

January 24, 2024



Mr. C.R. Willeke, PE, Municipal Highways Engineer
New Hampshire Department of Transportation
The Bureau of Planning & Community Assistance
7 Hazen Drive, Concord, NH 03302

Via electronic mail to: Charles.R.Willeke@dot.nh.gov

SUBJECT: Updated 2024 Pre-Qual Package – Construction Engineering and Inspection Services for Local Public Agency (LPA) Contracts

Dear Mr. Willeke:

Kleinfelder is pleased to present this updated 2024 Pre-Qual Package for inclusion on the prequalified list of Statewide Construction Engineering and Inspection Services consultants.

Experienced & Qualified – Kleinfelder has successfully provided all phases of Construction Engineering and Inspection Services for New Hampshire municipalities for over 25 years. Kleinfelder is a full-service architectural and engineering firm and a recognized leader in providing comprehensive construction engineering, management, observation, and inspection services throughout the U.S. for over 55 years. Since the mid-1990s, we have successfully provided complete design and construction phase services on over 70 Municipal and LPA transportation projects in New Hampshire. In addition, we have provided construction management and inspection services to the MaineDOT under on-call contracts since 2005 and the Maine Turnpike Authority (MTA) since 2014.

Our local team of **20 professionals** have the experience, qualifications, and capacity to meet any LPA project needs. During the scoping of every project, **Project Manager/Construction Engineer of Record, William Ashford, PE** will carefully select a team to perform the services required as we are well versed in bridge rehabilitations and replacements, highway and intersection improvements, lighting, pedestrian accommodations, and multi-use trails.

Project Understanding & Successful Execution – Based on our long history and past performance, we fully understand the key roles and services necessary to produce a high quality and complete construction project:

- Effectively manage the project submittals process for accuracy and to minimize delays
- Provide thorough and accurate project documentation that meets or exceeds LPA project requirements
- Provide engineering consultation and designer coordination
- Provide the level of observation services and conduct project progress/stakeholder meetings as required
- Effectively monitor and manage the construction budget and labor compliance for federally funded projects
- Perform and coordinate QA/QC activities for materials testing, shop fabrication inspections, and layout

Our team is committed to high quality, responsive, and proactive service. **We understand that proactive communication and timely reviews and decision making are crucial to maintaining project schedules and budgets.**

Thank you for the opportunity to continue our long history successfully delivering construction phase services for New Hampshire LPA projects. Please feel free to contact us with any questions or comments.

Sincerely,
KLEINFELDER

A handwritten signature in black ink, appearing to read "William Ashford", is written over a light blue horizontal line.

William Ashford, PE, Project Manager
bashford@kleinfelder.com



PROJECT UNDERSTANDING AND APPROACH

Construction Engineering & Inspection Capabilities and Experience – Kleinfelder’s Construction Engineering and Inspection Program is one of the largest, most experienced teams in northern New England. We provide construction engineering and inspection on hundreds of projects each year. We take immense pride in the services we provide for municipalities and transportation agencies, and we will approach future LPA assignments with that same level of commitment to quality and service.

Based on our experience with NHDOT LPA projects, we understand how to accomplish these assignments through the following roles and services:

- **Manage Project Submittals Process**
 - Shop drawings/working drawings/product data/TCP
 - Certificates of compliance
 - Requests for Information (RFI)/Requests for change
 - Load ratings/Form 4
- **Consultation/Designer Coordination**
 - Provide engineering services, advice, and review of construction drawings
 - Render interpretations of drawings and specifications
 - Submit requests to designer for modifications to contract documents to address errors and omissions or unanticipated construction conditions
 - Review such detailed drawings if needed to supplement contract drawings
- **Project Administration & Documentation**
 - Field books/electronic documentation
 - Daily reports with photos
 - Punch List Items
 - Record drawings
 - Project close-out documentation & final acceptance
- **Onsite Observation**
 - Full-time or near full-time – (FHWA)
 - Part-time – Number of site visits dependent upon means, methods, techniques, sequences, procedures, and progress of the Contractor
 - Conformance to contract documents
 - Semi-final and final inspection
- **Construction Budget Management**
 - Process change orders (complete IGE’s)
 - Process Contractor pay requisitions
 - Final balancing change orders – FHWA funded projects
- **Labor Compliance (OFC Coordination)**
 - Bulletin board
 - Field interviews
 - Sign-in sheets
 - Certified payrolls
 - Subcontractor approval process
- **Project Meetings**
 - Preconstruction meeting
 - Regular progress meetings (typical on larger projects)
 - Stakeholder meetings as required (abutters, fire and safety, school buses, regulatory agencies)
 - Safety meetings
- **Quality Control**
 - Materials testing subconsultant – soils, concrete, asphalt
 - Concrete batch tickets
 - Steel or precast concrete shop fabrication inspection
- **Quality Assurance**
 - Follow Municipal Bridge guidelines for minimum materials QA testing requirements using DOT staff
 - Layout checks (Licensed Land Surveyor)
 - Monitor erosion control procedures

The Appendix demonstrates our project experience. We have successfully completed construction engineering and oversight services for numerous LPA and State Bridge Aid program projects in the past 25 years. We bring added value as construction engineers and inspectors who thoroughly understand Federal funding requirements, New Hampshire environmental regulatory requirements, and their applicability during project construction. In addition, we have provided similar services for the MaineDOT, MTA, and municipalities in Maine and Massachusetts.

Project Management, Schedule, and Cost Control – Our approach to effective and efficient Project Management is based on clear communications, collaboration, and staffing. Careful scope, cost, schedule development, proactive monitoring, and continual communications create successful project results. We fully realize that delays can directly



affect project costs; therefore, our approach to construction phase services is to adhere to the following Project Management principles and cost considerations:

- Schedule team members for part-time or full-time inspection and record keeping as appropriate
- Work with municipalities in coordination with NHDOT to develop the right scope of work to meet their goals with a clear agreement on services and expectations prior to Notice to Proceed
- Develop a comprehensive work plan for assignments that includes the scope of services, budget, and project deliverables/milestones; schedule; team members' roles and responsibilities; and QA/QC process
- Monitor and manage overall project budget
- React quickly to resolve issues in the field by bringing in additional resources and communicate effectively across all stakeholders as needed to solve unexpected problems
- Provide bi-weekly project status and progress reviews to identify and resolve issues that may impact scope, cost and schedule
- Review contractors pay requisitions and quantities, document contractor claims, and negotiate change orders
- Complete reviews on-time with a focus on quality
- Submit monthly project status reports, invoicing, and other documentation in accordance with LPA and municipal policies and procedures

Our staff is fully trained and experienced with the following:

- ✓ Project Management
- ✓ Construction Management, Inspection
- ✓ LPA Requirements
- ✓ NHDOT Construction Training
- ✓ Constructability Reviews, Estimates
- ✓ Construction Documentation
- ✓ Final Project Closeout
- ✓ Tracking Submittals, Contractor RFI's
- ✓ Change Order Development
- ✓ Claims, Dispute Resolution
- ✓ Schedule Monitoring
- ✓ MUTCD, OSHA
- ✓ State, Federal Environmental Compliance
- ✓ Erosion Control BMPs
- ✓ ROW, Street Opening Permits, Remediation
- ✓ Utility Coordination
- ✓ Stakeholder Coordination

Quality Assurance/Quality Control – QA/QC during construction results in making sure that there is the appropriate level of construction documentation to meet the requirements of Office of Federal Compliance (OFC) record keeping and reporting and LPA documentation requirements. It also means making sure that the project is constructed in accordance with the plans and specifications, and that the Contractor meets the contract, state, and federal environmental, and local requirements. As a result of our diligent QA/QC process, Kleinfelder's staff is recognized by our clients for our outstanding construction documentation and project close-out procedures.

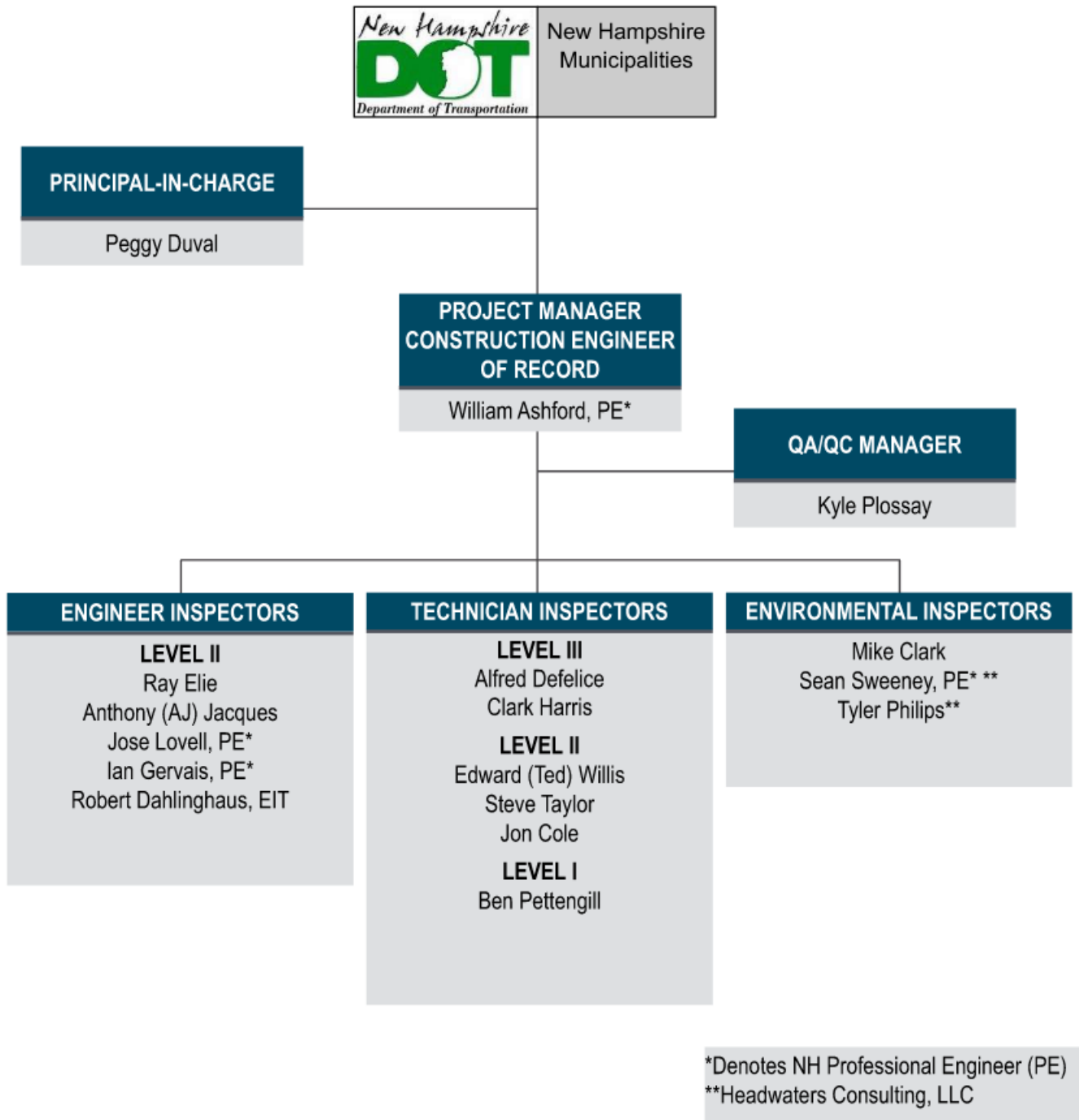
Communication – Kleinfelder will maintain close communication with the municipality, design consultant, and contractor during the life of a project from the initial project scoping to completion. Our communication program facilitates this active participation through project meetings, at important milestones, and during construction. During all phases of our work, our detailed documentation allows us, the municipality, and contractor to continually monitor quality, schedule, and budget. Our staff is also proficient with a variety of electronic record keeping software for project documentation. Based on municipality preference, we can serve as stakeholder, business, and residential liaisons for projects and manage project websites or 24/7 call-in phone numbers.

Equipment and Facilities – Kleinfelder's staff is equipped with the most current personal protective equipment (PPE), cell phones, laptop computers, iPads, hotspots, and access to printers. Our staff is provided with all the equipment required to perform their assignments. We understand that not all projects have field offices, and we are especially adept in working on projects both with and without field offices.

Safety – Kleinfelder is committed to the safety of all workers on the project and the safety of the traveling public. We actively implemented safety programs geared toward educating and empowering employees to operate in a safe manner in all aspects of their duties. These programs include OSHA, Work Zone Safety, project specific Health and Safety Plan (HASP), safety briefings, and standardized safe operating procedures for every operation. Our staff are required to actively seek out and participate in project site safety meetings that presents a unified safety culture for all. A senior staff member routinely conducts manager safety field visits with our staff as well.



ORGANIZATON CHART





PROJECT TEAM

Our Project Manager and Construction Engineer of Record **William Ashford, PE** has over 30 years of experience. He is a New Hampshire PE, certified in LPA. He has a long history of managing NHDOT and LPA projects through design and construction. He is further supported by the following key senior team members:

Peggy Duval, Principal-in-Charge: As a former MaineDOT LPA Senior Project Manager, Ms. Duval taught LPA training and delivered over 60 municipal transportation projects with Federal, State, and local funding sources following specific requirements for documentation and delivery. Her diverse project experience will support the team's project execution.

Kyle Plossay, QA/QC Manager: Mr. Plossay has over 15 years of experience in construction inspection, management, and program management for transportation projects for municipalities and Departments of Transportation. Mr. Plossay oversees a team of nearly 40 inspectors and residents and provides Quality Assurance and Quality Control on their assignments and works closely with the Project manager to make sure our staff provide the level and quality of services to meet or exceed the municipality's expectations. As he performs documentation reviews, Mr. Plossay's experience on projects with a variety of USDOT funding sources and non-federal funding provides him with a thorough understanding of project documentations requirements that meet the client, owner, and funding agency's requirements.

Michael Clark, Environmental Inspector: Mr. Clark has over thirty years of experience in environmental and construction management and inspection. He holds CESSWI and CPESC certifications. As a former MaineDOT Environmental Coordinator and Construction Resident, he is adept at making sure that environmental regulations are met during construction.

Clark Harris, Technical Inspector Level III: Mr. Harris has over thirty-five years of experience in construction management and inspection for roadways, buildings, and water/wastewater for municipalities and state agencies. His excellent communication skills benefit projects with numerous stakeholders and involved utility coordination.

Team Experience – Kleinfelder has over 25 years of experience with NHDOT LPA and municipally led projects and On-Call Contracts with MaineDOT, MassDOT, and several municipalities in Massachusetts. Our team has extensive construction phase experience with all types of transportation infrastructure, including:

- Highway reconstruction, rehabilitation, and overlays on local, state, and national highway systems
- Bridge rehabilitation and replacement
- Intersection and traffic improvements
- Multi-use trails, sidewalks, and Americans with Disabilities Act (ADA) improvements
- Highway lighting upgrades
- Intelligent Transportation System (ITS) installations
- Toll plaza construction and improvements
- Maintenance buildings and marine facilities

Our team's collective licenses and certifications include:

- ✓ NH Professional Engineer
- ✓ Local Public Agency Part I & II
- ✓ Certified Professional Erosion & Sedimentation Control
- ✓ Certified Erosion, Sediment & Stormwater Inspector
- ✓ ACI/MCTCB Certified
- ✓ ACI Soils/Aggregate Certified
- ✓ NETTCP Paving
- ✓ NETTCP Concrete
- ✓ NETTCP Nuclear Gauge
- ✓ NETTCP Soil/Aggregate
- ✓ NETTCP Paving & Concrete Plant
- ✓ Post Tensioning Institute Bonded PT Field Installation Specialist Level 2
- ✓ PCI Level 2 Inspector
- ✓ American Segmental Bridge Institute Technician
- ✓ SSPC Level 1 Bridge Coating Inspection
- ✓ OSHA 10
- ✓ AGC Work Zone Traffic Control
- ✓ Maine DEP Stormwater/Erosion Control Certified
- ✓ Asbestos Monitor
- ✓ NBIS (Topside and Underwater)
- ✓ Stream Stability and Scour at Highway Bridges (NHI)
- ✓ NHCWS
- ✓ First Aid/CPR



Our proposed team can efficiently manage all aspects of construction phase services for LPA projects. Our team will make sure that projects constructed under the LPA program meet plans and specifications and follow program guidelines and processes. We have successfully met LPA program guidelines and processes for transportation projects for the following NH municipalities: Bradford, Bristol/New Hampton, Danville, Keene, Deering/Antrim, and Newport.

Subconsultants – Headwaters Consulting, LLC, of Littleton, NH, will assist in providing environmental inspection and oversight during construction. We have partnered with Headwaters on numerous bridge projects in recent years and they have successfully provided environmental permitting and construction phase services.

We will secure subconsultants for materials testing and shop fabrication inspection as needed. Kleinfelder has collaborated with several reputable firms on previous municipal-led projects in New Hampshire with successful results.

The table below includes the staff Kleinfelder proposes to serve on LPA projects under this prequalification.

Construction Engineering & Inspection Services in Support of LAP Projects		Years of Experience	Years with Firm	LPA Certified	Technician Inspector Level I	Technician Inspector Level II	Technician Inspector Level III	Engineer Inspector Level I	Engineer Inspector Level II	Engineer Inspector Level III	Project Manager/CEOR	Environmental Inspector	NH Licensed PE	CESSWI Certified	CPESC Certified	NETTCP Certified
Key Personnel	Project Role															
William Ashford	Project Manager	35	2	X							x		X			
Kyle Plossay	QA/QC Manager	16	11						X							X
Ray Elie	Engineer Inspector	8	8						X							
Anthony Jacques	Engineer Inspector	15	8						X							X
Ian Gervais	Engineer Inspector	13	8	X					X				X			
Jose Lovell	Engineer Inspector	21	12						X							
Robert Dahlinghaus	Engineer Inspector	41	1					X								
Al DeFelice	Technical Inspector	42	3	X			X									
Clark Harris	Technical Inspector	42	8				X									
Edward Willis	Technical Inspector	12	7			X										X
Steve Taylor	Technical Inspector	21	6			X										X
Jon Cole	Technical Inspector	17	3			X										X
Ben Pettengill	Technical Inspector	6	6		X											X
Mike Clark	Environmental Inspector	33	4									X		X	X	
Tyler Philips	Environmental Inspector	27	4									X			X	
Sean Sweeney	Environmental Inspector	28	16									X	X			



REFERENCES

<i>Town of Newport, NH</i>	
<p>Lori L. Schinck Admin of Public Works 15 Sunapee Street Newport, NH 03773 Phone: 603.863.3650 Email: lschinck@newportnh.gov</p>	<p>Example Project Experience:</p> <ul style="list-style-type: none"> • Oak Street Bridge Replacement – Construction services for federally funded LPA bridge replacement, included full construction oversight and administration with near full-time site observation, FHWA labor compliance monitoring and coordination, abutter and Town coordination, materials testing, fabrication inspection of structural steel and environmental compliance services • Sand Hill Road Bridge Replacement – Bridge and highway approach design, environmental and cultural resource compliance, hydrology, survey, right-of-way, public process, and construction services for this federally funded LPA bridge project.
<i>Town of Weare, NH</i>	
<p>Naomi L. Bolton, Town Administrator 15 Flanders Memorial Road Weare, NH 03281 Phone: 603.529.7525 Email: nbolton@weare.nh.gov</p>	<p>Example Project Experience:</p> <ul style="list-style-type: none"> • Peaslee Road Bridge Replacement – Construction engineering and oversight for Municipally Managed State Aid Program • Abijah Bridge Road Bridge Replacement – Construction engineering and oversight for Municipally Managed State Aid Program
<i>Maine Department of Transportation</i>	
<p>Aurele Gorneau Senior Project Manager Multimodal Program 16 State House Station Augusta, ME 04330 Phone: 207.592.4438 Email: Aurele.GorneauII@maine.gov</p>	<p>Since 2005 Kleinfelder has provided both Resident & Construction Inspector services for the Bureau of Project Development's Multimodal Program. Through our depth of expertise, Kleinfelder has provided inspection oversight on a multitude of projects, such as:</p> <ul style="list-style-type: none"> • Rail: Station Road Rail & Crossing Improvements, Auburn, ME • Facility: Maine State Ferry Service Terminal Improvements, Islesboro, Rockland, Swans Island, Bass Harbor, Vinalhaven, and Frenchboro, ME • Trail: Riverwalk Multi-Use Trail Phases I, II, III, Brewer, ME • Intersection improvement – Intersection safety improvements and traffic signal installations and modifications, multiple locations, and projects, Statewide, ME

APPENDIX: RESUMES



WILLIAM (BILL) ASHFORD, PE

Project Manager

Mr. Ashford has over 30 years of Construction Engineering and Inspection, Program and Project Management, and QA/QC experience in New Hampshire and throughout New England. His diverse portfolio of projects includes large scale corridor upgrades and expansions, highway reconstruction and rehabilitation, bridge replacement and rehabilitation, scour plans, QA/QC Specification Implementation for Hot Mix Asphalt, Portland Cement Concrete, and SUPERPAV. Mr. Ashford has also overseen teams of design and construction engineers and inspectors. In addition, he has managed several on-call design contracts with NHDOT. Mr. Ashford joined Kleinfelder in mid-December 2021 as a Senior Engineer and QA/QC Manager.

Education - BS, Civil Engineering.
University of New Hampshire,
1989

Registrations- Professional
Engineer (PE): NH #09777

Certifications
PSMJ Project Manager Boot Camp

Local Public Agency Certification
Training, No. 1823, NHDOT,

MaineDOT LPA Certification

SELECT PROJECT EXPERIENCE:

- Sand Hill Road Bridge Replacement, Newport, NH
- Pulpit Bridge Replacement, NHDOT, Bedford, NH
- FE Everett Turnpike, NHDOT, Nashua to Bedford, NH
- I-93 Program Management, NHDOT, Salem to Manchester, NH
- Highway & Bridge On-Call Design Contracts Management, NHDOT, Statewide, NH



KYLE PLOSSAY

QA/QC Manager

Mr. Plossay has over 15 years of experience in construction inspection, management, and program management for transportation projects for municipalities and Departments of Transportations. Mr. Plossay oversees a team of nearly 40 inspectors and residents and provides Quality Assurance and Quality Control on their assignments and works closely with the Project Manager to make sure our staff provide the level and quality of services to meet or exceed the municipality's expectations. As he performs documentation reviews, Mr. Plossay's experience on projects with a variety of US DOT funding sources and non-federal funding provides him a thorough understanding of project documentation requirements that meet the client, owner, and funding agency's requirements.

Education - BS, Biology,
University of Maine - Orono, 2007

Certifications
ACI Concrete Field-Testing
Technician, Grade I
NETTCP Paving Inspection #3002
NETTCP Nuclear Gauge, Lifetime
Maine DEP Erosion Control
OSHA 10
First Aid/CPR Certified
MaineDOT LPA Certified

SELECT PROJECT EXPERIENCE:

- Washington Avenue Improvements LPA Project, City of Portland, ME
- Highway Reconstruction, Route 302, MaineDOT, Bridgeton-Fryeburg, ME
- Highway Reconstruction, Route 25, MaineDOT, Standish, ME
- Bridge Replacement & Slope Stabilization, Route 9, MaineDOT, Durham, ME



Education - BS, Civil Engineering,
University of Massachusetts -
Lowell, 1982

RAY ELIE

Engineer Inspector Level II

Mr. Elie is an Engineer Inspector with over 35 years of experience in effective construction management and administration of contracts as well as leadership of project staff through successful project completion. He is skilled in making sure that projects are completed in accordance with plans, specifications, and regulations. He also coordinates and assigns work schedules, manages challenges that arise in the field, inspects, accepts, or rejects contractor work to secure compliance, prepares periodic pay requisitions, conducts construction progress meetings, and maintains and updates as-built records. He has worked closely with numerous Massachusetts municipalities, including the Cities of Cambridge and Somerville. He has provided full-time construction phase engineering and observation services for these municipalities which includes daily coordination with the contractor to verify that work adheres to contract specification and advice City staff on project progress. In a previous role, Mr. Elie served as the Massachusetts Turnpike Authority’s construction manager and lead field engineer for the Central Artery/Tunnel project. He managed inspectors, set daily work schedules, and made sure the work met approved plans, specifications, and regulations.

SELECT PROJECT EXPERIENCE:

- Powder House and Properzi Water Mains, City of Somerville, MA
- Pear Street Water Main, City of Somerville, MA
- Stormwater Management On-Call, City of Cambridge, MA
- Central Artery/Tunnel Project, Massachusetts Turnpike Authority, Boston, MA



Education - BS, Civil Engineering,
University of Massachusetts -
Lowell, 2015

Registrations- Professional
Engineer (PE): NH #16900

Local Public Agency Certification
Training, No. 2181, NHDOT

Professional Affiliations
American Society of Civil
Engineers

IAN GERVAIS, PE

Engineer Inspector Level II

Mr. Gervais has over six years of experience in civil design and construction engineering (CE) and oversight. He has a diversified skillset that includes the design of water and wastewater projects with grading, drainage, civil site design, planning, and asset management. He has provided CE and administration on transportation and water/wastewater infrastructure (water main construction, pumping station start-up, and water storage tank installation) projects. He previously provided CE and administration for the Cohas Brook Sewer project in Manchester, which included two miles of reconstruction of NH Route 28 with road widening for the addition of bike lanes. He also provided CE and inspection for a railroad culvert project in Dover, NH. The project includes the installation of 60’ steel tunnel plates and 84” RC pipe jacking under the railroad. He is also providing oversight of soil management and disposal.

SELECT PROJECT EXPERIENCE:

- Broadway Street Railroad Culvert, City of Dover, NH
- Cohas Brook Sewer Project, City of Manchester, NH
- Charlton Water Main Project, Town of Charlton, MA
- Nassau Avenue Water Storage Tank, City of Wilmington, MA



ANTHONY (AJ) JACQUES

Engineer Inspector Level II

Mr. Jacques has over 11 years of experience in construction management (CM) and inspection. He started with MaineDOT as a Construction Resident, Inspector, and Designer. He provided technical support for multiple highway design projects utilizing MicroStation, In-Road, Hi-Est, and Projex. He then joined Kleinfelder and gained valuable experience as Resident, Chief Inspector, and Engineer Inspector, providing quality project documentation, conducting progress meetings, performing payroll interviews, and preparing contract modifications. He is adept at balancing multiple projects running concurrently while maintaining schedules and budgets. He has a vast depth of experience providing CM and inspection for highway projects, including reconstruction, rehabilitation, roundabouts, overlays, pavement preservation, and associated tasks, such as drainage and safety improvements.

Education - BS, Construction Management, University of Maine-Orono, 2008

Certifications

ACI Concrete Field-Testing Technician, Grade I

NETTCP Paving Inspection #2397

NETTCP Nuclear Gauge, Lifetime

AGC Work Zone Traffic Control

OSHA-30

SELECT PROJECT EXPERIENCE:

- Roundabout Construction, Exit 102, MaineDOT, West Gardiner, ME
- Highway Rehabilitation, Route 17, MaineDOT, Washington-Rockland, ME
- Mill and Fill, Overlay, Drainage Improvements, MaineDOT, Route 126, West Gardiner, ME
- Cyclical Pavement Resurfacing, Route 139, MaineDOT, Unity-Benton, ME
- Maine State Ferry Service Terminal Upgrades, MaineDOT, Frenchboro, ME



JOSE LOVELL, PE

Engineer Inspector Level II

Mr. Lovell is a civil engineer with a wide skillset that has been applied in the planning, design, and construction of drainage, roadway, water, and wastewater projects. Mr. Lovell has extensive experience with all aspects of project development, including conceptual, preliminary, and final design, various types of analyses and assessments of municipal water/wastewater infrastructure, development of contract drawings and specifications, permitting, property easement acquisition, construction administration and resident engineering, development of record drawings, and project startup and closeout services.

Education - BS, Civil Engineering, University of Massachusetts, Amherst, NH, 2003

Registrations- Professional Engineer (PE)-Civil, No. 14114, NH

Professional Affiliations

American Society of Civil Engineers

New Hampshire Water Works Association

SELECT PROJECT EXPERIENCE:

- Broadway Street Railroad Culvert, City of Dover, NH
- Cohas Brook, C4 Design, City of Manchester, NH
- Charlton Water Main Project, Town of Charlton, MA
- Londonderry System Evaluation, Manchester Water Works, Manchester, NH
- Construction Administration Services, Exxon Mobile, Charlton, MA
- Christian Brook Sewer, City of Manchester, NH

Education - BS Mechanical Engineering, University of Massachusetts, MA, 1986

Registrations - Engineer in Training, MA, Issued 1/15/1986

ROBERT DAHLINGHAUS

Engineering Inspector II

Mr. Dahlinghaus is a construction specialist with over 40 years of experience in the design, construction, and operation of water, wastewater, light industrial, and power generation facilities. He has performed mechanical design work on HVAC, process piping, and industrial machinery systems. Mr. Dahlinghaus also has designed safety-related emergency systems at nuclear power plants.

SELECT PROJECT EXPERIENCE:

- Manchester Phase II CSO Abatement, Contract 1, Manchester, NH
- Pierce Island Force Main and Water Main Replacement, City of Portsmouth, NH
- Pierce Island Wastewater Treatment Facility Upgrade, City of Portsmouth, NH
- Belmont Municipal Light Department, Town of Belmont, MA
- Water Pollution Control Facility Upgrade, Town of Ridgefield, CT
- Mystic Power Generation Station, Excelon Power, Everett, MA



CLARK HARRIS

Technician Inspector Level III

Mr. Harris has over 35 years of experience in construction management (CM) and inspection for building upgrades, wastewater, drainage, roadways, railroads, and CSO projects in the Northeast. He has excellent communication skills and is proficient coordinating with project owners, contractors, and design consultants. His diverse skillset lends itself to successfully review and verify contractor schedules and submittals, field observations, documentation, daily and weekly reports, daily quantities and pay estimates, Requests for Information (RFI's) responses, shop drawings, re-design of changes in field conditions, as-built drawings, surveying, and cost of completion projections. Mr. Harris provided CM and inspection for the City of Cambridge, MA for

SELECT PROJECT EXPERIENCE:

- CAM-004 Project, City of Cambridge, MA
- Road Rehabilitation, City of Saugus, MA
- Water Main Replacement and Roadway Reconstruction, City of Malden, MA

Education - AS, Building Construction Technology, Wentworth Institute of Technology, MA, 1978

Certifications

MA Blasting License, 2016

MA Hoisting License, 2017

NH CDL

Hazmat Waste Operator, 1988

OSHA HazWoper 40 Hour

Certifications

Local Public Agency Certification Training, No. 1723, NHDOT

OSHA 10

NETTCP HMA Paving

Nuclear Gauge, Lifetime

AL DEFELICE

Technician Inspector Level III

Mr. DeFelice has 35 years of experience in the construction of sites, roadways and utilities with the last 14 years performing quality control on both private and municipal projects around the New England area.

SELECT PROJECT EXPERIENCE:

- Cohas Brook Sewer Construction Services, Manchester, NH
- Mechanic Street Water Mains, Canton, MA

Education - BA, Hobart College, NY, 1993

BS, Biology, Hobart College, NY, 1997

Certifications

Certified Professional in Erosion and Sedimentation Control #6524

Certified Professional Erosion, Sediment, Storm Water Inspection #4591

ACI Concrete Field Inspector, Grade I

OSHA 32

MICHAEL CLARK

Environmental Inspector

Mr. Clark has over 30 years of environmental and construction management and inspection. He began his career at the MaineDOT as a Highway Laborer, and transitioned to the MaineDOT Environmental Office - first as an Environmental Specialist II, and then as an Environmental Coordinator and Environmental Stewardship Coordinator. In these roles, he was responsible for MaineDOT compliance with environmental laws and regulations on all highway projects. In 2018, Mr. Clark moved to MaineDOT's Bridge Program where he worked as a Senior Technician and Construction Resident responsible for overall construction management of bridge projects.

SELECT PROJECT EXPERIENCE:

- Cobbosseecontee Stream Bridge Rehabilitation, MTA, Litchfield/West Gardiner, ME
- Androscoggin River Bridge Rehabilitation, MTA, Lewiston/Auburn, ME

Headwaters Consulting, LLC

Education - BS, Civil & Environmental Engineering, Clarkson University, NY, 1993

Registrations

Professional Engineer (PE): NH #11053

NH Certified Wetland Scientist #216

SEAN SWEENEY, PE, CWS

Environmental Inspector

Mr. Sweeney has over 25 years of experience as a civil and environmental engineer providing environmental inspection for construction phase services. His experience includes bridge and culvert projects where he provides hydraulic evaluations, hydrology, environmental permitting and assessments (state and federal levels), stormwater management design, and construction oversight. He is adept at making sure that project construction is in compliance with environmental regulations.

SELECT PROJECT EXPERIENCE:

- Oak Street Bridge Replacement, Newport, NH
- Castle Hill Road Arch Culvert Replacement, Windham, NH
- Breezy Hill Road Bridge, Bradford, NH

APPENDIX: PROJECTS



The Oak Street Bridge shortly after it opened to traffic.

Replacement of Oak Street Bridge over the Sugar River

Client: Town of Newport, NH

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Full-Time Onsite Observation, Budget Management, Labor Compliance, Project Meetings, QA/QC

Kleinfelder provided design and construction phase engineering and administration services for the replacement of a 1937 historic truss bridge. This project included federal funding through the Federal Municipal Off System Bridge Program (MOBRR). Our construction phase services personnel oversaw the replacement of the existing truss bridge with a new 118' clear span-steel-girder bridge with composite reinforced concrete deck on new concrete abutments with associated approach work. Construction phase considerations also included avoiding potential sensitive archaeological areas and fulfilling NHDES stream crossing guidelines.

Kleinfelder secured the necessary permits from NHDES and worked with the Town to obtain the easements and utility relocations prior to advertising the project. Our construction phase personnel made sure that the Contractor adhered to these permits and negotiated easements and utility relocation.

This bridge aid project was federally funded and therefore required near full-time construction observation and increased construction administration efforts by the Kleinfelder team to monitor federal labor compliance in close coordination with NHDOT's OFC. We also provided materials testing and shop fabrication oversight during the construction phases services as part of the quality assurance/quality control program.



The Echo Valley Farm Road Bridge is shown during construction.

Replacement of Echo Valley Farm Road Bridge over Griffin Brook

Client: Town of Epsom, NH

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Part-Time Onsite Observation, Budget Management, Project Meetings, QA/QC

Kleinfelder was selected by the Town of Epsom to provide construction phase engineering services for this project that was designed by another consulting firm.

The existing CMP culverts that carried Echo Valley Farm Road over Griffin Brook were replaced with a new precast concrete rigid frame system. A waterproofing membrane was provided on top of the precast units to reduce water infiltration and increase protection of the top of the frame. An off-site detour was used to maintain traffic during construction. A total length of 300 linear feet of new paved roadway approaches was included as part of the project.

Since this project fell under the NHDOT Municipally-Managed Bridge Aid Program, Kleinfelder provided part-time construction observation and visited the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and determine if the work is proceeding in accordance with the Contract Documents. Materials testing for concrete, soils and asphalt was provided by specialized subconsultants to ensure that the work was being done in conformance with the contract documents as part of the quality assurance/quality control program for the project. All materials testing results were reviewed by Kleinfelder and any materials not meeting spec required corrective action by the Contractor. Construction costs were controlled by careful monitoring of on-site work and documentation of field measured quantities.



The Central Street Bridge at completion.

Central Street Bridge Replacement

Client: Town of Bristol, NH

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Full-Time Onsite Observation, Budget Management, Labor Compliance, Project Meetings, QA/QC

Kleinfelder provided comprehensive engineering services, from design to construction phase services, for the replacement of the Central Street Bridge. This project followed NHDOT Municipal Bridge Aid Program processes and MOBRR. The crossing provides a vital connection between the towns of Bristol and New Hampton.

Our construction phase services personnel oversaw the construction of the new 240-foot span, making it the longest single-span bridge of its type in New Hampshire. The scope of work also included construction oversight of realigned approaches, wider travel lanes, softened curves, and a wide sidewalk. The project aimed to increase vehicular and pedestrian safety with minimal impact to adjacent properties and the natural setting.

Kleinfelder worked with multiple project stakeholders during construction to replace the existing truss bridge with a one-span steel plate girder bridge. As a federally funded project, Kleinfelder performed full-time construction oversight and federal labor compliance monitoring throughout the duration of construction.

We also provided shop fabrication oversight of the eight-foot deep, high-strength, weathering steel girders. We provided materials testing for both soils, concrete, and asphalt in accordance with quality assurance program for municipally managed NHDOT projects.



East Main Street Highway Improvements project nearing completion.

East Main Street Highway Improvements

Client: Town of Bradford, NH

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Full-Time Onsite Observation, Budget Management, Labor Compliance, Project Meetings, QA/QC

Kleinfelder provided construction phase services, including engineering and oversight for this highway improvements project. Kleinfelder was also the prime consultant for design, leading preliminary and final design and environmental compliance. The scope of work included improvements to 1,700 feet of road on East Main Street in the Town's central district and provided for multimodal travel along the rural collector roadway. The project area also included several National Register-eligible properties, which required additional consultation to avoid impacts while maintaining the project budget.

Our construction phase personnel oversaw the completion of roadway reconstruction with wider shoulders and new sidewalks within the existing right-of-way. The project was funded with Transportation Enhancement (TE) funds, a precursor to the TAP program. Kleinfelder's construction engineers provided full-time observation with daily construction oversight, labor compliance, and final closeout procedures.

Maintenance of traffic became an important part of construction as the area included many local businesses and residences. We functioned as a stakeholder liaison and coordinated directly with local business owners and abutters to resolve any issues affecting their properties.



A section of the project area at UNH.

UNH Main Street Improvements

**Client: University of New Hampshire
Durham, NH**

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Part-Time Onsite Observation, Budget Management, Labor Compliance, Project Meetings, QA/QC

Through funding from the NHDOT Transportation Enhancement Program (a precursor to TAP), the University of New Hampshire (UNH) and the Town of Durham sought enhancements to the Main Street corridor to balance vehicular, pedestrian, transit, and utility functions with landscaping and other visual characteristics. Kleinfelder provided both design services and construction phase engineering and inspection services, including part-time inspection with project close-out and documentation.

Kleinfelder's construction oversight included inspection and monitoring to meet plans and specifications of the following street upgrades: New vehicular turning lanes, sidewalks, crosswalks, bus stops, and bicycle lanes; historic-style lamp posts; relocated walkways creating landscape buffers; solar-powered flashing yellow LED pedestrian signage; designs to reconstruct sidewalks and accommodate pedestrian ramps calling for removal of existing slabs; modified tunnel walls; and new concrete slabs cast to meet ADA and structural loading requirements.

The beautified Main Street streetscape enhances user safety and travel efficiency and promotes non-vehicular traffic, creating a positive environmental impact on the community. The project was substantially complete in time for the start of UNH's academic year and stayed within the construction budget.



Constructing the new sewer line in Manchester.

Cohas Brook Sewer Project

Client: City of Manchester, NH

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Full-Time Onsite Observation, Budget Management, Project Meetings, QA/QC

Kleinfelder provided design and construction phase services for the Cohas Brook Sewer Project, a major long-term project for the City of Manchester to improve wastewater collection and minimize pollution to local waterways. Kleinfelder identified and ranked several sewer alignment alternatives based on factors such as cost, traffic impacts, overhead and underground utility impacts, long-term operation and maintenance, environmental impacts, archaeological impacts, easement acquisition, and need for pumping.

Kleinfelder worked closely with the City to obtain critical easements and new funding for the addition of roadway reconstruction and new bike lanes. We followed NHDOT standards to aggressively fast-track the design of the roadway and related drainage improvements.

Our construction phase services personnel oversaw and monitored the installation of 34,000 linear feet of new sewer, including 12,000 linear feet of new 24-inch diameter interceptor sewer, various stream and structure crossings, and work in other environmentally sensitive areas. We also oversaw two miles of roadway reconstruction and four miles of new bike lanes. Our construction inspectors also made sure that the project adhered to NHDOT specifications. Our inspectors made sure that the Contractor adhered to the negotiated easements. The work was successfully completed within the original established timeframe, resulting in substantial cost savings for the City.



A view of the SML Bridge towers under construction.

SML Bridge Replacement

Client: MaineDOT

Portsmouth, NH & Kittery, ME

Services Provided: Project Documentation, Full-Time Onsite Observation, Project Meetings, QA/QC

The \$170 million Sarah Mildred Long (SML) Bridge replacement project included the replacement of a vertical lift bridge built in 1940. The replacement lift-span bridge is a precast-post tensioned segmental bridge with a hybrid orthotropic box girder composed of 14 structural steel modules and a four-part tower.

Kleinfelder provided construction inspection and documentation services for the initial roadway approach work and then throughout the project for on-site precast concrete yard. Kleinfelder's inspectors also provided off-site inspection at the Unistress pre-casting facility for several weeks to inspect vehicle and railroad precast segments. Under a multi-year contract, Kleinfelder inspected the following highway and bridge components of the project:

- Traffic Control Devices
- Revised Traffic Pattern layout
- Forms and Rebar
- In-beds, Conduit, Ducts
- Concrete Placement
- Striping and Patching of Tower Segments
- Segment/Tower Erection
- Drilling and Epoxy of Rebar
- Post Tense and Grouting

Kleinfelder staff provided detailed inspection and documentation with the goal of proactively mitigating any potential issues to maintain schedule and prevent delays on this complex project.



The Washington Avenue Improvements project paves sidewalks.

Washington Avenue Improvements

Client: City of Portland, ME

Services Provided: Project Documentation, Full-Time Onsite Observation, Budget Management, Project Meetings, QA/QC

Kleinfelder provided construction inspection for this MaineDOT Local Project Administration (LPA) project for the City of Portland. The project scope included mill and fill, pavement preservation, sidewalk construction, and safety improvements on Washington Avenue and the intersection with Allen Avenue. Sidewalk construction included ADA compliant upgrades with ramps, striping, and signalization. Other project scope included subsurface utility rehabilitation and modifications.

Kleinfelder maintained project documentation and record keeping. Through field inspections and daily reports, our inspectors were able to support the City with payment requisitions through tracking project material use and estimating. We also assisted with daily coordination between the Contractor and the City's Senior Engineer. We were responsible for verification for field testing and sampling as needed and project accordance with plans and specifications.

Through our daily oversight, we were able to facilitate and make sure that all MaineDOT LPA and City policies and procedures were implemented throughout the duration of the project, including project close-out and documentation. The project was completed under budget and ahead of schedule due to our thorough oversight and detailed documentation and record keeping.



A precast box culvert is lowered into place on Route 302.

Highway Reconstruction, Route 302
Client: MaineDOT
Bridgton & Fryeburg, ME

Services Provided: Project Documentation, Full-Time Onsite Observation, Budget Management, Project Meetings, QA/QC

This project included full reconstruction of five miles of Route 302, a heavily travelled corridor seasonally that connects western Maine with New Hampshire’s White Mountain National Forest and popular Conway. The scope of work included highway reconstruction, with alignment changes, culvert installations, slope stabilization, and intersection improvements.

Kleinfelder’s lead inspector provided oversight of a team of inspectors, including another Kleinfelder inspector. We inspected, documented, and tracked quantities for the projects clearing, excavation, and paving operations along with drilling, blasting, and ledge removal related to the new alignment. We also inspected the installation of two box culverts with associated stream-bed relocations and drainage improvements. We also oversaw:

- Clearing
- Excavation, Blasting, and Ledge Removal
- Subbase
- Drainage
- Box Culverts
- Milling
- Paving
- Guardrail Installation
- Soil and Erosion Control
- Landscaping, Loam, and Seed
- Signalization Removal
- Maintenance of Traffic Control

Our inspectors utilized auto level, GPS, pop-level, and grade stakes and strings to properly inspect the roadway, box cuts and gravel fill placements. Finally, our inspectors also assisted MaineDOT with implementing full electronic documentation and record keeping.



Water main upgrades in Somerville.

Powder House & Properzi Water Main Upgrades
Client: City of Somerville, MA

Services Provided: Manage Project Submittals Process, Consultation/Designer Coordination, Project Documentation, Full-Time Onsite Observation, Budget Management, Labor Compliance, Project Meetings, QA/QC

Kleinfelder provided design and bidding services and is currently providing engineering services during construction for this water main upgrade project on Powder House Boulevard and Properzi Way. The project addresses one of the highest priority recommendations in the City’s Water System Capital Improvement Plan, prepared by Kleinfelder in 2012. The project consists of cleaning and lining 3,000 linear feet of the existing low service, cast iron water main in Powder House Boulevard and replacing and upgrading the existing cast iron water main in Properzi Way.

Our services during construction include construction administration and full-time construction observation for water main upgrades, roadway paving, and sidewalk upgrades. We are coordinating with the construction contractor daily to verify that completed work adheres to the contract specifications and to advise City staff on project progress. We are also reviewing any unforeseen conditions discovered during the project and advising the contractor on modifications to the design if necessary. We monitored traffic control in a busy urban setting. The City has expanded this project to include an additional area of high priority water main upgrades on Preston Street and Summer Street necessary to support nearby drain and sewer upgrades on Cedar Street. This additional work will commence after Powder House Boulevard and Properzi Way are complete.