination with Providence and Worcester Railroad and New England Central Rail; utility relocations; asbestos abatement; parapet replacement; milling; paving; temporary traffic signal for alternating traffic, and maintenance and protection of traffic on I-395 and I-95. |  |  |  |   |                            |
| (1) TITLE AND LOCATION ( <i>City and State</i> )<br><b>River Road Bridge over the Pomperaug River (LOTICIP Project No. L130-0001), Southbury, CT</b>   |  | (2) YEAR COMPLETED   |  |   |                            |
|  |  | PROFESSIONAL SERVICES<br>2017  |  | CONSTRUCTION ( <i>If applicable</i> )         |                            |
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  | <input checked="" type="checkbox"/> Check if project performed with current firm |  |   |                            |
| c. Senior Inspector assisting the Resident Engineer for this LOTICIP-funded superstructure replacement over the Pomperaug River. The project included staged construction, alternating one-way traffic, utility relocations, bridge deck demolition including removal of existing steel girders, new steel girders, bearing pads, precast concrete deck panels, cast in place abutment and wingwalls, drainage, sheet piling for scour protection, concrete repair of the piers, membrane waterproofing and paving.  |  |  |  |   |                            |
| (1) TITLE AND LOCATION ( <i>City and State</i> )<br><b>Waterbury Naugatuck River Greenway (CTDOT Project No. 151-321), Waterbury, CT</b>   |  | (2) YEAR COMPLETED   |  |   |                            |
|  |  | PROFESSIONAL SERVICES<br>2022  |  | CONSTRUCTION ( <i>If applicable</i> )<br>2022 |                            |
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  | <input checked="" type="checkbox"/> Check if project performed with current firm |  |   |                            |
| d. Office Engineer/Senior Inspector for the construction of the Waterbury Naugatuck River Greenway The proposed work included 12,000 linear feet of multi-use trail including a 60-foot span prefabricated pedestrian bridge with concrete abutments on micro piles, 750-feet of retaining walls elevating the greenway, signal improvements, watermain extension, drainage improvements and miles of railing. As part of the project a park was constructed at the intersection of South Main Street and Platts Mill Road.  |  |  |  |   |                            |
| (1) TITLE AND LOCATION ( <i>City and State</i> )<br><b>Marion Avenue Bridge over Humiston Brook, Southington CT</b>  |  | (2) YEAR COMPLETED   |  |   |                            |
|  |  | PROFESSIONAL SERVICES<br>2024  |  | CONSTRUCTION ( <i>If applicable</i> )         |                            |
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  | <input checked="" type="checkbox"/> Check if project performed with current firm |  |   |                            |
| e. Chief Inspector providing construction administration and inspection services for the replacement of Marion Avenue Bridge over Humiston Brook, Bridge No. 131016. The project was accelerated to reduce the detour duration and reopened to traffic within 3 weeks. Although this was a LOTICIP project, SLR provided Construction Inspection services consistent with the CT DOT process.  |  |  |  |   |                            |



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| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |   | 20. EXAMPLE PROJECT KEY NUMBER<br><b>1</b> |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Vineyard Road Bridge over Burlington Brook, Burlington, CT  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2017 |  |
| CONSTRUCTION <i>(If applicable)</i>   |   |  |

**23. PROJECT OWNER'S INFORMATION**

|  |  |   |
|--|--|---|
| a. PROJECT OWNER<br>Town of Burlington | b. POINT OF CONTACT NAME<br>Mr. Scott Tharau | c. POINT OF CONTACT TELEPHONE NUMBER<br>(860) 673-6789 Ext. 224 |
|--|--|---|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 20-106

SLR provided construction engineering and inspection services to the Town of Burlington for the replacement of the Vineyard Road Bridge over the Burlington Brook. The project included the replacement of the existing substructure with reinforced cast-in-place concrete abutments and the replacement of the superstructure with prestressed deck units. The work also included roadway reconstruction, timber guiderail, bridge rail, simulated stone masonry, and stream restoration. Due to the low traffic volume and a short detour, the road was closed during construction. SLR provided full-time resident inspection in accordance with the CTDOT requirements. The project was funded through the Federal Local Bridge Program and construction was completed in the Fall of 2017.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| f. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

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|---|--|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>2</b>          |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Dublin Hill Bridge Replacement over Ponset Brook, Haddam, CT  |  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2020 |
| CONSTRUCTION <i>(If applicable)</i>   |  |   |

**23. PROJECT OWNER'S INFORMATION**

|                                    |   |  |
|------------------------------------|---|--|
| a. PROJECT OWNER<br>Town of Haddam | b. POINT OF CONTACT NAME<br>Mr. Christopher Corsa | c. POINT OF CONTACT TELEPHONE NUMBER<br>(860) 345-2110 |
|------------------------------------|---|--|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 60-161 / Federal Project No. 6060(005)

SLR provided construction inspection services for the replacement of Bridge No. 04682, the Dublin Hill Road Bridge over Ponset Brook in Haddam, Connecticut. The project consisted of the removal of the existing two-span structure carrying Dublin Hill Road over Ponset Brook and replacement with a concrete arch. The existing structure consisted of two spans, 30 & 32' with precast concrete box beams reinforced concrete slabs supported by a stone masonry pier and stone masonry abutments. Overhead utilities



required temporary relocation for the project including services to adjacent properties. The new structure is a precast concrete arch system on reinforced cast-in-place abutments founded on ledge. The span has been increased to 84 feet. The project included cast-in-place footing and wingwalls at each corner with heights of 20' from the footing. A form liner was used to create a stone façade on all exposed sections of concrete. The overall project included new drainage, membrane waterproofing, and full depth pavement replacement. The project was constructed in stages and included water handling and in stream water features to promote fish habitat. Slopes were armored with riprap

for scour and erosion prevention. A temporary intermunicipal detour was utilized during construction requiring extensive coordination with the adjacent town, schools, and emergency services. SLR performed inspection and record keeping in accordance with CTDOT policies and procedures. The project was funded under the Federal Local Bridge Program using the Pilot Program for 100% Design Funding.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

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|---|---|--|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |   | 20. EXAMPLE PROJECT KEY NUMBER<br><b>3</b> |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Pleasantview Drive Bridge Replacement, Vernon, CT   | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2018 |  |
| CONSTRUCTION <i>(If applicable)</i>   |   |  |

**23. PROJECT OWNER'S INFORMATION**

|                                    |  |  |
|------------------------------------|--|--|
| a. PROJECT OWNER<br>Town of Vernon | b. POINT OF CONTACT NAME<br>Mr. David A. Smith, PE, LS | c. POINT OF CONTACT TELEPHONE NUMBER<br>(860) 870-3663 |
|------------------------------------|--|--|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 146-200 / Federal Project No. 6146(021)

SLR provided construction administration and inspection services for the replacement of Bridge No. 04576, Pleasantview Drive Bridge over the Hockanum River in Vernon, Connecticut.

The project consisted of the removal of the four existing culverts carrying the Hockanum River under Pleasantview Drive and replacement with a precast substructure and precast deck units. The roadway was closed during construction with an extensive detour. The work included temporary water handling measures, excavation of the roadway and embankments, removal and replacement of a sanitary sewer line under the stream downstream of the structure, installation of drilled shaft and pilings, installation of precast footings, abutments, and wingwalls to complete the substructure, installation of precast deck units and approach slabs, concrete placement of sidewalks and parapets, and bridge rail installation.



Roadway work included roadway base installation, paving, railing installation, embankment formation and site restoration. Environmental work consisted of special handling of the removal of the existing bridge rail and fencing and possible confined space work to complete the new sanitary sewer installation. SLR performed inspection and record-keeping in accordance with CTDOT policies and procedures. The project was funded under the Federal Local Bridge Program using the Pilot Program for 100% Design Funding.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| f. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |



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|---|-------------------------------|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |                               | 20. EXAMPLE PROJECT KEY NUMBER<br><b>4</b>  |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>River Road Bridge over Pomeraug River, Southbury, CT  | 22. YEAR COMPLETED            |   |
|   | PROFESSIONAL SERVICES<br>2017 | CONSTRUCTION <i>(If applicable)</i><br>2017 |

**23. PROJECT OWNER'S INFORMATION**

|   |  |  |
|---|--|--|
| a. PROJECT OWNER<br>Town of Southbury, CT | b. POINT OF CONTACT NAME<br>Mr. Jeff Manville, First Selectman | c. POINT OF CONTACT TELEPHONE NUMBER<br>(203) 262-0647 |
|---|--|--|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

(LOTICIP Project No. L130-0001)

SLR provided design and construction engineering and inspection services to the Town of Southbury for the rehabilitation of the River Road Bridge over Pomeraug River, a 100% CTDOT-funded local project and the Naugatuck Valley Council of Governments' first LOTICIP project. The existing bridge was constructed in 1962 and is a three-span structure (48'-88'-48') with a superstructure which consisted of steel beams and a cast-in-place concrete deck. The curb-to-curb width of the bridge is 40' with a concrete safety curb and parapet with two-rail metal bridge railing. The superstructure is supported by two concrete piers, two concrete abutments, and wingwalls to retain the steep roadway slopes. The bridge is located adjacent to wetlands, and the firm also conducted survey, wetlands delineation, in-water scour inspection, and hands-on structure inspections. After submitting state, local, and federal permit applications and confirming regulatory requirements, SLR performed final design services for the replacement of the existing superstructure, which included three-span continuous steel beams and precast concrete deck panels to accelerate the overall construction schedule. Given that River Road provides access to a local beach and major power generation facility and serves as CTDOT's defined Interstate 84 emergency bypass route, the design provided for staged construction with temporary signals in order to maintain alternating one-way traffic over the bridge during construction. Our work included coordination with utility companies, and we specified a temporary utility bridge for the support of suspended power and communications duct lines over the river without service interruptions. The firm provided full-time resident inspection services for this project per CTDOT requirements. Construction was substantially completed in October 2017.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|   |  |   |
|---|--|---|
| a. (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |



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|---|--|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>5</b>          |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Nonnewaug Road Bridge (SPN 10-88), Bethlehem, CT  |  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2021 |
| CONSTRUCTION <i>(If applicable)</i>   |  |   |

**23. PROJECT OWNER'S INFORMATION**

|                                       |  |   |
|---------------------------------------|--|---|
| a. PROJECT OWNER<br>Town of Bethlehem | b. POINT OF CONTACT NAME<br>Mr. Leonard Assard | c. POINT OF CONTACT TELEPHONE NUMBER<br>(203) 266-7510 Ext. 1 |
|---------------------------------------|--|---|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 10-88

SLR is proud to have partnered with the Town of Bethlehem to perform design and construction inspection services for the replacement of Nonnewaug Road Bridge. The bridge was funded under the CTDOT Federal Local Bridge Program. The existing 20-foot span stone abutment and concrete deck bridge at Nonnewaug Road was built in 1934. The existing bridge was narrow and misaligned with the East Spring Brook channel resulting in scour at the abutments. In addition to replacing the bridge, the Town was also interested in modifying the existing roadway alignment to reduce the sharp s-curve and improve safety.

SLR designed a 32-foot precast concrete arch on a new alignment which allowed Nonnewaug Road to remain open throughout most of the construction, a benefit to both the traveling public and the active farm operation adjacent to the bridge. With the bridge being highly visible to neighboring properties and the abutting farm being named after the existing bridge, special care was taken in selecting the aesthetic treatments including a stone form liner, painted bridge rail, and timber guiderail on the approaches.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| f. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

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| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>6</b> |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Bridge Replacement at Dart Hill Road over Hockanum River, Vernon, CT  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>Ongoing |  |

|                                    |   |  |
|------------------------------------|---|--|
| 23. PROJECT OWNER'S INFORMATION    |   |  |
| a. PROJECT OWNER<br>Town of Vernon | b. POINT OF CONTACT NAME<br>Mr. David Smith, PE | c. POINT OF CONTACT TELEPHONE NUMBER<br>(860) 870-3690 |

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

LOTICIP Project No. L146-0002

SLR provided construction administration and inspection services for replacement of the Dart Hill Road bridge over Hockanum River. The existing structure was constructed in 1932 and consisted of a single 20-foot simple span with a concrete deck on cast-in-place abutments with flared wingwalls and steel pipe railing system along both fasciae. A separate pedestrian bridge was located adjacent to the upstream side of the bridge that was used to connect the sidewalks on either side of the river.



The span of the new structure was increased to 40-feet which will also accommodate the watercourse.

Cast in place concrete abutments support prestress deck units with a 6" shear slab cast in place. The bridge work also included rail mounted on concrete curbing, membrane waterproofing, water handling, cofferdams, bearings, and paving. Supports for a 12" water main supports were included under the sidewalk portion of the structure which supported the new 12" water main, also installed as part of this contract. Supports for the relocated gas main were cantilevered off the bridge curb. Cast in place concrete

approach slabs, metal beam rail and end blocks were also installed. The grade of the road and alignment with Thrall Avenue were modified requiring full depth reconstruction and the installation of a new drainage system to accommodate the changes. The existing watermain was extended within the project limits and connected to the watermain on the new structure. The project required extensive utility coordination with the gas and water utilities throughout construction. Funding for the project was through the Connecticut Department of Transportation (CTDOT) Local Transportation Capital Improvement Program (LOTICIP).

|   |  |  |   |
|---|--|--|---|
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT |  |  |   |
| a.  | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b.  | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c.  | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d.  | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e.  | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

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|---|--|--|-------------------------------|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>7</b> |                               |   |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Waterbury Naugatuck River Greenway Phase I,<br>Waterbury, CT  | 22. YEAR COMPLETED<br><table border="1"> <tr> <td>PROFESSIONAL SERVICES<br/>2022</td> <td>CONSTRUCTION <i>(If applicable)</i><br/>2022</td> </tr> </table> |  | PROFESSIONAL SERVICES<br>2022 | CONSTRUCTION <i>(If applicable)</i><br>2022 |
| PROFESSIONAL SERVICES<br>2022   | CONSTRUCTION <i>(If applicable)</i><br>2022  |  |                               |   |

**23. PROJECT OWNER'S INFORMATION**

|                                       |   |  |
|---------------------------------------|---|--|
| a. PROJECT OWNER<br>City of Waterbury | b. POINT OF CONTACT NAME<br>Mr. Salvatore D. Porzio | c. POINT OF CONTACT TELEPHONE NUMBER<br>(203) 574 - 6851 |
|---------------------------------------|---|--|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 151-132

SLR provides Construction Engineering and Inspection Services for the City of Waterbury for the Waterbury Naugatuck River Greenway. The project was funded through the CTDOT with oversight from District 4. The project is located in the south end of Waterbury from the Naugatuck Town line north to Eagles Street paralleling the Naugatuck River. The project was constructed between the fall of 2022 and through 2023. The construction cost was approximately \$6,000,000.



The proposed work included 12,000 linear feet of multi-use trail including a 60-foot span prefabricated pedestrian bridge with concrete abutments on micro piles, 750-feet of retaining walls elevating the greenway, signal improvements, watermain extension, drainage improvements and miles of railing. As part of the project a park was constructed at the intersection of South Main Street and Platts Mill Road. The park included 120-foot boardwalk on piles through wetlands, a precast concrete restroom facility with water, sewer and electricity, a picnic shelter, outdoor amphitheater, kayak launch into the Naugatuck River, multiple wood stairs connecting walking paths and unique park features. The park included work adjacent to a pre-European archaeological resource which required extensive coordination with State Historic Preservation Office and Archaeologist to conduct excavations and surveys prior to commencing construction activity in the vicinity. Power and communication overhead utilities were relocated, requiring extensive coordination with each utility to ensure the project schedule was maintained and to limit the duration of the detour. SLR provided Construction Inspection services in accordance with the CT DOT Construction Manual and Municipal Manual. Routine coordination took place between the CT DOT District 4 MSAT team and CT DOT Material Testing Laboratory. The project was constructed on schedule and under budget.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| e. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

|   |  |   |
|---|--|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>8</b>          |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Magnolia Hill Road and Wood Creek Road Bridges (SPN 10-89), Bethlehem, CT   |  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2021 |

**23. PROJECT OWNER'S INFORMATION**

|                                       |  |   |
|---------------------------------------|--|---|
| a. PROJECT OWNER<br>Town of Bethlehem | b. POINT OF CONTACT NAME<br>Mr. Leonard Assard | c. POINT OF CONTACT TELEPHONE NUMBER<br>(203) 266-7510 Ext. 1 |
|---------------------------------------|--|---|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 10-89

At Magnolia Hill Road and Wood Creek Road, SLR performed hands-on inspections to identify existing deficiencies needing to be addressed under the FLBP Preservation Program. At Magnolia Hill Road, this involved repairs to the concrete deck, installation of new membrane waterproofing, reconstruction of the existing curbs and installation of new bridge rail, construction of concrete end blocks, and installation of new guiderail on the approaches to bring the existing safety features up to current standards. Early in the design process, SLR had noted insufficient drainage at the site was resulting in standing water on the bridge which was contributing to the deterioration of the bridge deck. In order to improve the longevity of the bridge repairs, the project also incorporated drainage improvements and the introduction of scuppers on the bridge itself. This site also involved extensive property owner coordination and development of specialized construction staging to accommodate the active farming operation which utilized the bridge on a daily basis. At Wood Creek Road, a new waterproofing membrane was installed, the expansion bearings were replaced, and the existing steel girders sandblasted and repainted to protect against corrosion. Similar to Magnolia Hill, the curbs were reconstructed to allow for the installation of new



bridge rail, new end blocks were constructed, and the approach guiderail was replaced. In addition to a hands-on inspection, SLR also coordinated concrete sampling of the deteriorated concrete of one of the existing abutments to inform the proposed repair design. The work done on these two bridges addresses existing structural and safety deficiencies and will extend their useful service life. The firm provided full-time resident inspection services for both projects, concurrently.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |



|   |  |   |
|---|--|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |  | 20. EXAMPLE PROJECT KEY NUMBER<br><b>9</b>          |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Heatherwood Drive over Camp Laurelwood Brook, Madison, CT   |  | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2022 |
|   |  | CONSTRUCTION <i>(If applicable)</i><br>2022         |

**23. PROJECT OWNER'S INFORMATION**

|                                     |  |  |
|-------------------------------------|--|--|
| a. PROJECT OWNER<br>Town of Madison | b. POINT OF CONTACT NAME<br>Mr. Robert Russo | c. POINT OF CONTACT TELEPHONE NUMBER<br>(203) 245-5610 |
|-------------------------------------|--|--|

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)***

State Project No. 75-136

SLR was retained by the Town of Madison to perform an inspection of the existing culverts at Heatherwood Drive over Camp Laurelwood Brook and preparation of the funding application for the Federal Local Bridge program. Following the acceptance of the bridge into the FLBP, SLR is providing design services for the replacement of the culvert. The design conforms to CTDOT and federal standards. The existing culvert, constructed in 1978, is comprised of three corrugated steel arch pipes roughly 6 feet wide by 3.5 feet high. The arch pipes had become heavily corroded with numerous perforations along the invert and scour up- and downstream of the culvert was undermining the pipe ends and making the crossing impassable to aquatic species. The firm performed a visual inspection, identified existing deficiencies, evaluated potential replacement alternatives, and assisted the Town in applying for and obtaining funding through the Federal Local Bridge Program. Services during the design phase include hydrologic, hydraulic, and scour analysis; wetland delineation; permitting; and transportation, geotechnical, and structural engineering services. SLR also conducted a public informational meeting and utility coordination. A Preliminary Engineering Report was completed considering environmental impacts and structure longevity along with construction costs, duration, and future maintenance costs. The study showed that a full bridge replacement using a precast concrete open-bottom box was the most cost-effective solution. Bedrock was encountered at highly variable depths during the geotechnical investigation. The culvert will be supported by one spread footing on bedrock and one footing with piles. The need for piles was driven by the high level of scour identified during design. The open bottom structure will restore the natural streambed and eliminate the localized contraction scour caused by the undersized pipes. Modifications to existing drainage outfalls will improve water quality in Camp Laurelwood Brook. The project went to construction in Spring 2022.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

|    |  |  |   |
|----|--|--|---|
| a. | (1) FIRM NAME<br>SLR International Corporation | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. | (1) FIRM NAME                                  | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

|   |   |   |
|---|---|---|
| <b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br><i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i> |   | 20. EXAMPLE PROJECT KEY NUMBER<br><b>10</b> |
| 21. TITLE AND LOCATION <i>(City and State)</i><br>Smokey Hollow Road Bridge over Bantam River, Morris, CT   | 22. YEAR COMPLETED<br>PROFESSIONAL SERVICES<br>2020 |   |

|                                    |  |  |
|------------------------------------|--|--|
| 23. PROJECT OWNER'S INFORMATION    |  |  |
| a. PROJECT OWNER<br>Town of Morris | b. POINT OF CONTACT NAME<br>Mr. Tom Weik | c. POINT OF CONTACT TELEPHONE NUMBER<br>(860) 567-7431 |

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

State Project No. 86-90-FLBP

SLR prepared design and construction documents for rehabilitation of the Smokey Hollow Road Bridge over Bantam River under the CTDOT Federal Local Bridge Program (FLBP). The existing bridge was an 84-foot steel superstructure comprised of twin 42-foot spans supported by cast-in-place concrete abutments and center pier. The existing bridge supported a very rural roadway with one lane in each direction. SLR was initially tasked with evaluating superstructure replacement alternatives. During the course of preliminary engineering, it was determined that the existing bridge was significantly undersized hydraulically and could not accommodate the 50-year design flood event. In addition to the flooding concern, it was also found that removal of the scour critical center pier and conversion of the structure to a single span would overload the existing abutment founded on erodible soil. Following the conclusion of the initial study, the Town and CTDOT requested a brief value engineering review to identify potential cost savings given that a superstructure replacement was no longer feasible. The result of that review was a hybrid approach which involved reusing the existing abutment founded on bedrock, removal of the scour critical center pier, and reconstruction of the second abutment which required replacement to accept the new superstructure loads. The new abutment was relocated, increasing the span length to 94-feet, improving the hydraulic capacity. The abutment was also founded on piles pinned to bedrock to address scour concerns. After consultation with and approval from CTDOT, the bridge was also converted to a single lane bridge with stop-controlled approaches due to an ADT well below 100. The existing 20-foot curb-to-curb superstructure width was reduced to 14-feet on the new bridge. This approach helped reduce the cost of the project and bring the overall budget in line with the initial grant amount. The superstructure consisted of metalized steel girders with a reinforced concrete deck. In addition to design services, SLR also provided full-time construction inspection and was on the site at all times when the contractor was working. Responsibilities included: Observing the work in progress; keeping daily inspection logs; interfacing with CTDOT's District 4 construction office; and interfacing with the design team.



|   |  |   |
|---|--|---|
| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT |  |   |
| a. (1) FIRM NAME<br>SLR International Corporation   | (2) FIRM LOCATION <i>(City and State)</i><br>Cheshire, Connecticut | (3) ROLE<br>Construction Engineering & Inspection |
| b. (1) FIRM NAME                                    | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| c. (1) FIRM NAME                                    | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |
| d. (1) FIRM NAME                                    | (2) FIRM LOCATION <i>(City and State)</i>                          | (3) ROLE  |

[illegible]

## 29. EXAMPLE PROJECTS KEY

| NO. | TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>              | NO. | TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>                              |
|-----|---|-----|---|
| 1   | Vineyard Road Bridge over Burlington Brook, Burlington, CT    | 6   | Bridge Replacement at Dart Hill Road over Hockanum River, Vernon, CT          |
| 2   | Dublin Hill Bridge Replacement over Ponset Brook, Haddam, CT  | 7   | Waterbury Naugatuck River Greenway (CTDOT Project No. 151-321), Waterbury, CT |
| 3   | Pleasantview Drive Bridge Replacement, Vernon, CT             | 8   | Magnolia Hill Road and Wood Creek Road Bridges (SPN 10-89), Bethlehem, CT     |
| 4   | River Road Bridge over Pomeraug River (LOTICIP) Southbury, CT | 9   | Heatherwood Drive over Camp Laurelwood Brook, Madison, CT                     |
| 5   | Nonnewaug Road Bridge (SPN 10-88), Bethlehem, CT              | 10  | Smokey Hollow Road Bridge over Bantam River, Morris, CT                       |



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## H. ADDITIONAL INFORMATION

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30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

SLR International Corporation (SLR) is an international environmental consultancy that provides tailored environmental and engineering services across seven industry sectors – built environment, industry, infrastructure, mining & minerals, energy, power, and financial services. For the past 20 years, SLR has been known for providing clients with cutting-edge, creative business solutions.

In the United States, SLR has over 500 employees located throughout 41 offices. Our team represents a broad and diverse range of technical and environmental capabilities. SLR's professionals offer a blend of experience incorporating engineers, geologists, planners, remediation specialists, regulatory and compliance specialists, and environmental scientists.

### Firm Capabilities

#### Construction Administration & Inspection Services

Over the firm's history, we have developed a service portfolio that displays its capability to meet client needs from project feasibility through construction. SLR administers construction support services that are an invaluable asset to our major design disciplines, providing the expertise of qualified professionals and field technicians in construction administration, engineering, and inspection. Members of the team are certified by National Institute for Certification in Engineering Technologies (NICET), the American Traffic Safety Services Association (ATSSA), and the North East Transportation Technician Certification Program (NETTCP). The firm's construction-phase services include bidding assistance, periodic site observations, resident engineering, review of contract submittals and payment requisitions, and project closeout. Our project experience includes bridges, roadways, dams, park and recreational facilities, parking lots, bikeways, and subdivisions. SLR's inspectors are familiar with state and federal bookkeeping standards, and construction personnel are familiar with the Connecticut Department of Transportation's (CTDOT) policies and procedures.

Our Construction Division is sizable, local, and cohesive. We operate throughout the state and the Northeast, with a home base in Cheshire, Connecticut. We have more than a dozen full-time, dedicated construction specialists. Unlike hiring practices at many firms whereby construction specialists are hired for a particular project or are seasonal in nature, we maintain a full-time, year-round, dedicated construction team. Many of our construction specialists have been with the firm for over 15 years.

#### Bridge Inspection & Design

Our staff of structural, transportation, civil, environmental, and hydraulic engineers have provided bridge inspections and evaluations, permitting, design, and construction inspection of bridge rehabilitation and replacement projects. SLR has successfully designed bridge replacement and rehabilitation projects throughout our firm's history and has been prequalified by the Connecticut Department of Transportation (DOT) and MaineDOT in this category for several years. Our bridge designs have ranged from large multibridge interstate projects to small local road crossings, many of which have been funded through State DOT and Federal Highway Administration (FHWA) bridge programs. In addition to our bridge work, we have designed countless culverts including precast concrete box and arch culverts. Our in-house capabilities also include bridge inventory and condition inspection, with licensed professionals having FHWA-sponsored program training entitled "Safety Inspections of In-Service Bridges."

#### Bridge Scour Analysis and Protection

SLR has performed scour analysis at many types of bridges under a range of field conditions, including scour analysis and protection for new bridges; routine bridge inspections and bridge repairs; plus, bridges influenced by our dam removal, river restoration, and flood control projects. Bridge scour investigations range from visual inspections and plan review to detailed hydraulic studies and computer modeling in addition to structural design of scour countermeasures. The latter countermeasures must consider geologic conditions, flood-flow velocities, shear stress, fish passage and habitat, and aesthetics and costs.

#### Culvert and Bridge Passage

SLR has experience in the inspection, planning, design, and construction of culverts and bridges with provisions for fish passage. Our water resources engineers working alongside our highway and structural engineers have used numerous techniques to improve fish passage, including:

- Concentration of low flows
- Minimization of velocity
- Provision of adequate water depth
- Use of "open bottom" culverts and bridges
- Application of natural substrates over scour measures
- Avoidance of "perched" culvert ends
- Depression of inverts below the stream bed profile
- Prevention of hydraulic jumps

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## I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

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31. SIGNATURE



32. DATE

2/22/2024

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER **(If any)**

## PART II - GENERAL QUALIFICATIONS

**(If a firm has branch offices, complete for each specific branch office seeking work.)**

|  |  |  |  |                       |  |                          |
|--|--|--|--|-----------------------|--|--------------------------|
| 2a. FIRM (OR BRANCH OFFICE) NAME<br>SLR International Corporation                        |  |  | 3. YEAR ESTABLISHED<br>2000                      |                       | 4. UNIQUE ENTITY IDENTIFIER<br>003590994 |                          |
| 2b. STREET<br>99 Realty Drive  |  |  | 5. OWNERSHIP                                     |                       |  |                          |
| 2c. CITY<br>Cheshire   |  |  | 2d. STATE<br>CT                                  | 2e. ZIP CODE<br>06410 |  |                          |
| 6a. POINT OF CONTACT NAME AND TITLE<br>Stephen R. Dietzko, PE, Vice President            |  |  | a. TYPE<br>Corporation                           |                       |  |                          |
| 6b. TELEPHONE NUMBER<br>(203) 271-1773   |  |  | 6c. E-MAIL ADDRESS<br>sdietzko@slrconsulting.com |                       |  | b. SMALL BUSINESS STATUS |
| 8a. FORMER FIRM NAME(S) <b>(If any)</b><br>Milone & MacBroom, Inc.                       |  |  | 8b. YR. ESTABLISHED<br>1984                      |                       | 8c. UNIQUE ENTITY<br>174825307           |                          |
| 7. NAME OF FIRM <b>(If block 2a is a branch office)</b><br>SLR International Corporation |  |  |  |                       |  |                          |

### 9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline                    | c. No. of Employees |            | a. Profile Code | b. Experience                                    | c. Revenue Index Number<br><b>(see below)</b> |
|------------------|----------------------------------|---------------------|------------|-----------------|--|---|
|                  |                                  | (1) FIRM            | (2) BRANCH |                 |  |   |
| 02               | Administrative                   | 68                  | 20         | A01             | Acoustics, Noise Abatement                       | 6   |
| 08               | CADD Technician                  | 5                   | 4          | B02             | Bridges  | 5   |
| 12               | Civil Engineer                   | 29                  | 17         | C07             | Coastal Engineering                              | 2   |
| 15               | Construction Inspector           | 13                  | 8          | C15             | Construction Management                          | 6   |
| 16               | Construction Manager             | 2                   | 1          | D01             | Dams (Concrete, Arch)                            | 2   |
| 19               | Ecologist                        | 4                   | 1          | D01             | Dams (Earth; Rock); Dikes; Levee's               | 2   |
| 24               | Environmental Scientist          | 131                 | 3          | E09             | Env. Impact Studies/Assess./Statements           | 4   |
| 27               | Foundation/Geotechnical Engineer | 24                  | 5          | E11             | Environmental Planning                           | 3   |
| 29               | GIS Specialist                   | 4                   | 1          | F04             | Fisheries, Fish Ladders                          | 4   |
| 30               | Geologist                        | 18                  | 0          | H01             | Harbors; Jetties; Piers, Ship Terminal Fac.      | 2   |
| 32               | Hydraulic Engineer               | 4                   | 1          | H07             | Highways; Streets; Airfield Paving; Parking lots | 5   |
| 34               | Hydrologist                      | 1                   | 0          | L03             | Landscape Architecture                           | 5   |
| 38               | Land Surveyor                    | 11                  | 11         | P06             | Planning (Site, Installation, and Project)       | 3   |
| 39               | Landscape Architect              | 16                  | 11         | R04             | Recreation Facilities (Parks, Marinas, Etc.)     | 3   |
| 47               | Planner: Urban/Regional          | 11                  | 3          | R11             | Rivers; Canals; Waterways; Flood Control         | 2   |
| 48               | Project Manager                  | 63                  | 9          | S04             | Sewage Collections, Treatment, and disposal      | 5   |
| 52               | Sanitary Engineer                | 2                   | 2          | S09             | Structural Design; Special Structures            | 3   |
| 56               | Specification Writer             | 0                   | 0          | S10             | Surveying; Platting; Mapping; Floodplain Studies | 5   |
| 57               | Structural Engineer              | 7                   | 6          | S13             | Storm Water Handling and Facilities              | 3   |
| 60               | Transportation Engineer          | 17                  | 8          | T03             | Traffic and Transportation Engineering           | 3   |
| 62               | Water Resource Engineer          | 29                  | 7          | U02             | Urban Renewals; Community Development            | 3   |
|                  |                                  |                     |            | W02             | Water Resources; Hydrology; Ground Water         | 5   |
|                  |                                  |                     |            | W03             | Water Supply; Treatment and Distribution         | 3   |
| <b>Total</b>     |                                  | <b>459</b>          | <b>118</b> |                 |  |   |

### 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

### 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS **(Insert revenue index number shown at right)**


|                     |    |
|---------------------|----|
| a. Federal Work     | 3  |
| b. Non-Federal Work | 10 |
| c. Total Work       | 10 |

### PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- |   |   |
|---|---|
| 1. Less than \$100,000                  | 6. \$2 million to less than \$5 million   |
| 2. \$100,000 to less than \$250,000     | 7. \$5 million to less than \$10 million  |
| 3. \$250,000 to less than \$500,000     | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater               |

### 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

|  |  |                              |
|--|--|------------------------------|
| a. SIGNATURE<br> |  | b. DATE<br>February 22, 2024 |
| c. NAME AND TITLE<br>Stephen R. Dietzko, PE, Vice President  |  |                              |

