



DECEMBER 2024

Letter of Interest
Statewide On-Call Preliminary Engineering Prequalified List of
Consultants for Locally Administered Local Public Agency (LPA)
Qualifications-Based Selection Contracts



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This Letter of Interest adheres to page requirements set forth in the solicitation for Letters of Interest.



December 18, 2024

Tobey Reynolds, PE
Assistant Director of Project Development
Chairperson, Consultant Selection Committee
7 Hazen Drive, PO Box 483, Concord, NH 03302

**SUBJECT: Statewide On-Call Preliminary Engineering
Prequalified List of Consultants for Locally Administered Local Public Agency (LPA)
Qualifications-Based Selection Contracts**

Dear Mr. Reynolds,


The state of New Hampshire, like many New England states, is relying on transportation infrastructure that is aging at a rapid pace. The New Hampshire Department of Transportation (NHDOT) partners with municipalities through the LPA process to maintain this infrastructure, and Wright-Pierce can assist. Wright-Pierce is a full-service civil and environmental engineering firm with a staff of over 350 engineers and support personnel with a seasoned track record you can count on. Since 1947, Wright-Pierce has been assisting municipalities in New Hampshire and beyond with their civil engineering needs. Our Transportation Infrastructure Group has successfully delivered road, bridge, and active transportation design services on over 30 municipally managed projects over the past four years. Working with Wright-Pierce offers the following:

- **Local New Hampshire personnel** dedicated to providing highly responsive service to the NHDOT and municipalities.
- **Responsive approach to municipal services** with well-defined workflows for managing projects through the LPA process.
- **Experience** with the NHDOT LPA process, including SBA, TAP, and MOBRR programs and with projects for statewide municipal clients.
- **An integrated team** of bridge, highway, and environmental professionals that can meet schedule and budget requirements.

Wright-Pierce Project Manager Jason Gallant, PE, is NHDOT LPA certified and well known in the New England infrastructure design and construction community having led over 50 successful projects for New Hampshire municipalities. Jason will be the point of contact for projects assigned under this contract, so please reach out to him should you have questions or require additional information. Principal-in-Charge, Ryan Wingard, is an authorized representative of Wright-Pierce and will commit staff and corporate resources for this contract.

Sincerely,

WRIGHT-PIERCE



Ryan T. Wingard, PE
Vice President, Principal-in-Charge
ryan.wingard@wright-pierce.com
207.523.1419



Jason L. Gallant, PE
Project Manager
jason.gallant@wright-pierce.com
603.570.7166

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Understanding LPA Contracts

Wright-Pierce works as an extension of our clients' staff and our role is to perform services according to your schedule, funding, and delivery needs in accordance with New Hampshire Department of Transportation (NHDOT) standards. Maintaining a dedicated New Hampshire staff of over 60 professionals with offices in Bedford and Portsmouth affords us the flexibility to do just that. Firm-wide, we have over 350 professionals across multiple fields of civil and environmental engineering that help to provide quality highway, bridge, and active transportation design services in accordance with NHDOT LPA program standards.

Our Project Manager, Jason Gallant, and supporting team offer successful project delivery experience under the State Bridge Aid (SBA), Congestion Mitigation and Air Quality (CMAQ), Transportation Alternative Program (TAP), and Municipal Off System Bridge (MOBRR) programs. Our team members also have experience with similar project funding programs including the MaineDOT LPA program, Community Development Block Grant (CDBG), Clean Water State Revolving Fund (CWSRF), FEMA Building Resilient Infrastructure and Communities Grants (BRIC), FEMA Pre-Disaster Mitigation Grants (PDM), and U.S. Department of Agriculture (USDA).

Bridge Engineering

Across the United States, significant attention has been focused on the fact that the rate of deterioration of our bridges has far exceeded the rate of investment in replacement or substantial rehabilitation efforts of these structures. Our bridges are falling apart more quickly than we are repairing them. Wright-Pierce provides a wide range of engineering services associated with bridge and ancillary transportation structures. We understand various rehabilitation methodologies available and advise our clients regarding cost-effective means of keeping bridges safe and functional. We have engineered the construction of dozens of new bridges and have recent, hands-on experience in the use of pre-engineered structures for both highway and pedestrian applications.

Highway and Roadway Design

Wright-Pierce assists municipalities and state transportation agencies with the construction of new highways, rehabilitation of roadways, and regulatory and administrative aspects of such projects. We have provided planning and design services for highway projects in many states and are familiar with design standards and variations in technical specifications pertaining to geometrics, pavements, drainage facilities, and ancillary elements.

Active Transportation

Wright-Pierce understands the vital role that active, non-motorized transportation including biking, walking, or rolling plays within the greater transportation network. Our active transportation work for municipalities and state transportation agencies includes planning, design, and construction of active transportation facilities as stand-alone projects or integrated into projects associated with traditional transportation projects with vehicular traffic primarily moving goods and people. We are familiar with the Americans with Disabilities Act (ADA) standards and Public Right-of-Way Accessibility Guidelines (PROWAG) that influence the design of these important facilities.

Subconsultant Management

Our approach to subconsultant management is to take full responsibility for each of our subconsultants. Because subconsultants have a major impact on the successful delivery of any project, we develop long-standing relationships with subconsultants that perform services for our projects. We have worked with all subconsultants presented on this team on several continuing services contracts and they continue to perform well for us and our clients.

Adhering to Schedule & Budget

Wright-Pierce uses BST10 as our project management system. BST10 is an industry-leading software program used for project initiation, project tracking, resource allocation, time management, and accounting. At the initiation of a project, our Project

Manager inputs data related to the project team, tasks and subtasks, hours, and schedule. This information is then incorporated into a company-wide resource management tool capable of reporting the availability of individual employees and entire project teams. Project Managers are required to update the hour projections for each team member monthly. Our Operations Managers then run biweekly reports to assess staffing needs to keep projects on track. We also conduct weekly resource planning meetings on local, regional, and corporate levels to identify potential schedule issues and overloaded or underloaded staff. This two-pronged approach allows us to proactively manage our resources and maintain project schedules.

On large projects with multiple subconsultants, the Project Manager establishes an effective protocol to communicate information in a timely fashion to maintain the project schedule. Our team has been

using and will continue to use Microsoft Teams for project meetings and SharePoint for internal data transmission and data management needs. These tools enable our personnel to effectively communicate face-to-face even when miles apart.

LPA Project Approach

Since 1947, we have worked on thousands of projects and developed a proven project approach that each of our project managers implements on every project, to the extent possible. We collaborate with clients to refine our approach and customize it to fit each project's goals, budget, and schedule.

A typical engineering project would follow the various phases of work identified in the graphic below in accordance with the NHDOT LPA process. We understand NHDOT updated their Preliminary Design Standard Matrix for consultants in October 2024 and our process will adhere to these changes.

1

Engineering Study

- Local Concerns Meeting
- Purpose and Need Statement
- Existing Conditions
- Design Criteria
- Preliminary Engineering Report
- Alternatives Analysis/Proposed Layout
- Structure Study and Recommendation
- Cost Estimate
- Public Presentation
- Submission to Municipality and NHDOT

2

Preliminary Design

- Incorporate Engineering Study Comments
- Preliminary Plans
- Environmental Documents
- ADA Compliance
- Miscellaneous Details
- Cost Estimate
- Submission to Municipality and NHDOT

3

Final Design

- Incorporate Preliminary Design Comments
- Final Plans
- Technical Specifications
- Draft Bid Package
- Final Estimate
- Submission to Municipality and NHDOT

4

Bidding Support

- Incorporate Final Plan Comments
- Incorporate Technical Specification Comments
- Finalize Bid Package
- NHDOT Approval to Advertise Contract
- Website File Hosting and Plan Holders List
- Respond to Bidder Questions
- Issue Bid Addenda as Needed
- Open and Canvas Bids
- NHDOT Approval to Award Contract

3

Our Team Dedicated to Your Project

From our full-service, diverse staff of experienced engineering professionals, technicians, and support personnel, we have assembled a project team with many years of demonstrated practical experience completing similar projects. To find the best solution, working together as a team will be essential, and our team is committed to working with you.

Jason Gallant, PE will be your dedicated Project Manager for this contract. He has 28 years of experience working on transportation projects and has direct experience working with NHDOT and New Hampshire Municipalities. Read more about the team in the following section and in Appendix A of this submittal.



PRINCIPAL-IN-CHARGE

Ryan Wingard, PE

TECHNICAL ADVISORS

Matt Severson, PE – Bridges
 Jan Wiegman, PE – Highway
 Chris Berg, PE – Utilities

PROJECT MANAGER

Jason Gallant, PE

BRIDGE

Jason Gallant, PE – Lead
 Westley Nuhn, PE
 Jason Powell, PE
 Jaime Wallace, PE
 Ryan Quaglieri, EIT
 Katherine Bemis, EIT
 Max Perrault
 Ken Muamba

HIGHWAY

Britt Eckstrom, PE – Lead
 Owen Chaplin, PE
 Charlie Daigle, PE
 Jake Shactman, PE
 Miranda Pierre, EIT
 James Michaud
 Matt LaPierre

TRAFFIC

Traffic Subconsultant
Sewall Infrastructure
 Diane Morabito, PE, PTOE
 Lynn Frazier, PE, PTOE

SUPPORT SERVICES

Hydrology & Hydraulics
 Ryan Wingard, PE
 Steve Guerrette, PE
 Alex Liptak, PE

Public Information
 Jason Gallant, PE
 Kalle Maggio, PLA
 Faye DeMoura, CPSM

Survey Subconsultant
Doucet Survey
 Jack Kaiser, PS

Environmental/Permitting
 Britt Eckstrom, PE
 Nate Edwards, PE
 Jake Shactman, PE

Alternative Procurement Methods
 Jason Gallant, PE
 Ryan Wingard, PE

Geotechnical Subconsultant
Haley & Aldrich
 Wayne Chadbourne, PE

4

Introducing Our Key Team Members

The following introductions describe our Project Manager and Technical Advisor for this contract and explain:

- Role and responsibilities for this contract
- General qualifications as they relate to this contract
- A synopsis of specific experience that helps them add value to this contract

Additional information about key team members and their experience can be found in their resume in an appendix to this submittal.



Wright-Pierce team members typically participate through all phases of a project to ensure continuity, effective implementation of original concepts, and overall success.



Experience: 28 years
Joined Firm: 2021
Professional Licenses: NH, ME, CT, FL, MA, PA, RI, VT
NHDOT LPA Certified #1115

Project Manager: Jason Gallant, PE

Jason has nearly three decades of progressive experience in transportation infrastructure engineering throughout the Northeast and will leverage this experience in his role as Project Manager. As Project Manager, he will be the primary point of contact for communications with the NHDOT. He will be responsible for coordinating the technical efforts of the project team and for monitoring schedule and budget compliance. His engineering expertise includes design, analysis, and construction of new and rehabilitated bridges and other highway, railroad, and building structures under design-build and design-bid-build project delivery methods. Jason offers strong knowledge of bridge and building design standards throughout the Northeastern U.S. and has successfully designed many DOT, municipal, commercial, and institutional structures using reinforced concrete, prestressed concrete, structural steel, and timber.



Bridges: Matt Severson, PE
Highway: Jan Wiegman, PE
Utilities: Chris Berg, PE

Technical Advisors

Matt Severson, Jan Wiegman, and Chris Berg will serve as Technical Advisors for projects assigned under this contract. They are each assigned to a specific technical aspect, based on their experience in that area. As Technical Advisors, Matt, Jan, and Chris will provide technical advice to the project team and reviews of interim technical documents. They will also assist with ensuring that our quality assurance/quality control (QA/QC) program is implemented and will be QC reviewers. Wright-Pierce operates under well-established QA/QC procedures that require internal reviews by senior team members who have not been involved with the project and who retain experience with similar projects. Matt, Jan, and Chris will be involved throughout the contract to leverage their experience and ensure quality control.

Highway & Bridge Design Engineering Services in Support of LPA Projects

Key Personnel	Project Role	Years of Experience	Years with Firm	LPA Certified*	Project Management	Highway Design	Bridge Design	Structural Engineer	Alt. Procurement Methods	Corridor Study Planning	Bridge Inspection	Bridge Load Rating	Hydrology	Environmental	Traffic Analysis	Geotechnical Engineer	Surveyor	Public Involvement
Jason Gallant, PE	Project Manager, Bridge Lead	28	4	•	•	•	•	•	•	•	•	•	•					•
Matt Severson, PE	Technical Advisor - Bridges	38	3		•	•	•	•	•		•	•						
Jan Wiegman, PE	Technical Advisor - Highway	41	13		•	•			•				•	•				•
Chris Berg, PE	Technical Advisor - Utilities	21	20	•	•	•							•	•				•
Ryan Wingard, PE	Principal-in-Charge	28	17		•	•			•				•	•				•
Westley Nuhn, PE	Bridge	8	2	•		•	•	•			•	•						•
Jason Powell, PE	Bridge	25	22				•	•										
Jaime Wallace, PE	Bridge	10	8	•	•	•	•				•		•	•				•
Ryan Quaglieri, EIT	Bridge	1	1				•	•			•	•						
Katherine Bemis, EIT	Bridge	7	4				•	•			•	•						
Max Perrault	Bridge	1	1				•					•						
Ken Muamba	Bridge	1	1				•					•						
Britt Eckstrom, PE	Highway Lead	21	6	•	•	•								•				•
Owen Chaplin, PE	Highway	11	3	•	•	•			•				•					•
Charlie Daigle, PE	Highway	10	7	•	•	•	•		•		•	•	•				•	•
Jake Shactman, PE	Highway and Environmental/Permitting	5	5			•							•	•				
Miranda Pierre	Highway	2	2			•	•						•	•				
James Michaud	Highway	26	19			•	•											
Matt LaPierre	Highway	22	6			•	•											
Steve Guerrette, PE	Hydrology & Hydraulics	17	17		•	•			•				•	•				•
Alex Liptak, PE	Hydrology & Hydraulics	7	5			•	•				•			•				
Nate Edwards, PE	Environmental/Permitting	7	6	•		•	•				•	•	•	•			•	•
Kalle Maggio, PLA	Public Information	12	4		•													•
Faye DeMoura, CPSM	Public Information	17	7															•
Subconsultants																		
Diane Morabito, PE, PTOE	Traffic	42	6												•			
Lynn Frazier, PE, PTOE	Traffic	18	6												•			
Jack Kaiser, PS	Survey	29	23		•												•	
Wayne Chadbourne, PE	Geotechnical	30	30		•									•		•		

* Jaime Wallace, Nate Edwards, and Charlie Daigle hold their LPA certifications in Maine.

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References

Client References

The following are references of clients for whom we have provided similar services to your proposed project. We have completed projects for these clients within the last five years. These contacts are familiar with Wright-Pierce, know our work ethic, and can speak to the services we provide. Please contact them and ask about our:

- Responsiveness
- Sensitivity to local goals and objectives
- Adherence to scope, schedule, and budgets
- Attention to detail
- Ability to work with committees and stakeholders
- Effectiveness in dealing with regulatory agencies
- Technical knowledge

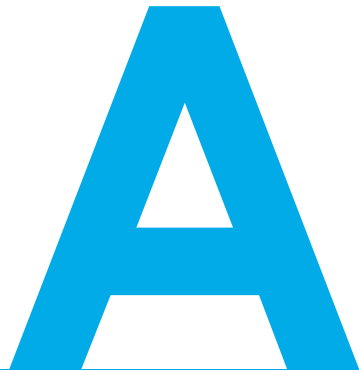


The references below will be able to share candid opinions regarding the quality of service that has been provided by Wright-Pierce.

Client References

Reference	Contact	Project Relevance
City of Somersworth One Government Way Somersworth, NH 03878	Michael Bobinsky Director of Public Works and Utilities 603.692.4266 mbobinsky@somersworth.gov	<ul style="list-style-type: none"> • Working for City since the 1990s • Civil infrastructure, roadway, and utility reconstruction projects • Case study provided in Appendix B
Town of Exeter Public Works 13 Newfields Road Exeter, NH 03833	Jay Perkins Highway Superintendent 603.773.6157 jperkins@exeternh.gov	<ul style="list-style-type: none"> • Working for Town since the 1990s • Ongoing bridge projects at two sites • Stormwater and permitting projects • Case study provided in Appendix B
City of Dover Engineering Services 271 Mast Road Dover, NH 03820	Kenneth Mavrogeorge, PE City Engineer 603.516.6454 k.mavrogeorge@doover.nh.gov	<ul style="list-style-type: none"> • Working for City since the 1970s • Roadway and utility reconstruction projects at multiple sites • Retaining wall projects
Town of Hudson 12 School Street Hudson, NH 03051	Elvis Dhima, PE Town Engineer 603.886.6008 edhima@Hudsonnh.gov	<ul style="list-style-type: none"> • Working for Town since 2018 • Ongoing bridge projects at five different sites • Construction observation services • Case study provided in Appendix B
Town of Newmarket Public Works 4 Young Lane Newmarket, NH 03857	Lyndsay Butler, PE Town Engineer 603.659.3617 lbutler@newmarketnh.gov	<ul style="list-style-type: none"> • Working for Town since 2010 • Roadway and utility reconstruction projects • Ongoing bridge projects • Case study provided in Appendix B

APPENDIX





Jason Gallant, PE

Project Manager, Bridge Lead

Jason has nearly three decades of progressive experience in transportation infrastructure engineering throughout the Northeast and will leverage this experience in his role as Project Manager. His engineering expertise includes design, analysis, and construction of new and rehabilitated bridges and other highway, railroad, and building structures under design-build and design-bid-build project delivery methods.

Jason offers strong knowledge of bridge and highway design standards throughout the Northeastern U.S. and has successfully designed many DOT, municipal, commercial, and institutional structures using reinforced concrete, prestressed concrete, structural steel, and timber. **He has managed single bridge projects in New England with construction value up to \$73 million.** He has completed several similar projects including:

- Project Manager and Engineer of Record for over 50 Municipal Bridge Projects in New Hampshire
- Statewide On-Call Bridge Design Services, NHDOT, Various Locations in NH
- I-93 Salem-Manchester Final Design, NHDOT, Salem and Windham, NH
- Conway Bypass Phase 4B, 6, 7A, 7B, NHDOT, Albany, Conway, Madison, NH

Technical Advisor – Bridges



Matt Severson, PE

Matt is a project manager in Wright-Pierce’s civil group. He is a forward-thinking, versatile engineering professional with a proven track record of leading diverse teams designing and constructing complex projects. He leverages his experience to evaluate and break down even the most difficult projects into more manageable elements to ensure a positive outcome for his clients. Matt has extensive experience in design and construction in the facility, life science, municipal, and transportation industries.

- Lowell Road Bridge Rehabilitation, Hudson, NH
- Melendy Road Over First Brook, Hudson, NH
- Bay Road Bridge, Newmarket, NH
- Rout 16 Conway Bypass, Conway, NH
- South Willow Street Bridge, Manchester, NH

Education

M.S., Civil Engineering, Structural Focus, Northeastern University

B.S., Civil Engineering, University of New Hampshire

Experience

28 years

Joined Firm

2021

Professional Licenses

Professional engineer in NH, ME, CT, FL, MA, PA, RI, VT, and **NHDOT LPA certified #1115**

Education

B.S., Civil Engineering, Michigan Technological University

Experience

38 years

Joined Firm

2022

Professional Licenses

Professional engineer in NH, ME, MA, FL



Jan Wiegman, PE

Technical Advisor – Highway

Jan has over four decades of engineering design, permitting, and project management experience on a wide variety of civil, structural, and transportation projects. Most recently, he has been managing several large-scale site development and transportation-related projects and providing technical guidance on a myriad of projects including pedestrian and transportation projects.

- Roadway and Utility Improvements, Woodman Park Area, Rochester, NH
- Hutchins Street Reconstruction, Berlin, NH
- Brown Road Reconstruction, Oakfield, ME
- Commercial Street Reconstruction, Bath, ME

Education

M.S., Civil Engineering Rice University

B.S. Civil Engineering University of New Hampshire

Experience

41 years

Joined Firm

2011

Professional Licenses

Professional engineer in ME



Chris Berg, PE

Technical Advisor – Utilities

Chris brings over 20 years of experience in the planning, design, and construction administration of utilities engineering projects. Several of the utilities projects he has worked on have included close coordination with NHDOT, experience which he will leverage for this contract. He has completed several similar projects, such as:

- Roadway and Utility Reconstruction, Somersworth, NH
- RT 202A Water Main Extension, Rochester, NH
- Main Street Utility Improvements, Plymouth, NH
- RT 1A Water Main Replacement, Rye, NH
- Jady Hill Utilities Improvements, Exeter, NH

Education

M.S., Civil Engineering, University of New Hampshire

B.S., Civil Engineering, Rowan University

Experience

21 years

Joined Firm

2004

Professional Licenses

Professional engineer in NH, MA, and **NHDOT LPA certified #1644**



Ryan Wingard, PE

Principal-in-Charge

Ryan is the firm’s Civil Practice Group Leader, Vice President, and member of the Board of Directors. He has 28 years of civil engineering experience including highway/roadway design, roadway rehabilitation and reconstruction, intersection improvements, parking lots, sidewalks, trails, bike lanes, complete streets, roadway drainage, culvert design, and bridge scour analysis.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH
- Culvert Replacement, Newmarket, NH
- Garrison Lane and Linden Street Bridges, Exeter, NH

Education

M.S., Civil Engineering, Wayne State University

B.S., Civil and Environmental Engineering, University of Michigan

Experience

28 years

Joined Firm

2007

Professional Licenses

Professional engineer in NH, ME, VT, MA, CT, RI, MI, FL



Westley Nuhn, PE

Bridge

Westley’s experience includes bridge, structural, and engineering projects with specific expertise in bridge infrastructure. His bridge experience includes inspection, load ratings, bridge rehabilitation analysis and design, and working experience for MassDOT, RIDOT, and municipalities in Maine, New Hampshire, Rhode Island, and Connecticut.

- Portland Avenue Reconstruction, Dover, NH
- Linden Street over Exeter River, Exeter, NH
- Garrison Lane over Little River, Exeter, NH
- County Road over Second Brook, Hudson, NH
- Lowell Road over Second Brook, Hudson, NH
- Ash Swamp Road Bridge, Newmarket, NH

Education

B.S., Civil and Environmental Engineering, Western New England University

Experience

8 years

Joined Firm

2023

Professional Licenses

Professional engineer in NH, ME, RI, FL and **NHDOT LPA certified #2351**



Jaime Wallace, PE

Bridge

Jaime has experience on a wide variety of civil projects including bridge and culvert inspection repair and replacement. His responsibilities have included design, permitting, scheduling, and construction monitoring on both public and private sector development projects. He has a strong background in erosion control and maintenance, as well as quality control inspections.

- Street Reconstruction and Drainage, Dover, NH
- Hampshire Road Culvert Replacement, Brownfield, ME
- Old Ferry Road Culvert Replacement, Wiscasset, ME

Education

B.S., Civil Engineering and Environmental Engineering, University of Maine

Experience

10 years

Joined Firm

2016

Professional Licenses

Professional engineer in ME, NH, and **MaineDOT LPA certified**



Britt Eckstrom, PE

Highway Lead

Britt has more than 20 years of experience in consulting engineering working on a wide variety of civil and environmental projects, including roadway, water system, wastewater, and general municipal engineering projects. She has significant project experience with infrastructure evaluation, report preparation, project design, construction document preparation, permitting, and construction administration.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH
- Culvert Replacement, Newmarket, NH
- Garrison Lane and Linden Street Bridges, Exeter, NH

Education

M.S., Civil Engineering, University of California, Berkeley

B.S., Civil Engineering, University of New Hampshire

Experience

21 years

Joined Firm

2018

Professional Licenses

Professional engineer in NH, ME, and **NHDOT LPA certified #1807**



Owen Chaplin, PE

Highway

Owen is a transportation engineer with a focus on highway design, multimodal projects, roadside safety, drainage design, and pavement management. Owen has successfully managed roadway capital improvement plans for several municipal clients. Many of the projects he manages include construction oversight and administration allowing him to see projects from start through completion.

- River Road/RT 302 Intersection Improvements, Windham, ME
- RT 27 and Darin Drive Intersection Improvements, Augusta, ME
- RT 4/17 Improvements, Jay, ME

Education

B.S., Civil Engineering, University of Maine Orono

Experience

11 years

Joined Firm

2022

Professional Licenses

Professional engineer in ME, NH, and **NHDOT LPA certified #2335**



Steve Guerrette, PE

Hydrology & Hydraulics

Steve has extensive experience with water resources-related projects including sewer systems evaluations and design, storm water management modeling, watershed characterization, and stormwater system design. His specialties center on hydrology and hydraulics as they pertain to wastewater, CSOs, dams, stormwater, and watershed systems.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Woodman Area Storm Drain Design, Rochester, NH
- Main Street Storm Drain Analysis, Somersworth, NH
- Drainage Study, Old Orchard Beach, ME

Education

B.S., Civil Engineering, University of Maine, Orono

Experience

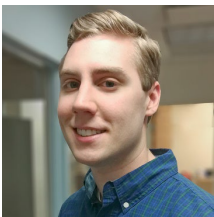
17 years

Joined Firm

2007

Professional License

Professional engineer in ME



Nate Edwards, PE

Environmental Permitting

Nate has experience on projects ranging from private developments to industrial facility expansions to municipal roadway designs. His skill set includes hydraulic and hydrological modeling, developing construction plans and specifications, construction observation and documentation, and completing third-party review of proposed developments. He is experienced in AutoCAD Civil 3D, HEC-RAS, Hydraflow Storm Sewers, HydroCAD, Storm and Sanitary Analysis, and Land Surveying.

- Street and Utility Reconstruction Projects, Lebanon, NH
- Roadway and Utility Reconstruction, Somersworth, NH
- Street Reconstruction and Drainage, Dover, NH

Education

M.Eng., Civil Engineering, University of New Hampshire

B.S., Environmental Engineering, University of New Hampshire

Experience

7 years

Joined Firm

2018

Professional License

Professional engineer in ME, NH, and **MaineDOT LPA certified**



Lynn Frazier, PE, PTOE

Traffic Subconsultant: Sewall Infrastructure

Lynn is a Certified Professional Traffic Operations Engineer with 18 years of experience in intersection and roadway operational analysis using Synchro/Sim Traffic, roadway design, striping, signing, and safety analysis. Her areas of specialization include traffic signal phasing and timing, traffic impact evaluation, roadway and intersection design and 3D traffic modeling. Lynn also has experience with specifications, drafting, project and utility coordination, estimates and scheduling.

- MainedOT Build Grant for Statewide Signal Design
- RT 1A/Western Intersection, Hampden, ME
- Hampden Bridge Bundle Design-Build, Hampden, ME

Education

B.S., Civil Engineering, University of Maine

Experience

18 years

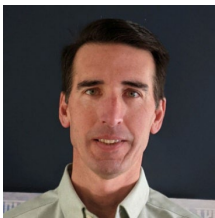
Joined Firm

2018

Professional Licenses

Certified Professional Traffic Operations Engineer

Professional engineer in NH, ME, FL, GA, MA, MI, RI, and WI



Jack Kaiser, PS

Survey Subconsultant: Doucet Survey

Jack’s experience includes project cost estimating, records research, boundary analysis, and computations. Of the many varieties of surveys he works on, Jack deals primarily with roadway surveys and construction layout. Roadway surveys include over 10 miles of new residential subdivision roads and over 60 miles of topographic surveys of local and state roads. The following projects are those where Doucet has worked with Wright-Pierce to provide survey services.

- Court and Union Street, Dover, NH
- Belknap and Elm Streets, Dover, NH
- RT 202A Water Main Extension, Rochester, NH

Education

A.S., Surveying & Mapping, University of New Hampshire

Experience

29 years

Joined Firm

2001

Professional License

NH Licensed Land Surveyor



Wayne Chadbourne, PE

Geotechnical Subconsultant: Haley & Aldrich

Wayne has been involved in a variety of projects dealing with geotechnical and environmental aspects of design and construction for both private and public clients. His geotechnical project experience includes aspects of foundation design for bridges, tanks, utility lines, and other infrastructure, and lateral support systems for deep excavations. His experience also includes deep excavations, horizontal directional drilling, underpinning of structures, ground improvement, and use of various types of lightweight fills for building and embankment support.

- Beals Island Bridge Replacement, Beals, ME
- Back Cove South CSO Storage Conduit, Portland, ME
- University of Southern Maine Commons, Portland, ME

Education

M.S., Geotechnical Engineering, Tufts University
B.S., Civil Engineering, University of Vermont

Experience

30 years

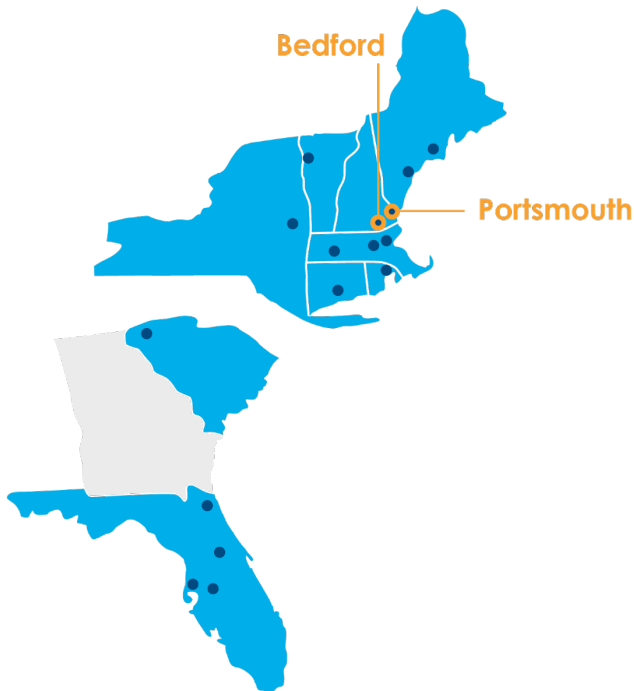
Joined Firm

1994

Professional Licenses

NH, ME, MA, GA

B



Our mission is to deliver technical excellence and superior client service.

- ACEC Award-Winning Projects
- PSMJ Circle of Excellence
- ENR Top 500 Design Firms
- ENR Top 200 Environmental Firms
- ENR Top 50 Sewer and Waste
- ENR Top 25 Wastewater Treatment
- Top 50 Trenchless Engineering Firms

Wright-Pierce Overview

Wright-Pierce is an award-winning, multidiscipline engineering firm that has been providing civil infrastructure, drinking water, and wastewater services since 1947. Employee-owned and operated, our firm is made up of 350+ engineers and support professionals located in offices throughout the Northeast and Southeast. We complete many projects with construction values ranging from less than \$100,000 to more than \$100 million. We provide full-service engineering from initial planning to design, bidding, construction administration, and operational support.

An Award-Winning Firm

Wright-Pierce has been recognized by several industry organizations for business performance and engineering excellence. We rank in Engineering News-Record (ENR) “Top” lists, including the Top 500 Design Firms and Top 200 Environmental Design Firms in the country. Many of our projects receive regional ACEC Engineering Excellence Awards.

In addition, Wright-Pierce is a multi-year winner of the PSMJ Resources, Inc. ‘Circle of Excellence’ Award. PSMJ is a firm dedicated to business practices of architectural and engineering (A/E) firms worldwide and bestows its Circle of Excellence award after assessing benchmarks for operations, management, and sustainability.

Responsive Service Focused on Your Success

The cornerstone of our business is to assist our clients with improving their communities while protecting public health and the environment. For every project, we focus on the following:

- Understanding the project issues and goals
- Stressing practical, operator-friendly solutions
- Identifying fiscal constraints and emphasizing value-based solutions
- Involving and collaborating with our clients throughout the project

Department of Transportation Services

When Wright-Pierce was first founded in 1947, the firm's primary client was the Maine State Highway Commission, now known as the Maine Department of Transportation (DOT). Since that time, we have grown and expanded our reach to assist many other state DOTs with hundreds of projects throughout the geographic areas we serve. As part of these projects, we have developed strong working relationships and hold prequalification certifications with the Maine DOT, Massachusetts DOT, New Hampshire DOT, and Connecticut DOT. Our experience in supporting DOT services with stewardship of transportation infrastructure across multiple modes has fortified our knowledge of local design practices for bridges and roadways in addition to AASHTO, ADA, AREMA, and FHWA design standards. To support DOT-related projects, Wright-Pierce provides an integrated team of experts with extensive experience in working with a variety of related technical challenges. Our in-house staff offer skills in the following areas:

- Bicycle and pedestrian facilities
- Street and highway design
- Intersection improvements
- H&H analysis
- Low impact stormwater management
- Culverts and drainage structures
- State and federal permits
- Highway safety enhancements
- Pedestrian safety improvements
- Piers and ports
- GIS and mapping
- Bridge inspection
- Bridge rating
- Bridge design
- Bridge coatings
- Retaining walls
- Appurtenant structures
- Construction administration
- Resident engineering



Similar Project Experience

The project examples on the following pages demonstrate our experience with engineering planning and design services specific to civil infrastructure projects. Additional projects will be provided upon request.

Town of Newmarket, New Hampshire Bridge Evaluations & Replacements



Ash Swamp Road

- **Ash Swamp Road Bridge.** Engineering study, preliminary design, final design, and services for recommended improvements to the 22-foot span Ash Swamp Road Bridge over the Piscassic River. Services include hydrologic analysis of the watershed above the bridge for use in modeling the bridge hydraulics. The bridge will be rehabilitated to extend its the service by removing 3'-0" of the outer damaged and deteriorated concrete bridge fascia and installing precast concrete

Highlights

- Bridge evaluation and design for 22-foot bridge
- Design and permitting of improvements
- Survey and hydrologic and hydraulic modeling and analysis
- Inspection and structural analysis for 120' pedestrian bridge



Pedestrian Bridge

exterior deck beams with an AASHTO-MASH compliant rail system. The bridge seat at each abutment will be modified to accommodate new edge beams.

- **Pedestrian Bridge Evaluation.** Hands-on inspection of the two-span 120-foot-long bridge followed by ultrasonic thickness testing was performed at representative corroded and 'control' sections of the bridge for comparative purposes. A structural analysis and load rating was prepared of the main trusses bridge based on field verified deterioration and section loss compared to original fabrication drawings to confirm load carrying capacity of the pedestrian bridge.

Dates

2023 – Ongoing

Related Team Members

Jason Gallant, Ryan Wingard, Matt LaPierre, James Michaud, Nate Edwards, Jake Shactman, Britt Eckstrom, Matt Severson, Westley Nuhn, Ryan Quaglieri

**City of Somersworth, New Hampshire
Roadway & Utility Reconstruction**



Revitalization of historic downtown area and addressing aging water, sewer, and stormwater infrastructure.

Wright-Pierce was retained to provide design, permitting, and bidding for roadway and utility improvements on Cemetery Road (3,350 linear feet), Constitutional Way (630 linear feet), and a portion of Main Street (3,750 linear feet). The primary goals of this project are to revitalize and improve the historic downtown area of Somersworth, and address the City’s aging water, sewer, and stormwater infrastructure. Project work includes survey; geotechnical explorations and analysis; ~7,730 LF of full-depth roadway reconstruction; ~7,750 LF of new sidewalk and curbing; replacement of ~6,525 LF of sanitary sewer infrastructure; replacement of ~7,730 LF of water infrastructure; improvements to stormwater infrastructure and bike/pedestrian facilities in accordance with ADA; traffic calming and complete street considerations; and public meeting facilitation.

Highlights

- Roadway reconstruction
- Utility improvements
- Stormwater system upgrades
- LID design
- Permitting
- Bike/ped facilities
- ADA compliance
- Traffic calming

Dates

2018 – 2023

Related Team Members

Ryan Wingard, Britt Eckstrom, Jason Gallant, Chris Berg, Nate Edwards, Jake Shactman, Charlie Daigle

**Town of Hudson, New Hampshire
Bridge/Culvert Evaluations & Rehabilitation**



Melendy Road

Wright-Pierce is providing design and construction phase services for multiple bridges in Hudson. Design for each of the projects is funded by the NHDOT for rehabilitation and replacement of municipally owned bridges. Services include bridge inspection and condition assessments, hydrologic/hydraulic analyses, rehabilitation and replacement design, permitting, and development of technical specifications and construction phase services.

Bridge Information

- Bridge:** Melendy Road
- Type:** Concrete Rigid Frame
- Clear span:** 17 feet
- Number of lanes:** 2
- Load capacity:** HL-93
- Bridge:** County Road
- Type:** Concrete Slab
- Clear span:** 10 feet
- Number of lanes:** 2
- Load capacity:** HL-93



County Road



Lowell Road #2



Lowell Road

- Melendy Road.** Replacement of the former stone masonry abutment and deck slab bridge with a 17'-0" clear opening precast concrete rigid frame superstructure supported on cast-in-place concrete footings. The existing stone masonry wingwalls will be modified as required to incorporate them into the new bridge. Overall, the bridge will include two 12-foot travel lanes, two 2-foot shoulders, and a 5-foot sidewalk will be restored along the upstream face of the bridge resulting in an overall bridge width of 36'-0".
- County Road.** The proposed bridge rehabilitation includes partial demolition of the existing bridge deck to reconstruct the bridge curbs to widen the bridge and install new, AASHTO-compliant bridge rails; modifications of the abutments to create a bridge seat to accommodate the widened bridge deck; and associated guardrail end treatments. The rehabilitated bridge will carry two, 11-foot travel lanes and two, 1-foot shoulders when completed.
- Lowell Road # 2 (NH Route 3A).** Proposed project will rehabilitate the bridge, including demolition of the existing superstructure and replacement with a precast concrete deck beam superstructure with modifications of the existing bridge seat to accommodate the proposed superstructure; installation of new bridge rail; and associated bridge approach guardrail on the east side of the bridge that ties into existing guardrail.
- Lowell Road.** The bridge is a metal plate arch structure measuring 160 feet in length with a 10-foot span. We structural design, detailed hydrologic/hydraulic analyses, culvert sizing analysis, permitting, and construction observation and administration for a structural concrete invert lining of the bridge to extend its service life.
- Belknap Road.** Preliminary and final design for the 0.3-mile extension of Belknap Road to an intersection with Lowell Road (US Route 3A) in Hudson. The design includes establishment of a horizontal and vertical alignment of the new roadway including a stream crossing while minimizing impacts to existing properties. The intersection at Lowell Road is being reconfigured from a three-leg signalized intersection to a four-leg signalized intersection.

Bridge: Lowell Road #2
Type: Concrete Slab
Clear span: 14 feet
Number of lanes: 2
Load capacity: HL-93

Bridge: Lowell Road
Type: Metal plate arch
Clear span: 10 feet
Number of lanes: 2
Load capacity: HL-93

Dates

2022 – Ongoing

Key Team Members

Ryan Wingard, Jason Gallant,
 Matt Severson, Westley Nuhn,
 Jake Shactman, Ryan Quaglieri

Town of Exeter, New Hampshire

Garrison Lane & Linden Street Bridges NHDES PBN



Linden Street



Garrison Lane

The Town of Exeter retained Wright-Pierce to provide design and NHDES permitting services for the evaluation and repair/replacement of multiple bridges.

- Linden Street Bridge.** This 58-foot span timber deck and glulam beam bridge was built in 1993 and includes a substructure with pile supported beams wrapped in mechanically stabilized earth (MSE). Settlement of the MSE wingwalls and abutments has resulted in corresponding settlement of the roadway approaches to the bridge. A long-term solution is needed to improve rideability and serviceability of the bridge. The proposed bridge rehabilitation will include abutment and wingwall repairs, deck surface repairs, bridge rail upgrades, and installation of approach slabs to ease the transition from roadway approaches to the bridge structure.
- Garrison Lane Bridge.** The rehabilitation project for this bridge, which crosses Little River with a 25-foot span, included design of scour hole repairs, concrete abutment repairs, bridge rail replacement, and deck and running board replacement. NHDES Wetlands permitting was completed on behalf of the Town prior to beginning work. A new load rating was provided to NHDOT reflecting the completed repairs.

Bridge Information

Bridge: Garrison Lane
Type: Steel beams, timber deck
Clear span: 25 feet
Number of lanes: 2
Load capacity: HL-93

Bridge: Linden Street
Type: Timber beams, timber deck
Clear span: 58 feet
Number of lanes: 2
Load capacity: HL-93

Dates

2022 – Ongoing

Key Team Members

Ryan Wingard, Jason Gallant,
 Jake Shactman, Westley Nuhn,
 Matt Severson, Britt Eckstrom

Town of Wiscasset, Maine

Tidal Culvert Replacement at Old Ferry Road



Wright-Pierce's design efforts helped protect the local environment and allow safe passage for vehicles.

Design for replacement of the Old Ferry Road tidal culvert and tidal stream bridge crossing to enhance habitat connectivity, maintain critical utility infrastructure, and allow safe travel for vehicles. Wright-Pierce conducted field and topographic surveys at the project site to assess the existing conditions and created a base map that was used during the study phase of the project. The study included a hydrologic analysis using HydroCAD; hydraulic modeling using HEC-RAS; analysis of the effects of multiple sea level rise scenarios on the watershed using the CoastWise Approach; and culvert sizing analysis. Wright-Pierce obtained federal, state, and local permits. The final design made considerations for sea level rise over the 75-year design life of the replacement bridge in accordance with CoastWise and MaineDOT design standards.

Highlights

- Tidal culvert replacement
- Field and topographic surveys
- Base map creation
- Hydrologic analysis and sea modeling
- Culvert sizing analysis
- 75-year design life considerations
- Grant funding assistance

Dates

2020 – 2024

Related Team Members

Jason Gallant, Ryan Wingard,
 Matt Severson, Jaime Wallace,
 Westley Nuhn, Ryan Quaglieri



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