



**Letter of Interest for
Statewide on-call Construction Engineering
and Inspection Services Prequalification**

January 18, 2024



25 Vaughan Mall
Portsmouth, New Hampshire
99 North State Street
Concord, New Hampshire

**Submitted to:
New Hampshire
Department of
Transportation**

N3146

January 18, 2024

Tobey Reynolds, PE, Assistant Director of Project Development
Chairperson, Consultant Selection Committee
New Hampshire Department of Transportation
7 Hazen Drive, PO Box 483
Concord, NH 03302-0483

***Re: Statewide On-Call Construction Engineering and Inspection Services -
Pre-Qualified List of Consultants for Locally Administered Local Public Agency (LPA)
Qualifications-Based Selection Contracts***

Dear Mr. Reynolds and Members of the Selection Committee:

We are pleased to submit this Letter of Interest for the LPA Pre-Qualified Selection for Construction Engineering and Inspection Services.

At its core, we focus on municipal clients and public infrastructure, whether that is buried utility and treatment, or roadway, sidewalk and drainage. We are known for our responsiveness to client needs and going the extra mile to maintain the project schedule and budget. Through our 40 years of serving NH communities, we have assisted our clients with many LPA projects, particularly when other funding, such as SRF, was also being utilized. In addition to our LPA-specific projects, we have delivered countless utility projects for municipalities within the Department's right-of-way, making us thoroughly knowledgeable of the DOT's roadway design and engineering standards.

The attached qualification package features a number of projects that Underwood has performed along with the resumes of our staff who maintain LPA certifications.

Please feel free to contact either of us with any questions you may have.

Very truly yours,
UNDERWOOD ENGINEERS, INC.



Robert J. Saunders, PE
Project Manager



David J. Mercier, PE
Vice President & Treasurer

project understanding & approach

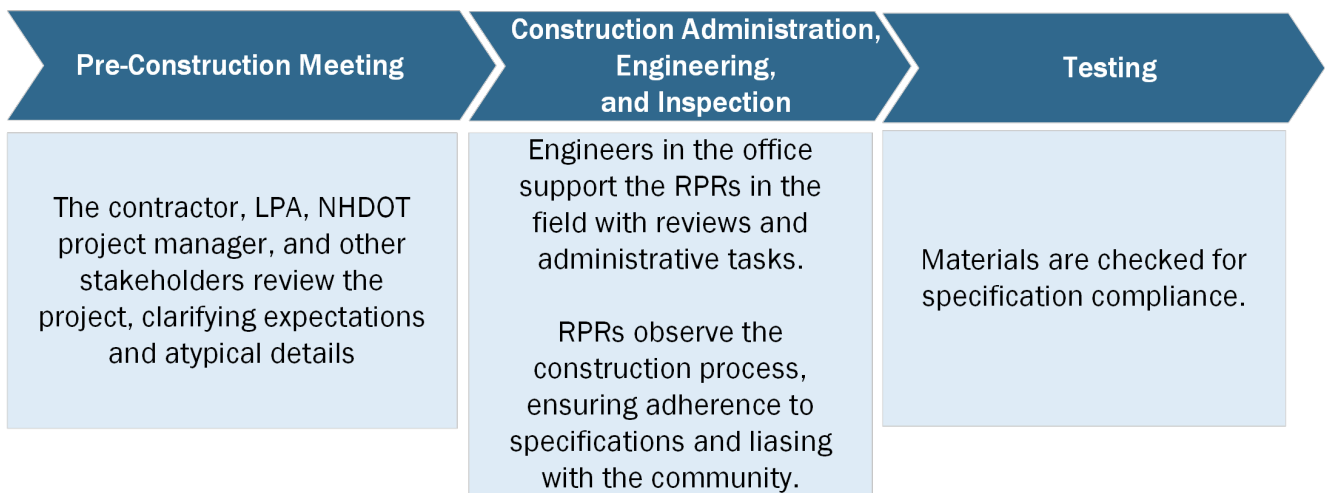
Project Understanding

We understand that the intent of NHDOT pre-qualifying potential civil design consultants for Local Project Agency (LPA) projects is to streamline the process for everyone, particularly the LPA. We applaud this effort by the Department. As every LPA project is going to be different, the consultant selection through Quality Based Selection (QBS) must also be customized to the project need. If shortlisted by the LPA, we will familiarize ourselves with the project needs and goals and from there, assemble the best project team from our current staff, members of our staff that maintain LPA certifications.

We understand that if selected as the preferred consultant by the LPA a scope and budget for the design work is generated and verified through an independent government estimate. Once a work scope and fee are agreed upon, a notice to proceed will be issued.

Once contracted, we would approach an LPA project in much the same way that we do every project – as a closely collaborative effort focused on the community’s needs and wishes while satisfying the regulating and funding entities’ requirements.

The workflow of a typical LPA construction project includes the following tasks.



Pre-Construction Meeting

Before the Contractor takes possession of the site, a pre-construction meeting is required. The meeting will include the contractor, LPA and NHDOT project manager, at a minimum. Other interested parties, such as the NHDOT District, are typically invited as well. The purpose of the meeting is to review the project with the contractor, indicating atypical requirements or restrictions on the project; threatened or endangered species, traffic flow, pedestrian safety, and work hours are typical examples.

Construction Engineering and Inspection

LPA projects require presence on the site to track and observe the construction progress. This effort is often “near full time” leaving most LPAs in a lurch without the extra staff to take on that role. We maintain a group of personnel specifically dedicated to overseeing construction projects through to completion.



project understanding & approach

These Resident Project Representatives (RPRs) are trained, knowledgeable and experienced in construction observation and reporting. The RPR's role is to observe the construction progress to ensure it is compliant with the plans and specifications, as well as any other environmental, traffic and testing commitments. The RPR is also responsible for maintaining daily field reports, tracking project quantities, and reviewing contractors' applications for payment.

Construction Administration

To support the RPR in the field, engineering staff in the office assist by reviewing contractors shop drawings and submittals, track, and review contractor's weekly payroll submissions, reviewing contractor's request for information and change orders, facilitate progress meetings and prepare monthly status reports.

Testing

The testing needs of a construction project are project specific. The utilities themselves may have their own testing requirements before the utility can be placed in service. Utility testing is often the responsibility of the contractor, however the RPR must coordinate and observe any test and maintain a record of the test results in the project records. Materials testing includes everything from whether the material is compliant with the specification to does it maintain compliance through the placement and compaction process. We maintain a roster of trusted subconsultants to perform these testing services for us.



project team

Project Team

We devote appropriately skilled staff to every project. We maintain workload projections and do not pursue work when we cannot meet the required schedule to achieve the client's needs. To best support the LPA requirements outlined in the RFQ, we have provided below information on our personnel who maintain LPA 2 certifications below, each with the roadway, sidewalk, drainage, and utility experience necessary to see an LPA project through construction. We have provided their names and titles along with a brief profile. Resumes are included as Appendix 1.

Underwood Engineers – LPA 2 Certified Personnel



Robert Saunders, P.E., Project Manager

Mr. Saunders' has 25 years of civil and environmental design experience. Robert particularly likes the challenges of linear projects such as roadway, sidewalks and utilities. He has also provided construction administration and observation services to municipalities across New Hampshire.



Allison Rees, P.E., Senior Project Engineer

Ms. Rees' experience includes roadway reconstruction, site planning, infrastructure improvements, new and replacement utilities, and federal labor compliance. She has worked with planning boards across the state on roadway and utilities projects, and has provided construction engineering and field representation for several communities.



Benjamin Dreyer, P.E., Senior Project Manager

Mr. Dreyer's focus on Low Impact Development (LID) in site and roadway drainage systems designs, along with his abundance of work in sidewalk, streetscape, resident engineering, and construction administration provide the breadth of experience necessary for work with local public agents.



Daniel Rochette, P.E., Technical Leader

Mr. Rochette is Underwood Engineers' ADA compliance specialist, and designs sewer and utilities improvements projects regularly exceeding 10,000 linear feet. Mr. Rochette is familiar with the NHDOT standard specifications and uses them when preparing project manuals.



Peter Pitsas, P.E., Senior Project Manager

Mr. Pitsas' 35 years of familiarity with construction management and engineering design has placed him at the helm of some of our most significant projects. He has coordinated funding for, and served as resident engineer on, a variety of NHDOT projects.



Joel Moulton, Construction Services Manager

Mr. Moulton oversees Underwood Engineers' construction services teams, and personally ensures construction work is done to spec, safely, and efficiently. Mr. Moulton's 15 years of experience as a Public Works Director grants him a holistic perspective on construction work, and what is best for the project and the clients we serve.

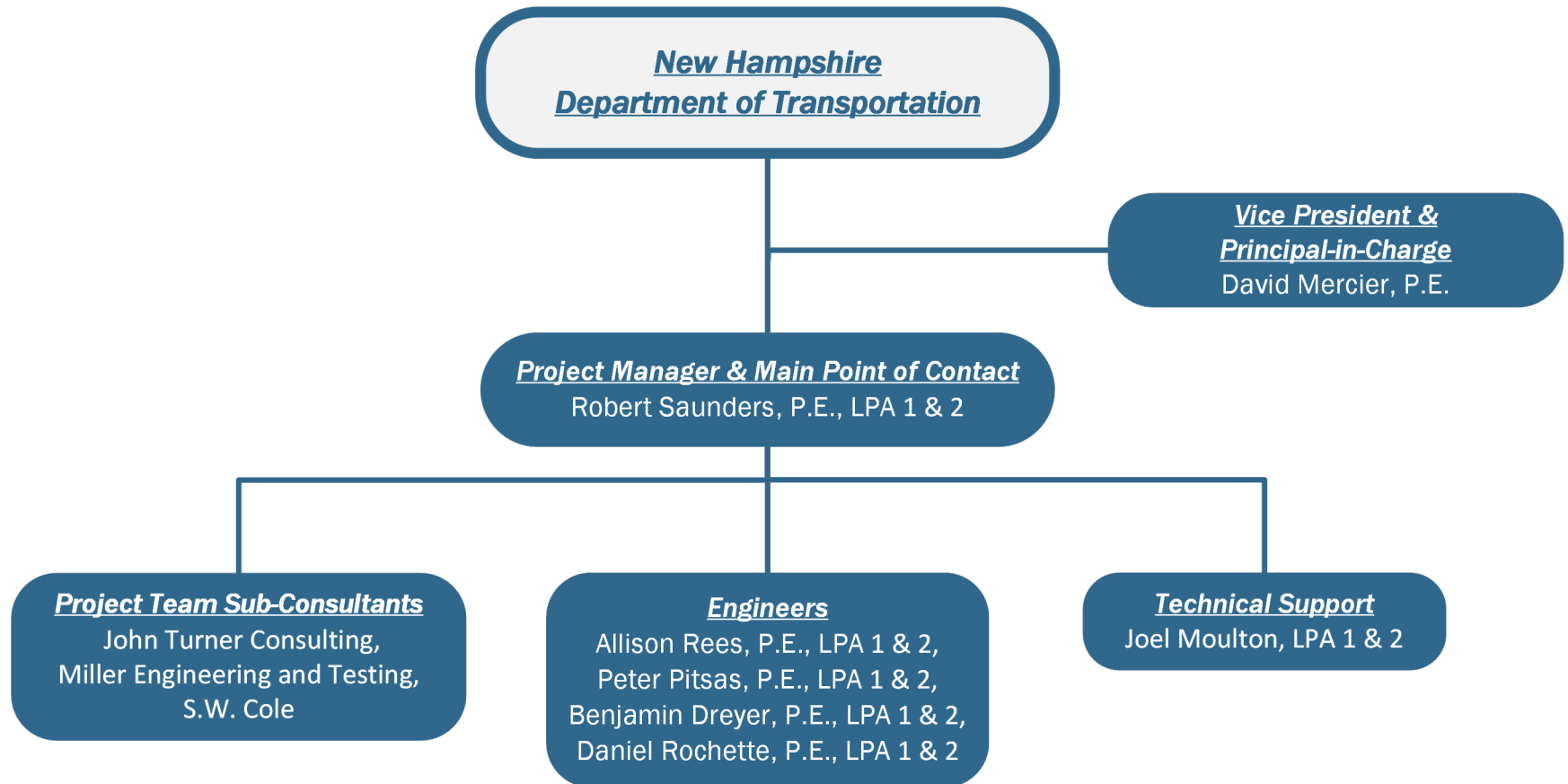


project team

Construction Engineering and Inspection Services in Support of LPA Projects		Years of Experience	Years with Firm	Technician Inspector I	Technician Inspector II	Technician Inspector III	Engineer Inspector I	Engineer Inspector II	Engineer Inspector III	Project Manager / Con. Eng of Record	Labor Compliance	Environmental Inspector	NH Licensed Professional Engineer	CESSWI Certified	CPESC Certified	NETTCP Certified	LPA 1 Certified	LPA 2 Certified
		Key Personnel	Title/Role															
Robert Saunders, P.E.	Project Manager	25	5							✓			✓				✓	✓
Allison Rees, P.E.	Senior Project Engineer	26	9								✓		✓				✓	✓
Ben Dreyer, P.E.	Senior Project Manager	17	17							✓			✓				✓	✓
Dan Rochette, P.E.	Technical Leader	17	17							✓			✓				✓	✓
Peter Pitsas, P.E.	Senior Project Manager	35	15							✓			✓				✓	✓
Joel Moulton	Technician Inspector III	32	4			✓				✓							✓	✓
Jordan Brock	Technician Inspector I	5	5	✓														
John Turner Consulting	Subconsultant	27	-										✓					
Miller Engineering and Testing	Subconsultant	48	-										✓					
S.W. Cole	Subconsultant	45	-										✓					



project team



client references

References

UE has a reputation for excellence and client care. The references listed below can attest to the extra effort we dedicate to our work, the professionalism we exhibit and the complexity of the problems we have solved on their behalf.

Client References		
<i>Town of Conway</i> <i>23 Main St</i> <i>Conway, NH 03818</i>	Paul DegliAngeli, P.E. Deputy Town Manager pauld@conwaynh.org	(603) 447-3811
<i>Town of Hooksett</i> <i>35 Main St</i> <i>Hooksett, NH 03106</i>	Bruce A. Thomas, P.E. Town Engineer BThomas@hooksett.org	(603) 264-8508
<i>City of Rochester</i> <i>209 Chestnut Hill Road</i> <i>Rochester, NH 03867</i>	Peter Nourse, P.E. Director of City Services peter.nourse@rochesternh.gov	(603) 332-4096



Robert J. Saunders P.E. Project Manager



rsaunders@underwoodengineers.com

Education

MS/2001
Bio-Resource Engineering;
University of Maine

BS/1997
Agric. and Env. Sys. Engineering
North Carolina A&T State University

Professional Registrations

Professional Engineer:
New Hampshire, Maine, Vermont

Subsurface Designer:
New Hampshire, Vermont

**NHDOT, Local Public Agency
Certification 1 & 2:**
New Hampshire

Technical Expertise

- Water, wastewater and drainage utility design engineering
- Roadway evaluation, design and engineering
- Site development, stormwater management and permitting
- Project estimation, bid administration and construction management

Years of Experience

Underwood Engineers: 5
Other Firms: 20

Professional Profile

Mr. Saunders' background is in environmental and civil engineering complimented with many years of direct field and construction inspection and observation. His technical experience includes planning, evaluation, analysis and design of roadway and utility improvements, civil-site development and drainage control, as well as peer reviews, funding assistance, and construction administration and observation.

Relevant Project Experience

Route 3A, Exit 10 and 11 TIF District improvements - Water and Sewer Infrastructure Extensions, Hooksett, NH

Design Manager responsible for reviewing and developing the technical viability of installing 15,000 LF of gravity sewer and 3,000 LF of water in the Exit 10 area, as well as 13,000 LF of sewer and 7,000 LF of water in the Exit 11 area. Each utility is administered locally by a public utility within the Town of Hooksett. Each TIF improvement area requires a new pump station with force main routes under the Merrimack River. Coordination of survey, geotechnical investigation, archeological and permitting with submittals to the Town, each utility precinct/commission, NHDES and NHDOT to evaluate and design the infrastructure upgrades to 100% plan development. Total construction cost for the project is currently estimated at \$28M. Construction Project Manager for the first construction contract totaling \$6M.

Water, Roadway and Sidewalk upgrades, Conway Village Fire District & Village of Conway, Conway NH

Senior Project Engineer responsible for the design of the water main replacement and roadway and sidewalk reconstruction for Main Street in Conway Village from West Main Street to the "four corners" intersection. Project consists of approximately 2,400 LF of roadway and drainage design with sidewalk and driveway tie-ins throughout. Water main replacement involved 2,300 LF of 12" main, valves, hydrants and other appurtenances. The roadway portion of the project is funded largely by NHDOT as an LPA project with the Village of Conway with the water main replacement funded by Conway Village Fire District through SRF . Construction cost was \$3.1M.

Dawson Silver Street Drainage & Sidewalk Improvements, Milton, NH

The drainage systems of Dawson and Silver Street were experiencing a variety of deficiencies including collapsed and undersized pipes and structures with ineffective inlets resulting in localized flooding, increased erosion and at times, roadway icing. A three-phase project was developed to replace and extend the drainage system along with the sidewalk. Phase 1 included large pipe replacements to address flooding being caused by collapsed inlets receiving out-of-ROW streamflows. Stormwater quality improvements with sidewalk extensions along Silver Street comprise the phase 2 project. The phase 3 project also includes stormwater quality improvements with sidewalk replacements. Project manager for the Phase 1 construction inspection and administration, which was completed in 2022 at a cost of \$500,000. The phase 2 construction project is scheduled for construction summer 2024 with a construction estimate of \$700,000.

Interstate 93 Widening, Salem-Windham, NH

I-93 stormwater management including, stormwater hydraulic analysis, bmp design and routing alternatives using HydroCAD and StormCAD. Pollutant loading management and coordination for the southern design team, consisting of four engineering firms, as well as the interface with the northern design team to satisfy the project commitment of "no net increase" of pollutants: total suspended solids, total nitrogen and total phosphorus. Presentation of proposed design alternatives to NHDOT, FHWA and NHDES. Responsibilities included: tracking the project wide/watershed totals and effects, calculations, analysis of stormwater treatment options and reporting. Quality Control reviews of plansets prior to submission, with focus on constructability and temporary drainage measures.

Allison M. Rees, P.E. Senior Project Engineer



arees@underwoodengineers.com

Education

BS/Civil Engineering, 1998
University of New Hampshire
Durham, NH

Professional Registrations

Professional Engineer:
Civil Engineer, New Hampshire

Local Public Agency Certified
NHDOT LPA 1 & 2, New Hampshire

Technical Expertise

- Planning Board services
- Environmental permitting
- Federal labor compliance
- Water and wastewater engineering studies, design
- Civil engineering design and construction administration

Years of Experience

Underwood Engineers: 17
Other Firms: 9

Professional Profile

Ms. Rees provides project engineering evaluations and design for water, wastewater, and site development projects. She has performed design work for roadway reconstruction, commercial sites, infrastructure improvements, new and replacement utilities, and water treatment and distribution. She handles the federal labor compliance (Davis-Bacon and DBE) requirements for all of Underwood Engineers' projects company-wide. She works with multiple Planning Boards doing design reviews and construction field services. Allison also prepares the majority of the company's environmental permitting applications, including wetlands, shoreland, historical and archaeological submittals, and environmental reviews for funding agencies.

Relevant Project Experience

Federal Labor Compliance, Various Municipalities in New Hampshire and Maine

Manages and tracks labor compliance for all federally-funded projects undertaken by Underwood Engineers over the past 15 years. Works extensively with the NHDES and MDEP on all of Underwood Engineers projects funded through SRF and ARPA, as well as prepares annual DBE reports for all NH SRF-funded projects company-wide. Similarly, coordinates federal compliance tasks with the Resident Project Representatives (RPR) for LPA projects administered through Federal Highway Administration (FHWA) via state Departments of Transportation. Maintains a current knowledge and understand of labor compliance, AIS and BABA commitments and reviews project conformance to these requirements.

NHDOT and DNCR Permits, Various New Hampshire Municipalities

Prepared and obtained NHDOT Long-Form Excavation Permits for projects all over New Hampshire of various types and sizes. Performed the environmental reviews necessary for the permits. Coordinated with the NHDOT and DNCR to obtain Use and Occupancy permits for multiple projects with impacts to Rail Trails and infrastructure within the NHDOT right-of-way.

Construction Phase Services, Various New Hampshire Municipalities

Served as the agent monitoring construction activities of developer-led projects to ensure that the work was in compliance with the design plans and approvals of local boards and committees. Work included review and approval of construction budgets for bonding, facilitation of pre-construction kick-off meetings, limited field observation with construction reports, identified punchlist and acceptance conditions near completion.

Wetlands and Shoreland Permits, New Hampshire

Prepared wetlands and shoreland permit applications for projects of various types, size and needs. Obtained permits for sites containing prime wetlands, threatened and endangered species, and sensitive communities. Prepared application packages for projects that spanned multiple properties, were partially within the NHDOT ROW, and across multiple municipal boundaries. Obtained permits for projects with coastal impacts, including salt marsh and tidal buffer zone.

PROFESSIONAL AFFILIATIONS

New Hampshire Society of Professional Engineers

Benjamin T. Dreyer, P.E. Senior Project Manager



bdreyer@underwoodengineers.com

Education

BS/2004/Civil Engineering;
University of New Hampshire
Durham, NH

Professional Registrations

Professional Engineer:
Civil Engineer
New Hampshire
Maine

Local Public Agency Certified
NHDOT LPA 1 & 2
New Hampshire

Technical Expertise

- Sustainable and Low Impact Site and Infrastructure Designs
- Civil engineering studies, design and construction
- Drinking water engineering studies, design and construction administration
- Funding Applications
- Permit Applications
- Planning Board Reviews
- Construction Engineering
- Roadway Design Engineering
- Environmental Permit Applications

Years of Experience

Underwood Engineers: 19

Professional Profile

Mr. Dreyer has a background in civil and environmental engineering, providing project engineering evaluations and designs with a developed focus on implementing practical Low Impact Development (LID) and Green Infrastructure (GI) into site and roadway/drainage system designs. He also has experience with sidewalk projects, streetscapes, sewer systems, water systems, site development, permitting, resident engineering, construction administration, Planning Board reviews, and funding programs—NHDES, NHDOT, USDA, FEMA.

Relevant Project Experience

CIVIL - INFRASTRUCTURE

Middleton Road Reconstruction, Wolfeboro NH

Middleton Road serves as a key arterial road connecting the central downtown area (NH Route 28) to abutting communities to the south including the Towns of New Durham, Middleton and Farmington. Middleton road is a historic travel route with road reconstruction work dating back to 1929 that was completed under the U.S. Works Recovery Program following the Great Depression. NHDOT ownership of Middleton Road was transferred to the Town of Wolfeboro during this project as part of the State Aid Reconstruction Program. NHDOT funding and participation from the Bureau of Planning Community Assistance was involved during road reconstruction and ownership transfer. The existing roadway was in a state of failure with significant rutting, heaving and potholes that created safety hazards for the travelling public. The road reconstruction project included 8,300 LF of full width road reclamation, closed drainage, open drainage and cross culvert replacements.

NH Route 108 Bike Lane and Shoulder Widening, Newmarket, NH

Underwood was selected by the Town of Newmarket to provide engineering services for bike lane construction on NH Route 108. Since the project receives federal funds under NHDOT's CMAQ program, the Local Public Agency process is required for implementation.

Main Street Reconstruction Phase 2, Newmarket NH

\$6 Mil reconstruction effort on Main Street (NH RTE 108) in the Historic Downtown District of Newmarket NH. Project improvements included full depth road reconstruction, water, sewer and drainage improvements (SAG funding), replacement of overhead utilities underground (NHDOT TE funding) and sidewalk improvements to enhance historic character (NHDOT TE funding). Drainage and road improvements were designed at the Lamprey River Boat Launch Access. The project required environmental documentation for USDA RD and NHDOT Bureau of Environment Programmatic Categorical Exclusion Determination.

Portsmouth Avenue Reconstruction & Sidewalks, Greenland, NH

The Town of Greenland selected Underwood Engineers to provide engineering services for sidewalk construction projects on two different town roadway corridors. The Portsmouth Avenue project was completed and included extending pedestrian sidewalks along the "Town Center" as part of a road reconstruction streetscape project designed to promote community identity and create a gateway feature to mark the Town Facilities Complex. The second project connected the pedestrian sidewalk corridor on Post Road Station at the elementary school to new sidewalks on Portsmouth Avenue.

Spur Road Reconstruction, Dover NH

Spur Road is located at the south end of Dover running parallel to the Spaulding Turnpike (NH Rte 16) and the Bellamy River. Several areas along

Peter J. Pitsas, P.E. Senior Project Manager



ppitsas@underwoodengineers.com

Education

BS/1988/Civil Engineering
University of New Hampshire

AA/1985/Architectural Engineering;
New Hampshire Technical Institute

Professional Registrations

Professional Engineer:
Civil Engineer
New Hampshire

Certified Operator:
Grade 3M WWTF
Massachusetts

**NHDOT, Local Public Agency
Certification 1&2:**
New Hampshire

Technical Expertise

- Project planning and funding resources.
- Design and construction management.
- Practical experiences through years of construction related work.
- Attention to client satisfaction.

Years of Experience

Underwood Engineers: 20
Other Firms: 15

Professional Profile

Mr. Pitsas has over 35 years of experience in environmental and general civil engineering projects. His experience includes surface water and groundwater treatment, water system planning and analysis, water storage, water distribution, wastewater collection and pumping, stormwater design, roadway and sidewalk reconstruction, sanitary landfill closure, subdivision review, and site design. His experiences also include construction management and/or observation for all of the above-referenced projects.

Peter is very familiar with the requirements for funding of water and wastewater projects through NHDES (SRF and SAG), Rural Development, the Community Development Finance Authority, and NHDOT (LPA). This understanding, coupled with his technical skills, has benefited his clients.

Relevant Project Experience

Water Main Replacements and Extensions, Various Communities, NH

Project Manager and/or Engineer for the design and Project Manager and/or Resident Engineer for the construction of 41 water main improvement projects that totaled over 141,000 feet (27 miles). The scope of the projects varied from work on state or town roads, some included complete roadway reconstruction, some were included in large NHDOT projects, and some included crossings of rivers, brooks, railroads, highways, and bridges.

Utility Replacement, Newport, NH

Project Manager and Engineer for the design and construction of a 3,900-foot utility replacement in the First through Fourth Street neighborhood. The scope of work included replacement of water, sewer, and drainage mains along the entire project and well as a new subsurface detention system. Included within the project was complete roadway reconstruction and creation of new turnarounds at the end of the four dead-end streets.

Sidewalk and Parking, Antrim, NH

Project Manager and Engineer for the design and construction of a 6,400-foot sidewalk and 2,000-foot parking improvement project. 4,200 feet of sidewalk and all of the parking improvements were along a state road (Route 202 and 31). Major funding was through the NHDOT LPA Program. Some of the major components included:

- Realignment of the state road to facilitate parallel parking on both sides by the Baptist Church.
- Installation of a pedestrian bridge which provides safe access across the brook without having to walk in the street.
- Installation of decorative lighting.

Sidewalk Replacement, Antrim, NH

Project Manager and Engineer for the design and construction of a 2,500-foot sidewalk project along a Route 202 and Elm Street. This project is an extension of an earlier project and includes replacement of an open drainage swale with closed drainage and extension of the decorative lighting system. Major funding was through the LPA Program.

Culvert Replacement, Antrim, NH

Project Manager for the design and construction of a culvert replacement project on Summer Street. The design utilized a 16-foot-wide precast concrete arch culvert and headwalls.

Joel C. Moulton III

Construction Services Manager



jmoulton@underwoodengineers.com

Education

ASS/Engineering Technology
New Hampshire Technical Institute
Concord, NH

Local Public Agency Certified
NHDOT & MEDOT LPA 2

Areas of Specialization

- Construction Management
- Municipal Operations and Budget Development
- Construction Estimating
- Project Cost Analysis
- Geotechnical Engineering
- Civil Engineering
- Landfill Engineering
- Utility Construction
- Construction Materials Testing

Years of Experience

Underwood Engineers:	4
Construction:	2
Municipal:	15
Other Firms:	15

Professional Profile

Mr. Moulton joined Underwood Engineers after 15 years working as a Public Works Director for two different communities both in New Hampshire and Maine. As a Public Works Director, Mr. Moulton provided leadership and management of multiple elements for municipal operations for Department of Public Works, including preparation and management of operational budgets for town roadways, and infrastructure utilities and bridges. Mr. Moulton planned, managed, and provided oversight for several construction projects including drainage, sewer and sewer pump station upgrades, and utility construction and roadway improvements.

During his career with Underwood Engineers, Mr. Moulton has helped administer large municipal construction projects, been an effective field liaison for various design teams and project managers.

His previous experiences (15 years) with Geotechnical Consulting, and as a construction foreman/superintendent with Sargent Corporation, further qualifies him to oversee and manage today's complex municipal public works projects.

Relevant Project Experience

Construction Services Manager

A Construction Services Manager for Underwood Engineers is responsible for Quality Assurance and Quality Control, Resource Management, and Construction Administration. Duties include but are not limited to establishing and identifying expectations for the construction services group, assisting project managers with relative project issues and review of shop drawings, assisting with standard construction specifications and details, developing staffing and manpower allocation plans for UE construction services projects, maintaining construction project schedules for 24-month projections, making and managing staffing recommendations for Project Managers, assisting RPR's in obtaining technical resources necessary to adequately perform their work, reviewing construction services budgets, supporting and assigning backup coverages, performing periodic construction site visits, and reviewing and approve construction methods after consultations with Project Managers and/or clients.

Islington Street Utility & Reconstruction, Portsmouth, NH

Resident Project Representative for water, sewer and drainage utilities upgrade and a roadway reconstruction project as part of a major capital project for the City of Portsmouth infrastructure improvement plan.




Old Fields Road Bridge Replacement, Town of Eliot and South Berwick, ME

In a joint effort between the two municipalities of Eliot and South Berwick, Maine a conceptual design was integrated and constructed using strictly town funding and resources to replace the shared bridge on Old Field's Road with a box culvert. The design was conceptual with both Public Works Directors of each municipality and constructed with Town Public Works employees. The joint effort saved each municipality approximately \$100,000.

Town of Farmington, NH,



Conceptually designed the upgrades of 5 local bridges and repaired the bridges using town forces to perform the repairs to remove the bridges from the NHDOT "Red List" for unsafe bridges. Additionally, using New Hampshire Bridge Aid Funding two complete bridge replacements were made .

project experience

CIVIL AND INFRASTRUCTURE		
PROJECT AND CONTACT INFORMATION	ENGINEERING SERVICES/PROJECT TEAM	PROJECT DESCRIPTION
<p>Town of Belmont Cotton Hill and Union Road Reconstruction</p> <p>Contact: Craig Clairmont Director of Public Works (603) 528-2677</p>	 <p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance</p> <p>Project Team: Dreyer, MacDonald</p>	<p>Major Components</p> <ul style="list-style-type: none"> ■ Drainage improvements, cross pipe replacements and additional underdrain. ■ Full depth excavation, reclamation, reclamation and re-handle, and shim/overlay. ■ Adjustments to the road profile and cross-sections to improve ride-ability and drainage. ■ Reconstruction/realignment of intersection to improve line of sight and traffic flow. ■ Wetlands permitting.
<p>Town of Boscawen, NH Jamie Welch Park Canoe Ramp Improvements</p> <p>Contact: Alan Hardy Co-Town Administrator (603) 753-9188, Ext. 305</p>	 <p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance (NHDES SRF, CDBG, NHDOT TE)</p> <p>Project Team: Pratt, MacDonald</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ Car top canoe ramp facility (NHFG access site) ■ Merrimack River experienced erosion and stormwater pollution due to existing ramp conditions ■ Resulting sand bar impacted river dynamics ■ Ramp improvements incorporated low impact development (LID) vegetated paver system ■ River bank and sand bar were restored to natural conditions
<p>Town of Conway & Conway Village District, NH Main Street Reconstruction</p> <p>Contact: Paul DegliAngeli, PE Town Engineer (603) 447-3811</p> <p>Bruno Vallieres Superintendent (603) 986-6159</p>	 <p>Engineering Services: Traffic Studies & Modeling, Public Meetings, Design, Construction, Funding Assistance, NHDOT LPA and NHDES SRF</p> <p>Project Team: Saunders, Mercier</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ 3,700 LF roadway geometry and intersection improvement design, drainage pipe, sidewalk and curb reconstruction ■ 2,100 LF water main replacement ■ 1,600 LF water services ■ Driveway repairs and restoration






project experience

CIVIL AND INFRASTRUCTURE		
<p>City of Dover, NH Silver Street Reconstruction</p> <p>Contact: J. Michael Joyal City Manager (603) 516-6023</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction Services, Funding Assistant (NHDOT SAR)</p> <p>Major Components</p> <ul style="list-style-type: none"> ■ 3,500 LF of box out roadway reconstruction ■ 3,800 LF drainage improvements ■ Low Impact Design including rain gardens and bio-retention tree ways ■ 2,800 LF of water distribution main and services ■ Gate way improvements <p>Project Team: Pratt, MacDonald, Rochette</p>
<p>Town of Exeter Portsmouth Avenue Water and Sewer Improvements</p> <p>Contact: Jennifer Perry P.E. Public Works Director (603) 773-6157</p>		<p>Engineering Services: Traffic Engineering, ROW Delineation Survey, Preliminary Design, Final Design, Construction</p> <p>Project Team: Dreyer, Melendy, MacDonald</p> <p>Major Components:</p> <ul style="list-style-type: none"> ■ Designed 4,000 LF of V.C. sewer replacement ■ Designed water improvements to mitigate a history of water main breaks ■ Designed 2,800 LF of geometric traffic improvements to improve traffic flow from the Commercial District into the Downtown corridor – 20,000 VPD ■ Coordinated intersection design at major shared business entrances and pedestrian circulation ■ Completed traffic operations assessment and developed recommended signalization sequences to optimize levels of service and reduce queuing volumes at major intersections






project experience

CIVIL AND INFRASTRUCTURE			
<p>Town of Greenland Portsmouth Avenue Reconstruction</p> <p>Contact: Matt Scruton Town Administrator (603) 431-7111</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance</p> <p>Project Team: Dreyer, MacDonald</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ 800 LF of sidewalk ■ 1000 LF of roadway reconstruction ■ Traffic calming ■ Streetscape, trees and roadside rain gardens ■ Ornamental lighting ■ Gateway elements and community identity goals ■ Connectivity for community nodes ■ Pedestrian facilities and enhancements
<p>Town of Hooksett, NH TIF Infrastructure Improvements Contracts 1-4</p> <p>Contacts: Bruce Thomas, PE Town Engineer (603) 419-4003</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance (NHDES GWT)</p> <p>Project Team: Saunders, Mercier</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ 4,700 LF Roadway Reconstruction ■ 32,000 LF Sewer ■ 11,000 LF Water ■ Two Pumpstations with forcemain
<p>City of Keene 2008, 2009, 2010, 2013 & 2014 Infrastructure Projects</p> <p>Contact: Donald Lussier, P.E. City Engineer (603) 352-6550</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance (NHDES SAG & SRF)</p> <p>Project Team: Pratt, Pitsas, Rochette, Dreyer</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ 43,600 LF of new granite curb/sidewalk ■ 23,000 LF of SDR 35 and DR 25 PVC sewer collectors ■ 24,000 LF of 8" to 12" DI water main ■ 26,100 LF of 12" to 24" CPE drain ■ 26,100 LF of box out roadway reconstruction including recycling of the existing concrete ■ Drainage Analysis ■ Coordination with Stakeholders






project experience

CIVIL AND INFRASTRUCTURE		
<p>Town of Milton, NH School Street Sidewalks</p> <p>Contact: Pat Smith DPW Director (603) 652-9891</p>		<p>Engineering Services: Design, Permitting, Bidding, Construction, Funding Assistance (CMAQ, SRTS)</p> <p>Project Team: Pratt, MacDonald</p> <p>Major Components</p> <ul style="list-style-type: none"> ■ Design and construction of 2,600 LF of sidewalks and curbing to connect Town school, Town facilities and residential neighborhoods. ■ Drainage improvements to adjacent stream and culvert ■ Federal funding through Congestion Mitigation and Air Quality (CMAQ) Improvement Grant
<p>Town of Newmarket, NH Main Street Reconstruction</p> <p>Contacts: Steve Fournier Town Administrator (603) 659-3617</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance (NHDES SRF, CDBG, NHDOT TE)</p> <p>Project Team: Dreyer, MacDonald</p> <p>Major Components:</p> <ul style="list-style-type: none"> ■ 7,000 LF Sidewalk ■ 5,000 LF Roadway Reconstruction ■ 3,900 LF Sewer ■ 5,200 LF Water ■ Road geometry to facilitate sidewalks and parking ■ Landscaping and lighting to blend with existing properties ■ Intersection improvements at Bennett Way and Terrace Drive ■ Emergency pre-emption lights at rail crossing
<p>City of Portsmouth, NH Lincoln Area Projects</p> <p>Contact: Peter H. Rice, P.E. Public Works Director (603) 427-1530</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction, Funding Assistance</p> <p>Project Team: Pratt, MacDonald, Rochette, Dreyer,</p> <p>Major Components:</p> <ul style="list-style-type: none"> ■ Drainage Study/Analysis ■ 30,600 LF of PVC Sewers ■ 30,000 LF of DI water main ■ 29,000 LF of 12" to 24" CPE drain ■ 27,000 LF of roadway reconstruction ■ 40,000 LF of curb and sidewalk ■ NHDES SRF & STAG Funding ■ Coordination with Stakeholders



project experience

CIVIL AND INFRASTRUCTURE			
<p>City of Rochester, NH Colonial Pines Sewer Extension and Road Reconstruction</p> <p>Contact: Peter Nourse PE Public Works Director (603) 332-4096</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction Services, Funding Assistance (NHDES SRF & SAG)</p> <p>Project Team: Rochette, Saunders</p>	<p>Major Components</p> <ul style="list-style-type: none"> ■ Extend new sewer collection system to neighborhood with failing septic systems ■ 25,000 LF of roadway reconstruction ■ 23,000 LF of gravity sewer ■ 16,000 LF of drainage improvement & replacement ■ Resident coordination to connect to new sewer system
<p>Town of Swanzey, NH Safford Drive Intersection Improvements at NH Route 12</p> <p>Contact: Michael Branley Town Administrator (603) 352-7411</p>		<p>Engineering Services: Study Phase, Traffic Engineering, Permitting, Design Phase, Construction (pending)</p> <p>Project Team: Dreyer, Pratt, Pernaw</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ Negotiated project design approach with NHDOT at scoping meeting for intersection improvements at Route 12 ■ Intersection improvements at NH Route 12 include roadway widening to facilitate 1,200 LF of right and left turn lanes ■ Developed traffic planning and build out concepts for anticipated development within adjacent Industrial Business (TIF) District served by the proposed Safford Drive ■ Traffic counts at Route 12 indicate volumes up to 13,000 vehicles per day
<p>Town of Wolfeboro, NH Port Wedeln Road Reconstruction</p> <p>Contact: David Ford, P.E. Public Works Director (603) 569-8176</p>		<p>Engineering Services: Preliminary Engineering, Design, Construction Services, Funding Assistance (NHDOT SAR)</p> <p>Project Team: Pratt, Dreyer</p>	<p>Major Components:</p> <ul style="list-style-type: none"> ■ NHDOT SAR funding ■ 7,000 LF of roadway reconstruction including full depth box out ■ 3,500 LF Closed Drainage (12"-24") ■ 10,000 LF Open Drainage Swales ■ Water quality swales and bioretention for stormwater treatment





**25 VAUGHAN MALL
PORTSMOUTH, NH 03801
PH: (603) 436-6192
FAX: (603) 431-4333
uei@underwoodengineers.com**

**99 NORTH STATE STREET
CONCORD, NH 03301
PH: (603) 230-9898
FAX: (603) 230-9899
concord@underwoodengineers.com**